

UICI – 008 – 1

**WDW-2
PERMITS,
RENEWALS,
& MODS (2)**

2013

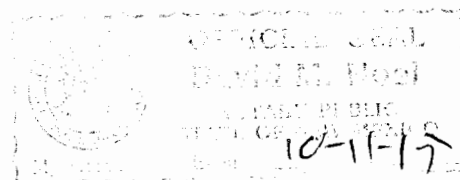
AFFIDAVIT OF PUBLICATION

STATE OF NEW MEXICO
County of Bernalillo SS

Linda MacEachen, being duly sworn, declares and says that she is Classified Advertising Manager of **The Albuquerque Journal**, and that this newspaper is duly qualified to publish legal notices or advertisements within the meaning of Section 3, Chapter 167, Session Laws of 1937, and that payment therefore has been made of assessed as court cost; that the notice, copy of which is hereto attached, was published in said paper in the regular daily edition, for 1 times, the first publication being on the 5 day of October, 2013, and the subsequent consecutive publications on _____, 20____.

Linda MacEachen

Sworn and subscribed before me, a Notary Public, in and for the County of Bernalillo and State of New Mexico this 9 day of October of 2013.



PRICE \$98.42

Statement to come at end of month.

CLA-22-A (R-1/93)

ACCOUNT NUMBER 1009556

[Handwritten signature]

Affidavits

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NOTICE OF PUBLICATION

**STATE OF NEW MEXICO
ENERGY, MINERALS AND
NATURAL RESOURCES
DEPARTMENT
OIL CONSERVATION DIVISION**

Notice is hereby given that pursuant to Water Quality Control Commission Regulations (20.6.2.3106 NMAC) the following discharge permit application(s) has been submitted to the Director of the New Mexico Oil Conservation Division (OCD), 1220 S. Saint Francis Drive, Santa Fe, New Mexico 87505, and Telephone (505) 476-3440:

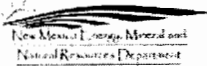
(UICI-008-2) Navajo Refining Company, L.L.C. Michael G. McKee, Vice President and Refinery Manager, 501 East Main Street, P.O. Box Drawer 159, Artesia New Mexico 88211-0159, has submitted a renewal application for operation of a previously approved Underground Injection Control (UIC) Class I (non-hazardous) injection Well Discharge Permit (UICI-008-2) for the Waste Disposal Well #2- WDW-2 (API# 30-015-20894) located 1980 FNL and 880 FWL (SW/4, NW/4) in Section 12, Township 18 South, Range 27 East, NMPM, Eddy


Albuquerque Publishing Company

7777 Jefferson N.E. Albuquerque, New Mexico 87109

P.O. Drawer J-T Albuquerque, New Mexico 87103

(505) 823-7777

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ENERGY, MINERALS AND
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Any interested person may obtain further information from the OCD and may submit written comments to the Division Director at the address given above. The application and draft permit may be viewed at the above address between 8:00 a.m. and 4:00 p.m., Monday through Friday, or may also be viewed at the OCD's web site <http://www.emnrd.state.nm.us/ocd/>. Persons interested in obtaining a copy of the application and draft

Ad Proof / Order ConfirmationAccount Number

1009556

Ad Order Number

0001100602

N M DEPT OF ENERGY, MINERALS

permit may contact OCD at the address given above. Prior to ruling on any proposed discharge permit or major modification, the Director shall allow a period of at least thirty (30) days after the date of publication of this notice, during which interested persons may submit comments or request that OCD hold a public hearing. Requests for a public hearing shall set forth the reasons why a hearing should be held. A hearing will be held if the Director determines that there is significant public interest.

If no public hearing is held, the Director will approve or disapprove the proposed permit based on available information, including all comments received. If a public hearing is held, the director will approve or disapprove the proposed permit based on information in the application along with information submitted at the hearing.

Para obtener más información sobre esta solicitud en español, sírvase comunicarse por favor: New Mexico Energy, Minerals and Natural Resources Department (Depto. Del Energía, Minerals y Recursos Naturales de Nuevo México), Oil Conservation Division (Depto. Conservación Del Petróleo), 1220 South St. Francis Drive, Santa Fe, New México (Contacto: Laura Juarez, 575-749-1283 x 100).

DONE at Santa Fe, New Mexico, on this 2nd day of October 2013.

STATE OF NEW MEXICO
OIL CONSERVATION DIVISION
Jami Bailey, Director
Journal: October 5, 2013

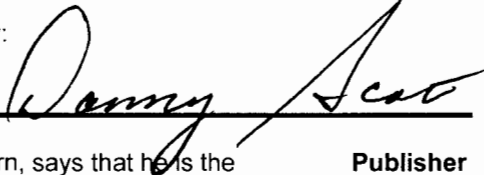
Affidavit of Publication

NO. 22752

STATE OF NEW MEXICO

County of Eddy:

Danny Scott



Publisher

being duly sworn, says that he is the
of the Artesia Daily Press, a daily newspaper of general
circulation, published in English at Artesia, said county
and state, and that the hereto attached

Legal Notice

was published in a regular and entire issue of the said
Artesia Daily Press, a daily newspaper duly qualified
for that purpose within the meaning of Chapter 167 of
the 1937 Session Laws of the state of New Mexico for

1 Consecutive weeks/days on the same

day as follows:

First Publication October 6, 2013

Second Publication _____

Third Publication _____

Fourth Publication _____

Fifth Publication _____

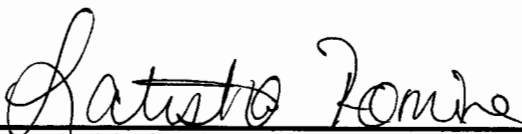
Subscribed and sworn to before me this

7th day of October 2013



OFFICIAL SEAL
Latisha Romine
NOTARY PUBLIC-STATE OF NEW MEXICO

My commission expires: 5/12/2015



Latisha Romine
Notary Public, Eddy County, New Mexico

Copy of Publication:

LEGAL NOTICE

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ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT
OIL CONSERVATION DIVISION

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DONE at Santa Fe, New Mexico, on this 2nd day of October 2013.

STATE OF NEW MEXICO
OIL CONSERVATION DIVISION

Published in the Artesia Daily Press, Artesia, N.M., Oct. 6 2013. Legal No 22752.



P.O. Box 190 • Artesia , NM 88211-0190 • 575-746-3524

Bill to:

Fran Chavez
Oil Conservation Division - EMNRD
1220 South St. Francis Dr.
Santa Fe, NM 87505

Sold to:

Fran Chavez
Oil Conservation Division - EMNRD
1220 South St. Francis Dr.
Santa Fe, NM 87505

Account ID: 4212

Please pay from this Pre-Bill. Return stub with payment	Rep ID: LR	Terms: Net 30
Description		
Classification of Ad: 450 – Legal Notice		Zone: C
PO: [REDACTED] Text: Legal # 22752		

Charges from 10/6/2013 to 10/6/2013

Date	Pub Type	Description	Price	Discount	Applied	Due
10/6/13	ADP ad	Legal Notice: Legal # 22752 - Legal ✓	\$124.74			\$134.02
			\$124.74			\$134.02

*OK TO Pay
Revised for
10/11/13*

Please return this portion with your payment.

Pre-Bill

Remit Payment to:
Artesia Daily Press
P.O. Box 190
Artesia, NM 88211-0190
Phone: 575-746-3524
Fax: 575-746-8795

Amount Due \$134.02

Amount Enclosed _____

Issue Date:	10/6/2013
Prebill Date:	10/7/2013
Ad #	50242
Account #	4212

Fran Chavez
Oil Conservation Division - EMNRD
1220 South St. Francis Dr.
Santa Fe, NM 87505

Chavez, Carl J, EMNRD

From: Chavez, Carl J, EMNRD
Sent: Wednesday, October 02, 2013 4:20 PM
To: Lane, James, DGF; Wunder, Matthew, DGF; Allison, Arthur, DIA; 'ddapr@nmda.nmsu.edu'; 'jjuen@blm.gov'; 'psisneros@nmag.gov'; 'r@rthicksconsult.com'; 'sric.chris@earthlink.net'; 'nmparks@state.nm.us'; Verhines, Scott, OSE; 'peggy@nmbg.nmt.edu'; 'marieg@nmoga.org'; Fetner, William, NMENV; 'lazarus@glorietageo.com'; Winchester, Jim, NMENV; 'cnewman02@fs.fed.us'; Kieling, John, NMENV; 'bsg@garbhall.com'; Schoeppner, Jerry, NMENV; 'claudette.horn@pnm.com'; 'ekendrick@montand.com'; 'staff@ipanm.org'; Gonzales, Elidio L, EMNRD; Leking, Geoffrey R, EMNRD; Dade, Randy, EMNRD; Bratcher, Mike, EMNRD; Perrin, Charlie, EMNRD; Kelly, Jonathan, EMNRD; Powell, Brandon, EMNRD; Martin, Ed, EMNRD
Cc: Dawson, Scott, EMNRD; Sanchez, Daniel J., EMNRD
Subject: New Mexico Oil Conservation Division Underground Injection Control (UIC) Program Class I (non-hazardous) Injection Well Permit Renewal Public Notices Navajo Refining Company, LLC (Eddy County)
Attachments: UICI-8 WDW-1 PN 10-2-2013.pdf; UICI-8 WDW-2 PN 10-2-2013.pdf

Ladies and Gentlemen:

The New Mexico Oil Conservation Division (OCD) issued public notices for the above subject wells today. Please find attached the public notices that will be posted in the Albuquerque Journal and Artesia Daily Press soon.

Please click [here](#) to view the WDW-1 and WDW-2 discharge permit documents posted today on the OCD Website.

Thank you.

Carl J. Chavez, CHMM
New Mexico Energy, Minerals & Natural Resources Department
Oil Conservation Division, Environmental Bureau
1220 South St. Francis Drive, Santa Fe, New Mexico 87505
Office: (505) 476-3490
E-mail: CarlJ.Chavez@State.NM.US
Website: <http://www.emnrd.state.nm.us/ocd/>

“Why Not Prevent Pollution; Minimize Waste; Reduce the Cost of Operations; & Move Forward With the Rest of the Nation?” To see how, please go to: “Pollution Prevention & Waste Minimization” at <http://www.emnrd.state.nm.us/ocd/environmental.htm#environmental>

State of New Mexico
Energy, Minerals and Natural Resources Department

Susana Martinez
Governor

David Martin
Cabinet Secretary Designate

Brett F. Woods, Ph.D.
Deputy Cabinet Secretary

Jami Bailey
Division Director
Oil Conservation Division



OCTOBER 2, 2013

**CERTIFIED MAIL
RETURN RECEIPT NO: 7923 1282**

Mr. Michael G. McKee
Vice President and Refinery Manager
Navajo Refining Company, L.L.C.
501 East Main
Artesia, New Mexico 88210

Re: Discharge Permit (UICI-008-2) Renewal Application for Class I non-hazardous waste injection well (Waste Disposal Well No. 2 (WDW-2) - API No. 30-015-20894) located 1980 FNL and 660 FWL (SW NW) in Section 12, Township 18 South, Range 27 East, NMPM, Eddy County, New Mexico

Dear Mr. McKee:

Pursuant to the Water Quality Control Commission (WQCC) Regulations 20.6.2.3104 – 20.6.2.3114 NMAC, the Oil Conservation Division (OCD) hereby proposes to approve the renewal of the Navajo Refining Company, L.L.C. (Permittee) discharge permit for the above referenced Facility contingent upon the conditions specified in the attached draft Discharge Permit. Please review and provide comments to OCD on the draft Discharge Permit within 30 days of receipt of this letter.

If you have any questions, please contact Carl J. Chávez of my staff at (505) 476-3490 or E-mail: CarlJ.Chavez@state.nm.us. On behalf of the OCD, I wish to thank you and your staff for your cooperation during this discharge permit review.

Sincerely,

A handwritten signature in blue ink that reads "Scott Dawson".

Scott Dawson
Deputy Director

SD/cjc

cc: OCD Artesia Office

DISCHARGE PERMIT UICI-008-2 (WDW-2)

1. GENERAL PROVISIONS:

1.A. PERMITTEE AND PERMITTED FACILITY: The Director of the Oil Conservation Division (OCD) of the Energy, Minerals and Natural Resources Department issues Discharge Permit UICI-008-2 (Discharge Permit) to Navajo Refining Company (Permittee) to operate its Underground Injection Control (UIC) Class I non-hazardous waste injection well (Waste Disposal Well No. 2 - API No. 30-015-20894, WDW-2) located 1980 FNL and 660 FWL, Unit Letter E, Section 12, Township 18 South, Range 27 East, NMPM, Eddy County, New Mexico at its Disposal Well Facility (Facility). The injection well is located approximately 10.5 miles east-southeast of Artesia on Hwy-82 from Hwy-285 and about 3.3 miles south of Hilltop Road.

The Permittee is permitted to dispose of only non-hazardous (RCRA exempt and RCRA non-hazardous, non-exempt) oil field waste fluids into its Class I non-hazardous waste injection well (WDW-2). The Permittee may dispose of a maximum of 500 gallons per minute (gpm) of oil field waste fluids. Ground water that may be affected by a spill, leak, or accidental discharge occurs at a depth of approximately 100 feet below ground surface and has a total dissolved solids (TDS) concentration of approximately 1,000 – 2,200 mg/l.

1.B. SCOPE OF PERMIT: OCD has been granted the authority by statute and by delegation from the Water Quality Control Commission (WQCC) to administer the Water Quality Act (Chapter 74, Article 6 NMSA 1978) as it applies to Class I non-hazardous waste injection wells (see Section 74-6-4, 74-6-5 NMSA 1978).

The Water Quality Act and the rules promulgated pursuant to the Act protect ground water and surface water of the State of New Mexico by providing that, unless otherwise allowed by 20.6.2 NMAC, no person shall cause or allow effluent or leachate to discharge so that it may move directly or indirectly into ground water unless such discharge is pursuant to an approved discharge plan (see 20.6.2.3104 NMAC, 20.6.2.3106 NMAC, and 20.6.2.5000 through 20.6.2.5299 NMAC).

This Discharge Permit for a Class I non-hazardous waste injection well (WDW-2) is issued pursuant to the Water Quality Act and WQCC rules, 20.6.2 NMAC. This Discharge Permit does not authorize any treatment of, or on-site disposal of, any materials, product, by-product, or oil field waste, other than non-hazardous oil field waste fluids into its Class I non-hazardous waste injection well (WDW-2), including, but not limited to, the on-site disposal of lube oil, glycol, antifreeze, and washdown water. The Permittee may not dispose of any industrial waste fluid that is not oil field waste that is generated at its refinery. The Ground Water Quality Bureau of the New Mexico Environment Department permits the management of all industrial fluids that are not generated in the oil field.

Pursuant to 20.6.2.5004A NMAC, the following underground injection activities are prohibited:

1. The injection of fluids into a motor vehicle waste disposal well is prohibited.

2. The injection of fluids into a large capacity cesspool is prohibited.
3. The injection of any hazardous or radioactive waste into a well is prohibited except as provided by 20.6.2.5004A(3) NMAC.
4. Class IV wells are prohibited, except for wells re-injecting treated ground water into the same formation from which it was drawn as part of a removal or remedial action.
5. Barrier wells, drainage wells, recharge wells, return flow wells, and motor vehicle waste disposal wells are prohibited.

This Discharge Permit does not convey any property rights of any sort nor any exclusive privilege, and does not authorize any injury to persons or property, any invasion of other private rights, or any infringement of state, federal, or local laws, rules or regulations.

The Permittee shall operate in accordance with the terms and conditions specified in this Discharge Permit to comply with the Water Quality Act and the rules issued pursuant to that Act, so that neither a hazard to public health nor undue risk to property will result (see 20.6.2.3109C NMAC); so that no discharge will cause or may cause any stream standard to be violated (see 20.6.2.3109H(2) NMAC); so that no discharge of any water contaminant will result in a hazard to public health (see 20.6.2.3109H(3) NMAC); so that the numerical standards specified in 20.6.2.3103 NMAC are not exceeded; and, so that the technical criteria and performance standards (see 20.6.2.5000 through 20.6.2.5299 NMAC) for Class I non-hazardous waste injection wells are met. Pursuant to 20.6.2.5003B NMAC, the Permittee shall comply with 20.6.2.1 through 20.6.2.5299 NMAC.

The Permittee shall not allow or cause water pollution, discharge, or release of any water contaminant that exceeds the Water Quality Control Commission (WQCC) standards specified in 20.6.2.3101 NMAC and 20.6.2.3103 NMAC or 20.6.4 NMAC (Water Quality Standards for Interstate and Intrastate Streams). Pursuant to 20.6.2.5101A NMAC, the Permittee shall not inject non-hazardous waste fluids into ground water having 10,000 mg/l or less total dissolved solids (TDS).

The issuance of this permit does not relieve the Permittee from the responsibility of complying with the provisions of the Water Quality Act, any applicable regulations or water quality standards of the WQCC, or any applicable federal laws, regulations or standards (see Section 74-6-5 NMSA 1978).

1.C. DISCHARGE PERMIT RENEWAL: This Discharge Permit is a permit renewal that replaces the permit being renewed. Replacement of a prior permit does not relieve the Permittee of its responsibility to comply with the terms of that prior permit while that permit was in effect.

1.D. DEFINITIONS: Terms not specifically defined in this Discharge Permit shall have the same meanings as those in the Water Quality Act or the rules adopted pursuant to the Act, as the context requires.

1.E. FILING FEES AND PERMIT FEES: Pursuant to 20.6.2.3114 NMAC, every facility that submits a Discharge Permit application for initial approval or renewal shall pay the permit fees specified in Table 1 and the filing fee specified in Table 2 of 20.6.2.3114 NMAC. OCD has already received the required \$100.00 filing fee. The Permittee shall submit the final \$4,500.00 permit fee for a Class I non-hazardous waste injection well to OCD with a check made payable to “Water Quality Management Fund” thirty days after the date that this permit is issued.

1.F. EFFECTIVE DATE, EXPIRATION, RENEWAL CONDITIONS, AND PENALTIES FOR OPERATING WITHOUT A DISCHARGE PERMIT: This Discharge Permit becomes effective 30 days from the date that the Permittee receives this discharge permit or until the permit is terminated or expires. This Discharge Permit will expire on **June 1, 2017**. The Permittee shall submit an application for renewal no later than 120 days before that expiration date, pursuant to 20.6.2.5101F NMAC. If a Permittee submits a renewal application at least 120 days before the Discharge Permit expires and is in compliance with the approved Discharge Permit, then the existing Discharge Permit will not expire until OCD has approved or disapproved the renewal application. A discharge permit continued under this provision remains fully effective and enforceable. Operating with an expired Discharge Permit may subject the Permittee to civil and/or criminal penalties (see Section 74-6-10.1 NMSA 1978 and Section 74-6-10.2 NMSA 1978).

1.G. MODIFICATIONS AND TERMINATIONS: The Permittee shall notify the OCD Director and the OCD’s Environmental Bureau of any Facility expansion, any injection increase above the approved pressure limit or volume limit specified in Permit Condition 3.B.2, or process modification that would result in any significant modification in the discharge of water contaminants (see 20.6.2.3107C NMAC). The OCD Director may require the Permittee to submit a Discharge Permit modification application pursuant to 20.6.2.3109E NMAC and may modify or terminate a Discharge Permit pursuant to Sections 74-6-5(M) through (N) NMSA 1978.

1. If data submitted pursuant to any monitoring requirements specified in this Discharge Permit or other information available to the OCD Director indicate that 20.6.2 NMAC is being or may be violated, then the OCD Director may require modification or, if it is determined by the OCD Director that the modification may not be adequate, may terminate this Discharge Permit for a Class I non-hazardous waste injection well (WDW-2) that was approved pursuant to the requirements of this 20.6.2.5000 through 20.6.2.5299 NMAC for the following causes:

a. Noncompliance by Permittee with any condition of this Discharge Permit;
or,

b. The Permittee’s failure in the discharge permit application or during the discharge permit review process to disclose fully all relevant facts, or Permittee’s misrepresentation of any relevant facts at any time; or,

c. A determination that the permitted activity may cause a hazard to public health or undue risk to property and can only be regulated to acceptable levels by discharge

permit modification or termination (see Section 75-6-6 NMSA 1978; 20.6.2.5101I NMAC; and, 20.6.2.3109E NMAC).

2. This Discharge Permit may also be modified or terminated for any of the following causes:

a. Violation of any provisions of the Water Quality Act or any applicable regulations, standard of performance or water quality standards;

b. Violation of any applicable state or federal effluent regulations or limitations; or

c. Change in any condition that requires either a temporary or permanent reduction or elimination of the permitted discharge (see Section 75-6-5M NMSA 1978).

1.H. TRANSFER OF CLASS I NON-HAZARDOUS WASTE INJECTION WELL (WDW-2) DISCHARGE PERMIT:

1. The transfer provisions of 20.6.2.3111 NMAC do not apply to a discharge permit for a Class I non-hazardous waste injection well.

2. Pursuant to 20.6.2.5101H NMAC, the Permittee may request to transfer its Class I non-hazardous waste injection well (WDW-2) discharge permit if:

a. The OCD Director receives written notice 30 days prior to the transfer date; and,

b. The OCD Director does not object prior to the proposed transfer date. OCD may require modifications to the discharge permit as a condition of transfer, and may require demonstration of adequate financial responsibility.

3. The written notice required in accordance with Permit Condition 1.H.2.a shall:

a. Have been signed by the Permittee and the succeeding Permittee, and shall include an acknowledgment that the succeeding Permittee shall be responsible for compliance with the Class I non-hazardous waste injection well discharge permit upon taking possession of the facility;

b. Set a specific date for transfer of the discharge permit responsibility, coverage and liability; and

c. Include information relating to the succeeding Permittee's financial responsibility required by 20.6.2.5210B(17) NMAC.

1.I. COMPLIANCE AND ENFORCEMENT: If the Permittee violates or is violating a condition of this Discharge Permit, OCD may issue a compliance order that requires compliance immediately or within a specified time period, or assess a civil penalty, or both (see Section 74-6-10 NMSA 1978). The compliance order may also include a suspension or termination of this Discharge Permit. OCD may also commence a civil action in district court for appropriate relief, including injunctive relief (see Section 74-6-10A.2 NMSA 1978). The Permittee may be subject to criminal penalties for discharging a water contaminant without a discharge permit or in violation of a condition of a discharge permit; making any false material statement, representation, certification or omission of material fact in a renewal application, record, report, plan or other document filed, submitted or required to be maintained under the Water Quality Act; falsifying, tampering with or rendering inaccurate any monitoring device, method or record required to be maintained under the Water Quality Act; or failing to monitor, sample or report as required by a Discharge Permit issued pursuant to a state or federal law or regulation (see Section 74-6-10.2 NMSA 1978).

2. GENERAL FACILITY OPERATIONS:

2.A. QUARTERLY MONITORING REQUIREMENTS FOR CLASS I NON-HAZARDOUS WASTE INJECTION WELL (WDW-2): Pursuant to 20.6.2.5207B, the Permittee shall provide analysis of the injected fluids at least quarterly to yield data representative of their characteristics.

The Permittee shall analyze the injected fluids quarterly for the following characteristics Include:

- pH;
- Eh;
- Specific conductance;
- Specific gravity;
- Temperature; and,
- General ground water quality parameters (general chemistry/cations and anions, including: fluoride, calcium, potassium, magnesium, sodium bicarbonate, carbonate, chloride, sulfate, total dissolved solids, cation/anion balance, pH, and bromide using the methods specified in 40 CFR 136.3).

2.B. CONTINGENCY PLANS: The Permittee shall implement its proposed contingency plan(s) included in its Permit Renewal Application to cope with failure of a system(s) in the Discharge Permit.

2.C. CLOSURE: Prior to closure of the facility, the Permittee shall submit for OCD's approval, a closure plan including a completed form C-103 for plugging and abandonment of the Class I non-hazardous waste injection well (WDW-2). The Permittee shall plug and abandon WDW-2 pursuant to 20.6.2.5209 NMAC and as specified in Permit Condition 2.D.

1. Pre-Closure Notification: Pursuant to 20.6.2.5005A NMAC, the Permittee shall submit a pre-closure notification to OCD's Environmental Bureau at least 30 days prior to the date that it proposes to close or to discontinue operation of its Class I non-hazardous waste

injection well (WDW-2). Pursuant to 20.6.2.5005B NMAC, OCD's Environmental Bureau must approve all proposed well closure activities before the Permittee may implement its proposed closure plan.

2. Required Information: The Permittee shall provide OCD's Environmental Bureau with the following information:

- Name of facility;
- Address of facility;
- Name of Permittee (and owner or operator, if appropriate);
- Address of Permittee (and owner or operator, if appropriate);
- Contact person;
- Phone number;
- Number and type of well(s);
- Year of well construction;
- Well construction details;
- Type of discharge;
- Average flow (gallons per day);
- Proposed well closure activities (*e.g.*, sample fluids/sediment, appropriate disposal of remaining fluids/sediments, remove well and any contaminated soil, clean out well, install permanent plug, conversion to other type of well, ground water and vadose zone investigation, *etc.*);
- Proposed date of well closure;
- Name of Preparer; and,
- Date.

2.D. PLUGGING AND ABANDONMENT PLAN: Pursuant to 20.6.2.5209A NMAC, when the Permittee proposes to plug and abandon its Class I non-hazardous waste injection well (WDW-2), it shall submit to OCD a plugging and abandonment plan that meets the requirements of 20.6.2.3109C NMAC, 20.6.2.5101C NMAC, and 20.6.2.5005 NMAC for protection of ground water. If requested by OCD, Permittee shall submit for approval prior to closure, a revised or updated plugging and abandonment plan. The obligation to implement the plugging and abandonment plan as well as the requirements of the plan survives the termination or expiration of this Discharge Permit. The Permittee shall comply with 20.6.2.5209 NMAC.

2.E. RECORD KEEPING: The Permittee shall maintain records of all inspections required by this Discharge Permit at its Facility office for a minimum of five years and shall make those records available for inspection by OCD.

2.F. RELEASE REPORTING: The Permittee shall comply with the following permit conditions, pursuant to 20.6.2.1203 NMAC, if it determines that a release of oil or other water contaminant, in such quantity as may with reasonable probability injure or be detrimental to human health, animal or plant life, or property, or unreasonably interfere with the public welfare or the use of property, has occurred. The Permittee shall report unauthorized releases of water contaminants in accordance with any additional commitments made in its approved Contingency

Plan. If the Permittee determines that any constituent exceeds the standards specified in 20.6.2.3103 NMAC, then it shall report a release to OCD's Environmental Bureau.

1. Oral Notification: As soon as possible after learning of such a discharge, but in no event more than twenty-four (24) hours thereafter, the Permittee shall notify OCD's Environmental Bureau. The Permittee shall provide the following:

- The name, address, and telephone number of the person or persons in charge of the facility, as well as of the owner and/or operator of the facility;
- The name and location of the facility;
- The date, time, location, and duration of the discharge;
- The source and cause of discharge;
- A description of the discharge, including its chemical composition;
- The estimated volume of the discharge; and,
- Any corrective or abatement actions taken to mitigate immediate damage from the discharge.

2. Written Notification: Within one week after the Permittee has discovered a discharge, the Permittee shall send written notification (may use form C-141 with attachments) to OCD's Environmental Bureau verifying the prior oral notification as to each of the foregoing items and providing any appropriate additions or corrections to the information contained in the prior oral notification.

The Permittee shall provide subsequent written reports as required by OCD's Environmental Bureau.

2.G. OTHER REQUIREMENTS:

1. Inspection and Entry: Pursuant to Section 74-6-9 NMSA 1978 and 20.6.2.3107A NMAC, the Permittee shall allow any authorized representative of the OCD Director, to:

- Upon the presentation of proper credentials, enter the premises at reasonable times;
- Inspect and copy records required by this Discharge Permit;
- Inspect any treatment works, monitoring, and analytical equipment;
- Sample any effluent before or after discharge; and,
- Use the Permittee's monitoring systems and wells in order to collect samples.

2. Advance Notice: The Permittee shall provide OCD's Environmental Bureau and Artesia District Office with at least five (5) working days advance notice of any environmental sampling to be performed pursuant to this Discharge Permit, or any well plugging, abandonment or decommissioning of any equipment associated with its Class I non-hazardous waste injection well (WDW-2).

3. Environmental Monitoring: The Permittee shall ensure that any environmental sampling and analytical laboratory data collected meets the standards specified in 20.6.2.3107B NMAC. The Permittee shall ensure that all environmental samples are analyzed by an accredited “National Environmental Laboratory Accreditation Conference” (NELAC) Laboratory. The Permittee shall submit data summary tables, all raw analytical data, and laboratory Quality Assurance/Quality Control (QA/QC), and Data Quality Objectives (DQOs).

2.H. BONDING OR FINANCIAL ASSURANCE: Pursuant to 20.6.2.5210B(17) NMAC, the Permittee shall maintain at a minimum, a single well plugging bond in the amount that it shall determine, in accordance with Permit Condition 5.B, to cover potential costs associated with plugging and abandonment of the Class I non-hazardous waste injection well (WDW-2), surface restoration, and post-operational monitoring, as may be needed. OCD may require additional financial assurance to ensure adequate funding is available to plug and abandon the well and/or for any required corrective actions.

Methods by which the Permittee shall demonstrate the ability to undertake these measures shall include submission of a surety bond or other adequate assurances, such as financial statements or other materials acceptable to the OCD Director, such as: (1) a surety bond; (2) a trust fund with a New Mexico bank in the name of the State of New Mexico, with the State as Beneficiary; (3) a non-renewable letter of credit made out to the State of New Mexico; (4) liability insurance specifically covering the contingencies listed in this paragraph; or (5) a performance bond, generally in conjunction with another type of financial assurance. If an adequate bond is posted by the Permittee to a federal or another state agency, and this bond covers all of the measures specified above, the OCD Director shall consider this bond as satisfying the bonding requirements of Sections 20.6.2.5000 through 20.6.2.5299 NMAC wholly or in part, depending upon the extent to which such bond is adequate to ensure that the Permittee will fully perform the measures required herein above.

2.I. REPORTING:

1. Quarterly Reports: The Permittee shall submit quarterly reports pursuant to 20.6.2.5208A NMAC to OCD’s Environmental Bureau by September 1st, December 1st, and March 1st, of each year. The quarterly reports shall include the following:

- a. The physical, chemical and other relevant characteristics of injection fluids;
- b. Monthly average, maximum and minimum values for injection pressure, flow rate and volume, and annular pressure; and
- c. The results of monitoring prescribed under Section 20.6.2.5207B NMAC.

2. Annual Report: The Permittee shall submit its annual report pursuant to 20.6.2.3107 NMAC to OCD's Environmental Bureau by **June 1st** of the following year. The annual report shall include the following:

- Cover sheet marked as "Annual Class I Non-Hazardous Waste Injection Well (WDW-2), Name of Permittee, Discharge Permit Number, API number of well, date of report, and person submitting report;
- Summary of Class I non-hazardous waste injection well (WDW-2) operations for the year including a description and reason for any remedial or major work on the well with a copy of form C-103(s);
- Monthly injection/disposal volume, including the cumulative total should be carried over to each year;
- Maximum and average injection pressures;
- A copy of the quarterly chemical analyses shall be included with data summary and all QA/QC and DQO information;
- Copy of any mechanical integrity test chart(s), including the type of test, *i.e.*, duration, gauge pressure, *etc.*;
- Copy of fall-of test(s) performed with charts and report in accordance with the OCD's 2007 New Mexico Oil Conservation Division UIC Class I Well Fall-Off Test Guidance;
- Summary tables listing environmental analytical laboratory data for quarterly waste fluid samples. Any 20.6.2.3103 NMAC constituent(s) found to exceed a water quality standard shall be highlighted and noted in the annual report. The Permittee shall include copies of the most recent year's environmental analytical laboratory data sheets with QA/QC summary sheet information in conformance with the National Environmental Laboratory Accreditation Conference (NELAC) and EPA Standards;
- Brief explanation describing deviations from the normal injection operations;
- Results of any leaks and spill reports (include any C-141 reports);
- An Area of Review (AOR) annual update summary;
- A summary with interpretation of MITs, Fall-Off Tests, *etc.*, with conclusion(s) and recommendation(s);
- Records of the expansion tank monitoring pressure, fluid removals and/or additions indicating the well MIT condition;
- A summary of all major Facility activities or events, which occurred during the year with any conclusions and recommendations;
- A summary of any new discoveries of ground water contamination with all leaks, spills and releases and corrective actions taken; and,
- The Permittee shall file its Annual Report in an electronic format with a hard copy submittal to OCD's Environmental Bureau.

3. CLASS I NON-HAZARDOUS WASTE INJECTION WELL (WDW-2) OPERATIONS:

3.A. OPERATING REQUIREMENTS: The Permittee shall comply with the operating requirements specified in 20.6.2.5206A NMAC and 20.6.2.5206B NMAC to ensure that:

1. The maximum injection pressure at the wellhead shall not initiate new fractures or propagate existing fractures in the confining zone, or cause the movement of injection or formation fluids into ground water having 10,000 mg/l or less TDS except for fluid movement approved pursuant to 20.6.2.5103 NMAC and during well stimulation.

2. Injection between the outermost casing and the well bore is prohibited in a zone other than the authorized injection zone. If the Permittee determines that its Class I non-hazardous waste injection well (WDW-2) is discharging or suspects that it is discharging fluids into a zone or zones other than the permitted injection zone specified in Permit Condition 3.B.1., then the Permittee shall cease operations until proper repairs are made, notify the OCD's Environmental Bureau and Artesia District office within 24 hours, and shall not resume injection until the permittee has received approval from the OCD.

3. The annulus between the tubing, packer, and the intermediate casing shall be filled with a fluid approved by the OCD Director and a pressure, also approved by the OCD Director shall be maintained on the annulus.

3.B. INJECTION OPERATIONS:

1. **Injection Formation, Interval, and Waste Fluids:** The Permittee shall inject only non-hazardous oil field waste fluid (RCRA exempt and RCRA non-hazardous, non-exempt) into the Wolfcamp, Cisco, and Canyon Formations (formation injection intervals) through perforations set from: 7,570 feet to 8,399 feet (Note: Depths herein are referenced from KB ~13 feet above ground level) in its Class I non-hazardous waste injection well (WDW-2). The surface casing is set at 1,995 feet; the intermediate casing is set at 8,869 feet; the injection tubing is set at 7,528 feet; the packer is set at approximately 7,528 feet to contain annulus fluid. The top cement plug is set at 8,770 feet and bottom cement plug is set from 9,675 – 9,775 feet. The top cement plug is set in the intermediate casing and confines the Class I non-hazardous injection well (WDW-2) to the injection interval. The bottom cement plug is set within the open borehole and serves as a second barrier to flow with well TD at 10,372 feet. The Permittee shall ensure that the injected waste fluid enters perforations only within the above specified injection interval and is not permitted to escape to other formations or onto the surface.

2. **Well Injection Pressure Limits and Injection Flow Rate:** The Permittee shall ensure that the maximum wellhead or surface injection pressure on its Class I non-hazardous waste injection well (WDW-2) shall not exceed 1,510 psig and that the injection flow rate shall not exceed 500 gpm.

3. **Pressure Limiting Device:** The Permittee shall equip and operate its Class I non-hazardous waste injection well (WDW-2) or system with a pressure limiting device, or

equivalent (*i.e.*, Murphy switch), in working condition which shall at all times limit surface injection pressure to the maximum allowable pressure for its Class I non-hazardous waste injection well (WDW-2).

The Permittee shall inspect and monitor the pressure-limiting device daily and shall report any pressure exceedances within 24 hours of detection to OCD's Environmental Bureau and Artesia District Office. The Permittee shall take all steps necessary to ensure that the injected waste fluids enter only the proposed injection interval and are not permitted to escape to other formations or onto the ground surface. The Permittee shall report to OCD's Environmental Bureau within 24 hours of discovery any indication that new fractures or existing fractures have been propagated, or that damage to the well, the injection zone, or formation has occurred.

OCD may authorize an increase in surface injection pressure if the Permittee performs a valid Step-Rate Test (SRT), which demonstrates that the proposed maximum surface injection pressure is less than the injection zone fracture pressure with an acceptable safety factor. If approvable, the Permittee must apply for a modification to this Discharge Permit pursuant to 20.6.2.3109 NMAC.

3.C. CONTINUOUS MONITORING DEVICES: The Permittee shall use continuous monitoring devices to provide a record of injection pressure, flow rate, flow volume, and pressure on the annulus between the tubing and the intermediate casing.

3.D. MECHANICAL INTEGRITY FOR CLASS I NON-HAZARDOUS WASTE INJECTION WELLS:

1. Pursuant to 20.6.2.5204 NMAC, the Permittee shall conduct a mechanical integrity test (MIT) for its Class I non-hazardous waste injection well (WDW-2) at least once every five years or more frequently as the OCD Director may require for good cause during the life of the well. The Permittee shall also demonstrate mechanical integrity for its Class I non-hazardous waste injection well (WDW-2) by running a MIT every time it performs a well workover, including when it pulls the tubing or reseats the packer. The Permittee shall request MIT approval using form C-103 (Sundry Notices and Reports on Wells) with copies sent to OCD's Environmental Bureau and Artesia District Office. The Permittee shall notify OCD's Environmental Bureau 5 days prior to conducting any MIT to allow OCD the opportunity to witness the MIT.

The Permittee shall conduct a casing-tubing annulus MIT from the surface to the approved injection depth to assess casing and tubing integrity. The MIT shall consist of a 30-minute test at a minimum pressure of 300 psig measured at the surface. The Permittee shall follow OCD's 2004 *New Mexico Oil Conservation Division Underground Injection Control Program Manual* guidance when conducting a MIT. The Permittee shall submit the results of its MIT to OCD's Environmental Bureau and Artesia District Office within 30 days of completion. If any remedial work or any other workover operations are necessary, the Permittee shall comply with Permit Condition 3.F.

2. A Class I non-hazardous waste injection well has mechanical integrity if there is no detectable leak in the intermediate casing, tubing and/or packer which OCD considers to be

significant at maximum operating temperature and pressure, and no detectable conduit for fluid movement out of the injection zone through the well bore, or vertical channels adjacent to the well bore which the OCD considers to be significant. The following criteria will determine if the Class I non-hazardous waste injection well (WDW-2) has passed the MIT:

- a. The MIT passes if there is zero bleed-off during the test;
- b. The MIT passes if there is a less than a $\pm 10\%$ change in the final test pressure compared to the starting pressure, if approved by OCD;
- c. The MIT fails if there is more than 10% reduction in the final test pressure compared to the starting pressure or that the pressure does not stabilize within 10% of the starting pressure before the end of the MIT. The Permittee shall shut-in the well and investigate for leaks in accordance with Permit Condition 3.F. The Permittee shall not resume injection operations until approved by OCD.
- d. When the MIT is not witnessed by OCD and fails, the Permittee shall shut-in the well and notify OCD within 24 hours of the failure of the MIT.

3. Pursuant to 20.6.2.5204C NMAC, the OCD Director may consider the use of equivalent alternative test methods to determine mechanical integrity. The Permittee shall submit information on the proposed test and all technical data supporting its use. The OCD Director may approve the Permittee's request if it will reliably demonstrate the mechanical integrity of the well for which its use is proposed.

4. Pursuant to 20.6.2.5204D NMAC, when conducting and evaluating the MIT(s), the Permittee shall apply methods and standards generally accepted in the oil and gas industry. When the Permittee reports the results of all MIT(s) to the OCD Director, it shall include a description of the test(s), the method(s) used, and the test results.

5. The Permittee shall conduct a Bradenhead test at least annually and each time that it conducts an MIT.

3.E. FALL-OFF TEST: The Permittee shall conduct a Fall-Off Test (FOT) to monitor the injection zone formation characteristics and pressure buildup over time in the injection zone at least every three years. The Permittee shall request FOT approval using form C-103 (Sundry Notices and Reports on Wells) sent to OCD's Environmental Bureau and Artesia District Office.

The Permittee shall follow OCD's 2007 *New Mexico Oil Conservation Division UIC Class I Well Fall-Off Test Guidance* "Test Plan" approved by the OCD when conducting a FOT and shall shut down the well for a time sufficient to conduct a valid observation of the pressure fall-off curve. The Permittee shall submit the results of its FOT to OCD's Environmental Bureau and Artesia District Office within 30 days of completion, including the original charts.

3.F. WELL WORKOVER OPERATIONS: Pursuant to 20.6.2.5205A(5) NMAC, the Permittee shall provide notice to and shall obtain approval from OCD's Environmental Bureau prior to commencement of any remedial work or any other workover operations to allow OCD the opportunity to witness the operation. The Permittee shall request approval using form C-103 (Sundry Notices and Reports on Wells) with copies sent to OCD's Environmental Bureau and Artesia District Office. After completing remedial work, pressure tests, or any other workover operations, the Permittee shall run a MIT in accordance with Permit Condition 3.D to verify that the remedial work has successfully repaired any problems.

3.G. EXTERNAL EXPANSION TANK: The Permittee shall equip its Class I non-hazardous waste injection well (WDW-2) with an external expansion tank system under constant 100 psig pressure connected to the tubing, packer and intermediate casing-annulus. The Permittee shall fill the external expansion tank half-full with an OCD-approved liquid to establish an equilibrium volume and liquid level. The Permittee shall monitor the liquid levels in the external expansion tank at least weekly and shall record all additions or removals of liquids into or out of the external expansion tank. The Permittee shall record any loss or gain of fluids in the external expansion tank, and shall verbally notify OCD's Environmental Bureau within 5 days of any loss or gain of fluid greater than 5 barrels per month and shall comply with Permit Condition 3.F.

The Permittee shall provide the weekly expansion tank volume fluid volumes readings and the fluid volume additions or removals from the expansion tank on a quarterly basis and in the annual report.

3.H. INJECTION RECORD VOLUMES AND PRESSURES: The Permittee shall submit quarterly reports of its injection operations and well workovers. The Permittee shall record the minimum, maximum, and average flow waste injection volumes (including total volumes) and annular pressures of the injected waste fluids on a monthly basis, and shall submit the data to OCD on a quarterly basis and in the annual report. The Permittee shall fill the casing-tubing annulus with an OCD-approved liquid and install a Murphy pressure switch or equivalent, as described in the Permittee's permit renewal application, in order to detect leakage in the casing, tubing, or packer.

3.I. AREA OF REVIEW (AOR): The Permittee shall orally report to OCD's Environmental Bureau within 72 hours of discovery of any new wells, conduits, or any other device that penetrates or may penetrate the injection zone within a 1-mile radius from its Class I non-hazardous waste injection well (WDW-2).

4. CLASS V WELLS: Pursuant to 20.6.2.5002B NMAC, leach fields and other waste fluids disposal systems that inject non-hazardous fluid into or above an underground source of drinking water are UIC Class V injection wells. This Discharge Permit does not authorize the use of a Class V injection well for the disposal of industrial waste. Pursuant to 20.6.2.5005 NMAC, the Permittee shall close any Class V industrial waste injection well that injects non-hazardous industrial wastes or a mixture of industrial wastes and domestic wastes (*e.g.*, septic systems, leach fields, dry wells, *etc.*) within 90 calendar days of the issuance of this Discharge Permit. The Permittee shall document the closure of any Class V wells used for the disposal of

non-hazardous industrial wastes or a mixture of industrial wastes and domestic wastes other than contaminated ground water in its Annual Report. Other Class V wells, including wells used only for the injection of domestic wastes, shall be permitted by the New Mexico Environment Department.

5. SCHEDULE OF COMPLIANCE:

5.A. QUARTERLY AND ANNUAL REPORTS: The Permittee shall submit its quarterly and annual reports to OCD as specified in Permit Condition 2.I.

5.B. BONDING OR FINANCIAL ASSURANCE: The Permittee shall submit an estimate of the minimum cost to properly close, plug and abandon its Class I non-hazardous waste injection well (WDW-2), conduct ground water restoration if applicable, and any post-operational monitoring as may be needed (see 20.6.2.5210B(17) NMAC) within 90 days of permit issuance (see 20.6.2.5210B(17) NMAC). The Permittee's cost estimate shall be based on third person estimates. After review, OCD will require the Permittee to submit a single well plugging bond based on the third person cost estimate.

DRAFT

State of New Mexico
Energy, Minerals and Natural Resources Department

Susana Martinez
Governor

David Martin
Cabinet Secretary Designate

Brett F. Woods, Ph.D.
Deputy Cabinet Secretary

Jami Bailey
Division Director
Oil Conservation Division



OCTOBER 2, 2013

Mr. Michael G. McKee
Vice President and Refinery Manager
Navajo Refining Company, L.L.C.
501 East Main
Artesia, New Mexico 88210

Re: Discharge Permit (UICI-008-2) Renewal Application for Class I non-hazardous waste injection well (Waste Disposal Well No. 2 (WDW-2) - API No. 30-015-20894) located 1980 FNL and 660 FWL, UL: E, Section 12, Township 18 South, Range 27 East, NMPM, Eddy County, New Mexico

Dear Mr. McKee:

The Oil Conservation Division (OCD) is in receipt of Navajo Refining Company, L.L.C.'s (NRC) discharge permit renewal application for its UIC Class I non-hazardous waste injection well. After review, OCD has determined that your application is "*administratively complete*" pursuant to New Mexico Water Quality Control Commission regulations (20.6.2.3108 NMAC).

NRC must now provide public notice and demonstrate that it has done so to OCD in a timely manner. OCD will also provide notice to various governmental groups. Depending upon the level of public interest, a hearing may be scheduled on this matter. Regardless, OCD will continue our review of the application and may request additional information.

If you have any questions, please do not hesitate to contact me by phone at (505) 476-3490, mail at the address below, or email at CarlJ.Chavez@state.nm.us. On behalf of the OCD, I wish to thank you and your staff for your cooperation during this discharge permit review process.

Sincerely,

A handwritten signature in blue ink that reads "Carl J. Chávez".

Carl J. Chávez
Environmental Engineer

CJC/cjc

cc: OCD Artesia Office

NOTICE OF PUBLICATION

STATE OF NEW MEXICO ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT OIL CONSERVATION DIVISION

Notice is hereby given that pursuant to Water Quality Control Commission Regulations (20.6.2.3106 NMAC) the following discharge permit application(s) has been submitted to the Director of the New Mexico Oil Conservation Division (OCD), 1220 S. Saint Francis Drive, Santa Fe, New Mexico 87505, and Telephone (505) 476-3440:

(UICI-008-2) Navajo Refining Company, L.L.C. Michael G. McKee, Vice President and Refinery Manager, 501 East Main Street, P.O. Box Drawer 159, Artesia New Mexico 88211-0159, has submitted a renewal application for operation of a previously approved Underground Injection Control (UIC) Class I (non-hazardous) Injection Well Discharge Permit (UICI-008-2) for the Waste Disposal Well #2- WDW-2 (API# 30-015-20894) located 1980 FNL and 660 FWL (SW/4, NW/4) in Section 12, Township 18 South, Range 27 East, NMPM, Eddy County, New Mexico. The injection well is located approximately 10.5 miles east-southeast of Artesia on Hwy-82 from Hwy-285 and about 3.3 miles south of Hilltop Road. Oil field exempt and non-exempt, non-hazardous industrial wastewater will be transported about 10.5 miles underground from the Navajo-Artesia Refinery located at 501 E. Main Street, Artesia, NM via a 6 inch dia. pipeline to WDW-2 for disposal into the Wolfcamp, Cisco, and Canyon Formations in the injection interval from 7,570 to 8399 feet (depth measured from KB at 3623 feet mean sea-level) at a daily rate not to exceed 500 gpm and at a maximum allowable surface injection pressure of 1510 psig. The injection fluid contains approximately 5500 ppm total dissolved solids (TDS). Ground water most likely to be affected by a spill, leak or accidental discharge is at a depth of about 100 feet below the ground surface with a TDS concentration range from 100 - 1535 ppm. The injection zone TDS concentration ranges from 13,000 to 119,909 ppm. The discharge permit addresses well construction, operation, monitoring of the well, associated surface facilities, and provides a contingency plan in the event of accidental spills, leaks, and other accidental discharges in order to protect fresh water.

Any interested person may obtain further information from the OCD and may submit written comments to the Division Director at the address given above. The application and draft permit may be viewed at the above address between 8:00 a.m. and 4:00 p.m., Monday through Friday, or may also be viewed at the OCD's web site <http://www.emnrd.state.nm.us/ocd/>. Persons interested in obtaining a copy of the application and draft permit may contact OCD at the address given above. Prior to ruling on any proposed discharge permit or major modification, the Director shall allow a period of at least thirty (30) days after the date of publication of this notice, during which interested persons may submit comments or request that OCD hold a public hearing. Requests for a public hearing shall set forth the reasons why a hearing should be held. A hearing will be held if the Director determines that there is significant public interest.

If no public hearing is held, the Director will approve or disapprove the proposed permit based on available information, including all comments received. If a public hearing is held, the director will approve or disapprove the proposed permit based on information in the application along with information submitted at the hearing.

Para obtener más información sobre esta solicitud en español, sirvase comunicarse por favor: New Mexico Energy, Minerals and Natural Resources Department (Depto. Del Energia, Minerals y Recursos Naturales de Nuevo México), Oil Conservation Division (Depto. Conservación Del Petróleo), 1220 South St. Francis Drive, Santa Fe, New México (Contacto: Laura Juarez, 575-748-1283 x 100).

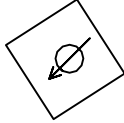
DONE at Santa Fe, New Mexico, on this 2nd day of October 2013.

STATE OF NEW MEXICO
OIL CONSERVATION DIVISION
Jami Bailey, Director

APPENDIX A

SURROUNDING LAND OWNERSHIP INFORMATION

Navajo
WDW-2



12

BLM
Property

Section 12, Township 18 South, Range 27 East

NOTE: The U.S. Department of the Interior, Bureau of Land Management owns all land in Section 12, Township 18 South, Range 27 East. Navajo WDW-2 Class I Non-Hazardous Waste Injection well is located on land owned by the BLM.

SUBSURFACE



Houston, TX
South Bend, IN
Baton Rouge, LA

APPENDIX A

NAVAJO REFINING COMPANY, L.L.C.
ARTESIA, NEW MEXICO

**SURROUNDING LAND OWNERSHIP
INFORMATION**

DATE: 06/25/13	CHECKED BY:	JOB NO: 60D6945
DRAWN BY: WDD	APPROVED BY:	DWG NO:

APPENDIX B

AREA OF REVIEW WELL FILES AND SCHEMATICS

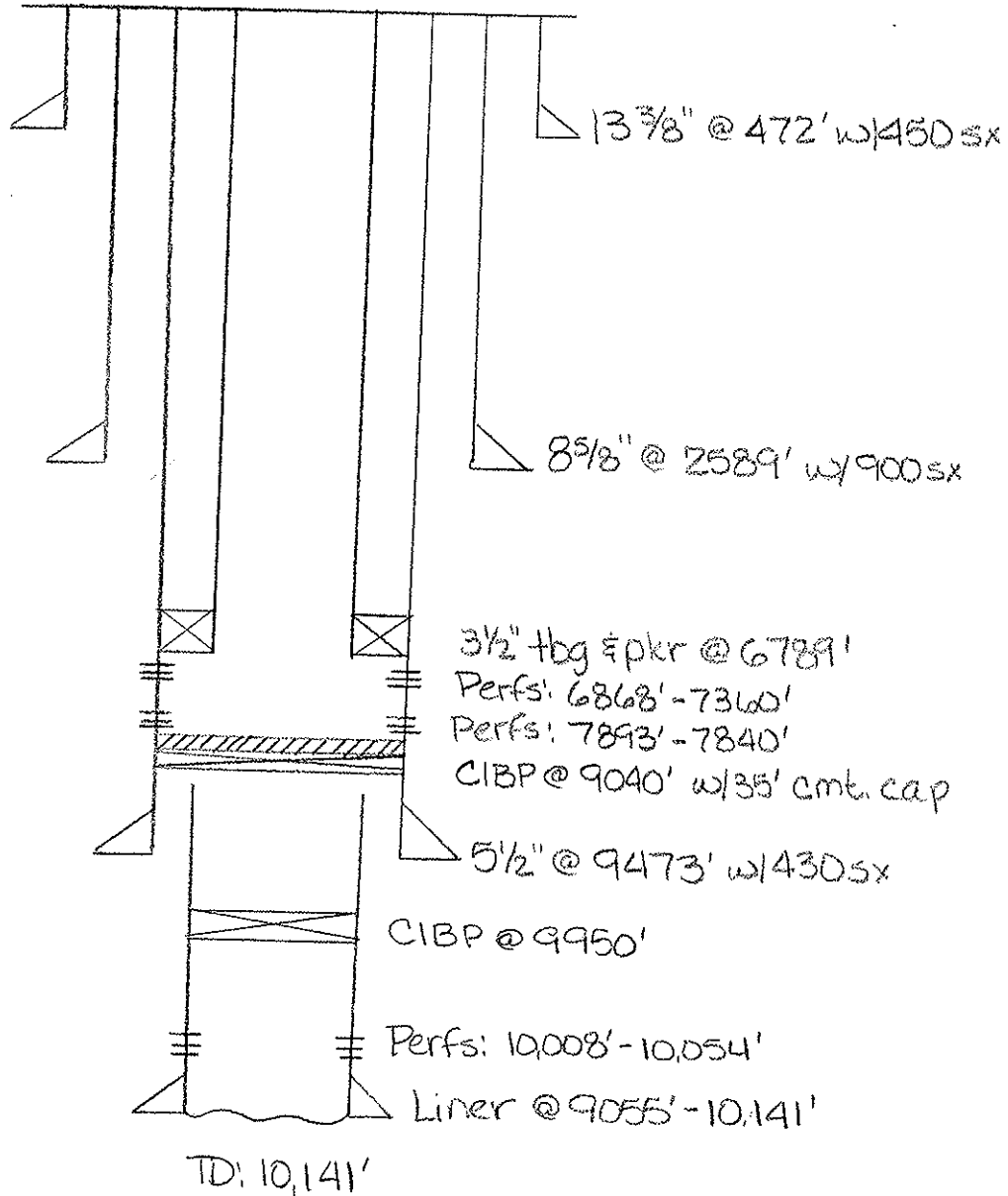
SUBSURFACE

NAVAJO REFINING COMPANY
Map ID No. 10
Artificial Penetration Review

OPERATOR Lime Rock Resources
LEASE Federal T SWD
WELL NUMBER 1
DRILLED 6-28-90
PLUGGED NA

STATUS Active SWD
LOCATION Sec. 12 -T18S-R27E
MUD FILLED BOREHOLE NA
TOP OF INJECTION ZONE 7449'
API NO. 30-015-26404

REMARKS: Cal. Top of Cement @ 6967'



MC 7. Dem alibi



Queen	1219
Grayburg	1712
San Andres	2063
Glorieta	3680
Abso	
Wolfcamp	
Penn	8160
Strawn	8880
Atoka	9520
Morrow	9765

30-015-26404

Opaid 14744

prop - 7875

pool - 78890 - N. Illinois Camp Marcus

1920410-0

1920430-6

1920450-w

initial

1991 14-91
2-14-91

Dual Anal.

2583-9170

Dual Lat

9480-10106

Dual Spaced Auction

2000-10135

Dual Spaced Auction

8800-10141

NSL-2785

5-3-90

Cem Bond Log
6000-8090

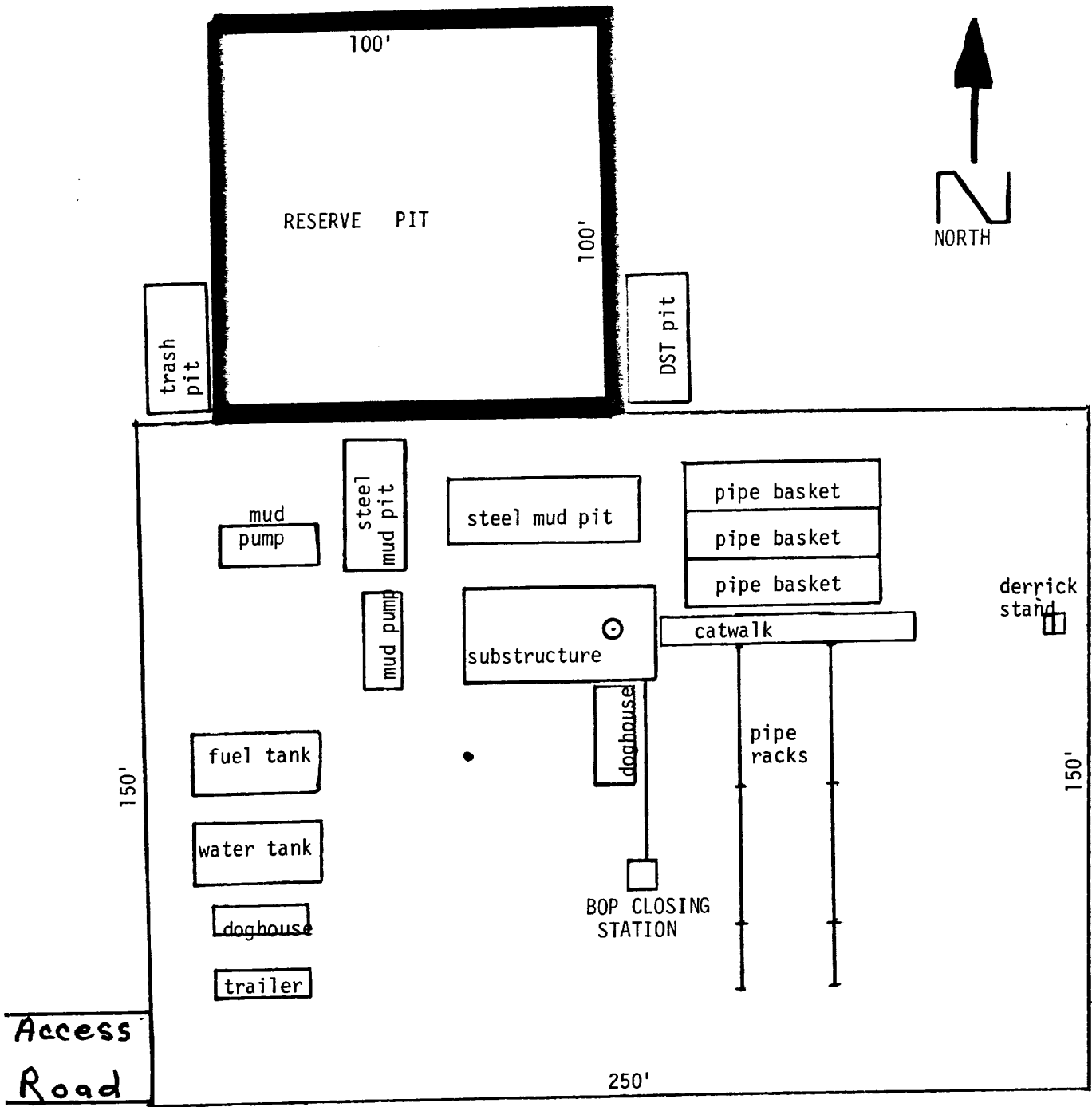
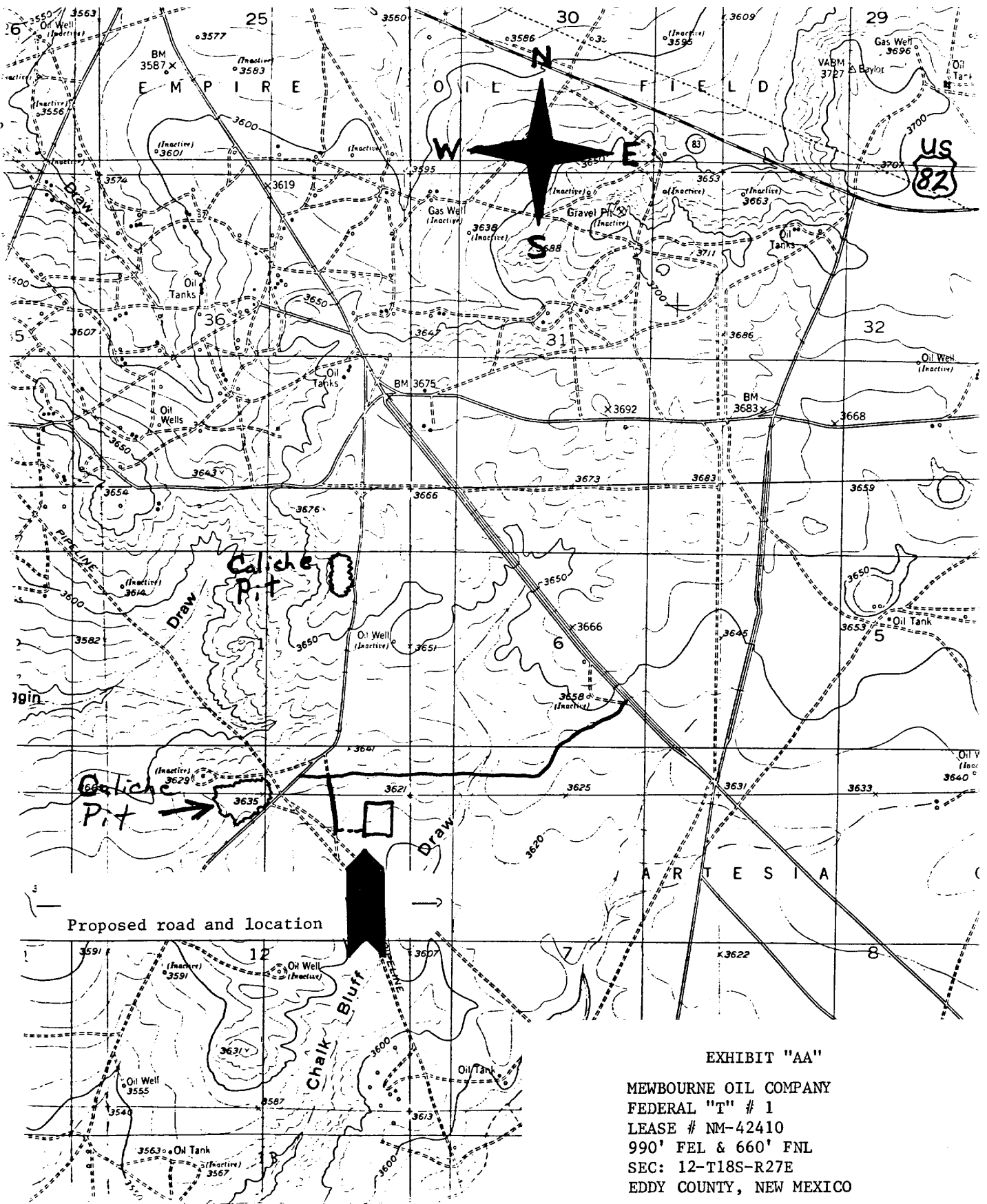


EXHIBIT "C"

MEWBOURNE OIL COMPANY
 FEDERAL "T" # 1
 LEASE # NM-42410
 990' FEL & 660' FNL
 SEC. 12-T18S-R27E
 EDDY COUNTY, NEW MEXICO



Proposed road and location

EXHIBIT "AA"

MEWBOURNE OIL COMPANY
 FEDERAL "T" # 1
 LEASE # NM-42410
 990' FEL & 660' FNL
 SEC: 12-T18S-R27E
 EDDY COUNTY, NEW MEXICO

Existing Roads

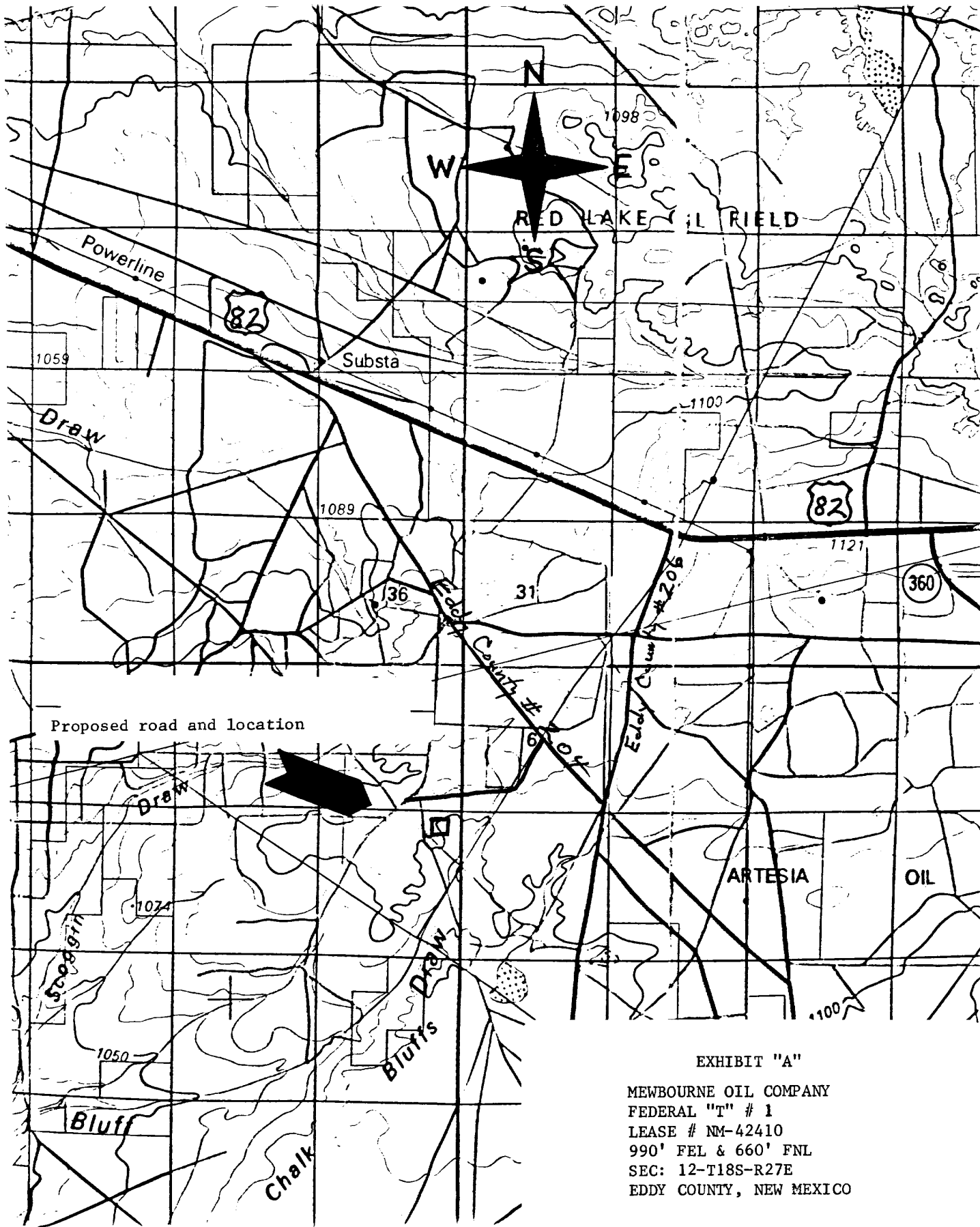


EXHIBIT "A"

MEWBOURNE OIL COMPANY
 FEDERAL "T" # 1
 LEASE # NM-42410
 990' FEL & 660' FNL
 SEC: 12-T18S-R27E
 EDDY COUNTY, NEW MEXICO



STATE OF NEW MEXICO
ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT
OIL CONSERVATION DIVISION

GARREY CARRUTHERS
GOVERNOR

POST OFFICE BOX 2088
STATE LAND OFFICE BUILDING
SANTA FE, NEW MEXICO 87504
(505) 827-5800

May 3, 1990

Mewbourne Oil Company
c/c Hinkle, Cox, Eaton, Coffield & Hensley
500 Marquette, NW
Suite 800
Albuquerque, NM 87102-2121

Attention: James Bruce

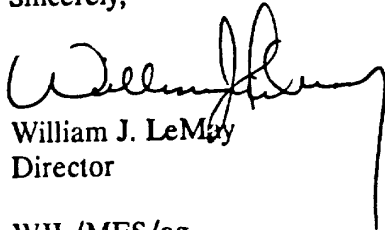
Administrative Order NSL-2785

Dear Mr. Bruce:

Reference is made to your application on behalf of Mewbourne Oil Company dated April 12, 1990 for a non-standard gas well location for your Federal "T" Well No. 1 to be located 660 feet from the North line and 990 feet from the East line (Unit A) of Section 12, Township 18 South, Range 27 East, NMPM, Undesignated North Illinois Camp Morrow Gas Pool, Eddy County, New Mexico. The N/2 of said Section 12 shall be dedicated to the well forming a standard 320-acre gas spacing and proration unit for said pool.

By the authority granted me under the provisions of General Rule 104 (II) the above-described unorthodox gas well location is hereby approved.

Sincerely,



William J. LeMay
Director

WJL/MES/ag

cc: Oil Conservation Division - Artesia
US Bureau of Land Management - Carlsbad

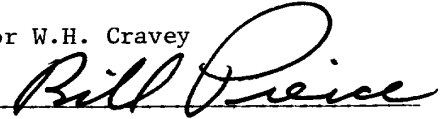
12. CERTIFICATION:

I hereby certify that I, or persons under my direct supervision, have inspected the proposed drillsite and access route; that I am familiar with the conditions which presently exist; that the statements made in this plan are, to the best of my knowledge, true and correct; and that the work associated with the operations proposed herein will be performed by Mewbourne Oil Company and its contractors and subcontractors in conformity with this plan and the terms and conditions under which it is approved.

May 18, 1990

Date

For W.H. Cravey

A handwritten signature in cursive script that reads "Bill Price". The signature is written in black ink and is positioned above a horizontal line.

W.H. Cravey
Production Superintendent
Mewbourne Oil Company

10. OTHER INFORMATION:

A. The geologic surface formation is hard clay interspersed with sand and chert outcroppings. Vegetative cover is generally sparse and consist mostly of greasewood and bear grass.

B. The estimated tops of geologic markers are as follows:

Queen	1260'	Cisco	7740'
San Anres	2100'	Canyon	8350'
Glorieta	3720'	Strawn	8900'
Tubb	4930'	Atoka	9500'
Abo	5900'	Morrow	9600'
Wolfcamp	6900'	Mississippian	10,100'

C. The estimated depths at which anticipated water, oil, or gas are expected to be encountered:

Water: Possible surface water between 100-300'.

Oil: Penrose @ 1520'.

Gas: Wolfcamp @ 6900'.

D. Proposed Casing Program: See Form 9-331C.

E. Pressure Control Equipment: See Form 9-331C and Exhibit "D".

F. Mud Program: See Form 9-331C.

G. Auxiliary Equipment: Mud-gas seperator and PVT aystem from 6,000' - T.D.

H. Testing and Coring Program: Possibility of 6 DST's in the following zones; Wolfcamp, Cisco, Canyon, Strawn, Atoka, and Morrow. No cores are planned at this time.

Logging: Gamma Ray - Spectral
Density - Dual Spaced Neutron Log; T.D. to surface.
Gamma Ray - Dual Latero Log
Microguard Log; T.D. to Intermediate casing.

I. No abnormal pressures or temperatures are anticipated. In the event abnormal pressures are encountered the proposed mud program will be modified to increase the weight.

J. Anticipated Starting Date: As soon as possible after BLM approval.

11. OPERATOR'S REPRESENTATIVE

The field representatives responsible for assuring compliance with the approved surface use and operations plan are as follows:

W.H. Cravey
Erick W. Nelson
Bill Pierce
701 South Cecil Street
Hobbs, New Mexico
Phone: (505) 393-5905

5. SOURCE OF CONSTRUCTION MATERIALS:

- A. Caliche for surfacing the road and location hopefully will come from the construction site. In the event that unsuitable material is encountered, caliche will be taken from a BLM pit located in the NE4/NW4 of section 12-T18S-R27E, which would be BLM pit # 18271203. This pit also extends into the SE4/SW4 of section 1-T18S-R27E which would be BLM pit # 18270114. An alternate pit which may be used in the event BLM pit # 18271203 contains unsuitable material would be a BLM pit located in the SW4/NE4 of section 1-T18S-R27E, which would be BLM pit # 18270107.

6. METHODS OF HANDLING WASTE DISPOSAL:

- A. Drill cuttings will be disposed of in the drilling pits.
- B. Drilling fluids will be allowed to evaporate in the drilling pits until pits are dry.
- C. Water produced during tests will be disposed of in the drilling pits. Oil produced during tests will be stored in test tanks until sold.
- D. Current laws and regulations pertaining to the disposal of human water will be complied with.
- E. All trash, junk and other waste material will be contained to prevent scattering and will be removed and deposited in an approved sanitary landfill.
- F. All trash and debris will be buried or removed from the wellsite within 30 days after finishing drilling and/or completion operations.

7. ANCILLIARY FACILITIES:

- A. None required.

8. WELLSITE LAYOUT:

- A. Exhibit "C" shows the relative location and dimensions of the well pad, mud pits, reserve pit, trash pit, and location of major rig components.
- B. The pad and pit area has been staked and flagged.

9. PLANS AND RESTORATION OF THE SURFACE:

- A. After completion of drilling and/or completion operations all equipment and other material not needed for operations will be removed. Pits will be filled and location cleaned of all trash and junk to leave the wellsite in an aesthetically pleasing condition as possible.

MULTI-POINT SURFACE USE AND OPERATING PLAN

MEWBOURNE OIL COMPANY

FEDERAL "T" WELL NO. 1

990' FEL & 660' FNL OF SEC. 12-T18S-R27E

EDDY COUNTY, NEW MEXICO

NEW MEXICO LEASE NO. NM-42410

This plan is submitted with the Application for Permit to Drill (APD) the above described well. The purpose of the plan is to describe the location of the proposed well, the proposed construction activities and operations plan and the magnitude of necessary surface disturbance involved, so that a complete appraisal can be made of the environmental effects associated with the operation. The surface to be disturbed is privately owned and a surface use agreement has been signed with the land owner.

1. EXISTING ROADS:

- A. Exhibit "A" is a portion of a BLM map, 30 x 60 minute quadrangle; Artesia, New Mexico, showing the location of the proposed well as staked. From the junction of U.S. 82 and U.S. 285 Highways in Artesia, proceed east on U.S. 82 for 12 miles. Turn right (south) on Eddy County Road #206 (Illinois Camp Road) and proceed south for 1 3/4 miles. Turn right (west) on Eddy County Road #204 and proceed west for 3/10 of a mile. Turn left (south) on an existing caliche lease road and follow southwest for 7/8 of a mile. Turn left (south) and proceed 1/4 mile, turn left (east) into location.
- B. Culverts: None required.
- C. Cuts and Fills: A three foot cut will be required for construction of the location.
- D. Turn-Outs: None required.
- E. Gates and Cattleguards: None required.

2. LOCATION OF EXISTING WELLS:

- A. Existing wells in a 1 mile radius are shown of Exhibit "B".

3. LOCATION OF PROPOSED FACILITIES:

- A. If the well is productive, all production facilities will be constructed on the existing pad and no additional surface disturbance will occur.

4. LOCATION AND TYPE OF WATER SUPPLY:

- A. Water will be purchased and trucked to the wellsite over the existing and proposed roads shown on Exhibits "A" and "AA".

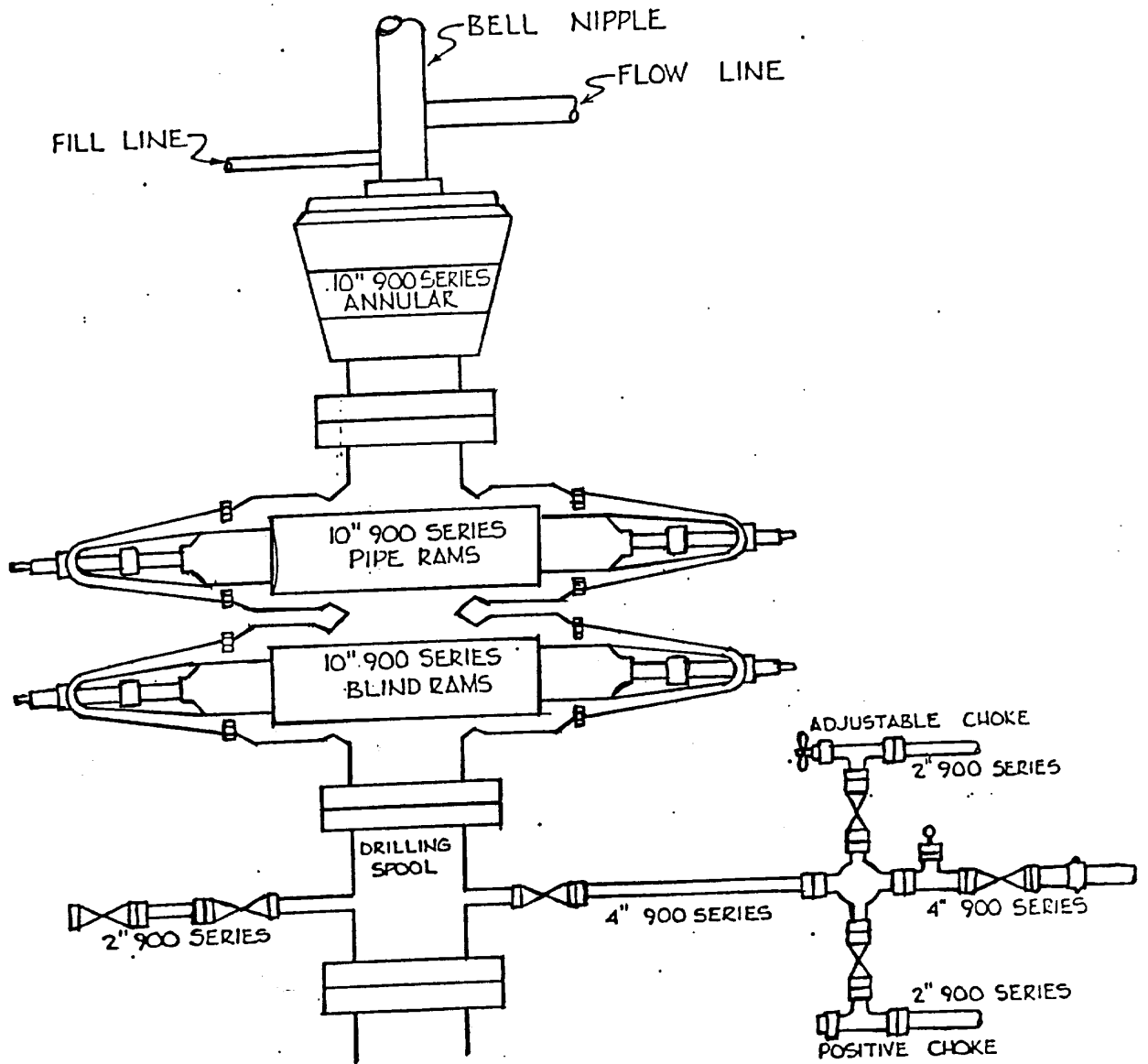


EXHIBIT "D"

MEWBOURNE OIL COMPANY
 FEDERAL "T" # 1
 LEASE # NM-42410
 990' FEL & 660' FNL
 SEC.12-T18S-R27E
 EDDY COUNTY, NEW MEXICO

Submit to Appropriate District Office
 State Lease - 4 copies
 Fee Lease - 3 copies

State of New Mexico
 Energy, Minerals and Natural Resources Department

Form C-102
 Revised 1-1-89

OIL CONSERVATION DIVISION
 P.O. Box 2088
 Santa Fe, New Mexico 87504-2088

RECEIVED

JUN 15 '90

O. C. D.
 ARTESIA, OFFICE

DISTRICT I
 P.O. Box 1980, Hobbs, NM 88240

DISTRICT II
 P.O. Drawer DD, Artesia, NM 88210

DISTRICT III
 1000 Rio Brazos Rd., Aztec, NM 87410

WELL LOCATION AND ACREAGE DEDICATION PLAT
 All Distances must be from the outer boundaries of the section

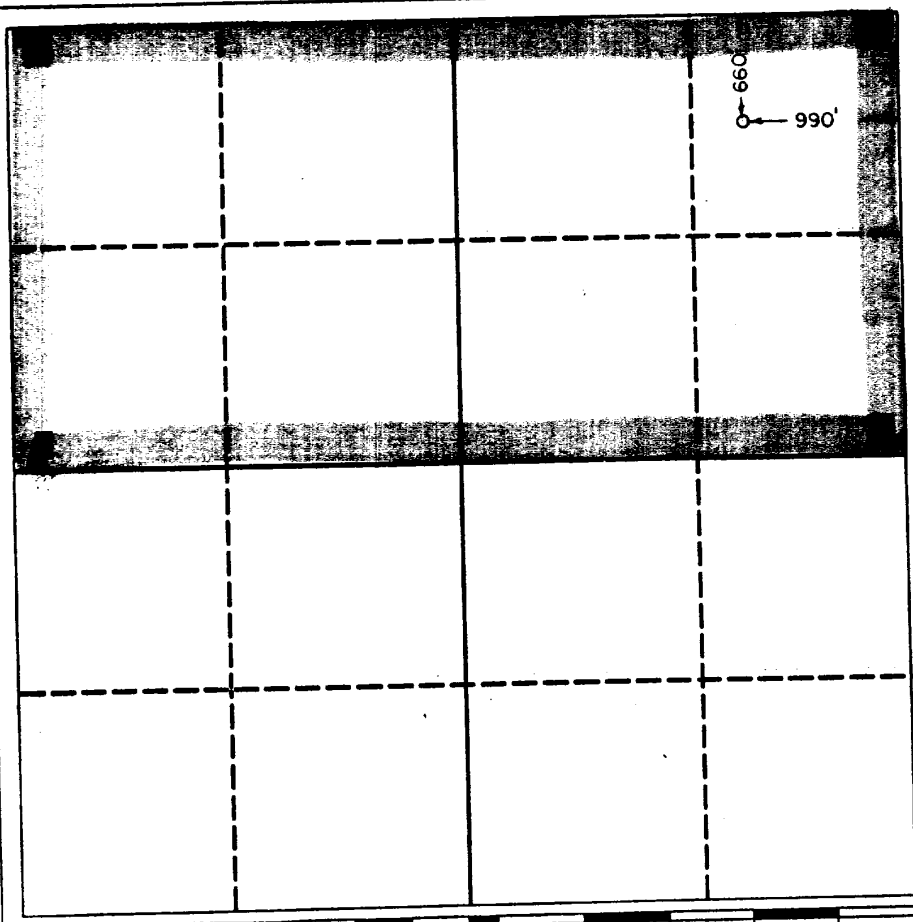
Operator MEWBOURNE OIL COMPANY		Lease FEDERAL "T"		Well No. 1
Unit Letter A	Section 12	Township 18 South	Range 27 East	County NMPM Eddy
Actual Footage Location of Well: 660 feet from the North line and 990 feet from the East line				
Ground level Elev. 3618.9	Producing Formation Morrow	Pool North Illinois Camp Morrow	Dedicated Acreage: 320 Acres	

- Outline the acreage dedicated to the subject well by colored pencil or hectare marks on the plat below.
- If more than one lease is dedicated to the well, outline each and identify the ownership thereof (both as to working interest and royalty).
- If more than one lease of different ownership is dedicated to the well, have the interest of all owners been consolidated by communitization, unitization, force-pooling, etc.?

Yes No If answer is "yes" type of consolidation _____

If answer is "no" list the owners and tract descriptions which have actually been consolidated. (Use reverse side of this form if necessary.)

No allowable will be assigned to the well until all interests have been consolidated (by communitization, unitization, force-pooling, or otherwise) or until a non-standard unit, eliminating such interest, has been approved by the Division.



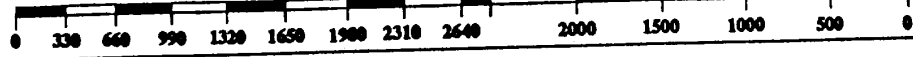
OPERATOR CERTIFICATION
 I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief.

Signature: *W.H. Cravey*
 Printed Name: **W.H. Cravey**
 Position: **District Supt.**
 Company: **Mewbourne Oil Company**
 Date: **April 12, 1990**

SURVEYOR CERTIFICATION
 I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my knowledge and belief.

Date Surveyed: **4/7/90**
 Signature & Seal of Professional Surveyor:

 Herschel H. Cravey
 License No. 3640
 Registered Land Surveyor



UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. TYPE OF WORK
 DRILL DEEPEN PLUG BACK

b. TYPE OF WELL
 OIL WELL GAS WELL OTHER SINGLE ZONE MULTIPLE ZONE

2. NAME OF OPERATOR
 MEWBOURNE OIL COMPANY

3. ADDRESS OF OPERATOR
 Box 5270; Hobbs, New Mexico 88241

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.)
 At surface 660' FNL & 990' FEL
 At proposed prod. zone SAME

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE*
 8 miles southeast of Artesia, New Mexico

15. DISTANCE FROM PROPOSED* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drig. unit line, if any) 660'

16. NO. OF ACRES IN LEASE 320

17. NO. OF ACRES ASSIGNED TO THIS WELL 320

18. DISTANCE FROM PROPOSED LOCATION* TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT.

19. PROPOSED DEPTH 10,300'

20. ROTARY OR CABLE TOOLS Rotary

21. ELEVATIONS (Show whether DF, RT, GR, etc.)
 3618.9' GR

22. APPROX. DATE WORK WILL START*
 Upon BLM approval

5. LEASE DESIGNATION AND SERIAL NO.
 NM 42410

6. IF INDIAN, ALLOTTED OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME
 FEDERAL "T"

9. WELL NO.
 1

10. FIELD AND POOL, OR WILDCAT
 North Illinois Camp Morrow

11. SEC., T., E., M., OR BLK. AND SURVEY OR AREA
 12-T18S-R27E

12. COUNTY OR PARISH 13. STATE
 EDDY N. MEX.

23. PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
17 1/2"	13 3/8"	61#	450' ±	450 sks. Class C - Circulated
11"	8 5/8"	24# & 32#	2600' ±	700 sks. Class C - Plug back into surf.
7 7/8"	5 1/2"	17# & 20#	10,300' ±	600 sks. Class H

Mud Program :
 0 - 450' Spud mud with fresh water gel and lime. LCM as needed.
 450' - 2600' Fresh water gel and lime. LCM as needed.
 2600' - 8500' Cut brine with lime for pH control. WT. 9.2 - 9.6ppg, WL - NG LCM as needed.
 8500' - 10,300' Cut brine with Drispac, salt gel, lime, soda ash, and starch; WT. 9.2 - 9.6 ppg. WL 10 cc's or less. Raise weight accordingly if abnormal pressures are encountered.

BOP PROGRAM:
 900 series BOP and Hydril on 13 3/8" surface casing and on 8 5/8" intermediate casing.

Gas is not dedicated.
 IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen or plug back, give data on present productive zone and proposed new productive zone. If proposal is to drill or deepen directionally, give pertinent data on subsurface locations and measured and true vertical depths. Give blowout preventer program, if any.

24. For W.H. Cravey
 SIGNED Bill Pierce TITLE District Superintendent DATE 5/18/90

(This space for Federal or State office use)

PERMIT NO. _____ APPROVAL DATE _____

APPROVED BY _____ TITLE _____ DATE 6-13-90

APPROVAL SUBJECT TO
 GENERAL REQUIREMENTS AND SPECIAL STIPULATIONS
 ATTACHED
 7526-2785 Appr. 5-3-90
 *See Instructions On Reverse Side

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

RECEIVED
 JUN 15 '90
 C.C.D.
 ARTESIA, OFFICE

RECEIVED
 JUN 18 9 55 AM '90
 Post ID-1
 6-12-90
 New Loc + API

INSTRUCTIONS

GENERAL: This form is designed for submitting proposals to perform certain well operations, as indicated, on all types of lands and leases for appropriate action by either a Federal or a State agency, or both, pursuant to applicable Federal and/or State laws and regulations. Any necessary special instructions concerning the use of this form and the number of copies to be submitted, particularly with regard to local, area, or regional procedures and practices, either are shown below or will be issued by, or may be obtained from, the local Federal and/or State office.

ITEM 1: If the proposal is to re-drill to the same reservoir at a different subsurface location or to a new reservoir, use this form with appropriate notations. Consult applicable State or Federal regulations concerning subsequent work proposals or reports on the well.

ITEM 4: If there are no applicable State requirements, locations on Federal or Indian land should be described in accordance with Federal requirements. Consult local State or Federal office for specific instructions.

ITEM 14: Needed only when location of well cannot readily be found by road from the land or lease description. A plat, or plats, separate or on this reverse side, showing the roads to, and the surveyed location of, the well, and any other required information, should be furnished when required by Federal or State agency offices.

ITEMS 15 AND 18: If well is to be, or has been directionally drilled, give distances for subsurface location of hole in any present or objective production zone.

ITEM 22: Consult applicable Federal or State regulations, or appropriate officials, concerning approval of the proposal before operations are started.

NOTICE

The Privacy Act of 1974 and the regulation in 43 CFR 2.48(d) provide that you be furnished the following information in connection with information required by this application.

AUTHORITY: 30 U.S.C. 181 et seq., 25 U.S.C. 396; 43 CFR Part 3160.

PRINCIPAL PURPOSE: The information is to be used to process and evaluate your application for permit to drill, deepen, or plug back an oil or gas well.

ROUTINE USES: (1) The analysis of the applicant's proposal to discover and extract the Federal or Indian resources encountered. (2) The review of procedures and equipment and the projected impact on the land involved. (3) The evaluation of the effects of proposed operation on surface and subsurface water and other environmental impacts. (4)(5) Information from the record and/or the record will be transferred to appropriate Federal, State, local or foreign agencies, when relevant to civil, criminal or regulatory investigations or prosecutions, as well as routine regulatory responsibility.

EFFECT OF NOT PROVIDING INFORMATION: Filing of this application and disclosure of the information is mandatory only if the lessee elects to initiate drilling operations on an oil and gas lease.

The Paperwork Reduction Act of 1980 (44 U.S.C. 3501 et seq) requires us to inform you that:

This information is being collected to allow evaluation of the technical, safety, and environmental factors involved with drilling for oil and/or gas on Federal and Indian oil and gas leases.

This information will be used to analyze and approve applications.

Response to this request is mandatory only if the lessee elects to initiate drilling operations on an oil and gas lease.

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

SUBMIT IN TRIPlicate
(Other instructions apply
verse blank)

Form approved. *CSF*
Budget Bureau No. 1004-013
Expires August 31, 1985

5. LEASE DESIGNATION AND SERIAL NO.

NM-42410

IF INDIAN, ALLOTTEE OR TRIBE NAME

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir.
Use "APPLICATION FOR PERMIT" for such proposals.)

OIL WELL GAS WELL OTHER

2. NAME OF OPERATOR

Mewbourne Oil Company

3. ADDRESS OF OPERATOR

P. O. Box 7698, Tyler, Texas 75711

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements. See also space 17 below.)
At surface

660' FNL & 990' FEL

14. PERMIT NO.

API #30-015-26404

15. ELEVATIONS (Show whether DF, RT, GK, etc.)

3618.9' GR

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME

FEDERAL "T"

9. WELL NO.

1

10. FIELD AND POOL, OR WILDCAT

North Illinois Camp Morrow

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA

12-18S-27E

12. COUNTY OR PARISH

Eddy

13. STATE

N.M.

16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:

TEST WATER SHUT-OFF

FRACTURE TREAT

SHOOT OR ACIDIZE

REPAIR WELL

(Other)

PULL OR ALTER CASING

MULTIPLE COMPLETE

ABANDON*

CHANGE PLANS

SUBSEQUENT REPORT OF:

WATER SHUT-OFF

FRACTURE TREATMENT

SHOOTING OR ACIDIZING

(Other)

REPAIRING WELL

ALTERING CASING

ABANDONMENT*

(NOTE: Report results of multiple completion on Well Completion or Recombination Report and Log form.)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)

6/29/90 - Spud at 12:15 PM 6/28/90.

Ran 15 joints 13-3/8" 68# New LT&C Casing set at 472' cemented with 100 sxs of Class "C" Thixad containing 3% CaCl₂ + 1/2#/sxs Celloseal + 5#/Sx Gilsonite followed by 200 sxs of Class "C" containing 6% gel + 1/2# Celloseal + 5#/sx. Gilsonite + 3% CaCl₂ followed by 150 sxs of Class "C" Neet + 3% CaCl₂. Plug down at 6:12 AM 6/29/90. Circulated 50 sxs of cement. Insert float in collar of first joint did not hole. Left casing SI with 300#.

7/05/90 - Ran 58 jts 8-5/8" J-55 32# 8rd ST&C New LS set at 2589' cemented with 650 sxs Class "C" cement + 6.00% gel + 5# Gilsonite + 0.5# Cello-seal + 3% CaCl₂ followed by 250 sxs Class "C" + 2% CaCl₂. Plug down to 2543' with 1300# at 6:20 PM 7/04/90 with full returns. Float held OK. Circulated 50 sxs.

ACCEPTED FOR RECORD

Ab

JUL 16 1990

18. I hereby certify that the foregoing is true and correct

SIGNED

(This space for Federal or State office use)

APPROVED BY

CONDITIONS OF APPROVAL, IF ANY:

TITLE

DATE

CARLSBAD, NEW MEXICO

Engr. Oprns. Secretary

7/05/90

*See Instructions on Reverse Side

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

SUBMIT IN TRIPLICATE*
(Other instructions on re-
verse side)

Form approved,
Budget Bureau No. 1004-0720
Expires August 31, 1985

95F

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different depth.
Use "APPLICATION FOR PERMIT--" for such proposals.)

RECEIVED

1. OIL WELL <input type="checkbox"/> GAS WELL <input checked="" type="checkbox"/> OTHER		7. UNIT AGREEMENT NAME	
2. NAME OF OPERATOR Mewbourne Oil Company		8. FARM OR LEASE NAME FEDERAL "T"	
3. ADDRESS OF OPERATOR P. O. Box 7698, Tyler, Texas 75711		9. WELL NO. 1	
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.) At surface 660' FNL & 990' FEL		10. FIELD AND POOL, OR WILDCAT N. Illinois Camp Morrow	
14. PERMIT NO. API #30-015-26404		15. ELEVATIONS (Show whether DF, RT, GR, etc.) 3618.9' FR	
		12. COUNTY OR PARISH Eddy	
		13. STATE N.M.	

Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:		SUBSEQUENT REPORT OF:	
TEST WATER SHUT-OFF	PULL OR ALTER CASING	WATER SHUT-OFF	REPAIRING WELL
FRACTURE TREAT	MULTIPLE COMPLETE	FRACTURE TREATMENT	ALTERING CASING
SHOOT OR ACIDIZE	ABANDON*	SHOOTING OR ACIDIZING	ABANDONMENT*
REPAIR WELL	CHANGE PLANS	(Other)	
(Other)		(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)	

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

8/12/90 - Ran 5-1/2" casing as follows: 237 jts N-80, 17#, LT&C Used Casing set at 9473', cemented with 430 sxs Class "H" + .7 CF-14 + 5# salt + 1/4# Celloseal. Overdisplaced 1 bbl without bumping plug. No back flow or vacuum.

8/27/90 - Ran 4" liner set at 10,140' with top of liner at 9055'. Pumped 500 gallons Sure Bone, followed by 5 bbl fresh water. Spaced and cemented with 80 sacks Class "H" with 1% CF-14. Liner wiper plug down at 11:30 AM.

RECEIVED
SEP 10 10 31 AM '90

RECORDED

SEP 11 1990

18. I hereby certify that the foregoing is true and correct

SIGNED [Signature] TITLE Engr. Oprns. Secretary DATE 9/06/90

(This space for Federal or State office use)

APPROVED BY _____ TITLE _____ DATE _____

CONDITIONS OF APPROVAL, IF ANY: _____

*See Instructions on Reverse Side

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within the jurisdiction of such department or agency.

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

SUBMIT IN TRIPLICATE
(Other instructions on reverse side)

Form approved.
Budget Bureau No. 1004-0135
Expires August 31, 1985

5. LEASE DESIGNATION AND SERIAL NO.
NM-42410

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir.
Use "APPLICATION FOR PERMIT—" for such proposals.)

OCT 9 10 41 AM '90
RECEIVED
CARL AREA HEADQUARTERS

OCT 17 '90

C. D. AREA OFFICE

1. OIL WELL <input type="checkbox"/> GAS WELL <input checked="" type="checkbox"/> OTHER		UNIT AGREEMENT NAME	
2. NAME OF OPERATOR Mewbourne Oil Company		FARM OR LEASE NAME FEDERAL "T"	
3. ADDRESS OF OPERATOR P. O. Box 7698, Tyler, Texas 75711		9. WELL NO. 1	
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements. See also space 17 below.) At surface 660' FNL & 990' FEL		10. FIELD AND POOL, OR WILDCAT N. Illinois Camp Morrow	
14. PERMIT NO. API #30-015-26404		11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA 12-18S-27E	
15. ELEVATIONS (Show whether DF, RT, GN, etc.) 3618.9' GR		12. COUNTY OR PARISH Eddy	
		13. STATE N.M.	

Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:		SUBSEQUENT REPORT OF:	
TEST WATER SHUT-OFF <input type="checkbox"/>	PULL OR ALTER CASING <input type="checkbox"/>	WATER SHUT-OFF <input type="checkbox"/>	REPAIRING WELL <input type="checkbox"/>
FRACTURE TREAT <input type="checkbox"/>	MULTIPLE COMPLETE <input type="checkbox"/>	FRACTURE TREATMENT <input checked="" type="checkbox"/>	ALTERING CASING <input type="checkbox"/>
SHOOT OR ACIDIZE <input type="checkbox"/>	ABANDON* <input type="checkbox"/>	SHOOTING OR ACIDIZING <input checked="" type="checkbox"/>	ABANDONMENT* <input type="checkbox"/>
REPAIR WELL <input type="checkbox"/>	CHANGE PLANS <input type="checkbox"/>	(Other) <input type="checkbox"/>	

(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

- 9/14/90 - Perforated Morrow 10,008-014', 12 holes; 10,038-054', 36 holes. Total 48 holes 24'.
- 9/15/90 - Halliburton broke down perfs with 2000 gals 7½% Morflo B.C. acid containing 1000 SCF/Bbl N₂ carrying 96 ball sealers and flushed with 23 bbls 2% KCL water containing 1000 SCF/Bbl N₂. Pressured casing to 1000#. Had good ball action. ISDP 5050#. In 5 mins., 4580#, In 10 mins, 4300#, In 15 mins, 4130#. Max 6000#. Max Rate 3.7 BPM. Avg 5850#. Avg Rate 3.4 BPM. 71 Bbls load to recover.
- 9/26/90 - Halliburton frac'd Morrow perfs with 8900 gals gelled 2% KCL water + 87 tons of CO₂ carrying 11,500# 20/40 Interprop. Pressured annulus to 2000#. ISDP 5340#. In 5 mins 5080#, in 10 mins 4950#, in 15 mins 4850#. Avg 9500#. Avg rate 6 BPM. Max 9800#. Max rate 6.7 BPM. 211 bbls load to recover.

Adm

18. I hereby certify that the foregoing is true and correct

SIGNED: *Dwight Thompson* TITLE Engr. Oprns. Secretary DATE 10/02/90

(This space for Federal or State office use)

APPROVED BY _____ TITLE _____ DATE _____

CONDITIONS OF APPROVAL, IF ANY:

*See Instructions on Reverse Side



DRILLING CO., INC. - OIL WELL DRILLING CONTRACTORS

KEN REYNOLDS—PRESIDENT
ARNIE NEWKIRK—VICE-PRESIDENT

P. O. Box 1498 ROSWELL, NEW MEXICO 88202-1498
505/623-5070 ROSWELL, NM
505/746-2719 ARTESIA, NM

RECEIVED

JAN 31 1991

August 29, 1990

O. C. D.
ARTESIA OFFICE

Mewbourne Oil Co., Inc.
P.O. Box 5270
Hobbs, NM 88241

Ref: Federal "T" #1

Gentlement:

The following is a Deviation Survey on the above referenced well
located in Eddy County, New Mexico.

Table with 3 columns of measurements: Depth (feet) and Angle (degrees). Includes values like 472' - 1/4°, 4062' - 1/2°, 6841' - 3 1/4°, etc.

Sincerely,
Arnold Newkirk
Arnold Newkirk
Vice-President

STATE OF NEW MEXICO)
COUNTY OF CHAVES)

The foregoing was acknowledged before me on this 29th day
of August 1990 by Arnold Newkirk.

My Commission Expires:

10-07-1992

Notary Public signature and title

SHIPPED AUG 31 1990

CONFIDENTIAL
 UNITED STATES DEPARTMENT OF THE INTERIOR
 BUREAU OF LAND MANAGEMENT

Form approved.
 Budget Bureau No. 1004-0137
 Expires August 31, 1985

REPRODUCE THIS IN DUPLICATE*
 (See other instructions on reverse side)

WELL COMPLETION OR RECOMPLETION REPORT AND LOG *

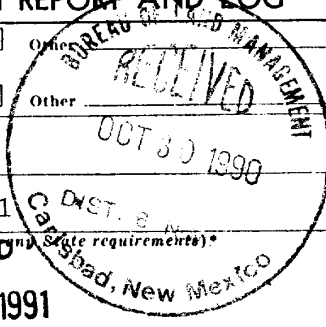
1. TYPE OF WELL: OIL WELL GAS WELL DRY Other _____

2. TYPE OF COMPLETION: NEW WELL WORK OVER DEEP-EN PLUG BACK DIFF. RESVR. Other _____

2. NAME OF OPERATOR
 Mewbourne Oil Company ✓

3. ADDRESS OF OPERATOR
 P. O. Box 7698, Tyler, Texas 75711

4. LOCATION OF WELL (Report location clearly and in accordance with State requirements)*
 At surface 660' FNL & 990' FEL
 At top prod. interval reported below
 At total depth Same



15. DATE SPUDDED 6/28/90 16. DATE T.D. REACHED 8/25/90 17. DATE COMPL. (Ready to prod.) 9/13/90 18. ELEVATIONS (DF, RKB, RT, GR, ETC.)* KB 3634', DF 3632', GL 3618'

19. ELEV. CASINGHEAD 3618'

20. TOTAL DEPTH, MD & TVD 10,141' 21. PLUG BACK T.D., MD & TVD 10,100'

22. IF MULTIPLE COMPL. HOW MANY* _____ 23. INTERVALS DRILLED BY _____ ROTARY TOOLS X CABLE TOOLS _____

24. PRODUCING INTERVAL(S), OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD)*
 10,008-054' Morrow

25. WAS DIRECTIONAL SURVEY MADE Yes

26. TYPE ELECTRIC AND OTHER LOGS RUN DLL-MGRD, SDL-DSN

27. WAS WELL COBED No

28. CASING RECORD (Report all strings set in well)

CASING SIZE	WEIGHT, LB./FT.	DEPTH SET (MD)	HOLE SIZE	CEMENTING RECORD	AMOUNT PULLED
13-3/8"	68#	472'	17-1/2"	450 sacks - Circ	None
8-5/8"	32#	2589'	12-1/4"	900 sacks - Circ	None
5-1/2"	17#	9473'	7-7/8"	430 sacks - Circ	None

29. LINER RECORD

SIZE	TOP (MD)	BOTTOM (MD)	SACKS CEMENT*	SCREEN (MD)
4"	9055'	10,141'	80	

30. TUBING RECORD

SIZE	DEPTH SET (MD)	PACKER SET (MD)
2-3/8"	9842'	8888'

31. PERFORATION RECORD (Interval, size and number)

10,008-014', 12 holes) 24'
 10,038-054', 36 holes)

32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.

DEPTH INTERVAL (MD)	AMOUNT AND KIND OF MATERIAL USED
10,008-054'	2000 gals 7 1/2% acid. Frac'd w/ 8900 gals 2% KCL wtr + 87 tons CO ₂ + 11,500# 20/40 Interprop.

33.* PRODUCTION

DATE FIRST PRODUCTION 9/15/90 PRODUCTION METHOD (Flowing, gas lift, pumping—size and type of pump) Flowing WELL STATUS (Producing or shut-in) Shut-in WOPL

DATE OF TEST	HOURS TESTED	CHOKE SIZE	PROD'N. FOR TEST PERIOD	OIL—BBL.	GAS—MCF.	WATER—BBL.	GAS-OIL RATIO
10/03/90	24 hrs.	34/64"	→	1 BC	923	2	923:1

FLOW. TUBING PRESS.	CASING PRESSURE	CALCULATED 24-HOUR RATE	OIL—BBL.	GAS—MCF.	WATER—BBL.	OIL GRAVITY-API (CORR.)
160#	0#	→	1 BC	923	2	58.0°

34. DISPOSITION OF GAS (Sold, used for fuel, vented, etc.) Vented TEST WITNESSED BY Eric Nelson

35. LIST OF ATTACHMENTS
 Logs

36. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records

SIGNED Raymond Thompson TITLE Engr. Oprns. Secretary DATE 10/25/90

*(See instructions and Spaces for Additional Data on Reverse Side)

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

5. LEASE DESIGNATION AND SERIAL NO.
 NM-42410

6. IF INDIAN, ALLOTTEE OR TRIBE NAME _____

7. UNIT AGREEMENT NAME _____

8. FARM OR LEASE NAME
 FEDERAL "T"

9. WELL NO.
 1

10. FIELD AND POOL, OR WILDCAT
 North Illinois Camp Morrow

11. SEC. T., R., M., OR BLOCK AND SURVEY OR AREA
 12-18S-27E

12. COUNTY OR PARISH
 Eddy

13. STATE
 N.M.

37. SUMMARY OF POROUS ZONES: (Show all important zones of porosity and contents thereof; cored intervals; and all drill-stem, tests, including depth interval tested, cushion used, time tool open, flowing and shut-in pressures, and recoveries):

FORMATION	TOP	BOTTOM	DESCRIPTION, CONTENTS, ETC.
Penrose	1522'	1556'	Sandstone
Atoka	9566'	9575'	Sandstone
Middle Morrow	9902'	9928'	Sandstone
Lower Morrow	10008'	10054'	Sandstone
DST.#1 Drinkard	5749'	5850'	No cushion. Tool open 30 mins. IFP 88-45#, ISIP 296#. 62 mins. FFP 88-50#. FSIP 430#. 120 mins. Recovered 30' drilling fluid.
DST #2 Abo	6475'	6499'	No cushion. Tool open 30 mins. IFP 72-37#. ISIP 1953#. 60 mins. FFP 59-59# 60 mins. FSIP 1894#. 120 mins. Recovered 2' free oil, 122' drilling fluid.

38. GEOLOGIC MARKERS

NAME	TOP	
	MEAS. DEPTH	TRUE VERT. DEPTH
Yates	476'	
Queen	1218'	
Grayburg	1572'	
San Andres	2072'	
Tubb	4824'	
Abo	6016'	
Wolfcamp	6716'	
Cisco	7682'	
Strawn	8912'	
Atoka	9513'	
Morrow	9628'	
Morrow Clastics	9828'	
Lower Morrow	9965'	
Barnett	10104'	

Submit 5 Copies
Appropriate District Office
DISTRICT I
P.O. Box 1980, Hobbs, NM 88240

State of New Mexico
Energy, Minerals and Natural Resources Department

Form C-104
Revised 1-1-89
See Instructions
at Bottom of Page

DISTRICT II
P.O. Drawer DD, Artesia, NM 88210

OIL CONSERVATION DIVISION

P.O. Box 2088
Santa Fe, New Mexico 87504-2088

RECEIVED

JAN 31 1991

DISTRICT III
1000 Rio Brazos Rd., Aztec, NM 87410

REQUEST FOR ALLOWABLE AND AUTHORIZATION
TO TRANSPORT OIL AND NATURAL GAS

O. C. D.
ARTESIA OFFICE

Operator Mewbourne Oil Company ✓	Well No. 30-015-26404
Address P. O. Box 7698, Tyler, Texas 75711	
Reason(s) for Filing (Check proper box) <input type="checkbox"/> Other (Please explain)	
New Well <input checked="" type="checkbox"/>	Change in Transporter of:
Recompletion <input type="checkbox"/>	Oil <input type="checkbox"/> Dry Gas <input type="checkbox"/>
Change in Operator <input type="checkbox"/>	Casinghead Gas <input type="checkbox"/> Condensate <input type="checkbox"/>
If change of operator give name and address of previous operator _____	

II. DESCRIPTION OF WELL AND LEASE

Lease Name FEDERAL "T"	Well No. 1	Pool Name, Including Formation North Illinois Camp Morrow	Kind of Lease <input checked="" type="checkbox"/> Federal or <input checked="" type="checkbox"/> State	Lease No. NM-42410
Location Unit Letter <u>A</u> : <u>660</u> Feet From The <u>North</u> Line and <u>990</u> Feet From The <u>East</u> Line Section <u>12</u> Township <u>18S</u> Range <u>27E</u> , <u>NMPM</u> , <u>Eddy</u> County				

III. DESIGNATION OF TRANSPORTER OF OIL AND NATURAL GAS

Name of Authorized Transporter of Oil Amoco Pipeline Inter-corporate Trucking <input type="checkbox"/> or Condensate <input checked="" type="checkbox"/>	Address (Give address to which approved copy of this form is to be sent) Oil Tender Dept. Box 702068, Tulsa, OK 74170-2068
Name of Authorized Transporter of Casinghead Gas Transwestern Pipeline Company <input type="checkbox"/> or Dry Gas <input checked="" type="checkbox"/>	Address (Give address to which approved copy of this form is to be sent) P. O. Box 1188, Houston, Texas 77251-1188
If well produces oil or liquids, give location of tanks.	Unit | Sec. | Twp. | Rge. | Is gas actually connected? | When? A | 12 | 18S | 27E | No | February, 1991

If this production is commingled with that from any other lease or pool, give commingling order number: No

IV. COMPLETION DATA

Designate Type of Completion - (X)	Oil Well	Gas Well	New Well	Workover	Deepen	Plug Back	Same Res'v	Diff Res'v
		X	X					
Date Spudded 6/28/90	Date Compl. Ready to Prod. 9/13/90	Total Depth 10,141'		P.B.T.D. 10,100'				
Elevations (DF, RKB, RT, GR, etc.) DF 3632', GL 3618'	Name of Producing Formation Morrow	Top Oil/Gas Pay 10,008'		Tubing Depth 9,842'				
Perforations 10,008-054'						Depth Casing Shoe ---		

HOLE SIZE	CASING & TUBING SIZE	DEPTH SET	SACKS CEMENT
17-1/2"	13-3/8"	472'	450
12-1/4"	8-5/8"	2589'	900
7-7/8"	5-1/2"	9473'	430
5-1/2"	4" Liner	10140'	80

V. TEST DATA AND REQUEST FOR ALLOWABLE

OIL WELL (Test must be after recovery of total volume of load oil and must be equal to or exceed top allowable for this depth or be for full 24 hours.)

Date First New Oil Run To Tank	Date of Test	Producing Method (Flow, pump, gas lift, etc.) Post ID-2	
Length of Test	Tubing Pressure	Casing Pressure	Choke Size 3-15-96 comp & BK
Actual Prod. During Test	Oil - Bbls.	Water - Bbls.	Gas- MCF

GAS WELL

Actual Prod. Test - MCF/D 923	Length of Test 24 hours	Bbls. Condensate/MMCF 1	Gravity of Condensate 58°
Testing Method (pilot, back pr.) Back Pressure	Tubing Pressure (Shut-in) 2300#	Casing Pressure (Shut-in) ---	Choke Size 34/64"

VI. OPERATOR CERTIFICATE OF COMPLIANCE

I hereby certify that the rules and regulations of the Oil Conservation Division have been complied with and that the information given above is true and complete to the best of my knowledge and belief.

Gaylon Thompson
Signature
Gaylon Thompson, Engr. Oprns. Sec.
Printed Name

OIL CONSERVATION DIVISION

Date Approved MAR 12 1991
By *Mark Walker*
District II

1/28/91

(903) 561-2900

Date

Telephone No.

Title SUPERVISOR, DISTRICT II

INSTRUCTIONS: This form is to be filed in compliance with Rule 1104

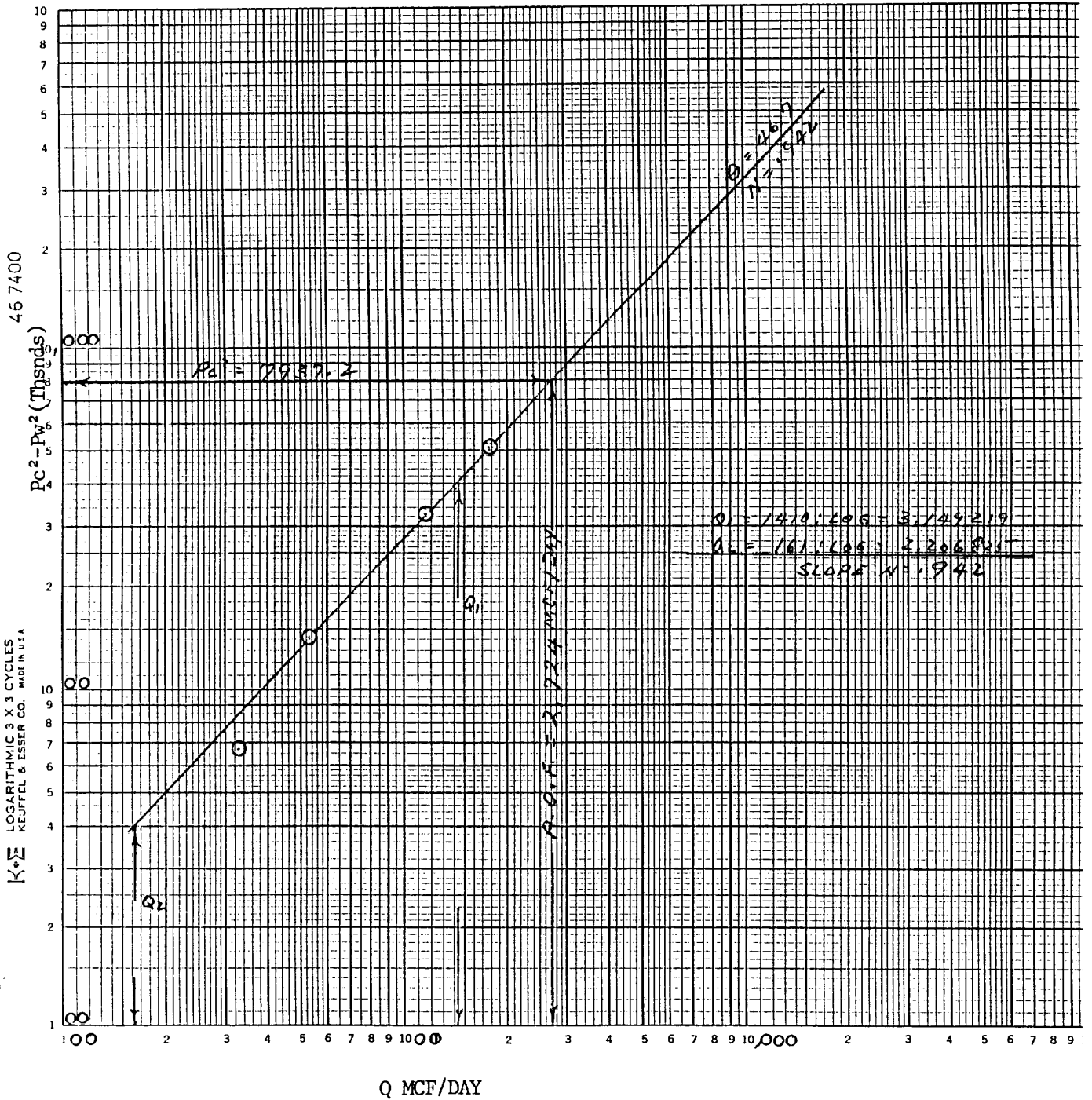
- 1) Request for allowable for newly drilled or deepened well must be accompanied by tabulation of deviation tests taken in accordance with Rule 111.
- 2) All sections of this form must be filled out for allowable on new and recompleted wells.
- 3) Fill out only Sections I, II, III, and VI for changes of operator, well name or number, transporter, or other such changes.
- 4) Separate Form C-104 must be filed for each pool in multiply completed wells.

cls' File

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Type Test <input checked="" type="checkbox"/> Initial <input type="checkbox"/> Annual <input type="checkbox"/> Special					Test Date 10-11-90		C. O.				
Company Mewbourne Oil Company				Connection Vented				OFFICE			
Pool North Illinois Comp Morrow				Formation Morrow				Unit A			
Completion Date 09-13-90		Total Depth 10141		Plug Back TD 10100		Elevation 3634 KB		Farm or Lease Name Federal T			
Case Size 4"	Wt. 10.46	d	Set At 10141	Perforations From 10008 To 10054		Well No. 1					
Thq. Size 2 3/8	Wt. 4.7	d	Set At 9842	Perforations From OPEN To END		Unit A		Sec. 12	Twp. 18S	Rge. 27E	
Type Well - Single - Bronzhead - G.C. or G.O. Multiple Single					Packer Set At 8888		County Eddy				
Producing Thru TBG		Reservoir Temp. °F 174 @ 10031		Mean Annual Temp. °F 60		Baro. Press. - P _a 13.2		State New Mexico			
L 10031	H 10031	C _g .656	% CO ₂ 2.293	% N ₂ .39	% H ₂ S ---	Prover	Meter Run 2.067	Taps Flg.			
FLOW DATA					TUBING DATA			CASING DATA		Duration of Flow	
NO.	Prover Line Size	X	Orifice Size	Press. p.s.i.g.	Diff. In. H ₂ O	Temp. °F	Press. p.s.i.g.	Temp. °F	Press. p.s.i.g.		Temp. °F
51							2745		PKR		72 hrs
1.	2	X	1.250	67	12.96	56	2590		PKR		1 hr.
2.	2	X	1.250	167	14.44	50	2470		PKR		1 hr.
3.	2	X	1.250	179	65.61	47	2110		PKR		1 hr.
4.	2	X	1.250	299	94.09	54	1630		PKR		1 hr.
5.											
RATE OF FLOW CALCULATIONS											
NO.	Coefficient (24 Hour)	$\sqrt{V \cdot P_a}$	Pressure P _a	Flow Temp. Factor Ft.	Gravity Factor Fg	Super Compress. Factor, F _{sp}	Rate of Flow O. Mcd				
1	8.120	32.24	80.2	1.004	1.235	1.010	328				
2.	8.120	51.01	180.2	1.010	1.235	1.020	527				
3.	8.120	112.30	192.2	1.013	1.235	1.021	1165				
4.	8.120	171.39	312.2	1.006	1.235	1.036	1791				
5.											
NO.	P ₁	Temp. °R	T ₁	Z	Gas Liquid Hydrocarbon Ratio 61.2 Mcf/bbl.						
1.	.12	516	1.38	.981	A.P.I. Gravity of Liquid Hydrocarbons 58.0 @ 60° Deg.						
2.	.26	510	1.37	.962	Specific Gravity Separator Gas .656 X X X X X X X X						
3.	.28	507	1.36	.959	Specific Gravity Flowing Fluid X X X X X						
4.	.46	514	1.38	.932	Critical Pressure *678 P.S.I.A. P.S.I.A.						
5.					Critical Temperature *372 R R						
P _c 2817.3		P _c ² 7937.2									
NO.	P ₁ ²	P _w	P _w ²	P _c ² - P _w ²	(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.561$ (2) $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 1.521$						
1		2696.2	7269.5	667.7	AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 2.724$						
2		2555.8	6532.1	1405.1							
3		2173.1	4722.4	3214.8							
4		1689.2	2853.4	5083.8							
5											
Absolute Open Flow 2,724 Mcfd @ 15.025					Angle of Slope @ 46.7		Slope, n .942				
Remarks: *=corrected to 2.293% CO ₂ & .39% N ₂ Well made 2.6 BBLs 58.0 API CONDENSATE during test & .5 BBL H ₂ O											
Approved By Division			Conducted By:			Calculated By:			Checked By:		

Mewbourne Oil Company
 Federal T, Well #1
 Eddy County, New Mexico
 12 - 18S - 27E
 10-11-90



Submit 5 Copies
 Appropriate District Office
 DISTRICT I
 P.O. Box 1980, Hobbs, NM 88240

State of New Mexico
 Energy, Minerals and Natural Resources Department

Form C-104
 Revised 1-1-89
 See Instructions
 at Bottom of Page

OIL CONSERVATION DIVISION

DISTRICT II
 P.O. Drawer DD, Artesia, NM 88210

P.O. Box 2088
 Santa Fe, New Mexico 87504-2088

DISTRICT III
 1000 Rio Brazos Rd., Aztec, NM 87410

**REQUEST FOR ALLOWABLE AND AUTHORIZATION
 TO TRANSPORT OIL AND NATURAL GAS**

*C/S
 2/1
 8/1
 8/0*

I.

Operator Mewbourne Oil Company	Well API No. 30-015-26404
Address P.O. Box 5270 Hobbs, New Mexico	
Reason(s) for Filing (Check proper box) <input type="checkbox"/> Other (Please explain)	
New Well <input checked="" type="checkbox"/>	Change in Transporter of:
Recompletion <input type="checkbox"/>	Oil <input type="checkbox"/> Dry Gas <input type="checkbox"/>
Change in Operator <input type="checkbox"/>	Casinghead Gas <input type="checkbox"/> Condensate <input type="checkbox"/>

If change of operator give name and address of previous operator _____

II. DESCRIPTION OF WELL AND LEASE

Lease Name Federal "T"	Well No. 1	Pool Name, including Formation North Illinois Camp Morrow	Kind of Lease State , Federal Oil	Lease No. NM-42410
Location Unit Letter <u>A</u> : <u>660</u> Feet From The <u>North</u> Line and <u>990</u> Feet From The <u>East</u> Line Section <u>12</u> Township <u>18S</u> Range <u>27E</u> , NMPM, <u>Eddy</u> County				

III. DESIGNATION OF TRANSPORTER OF OIL AND NATURAL GAS

Name of Authorized Transporter of Oil <input type="checkbox"/> or Condensate <input checked="" type="checkbox"/> Amoco Pipeline Inter-corporate Trucking	Address (Give address to which approved copy of this form is to be sent) Oil Tender Dept. Box 702068 Tulsa, Ok 74170-2068	
Name of Authorized Transporter of Casinghead Gas <input type="checkbox"/> or Dry Gas <input checked="" type="checkbox"/> Transwestern Pipeline Company	Address (Give address to which approved copy of this form is to be sent) P.O. Box 1188 Houston, Texas 77251-1188	
If well produces oil or liquids, give location of tanks.	Unit | Sec. | Twp. | Rge. <u>A</u> | <u>12</u> | <u>18S</u> | <u>27E</u>	Is gas actually connected? | When? <u>Yes</u> | <u>02/07/91</u>

If this production is commingled with that from any other lease or pool, give commingling order number: No

IV. COMPLETION DATA

Designate Type of Completion - (X)	Oil Well	Gas Well	New Well	Workover	Deepen	Plug Back	Same Res'v	Diff Res'v
Date Spudded	Date Compl. Ready to Prod.		Total Depth			P.B.T.D.		
Elevations (DF, RKB, RT, GR, etc.)	Name of Producing Formation		Top Oil/Gas Pay			Tubing Depth		
Perforations						Depth Casing Shoe		
TUBING, CASING AND CEMENTING RECORD								
HOLE SIZE	CASING & TUBING SIZE		DEPTH SET			SACKS CEMENT		

V. TEST DATA AND REQUEST FOR ALLOWABLE

OIL WELL (Test must be after recovery of total volume of load oil and must be equal to or exceed top allowable for this depth or be for full 24 hours.)

Date First New Oil Run To Tank	Date of Test	Producing Method (Flow, pump, gas lift, etc.)	
Length of Test	Tubing Pressure	Casing Pressure	Choke Size
Actual Prod. During Test	Oil - Bbls.	Water - Bbls.	Gas- MCF

GAS WELL

Actual Prod. Test - MCF/D	Length of Test	Bbls. Condensate/MMCF	Gravity of Condensate
Testing Method (pilot, back pr.)	Tubing Pressure (Shut-in)	Casing Pressure (Shut-in)	Choke Size

VI. OPERATOR CERTIFICATE OF COMPLIANCE

I hereby certify that the rules and regulations of the Oil Conservation Division have been complied with and that the information given above is true and complete to the best of my knowledge and belief.

W.H. Crawey
 Signature _____ District Supt.
 Printed Name W.H. Crawey Title _____

OIL CONSERVATION DIVISION

Date Approved MAR 12 1991

By ORIGINAL SIGNED BY
MIKE WILLIAMS
 Title SUPERVISOR DISTRICT IV

PRINTED NAME

Date

02/18/91

(505) 393-5905

Telephone No.

Title

OPERATOR, DISTRICT

INSTRUCTIONS: This form is to be filed in compliance with Rule 1104

- 1) Request for allowable for newly drilled or deepened well must be accompanied by tabulation of deviation tests taken in accordance with Rule 111.
- 2) All sections of this form must be filled out for allowable on new and recompleted wells.
- 3) Fill out only Sections I, II, III, and VI for changes of operator, well name or number, transporter, or other such changes.
- 4) Separate Form C-104 must be filed for each pool in multiply completed wells.



STATE OF NEW MEXICO

ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT

OIL CONSERVATION DIVISION
ARTESIA DISTRICT OFFICE

P.O. DRAWER 00
ARTESIA, NEW MEXICO 88211
(505) 748-1283

BRUCE KING
GOVERNOR

Date: August 9, 1991

Mewbourne Oil Co.
P.O. Box 5270
Hobbs, N.M. 88241

Re: Wells placed in pool

Gentlemen:

As the result of Division Order R-9545 the following described well (s) ~~has~~ have) been placed in the pool ~~to~~ shown below. This change in nomenclature has been made in our files. Please change your records to reflect the proper pool name. All subsequent reports must show this nomenclature until further notice.

North Illinois Camp- Morrow Gas Pool-78890
Federal T #1 A-12-18-27
Chalk Bluff Fed. Com. #1 N-1-18-27

Transporters are advised, by copy of this letter, to change their records to reflect the pool name as established by this order, effective July 1, 1991.

Sincerely,

Darrell Moore

Darrell Moore
District Geologist

cc: Each Transporter Amoco Pipeline, Transwestern
Santa Fe
Mae
Well File ✓
Joe Chism
BLM

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM APPROVED
LBM Bureau No. 1004-0107
Expires: March 31, 1993

458

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or to deepen or reentry to a different reservoir.
Use "APPLICATION FOR PERMIT—" for such proposals

SUBMIT IN TRIPLICATE

RECEIVED

AUG - 2 1993

1. Type of Well
 Oil Well Gas Well Other

2. Name of Operator
Mewbourne Oil Company

3. Address and Telephone No.
P.O. Box 5270 Hobbs, New Mexico 88241 (505) 393-5905

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)
660' FNL & 990' FEL
Sec. 12-T18S-R27E

5. Lease Designation and Serial No.

NM-42410

6. If Indian, Allottee or Tribe Name

7. If Unit or CA, Agreement Designation

8. Well Name and No.

Federal "T" No. 1

9. API Well No.

10. Field and Pool, or Exploratory Area

Canyon

11. County or Parish, State

Eddy Co., N.M.

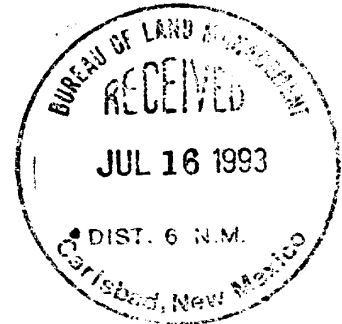
12. CHECK APPROPRIATE BOX(S) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION
<input checked="" type="checkbox"/> Notice of Intent	<input type="checkbox"/> Abandonment
<input type="checkbox"/> Subsequent Report	<input type="checkbox"/> Recompletion
<input type="checkbox"/> Final Abandonment Notice	<input checked="" type="checkbox"/> Plugging Back
	<input type="checkbox"/> Casing Repair
	<input type="checkbox"/> Altering Casing
	<input type="checkbox"/> Other
	<input type="checkbox"/> Change of Plans
	<input type="checkbox"/> New Construction
	<input type="checkbox"/> Non-Routine Fracturing
	<input type="checkbox"/> Water Shut-Off
	<input type="checkbox"/> Conversion to Injection
	<input type="checkbox"/> Dispose Water

(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

13. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

1. Plug back existing perforations (10,008'-10,054') with a CIBP @ 9950' and 9040'. Cap both plugs with 50' cement.
2. Perforate the Cisco formation @ 7700'-8050'.
3. Stimulate if necessary.



Procedure per conversation with Adam S. on June 23, 1993.

14. I hereby certify that the foregoing is true and correct

Signed

David R. Glass

Title District Supt.

Date July 14, 1993

(This space for Federal or State office use)

Approved by **(ORIG. SGD.) DAVID R. GLASS**
Conditions of approval, if any:

Title Petroleum Engineer

Date JUL 15 1993

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

*See instruction on Reverse Side

RECEIVED

UNITED STATES DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT
NEW MEXICO CONS. COMMISSION
Orlasia, NM 88210
Drawer DD

FORM APPROVED
Budget Bureau No. 1004-0135
Expires: March 31, 1993

15F

SEP 10 11 56 AM '93
CAN
ARE

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or to deepen or reentry to a different reservoir.
Use "APPLICATION FOR PERMIT—" for such proposals

SUBMIT IN TRIPLICATE

RECEIVED

OCT - 6 1993

1. Type of Well <input type="checkbox"/> Oil Well <input checked="" type="checkbox"/> Gas Well <input type="checkbox"/> Other	5. Lease Designation and Serial No. NM-42410
2. Name of Operator Mewbourne Oil Company	6. If Indian, Allottee or Tribe Name
3. Address and Telephone No. P.O. Box 5270 Hobbs, New Mexico 88241	7. If Unit or CA, Agreement Designation
4. Location of Well (Footage, Sec., T., R., M., or Survey Description) 660' FNL & 990' FEL Sec. 12-T18S-R27E	8. Well Name and No. Federal "T" #1
	9. API Well No. 30-015-26404
	10. Field and Pool, or Exploratory Area North Illinois Camp Morrow
	11. County or Parish, State Eddy Co. New Mexico

12. CHECK APPROPRIATE BOX(S) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION
<input type="checkbox"/> Notice of Intent	<input type="checkbox"/> Abandonment
<input checked="" type="checkbox"/> Subsequent Report	<input checked="" type="checkbox"/> Recompletion
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Plugging Back
	<input type="checkbox"/> Casing Repair
	<input type="checkbox"/> Altering Casing
	<input type="checkbox"/> Other _____
	<input type="checkbox"/> Change of Plans
	<input type="checkbox"/> New Construction
	<input type="checkbox"/> Non-Routine Fracturing
	<input type="checkbox"/> Water Shut-Off
	<input type="checkbox"/> Conversion to Injection
	<input type="checkbox"/> Dispose Water

(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

13. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

* Verbal from Adam Salameh

- 08/14/93 Well pumping 1442 BW. 0 BO, 0 MCF from attempted completion in Cisco formation. MIRU well service rig.
- 08/15/93 Set CIBP @ 7595' over Cisco Perfs (7685'-7695'). Dump 4 sx. cmt. on plug. Perf. Wolfcamp formation (7330'-7360') (44 H)
- 08/16/93 Swabbed well down w/no entry.
- 08/17/93 Acidized Wolfcamp formation w/3000 gal 15% FE acid. Swabbed water w/no show of oil or gas.
- 08/18/93 Set CIBP @ 7300' over Wolfcamp formation (7330'-7360'). Dump 4 sx. cmt. on plug. Perf'd Wolfcamp formation (7092'-7146') (62H). Swabbed well down. No entry.
- 08/19/93 Acidized Wolfcamp formation (7092'-7146') w/3000 gal. 15% FE acid.
- 08/20/93 Swabbed well w/no show of oil or gas.
- 08/21/93 Set CIBP @ 7078' over Perfs (7092'-7146'). Perf'd Wolfcamp (6868'-7038') (80H)
- 08/22/93 Acidized Wolfcamp formation (6868'-7038') w/3000 gal. 15% FE acid.
- 08/24/93 Swabbing water w/trace of oil.
- 08/26/93 Acid frac'd Wolfcamp (6868'-7038') w/3000 gal. 20% FE acid & 15,000 gal. gel water. See attached page.

14. I hereby certify that the foregoing is true and correct

Signed [Signature] Title Production Engineer Date 09/08/93

(This space for Federal or State office use)

Approved by _____ Title _____
Conditions of approval, if any: _____

ACCEPTED FOR RECORD
Date
[Signature]
OCT - 4 1993
CARLSBAD, NEW MEXICO

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

*See Instruction on Reverse Side

08/27/93 RIH w/pump & started pumping well.
08/28/93 0 B0 276 BW 8 MCF
09/03/93 5 B0 30 BW 5 MCF
09/05/93 2 B0 25 BW 4 MCF

2154

Form 3160-2
(June 1990)

RECEIVED

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM APPROVED
Budget Bureau No. 1004-0135
Expires: March 31, 1993

AUG 24 11 03 AM '93

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or to deepen or reentry to a different reservoir.
Use "APPLICATION FOR PERMIT—" for such proposals

5. Lease Designation and Serial No.
NM-42410

6. If Indian, Allottee or Tribe Name

7. If Unit or CA, Agreement Designation

8. Well Name and No.
Federal "T" #1

9. API Well No.
30-015-26404

10. Field and Pool, or Exploratory Area
North Illinois Camp

11. County or Parish, State
Morrow
Eddy Co. N.M.

SUBMIT IN TRIPLICATE

RECEIVED
SEP - 8 1993

1. Type of Well
 Oil Well Gas Well Other

2. Name of Operator
Newbourne Oil Company

3. Address and Telephone No.
P.O. Box 5270 Hobbs, New Mexico 88241 (505) 393-5905

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)
660' FNL & 990' FEL Sec. 12-T18S-R27E

12. CHECK APPROPRIATE BOX(S) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION
<input type="checkbox"/> Notice of Intent	<input type="checkbox"/> Abandonment
<input checked="" type="checkbox"/> Subsequent Report	<input type="checkbox"/> Recompletion
<input type="checkbox"/> Final Abandonment Notice	<input checked="" type="checkbox"/> Plugging Back
	<input type="checkbox"/> Casing Repair
	<input type="checkbox"/> Altering Casing
	<input type="checkbox"/> Other
	<input type="checkbox"/> Change of Plans
	<input type="checkbox"/> New Construction
	<input type="checkbox"/> Non-Routine Fracturing
	<input type="checkbox"/> Water Shut-Off
	<input type="checkbox"/> Conversion to Injection
	<input type="checkbox"/> Dispose Water

(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

13. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

Verball from Adam - BLM.

07/19/93 Set 4" CIBP @ 9950' over Morrow Perfs. (10,008'-10,054') Dump 2 sx. cmt.

07/21/93 Set 5-1/2" CIBP @ 9040' @ top of liner. Dumped 4 sx. cmt.

07/22/92 Perf. Cisco Formation (8034'-8042' w/2 SPF & 8055'-8060' w/2SPF. Swabbed tested all water.

07/24/93 Set cmt. retainer @ 8000'. Pumped 100 sx. cmt. into perfs. (8034'-8060')

07/25/93 Perf. Cisco Formation 7832'-7840' w/2 SPF. Swab tested all water.

07/27/93 Set cmt. retainer @ 7820'. Pumped 100 sx. cmt. into perfs. (7832'-7840')

07/28/93 Perf. Cisco Formation 7790'-7798' w/2 SPF. Swab tested all water.

07/29/93 Set cmt. retainer @ 7780'. Pumped 100 sx. cmt. into perfs. (7790'-7798')

07/30/93 Perf. Cisco Formation 7760'-7768' w/2 SPF. Swab tested all water.

07/31/93 Set cmt. retainer @ 7745'. Pumped 100 sx. cmt. into perfs. (7760'-7768')

08/01/93 Perf. Cisco Formation 7685'-7695' w/4 SPF. Swab tested water w/show of gas.

08/03/93 Acidized Cisco Formation (7685'-7695') w/3000 gal 15% FE acid.

08/04/93 RIH w/tbg. pump to 5033' & started pumping well.

08/05/93 1100 BWP No oil.

08/06/93 1200 BWP No oil.

14. I hereby certify that the foregoing is true and correct
Signed [Signature] Title Engineer Date August 20, 1993

(This space for Federal or State office use)

Approved by _____ Title _____ Date _____
Conditions of approval, if any:

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

*See Instruction on Reverse Side

Submit 5 Copies
Appropriate District Office
DISTRICT I
P.O. Box 1980, Hobbs, NM 88240

DISTRICT II
P.O. Drawer DD, Artesia, NM 88210

DISTRICT III
1000 Rio Brazos Rd., Aztec, NM 87410

State of New Mexico
Energy, Minerals and Natural Resources Department

OIL CONSERVATION DIVISION
P.O. Box 2088
Santa Fe, New Mexico 87504-2088

Form C-104
Revised 1-1-89
See Instructions
at Bottom of Page

RECEIVED

OCT - 4 1993

REQUEST FOR ALLOWABLE AND AUTHORIZATION
TO TRANSPORT OIL AND NATURAL GAS

O. C. D.

Operator MEWBOURNE OIL COMPANY		Well API No. 30-015-26404
Address P.O. BOX 5270, HOBBS, NM 88241		
Reason(s) for Filing (Check proper box) <input type="checkbox"/> Other (Please explain)		
New Well <input type="checkbox"/>	Change in Transporter of:	
Recompletion <input type="checkbox"/>	Oil <input type="checkbox"/>	Dry Gas <input type="checkbox"/>
Change in Operator <input type="checkbox"/>	Casinghead Gas <input checked="" type="checkbox"/>	Condensate <input type="checkbox"/>
If change of operator give name and address of previous operator _____		

II. DESCRIPTION OF WELL AND LEASE

Lease Name FEDERAL "T"	Well No. 1	Pool Name, including Formation NORTH ILLINOIS CAMP, WOLF CAMP	Kind of Lease State, Federal or Fee	Lease No. NM-42410
Location Unit Letter <u>A</u> : 660' Feet From The <u>FNL</u> Line and 990' Feet From The <u>FEL</u> Line Section <u>12</u> Township <u>18S</u> Range <u>27E</u> , NMPM, <u>EDDY</u> County				

III. DESIGNATION OF TRANSPORTER OF OIL AND NATURAL GAS

Name of Authorized Transporter of Oil <input checked="" type="checkbox"/> or Condensate <input type="checkbox"/>	Address (Give address to which approved copy of this form is to be sent)			
<u>AMO</u>				
Name of Authorized Transporter of Casinghead Gas <input checked="" type="checkbox"/> or Dry Gas <input type="checkbox"/>	Address (Give address to which approved copy of this form is to be sent)			
<u>GPM GAS CORPORATION</u>	<u>BARTLESVILLE, OKLAHOMA 74004</u>			
If well produces oil or liquids, give location of tanks.	Unit	Sec.	Twp.	Rge.
		<u>12</u>	<u>18S</u>	<u>27E</u>
Is gas actually connected?	When ?			
<u>YES</u>	<u>8-1-93</u>			

If this production is commingled with that from any other lease or pool, give commingling order number: _____

IV. COMPLETION DATA

Designate Type of Completion - (X)	Oil Well	Gas Well	New Well	Workover	Deepen	Plug Back	Same Res'v	Diff Res'v
Date Spudded	Date Compl. Ready to Prod.		Total Depth			P.B.T.D.		
Elevations (DF, RKB, RT, GR, etc.)	Name of Producing Formation		Top Oil/Gas Pay			Tubing Depth		
Perforations						Depth Casing Shoe		
TUBING, CASING AND CEMENTING RECORD								
HOLE SIZE	CASING & TUBING SIZE		DEPTH SET			SACKS CEMENT		

V. TEST DATA AND REQUEST FOR ALLOWABLE

OIL WELL (Test must be after recovery of total volume of load oil and must be equal to or exceed top allowable for this depth or be for full 24 hours.)

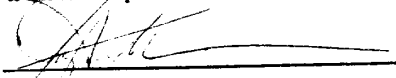
Date First New Oil Run To Tank	Date of Test	Producing Method (Flow, pump, gas lift, etc.)	
Length of Test	Tubing Pressure	Casing Pressure	Choke Size
Actual Prod. During Test	Oil - Bbls.	Water - Bbls.	Gas- MCF

GAS WELL

Actual Prod. Test - MCF/D	Length of Test	Bbls. Condensate/MMCF	Gravity of Condensate
Testing Method (pilot, back pr.)	Tubing Pressure (Shut-in)	Casing Pressure (Shut-in)	Choke Size

VI. OPERATOR CERTIFICATE OF COMPLIANCE

I hereby certify that the rules and regulations of the Oil Conservation Division have been complied with and that the information given above is true and complete to the best of my knowledge and belief.


Signature
JAY PRUDHOMME
Printed Name
PRODUCTION ENGINEER
Title

OIL CONSERVATION DIVISION

Date Approved OCT - 7 1993

By ORIGINAL SIGNED BY
MIKE WILLIAMS
Title SUPERVISOR, DISTRICT II

SEPT. 28, 1993
Date

(505) 393-5905
Telephone No.

INSTRUCTIONS: This form is to be filed in compliance with Rule 1104

- 1) Request for allowable for newly drilled or deepened well must be accompanied by tabulation of deviation tests taken in accordance with Rule 111.
- 2) All sections of this form must be filled out for allowable on new and recompleted wells.
- 3) Fill out only Sections I, II, III, and VI for changes of operator, well name or number, transporter, or other such changes.
- 4) Separate Form C-104 must be filed for each pool in multiply completed wells.

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

NM OIL & GAS
Drawer DD
Artesia, NM 88210

FORM APPROVED
Except Entry No. 104-013
Expires March 31, 1993

C/5F

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or to deepen or reentry to a different reservoir.
Use "APPLICATION FOR PERMIT—" for such proposals

SUBMIT IN TRIPLICATE

RECEIVED

OCT 20 1993

510

5. Well Designation and Serial No.
NM-42410

6. If Indian, Allottee or Tribe Name

7. If Unit or CA, Agreement Designation

8. Well Name and No.
Federal "T" #1

9. API Well No.
30-015-26404

10. Field and Pool, or Exploratory Area
North Illinois Camp Morrow

11. County or Parish, State
Eddy Co. N.M.

1. Type of Well
 Oil Well Gas Well Other

2. Name of Operator
Newbourne Oil Company

3. Address and Telephone No.
P.O. Box 5270 Hobbs, New Mexico 88241 (505) 393-5905

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)
**660' FNL & 990' FEL
 Sec. 12-T18S-R27F**

12. CHECK APPROPRIATE BOX(s) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION	
<input checked="" type="checkbox"/> Notice of Intent	<input type="checkbox"/> Abandonment	<input type="checkbox"/> Change of Plans
<input type="checkbox"/> Subsequent Report	<input type="checkbox"/> Recompletion	<input type="checkbox"/> New Construction
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Plugging Back	<input type="checkbox"/> Non-Routine Fracturing
	<input type="checkbox"/> Casing Repair	<input type="checkbox"/> Water Shut-Off
	<input type="checkbox"/> Altering Casing	<input type="checkbox"/> Conversion to Injection
	<input type="checkbox"/> Other <u>Shut-in Status</u>	<input type="checkbox"/> Dispose Water

(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

13. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

Mewbourne Oil Company hereby requests "shut-in" status pending further evaluation of the lease for the above well. The well was spudded 06/28/90. Attached is a copy of the stimulation report which charts the annulus pressure during a break down on the Wolfcamp recompletion.

RECEIVED
 SEP 21 11 09 AM '93
 OIL & GAS
 ARTESIA

Approved For 12 Month Period
 Ending 8/27/94

14. I hereby certify that the foregoing is true and correct

Signed [Signature] Title Production Engineer Date 09/21/93

(This space for Federal or State office use)

Approved by [Signature] Title Petroleum Engineer Date 10/18/93

Conditions of approval, if any:

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

*See Instruction on Reverse Side

HALLIBURTON SERVICES

ACQUIRE Version 1.52

CUSTOMER AND JOB INFORMATION

Customer	MEWBOURNE OIL	Date	21-Aug-1993
Contractor	X-PERT	County	EDDY
Lease	FED-T	Town	
Location	ARTESIA	Section	
Formation		Range	
Job Type	ACID	Permit No	
Country	USA	Well No	1
State	NM	Field Name	

Customer Representative BRENT THURMAP

Halliburton Operator TOMMY VAUGHN

Ticket No. 498331NO

STAGE DESCRIPTIONS

ST ACID
ST FLUSH

WELL CONFIGURATION INFORMATION

Packer Type COMP Depth 6765 ft
Bottom Hole Temp. 120.0 Deg F

PIPE CONFIGURATION

Wellbore Segment Number	Measured Depth (ft)	TVD (ft)	Casing ID (inch)	Casing OD (inch)	Tubing ID (inch)	Tubing OD (inch)
1	6868	6868	4.950	5.500	2.441	2.875

PERFORATIONS

Perforation Interval	Top (ft)	Bottom (ft)	Shots per (ft)
1	6868	7038	2

REMARKS ABOUT JOB

TREAT AS INST

NOTICE: THIS REPORT IS BASED ON SOUND ENGINEERING PRACTICES, BUT BECAUSE OF VARIABLE WELL CONDITIONS AND OTHER INFORMATION WHICH MUST BE RELIED UPON, HALLIBURTON MAKES NO WARRANTY, EXPRESSED OR IMPLIED, AS TO THE ACCURACY OF THE DATA OR OF ANY CALCULATIONS OR OPINIONS EXPRESSED HEREIN. YOU AGREE THAT HALLIBURTON SHALL NOT BE LIABLE FOR ANY LOSS OR DAMAGE, WHETHER DUE TO NEGLIGENCE

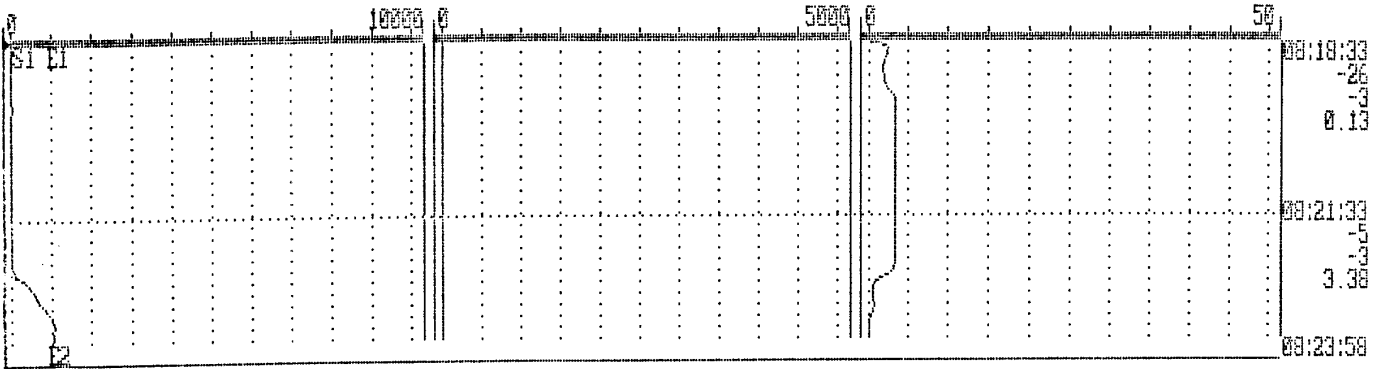
 REALTIME STRIP CHART

- 1. Tubing Press (psi)
- 2. Annulus Press (psi)
- 3. Clean Rate (bpm)

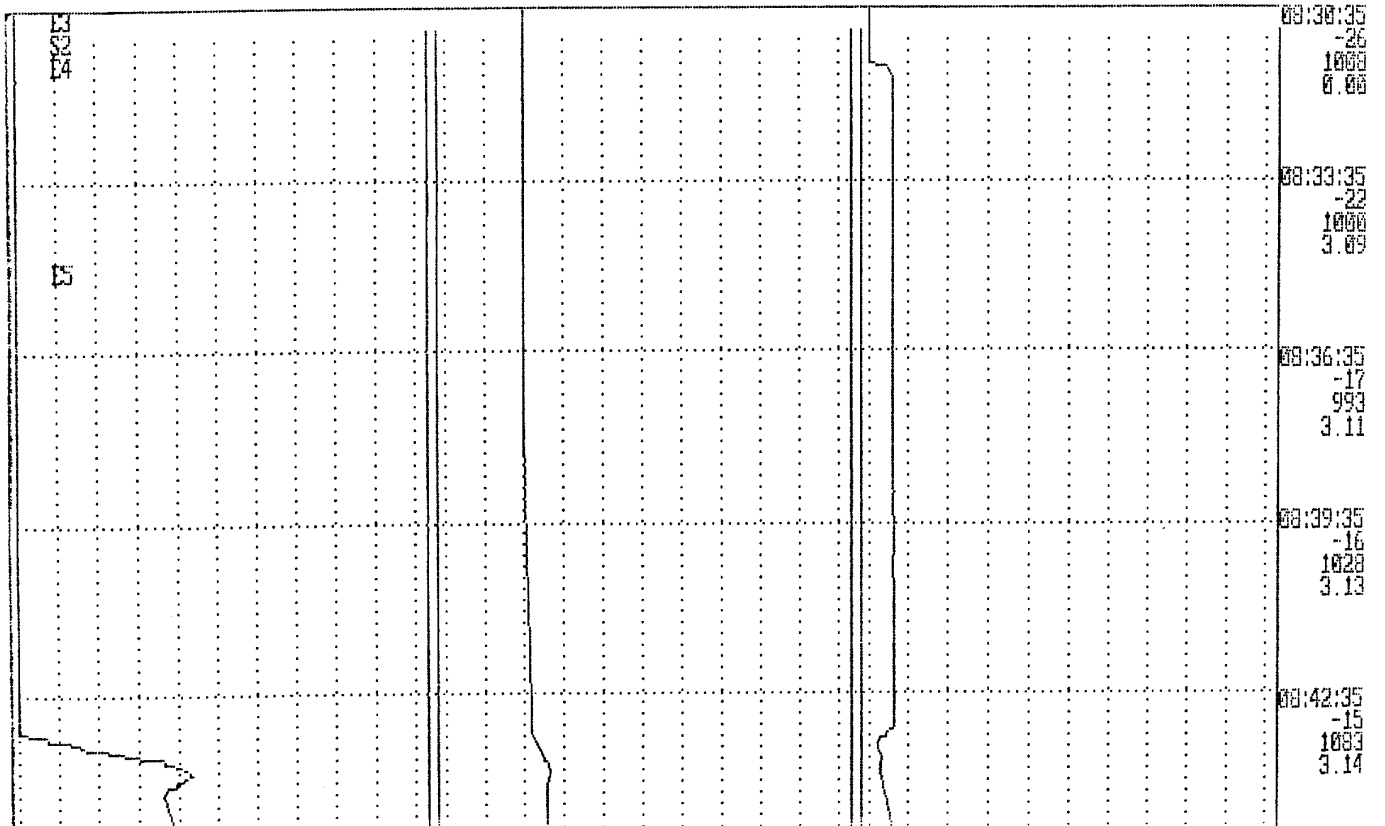
TUBING PRESS
psi

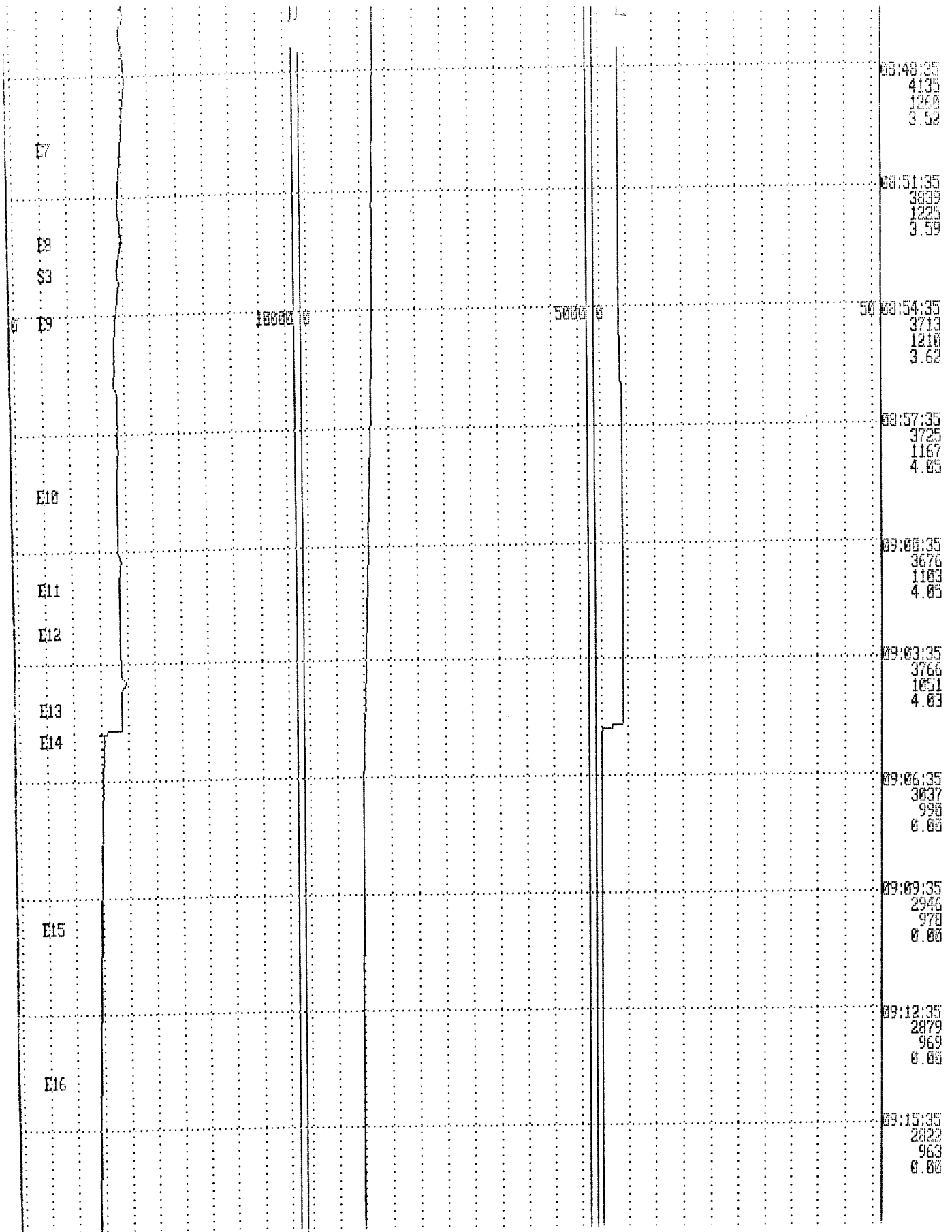
ANNULUS PRESS
psi

CLEAN RATE
bpm



PAUSE





UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

NM OIL CONS COMMISSION
District Director
Artesia, NM 88202
FORM APPROVED
Budget Bureau No. 1004-0135
Expires March 31, 1993

CISF

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or to deepen or reentry to a different reservoir.
Use "APPLICATION FOR PERMIT—" for such proposals

SUBMIT IN TRIPLICATE

1. Type of Well

Oil Well Gas Well Other

2. Name of Operator

Mewbourne Oil Company

3. Address and Telephone No.

P.O. Box 5270 Hobbs, New Mexico 88241 (505) 393-5905

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)

660' FNL & 990' FEL
Sec. 12-T18S-R27E

Unit A

5. Lease Designation and Serial No.

NM 42410

6. If Indian, Abnee or Tribe Name

7. If Unit or CA, Agreement Designation

8. Well Name and No.

Federal T #1

9. API Well No.

30-015-26404

10. Field and Pool, or Exploratory Area

N. Illinois Camp Morrow

11. County or Parish, State

Eddy Co., N.M.

12. CHECK APPROPRIATE BOX(S) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION
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	<input type="checkbox"/> Casing Repair
	<input type="checkbox"/> Altering Casing
	<input checked="" type="checkbox"/> Other <u>Casing Integrity Test</u>
	<input type="checkbox"/> Change of Plans
	<input type="checkbox"/> New Construction
	<input type="checkbox"/> Non-Routine Fracturing
	<input type="checkbox"/> Water Shut-Off
	<input type="checkbox"/> Conversion to Injection
	<input type="checkbox"/> Dispose Water

(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

13. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)

- Loaded casing with 80 bbls. water and tested to 1,000#. Lost 10# in 30 minutes.
Casing integrity test witnessed and approved by BLM representative on 5/23/95.

RECEIVED

- Had no pressure on 5-1/2" - 8-5/8" Annulus or 8-5/8" - 13-3/8" Annulus

JUL 10 1995

ACCEPTED FOR RECORD OIL CON. DIV.
DIST. 3
J. Lara
- 7 1995
CARLSBAD, NEW MEXICO
RECEIVED
JUL 10 1995

14. I hereby certify that the foregoing is true and correct

Signed

[Signature]

Title

Engineer

Date

5/24/95

(This space for Federal or State office use)

Approved by

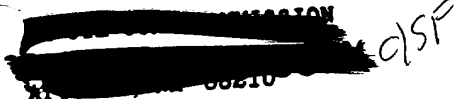
Conditions of approval, if any

Title

Date

5 U.S.C. Section 1702 makes it a crime for any person knowingly and willfully to make to any Department or agency of the United States any false, fictitious or fraudulent statements or communications or to buy under such conditions.

See instruction on back of this



Form 3160-5
 (June 1990)

UNITED STATES
 DEPARTMENT OF THE INTERIOR
 BUREAU OF LAND MANAGEMENT

FORM APPROVED
 Budget Bureau No. 1004-0135
 Expires: March 31, 1993

5. Lease Designation and Serial No.
 NM 42410

6. If Indian, Allottee or Tribe Name

7. If Unit or CA, Agreement Designation

8. Well Name and No.
 Federal "T" #1

9. API Well No.
 30-015-26404

10. Field and Pool, or Exploratory Area
 N. Illinois Camp Morrow

11. County or Parish, State
 Eddy Co. N.M.

SUNDRY NOTICES AND REPORTS ON WELLS

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 Use "APPLICATION FOR PERMIT—" for such proposals

SUBMIT IN TRIPLICATE

1. Type of Well
 Oil Well Gas Well Other

2. Name of Operator
 Mewbourne Oil Company

3. Address and Telephone No.
 P.O. Box 5270 Hobbs, New Mexico 88241 (505) 393-5905

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)
 660' FNL & 990' FEL
 Sec. 12-T18S-R27E

12. CHECK APPROPRIATE BOX(S) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

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<input type="checkbox"/> Subsequent Report	<input type="checkbox"/> Recompletion
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Plugging Back
	<input type="checkbox"/> Casing Repair
	<input type="checkbox"/> Altering Casing
	<input checked="" type="checkbox"/> Other <u>Temporary Abandonment</u>
	<input type="checkbox"/> Change of Plans
	<input type="checkbox"/> New Construction
	<input type="checkbox"/> Non-Routine Fracturing
	<input type="checkbox"/> Water Shut-Off
	<input type="checkbox"/> Conversion to Injection
	<input type="checkbox"/> Dispose Water

(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

13. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

Mewbourne Oil requests temporary abandonment status for the above referenced well for the purpose of evaluating further behind pipe potential. This well passed the casing integrity test as noted on the attached sundry notice.

TA APPROVED FOR 12 MONTH PERIOD
 ENDING 5/23/96

RECEIVED
 AUG 7 8 59 AM '95

RECEIVED
 AUG 30 1995

OIL CON. DIV.
 DIST. 2

14. I hereby certify that the foregoing is true and correct

Signed [Signature] Title Engineer Date Aug. 3, 1995

(This space for Federal or State office use)

Approved by (ORIG FILED) JOE G LARA Title PETROLEUM ENGINEER Date 8/28/95
 Conditions of approval, if any:

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

*See Instruction on Reverse Side

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT N.M. Oil Cons. Division

FORM APPROVED
Budget Bureau No 1004-0135
Expires March 31, 1993

c15F

811 S. 1st Street
Artesia, NM 88210-2834

SUNDRY NOTICES AND REPORTS ON WELLS
Do not use this form for proposals to drill or to deepen or reentry to a different reservoir.
Use "APPLICATION FOR PERMIT—" for such proposals

Lease Designation and Serial No
NM 42410

6. If Indian Allotment or Tribe Name

7. If Unit or CA, Agreement Designation

8. Well Name and No.
Federal T #1

9. API Well No.
30-015-26404

10. Field and Pool, or Exploratory Area
N. Illinois Camp Morrow

11. County or Parish, State
Eddy Co., NM

SUBMIT IN TRIPLICATE

1. Type of Well
 Oil Well Gas Well Other

2. Name of Operator
Mewbourne Oil Company

3. Address and Telephone No
P.O. Box 5270, Hobbs, NM 88241 (505) 393-5905

4. Location of Well (Footage: Sec., T., R., M., or Survey Description)
660' FNL & 990' FEL
Sec. 12-T18S-R27E

DEC 05 '96

O. C. D.
ARTESIA OFFICE

12 CHECK APPROPRIATE BOX(S) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION
<input checked="" type="checkbox"/> Notice of Intent	<input type="checkbox"/> Abandonment
<input type="checkbox"/> Subsequent Report	<input type="checkbox"/> Recompletion
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Plugging Back
	<input type="checkbox"/> Casing Repair
	<input type="checkbox"/> Altering Casing
	<input checked="" type="checkbox"/> Other <u>Temporary Abandonment</u>
	<input type="checkbox"/> Change of Plans
	<input type="checkbox"/> New Construction
	<input type="checkbox"/> Non-Routine Fracturing
	<input type="checkbox"/> Water Shut-Off
	<input type="checkbox"/> Conversion to Injection
	<input type="checkbox"/> Dispose Water

(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

13 Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)
Mewbourne Oil Company requests an extension of Temporary Abandonment Status for the above referenced well for the purpose of evaluating further behind pipe potential. This well passed the casing integrity test on 05/23/95 and indicates no additional tests should be needed.

NOV 21 9 50 AM '96
RECEIVED

14. I hereby certify that the foregoing is true and correct

Signed Hollie Jones Title Engineer Date 11/25/96

(This space for Federal or State office use)

Approved by _____ Title _____ Date _____
Conditions of approval, if any:

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction

*See Instruction on Reverse Side

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

N.M. Oil Cons. Division
811 S. 1st Street
Artesia, NM 88210-2834

CIS F

FORM APPROVED
GSA FPMR (41 CFR) 101-11.6
No. 1004-0135
Expires: March 31, 1993

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or to deepen or reentry to a different reservoir.
Use "APPLICATION FOR PERMIT-" for such proposals

SUBMIT IN TRIPLICATE

1. Type of Well <input type="checkbox"/> Oil Well <input type="checkbox"/> Gas Well <input checked="" type="checkbox"/> Other	5. Lease Designation and Serial No. NM-42410
2. Name of Operator Mewbourne Oil Company	6. If Indian, Allottee or Tribe Name
3. Address and Telephone No. PO Box 5270, Hobbs, NM 505-393-5905	7. If Unit or CA, Agreement Designation
4. Location of Well (Footage, Sec., T., R., M., or Survey Description) 660' FNL & 990' FEL, Sec.12 T-18S R-27E	8. Well Name and No. Federal T #1
	9. API Well No. 30-015-26404
	10. Field and Pool, or Exploratory Area N. Illinois Camp Morrow
	11. County or Parish, State Eddy, NM

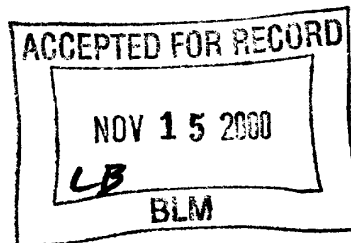
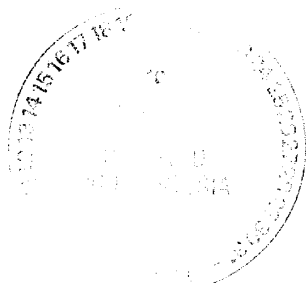
12. CHECK APPROPRIATE BOX(S) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION
<input type="checkbox"/> Notice of Intent	<input type="checkbox"/> Abandonment
<input checked="" type="checkbox"/> Subsequent Report	<input type="checkbox"/> Recompletion
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Plugging Back
	<input type="checkbox"/> Casing Repair
	<input type="checkbox"/> Altering Casing
	<input checked="" type="checkbox"/> Other MIT.
	<input type="checkbox"/> Change of Plans
	<input type="checkbox"/> New Construction
	<input type="checkbox"/> Non-Routine Fracturing
	<input type="checkbox"/> Water Shut-Off
	<input type="checkbox"/> Conversion to Injection
	<input type="checkbox"/> Dispose Water

(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

13. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

The above caption well was successfully MIT'ed on 10/25/2000. (520 psi for 30 mins.)
The pressure chart is enclosed.
If any question, please call.



14. I hereby certify that the foregoing is true and correct

Signed [Signature] Title N.M. Young District Manager Date 11/01/00

(This space for Federal or State office use)

Approved by [Signature] Title _____ Date _____
Conditions of approval, if any:

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

*See Instruction on Reverse Side

OCD - Artesia

C/SF

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM APPROVED
Budget Bureau No. 1004-0135
Expires: March 31, 1993

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or to deepen or reentry to a different reservoir.
Use "APPLICATION FOR PERMIT-" for such proposals

SUBMIT IN TRIPLICATE

<p>1. Type of Well <input type="checkbox"/> Oil Well <input type="checkbox"/> Gas Well <input checked="" type="checkbox"/> Other</p> <p>2. Name of Operator Mewbourne Oil Company</p> <p>3. Address and Telephone No. PO Box 5270, Hobbs, NM 505-393-5905</p> <p>4. Location of Well (Footage, Sec., T., R., M., or Survey Description) 660' FNL & 990' FEL, Sec.12 T-18S R-27E</p>	<p>5. Lease Designation and Serial No. NM-42410</p> <p>6. If Indian, Allottee or Tribe Name</p> <p>7. If Unit or CA, Agreement Designation</p> <p>8. Well Name and No. Federal T #1</p> <p>9. API Well No. 30-015-26404</p> <p>10. Field and Pool, or Exploratory Area N. Illinois Camp Morrow</p> <p>11. County or Parish, State Eddy, NM</p>
--	--

12. CHECK APPROPRIATE BOX(S) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION
<input checked="" type="checkbox"/> Notice of Intent <input type="checkbox"/> Subsequent Report <input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Abandonment <input type="checkbox"/> Recompletion <input type="checkbox"/> Plugging Back <input type="checkbox"/> Casing Repair <input type="checkbox"/> Altering Casing <input checked="" type="checkbox"/> Other <u>CIT & Extend T/A.</u> <input type="checkbox"/> Change of Plans <input type="checkbox"/> New Construction <input type="checkbox"/> Non-Routine Fracturing <input type="checkbox"/> Water Shut-Off <input type="checkbox"/> Conversion to Injection <input type="checkbox"/> Dispose Water

(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

13. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

The above caption well is currently under T/A status. Mewbourne Oil Company would like to extend this status. The well has a 5 1/2" CIBP above all perms @ 6800". We are considering converting this well into a SWD. At this time, Mewbourne would like to schedule a CIT (500 psi) & after passing, extend T/A status for an additional time.

If any question, please call.



TA Approved by 12 Search Request
10/25/2000

RECEIVED
 2000 OCT 10 1 P 2:34
 BUREAU OF LAND MGMT.
 LAND SURFACE RESOURCE AREA

14. I hereby certify that the foregoing is true and correct

Signed *N.M. Young* Title N.M. Young District Manager Date 10/06/00

(This space for Federal or State office use)

Approved by **(OPM. SEC.) JOE G. LARA** Title Petroleum Engineer Date 11/6/2000
 Conditions of approval, if any:

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

CCD - Artesia

FORM APPROVED
Budget Bureau No. 1004-0135
Expires: March 31, 1993

CISF

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or to deepen or reentry to a different reservoir.
Use "APPLICATION FOR PERMIT-" for such proposals

SUBMIT IN TRIPLICATE

1. Type of Well <input type="checkbox"/> Oil Well <input type="checkbox"/> Gas Well <input checked="" type="checkbox"/> Other	5. Lease Designation and Serial No. NM-42410
2. Name of Operator Mewbourne Oil Company	6. If Indian, Allottee or Tribe Name
3. Address and Telephone No. PO Box 5270, Hobbs, NM 505-393-5905	7. If Unit or CA, Agreement Designation
4. Location of Well (Footage, Sec., T., R., M., or Survey Description) 660' FNL & 990' FEL, Sec.12 T-18S R-27E	8. Well Name and No. Federal T #1
	9. API Well No. 30-015-26404
	10. Field and Pool, or Exploratory Area N. Illinois Camp Morrow
	11. County or Parish, State Eddy, NM

RECEIVED
CCD - ARTESIA
OCT 13 14 15 16 17
OCT 20 2000
62728293031

12. CHECK APPROPRIATE BOX(S) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION
<input checked="" type="checkbox"/> Notice of Intent	<input type="checkbox"/> Abandonment
<input type="checkbox"/> Subsequent Report	<input type="checkbox"/> Recompletion
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Plugging Back
	<input type="checkbox"/> Casing Repair
	<input type="checkbox"/> Altering Casing
	<input checked="" type="checkbox"/> Other <u>CIT & Extend T/A.</u>
	<input type="checkbox"/> Change of Plans
	<input type="checkbox"/> New Construction
	<input type="checkbox"/> Non-Routine Fracturing
	<input type="checkbox"/> Water Shut-Off
	<input type="checkbox"/> Conversion to Injection
	<input type="checkbox"/> Dispose Water

(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

13. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

The above caption well is currently under T/A status. Mewbourne Oil Company would like to extend this status. The well has a 5 1/2" CIBP above all perfs @ 6800". We are considering converting this well into a SWD. At this time, Mewbourne would like to schedule a CIT (500 psi) & after passing, extend T/A status for an additional time.

If any question, please call.

*TA Approved For 12 Month Period
Ending 10/25/2001*

*Note to Operator:
Please submit a copy of pressure test chart. Rec'd a copy on 11/9/2000.*

RECEIVED
2000 OCT 10 11 P 2:34
BUREAU OF LAND MGMT
OIL AND GAS RESOURCE AREA

14. I hereby certify that the foregoing is true and correct

Signed *N.M. Young* Title N.M. Young District Manager Date 10/06/00

(This space for Federal or State office use)

Approved by *John S. Lora* Title *Petroleum Engineer* Date 11/6/2000

Conditions of approval, if any:

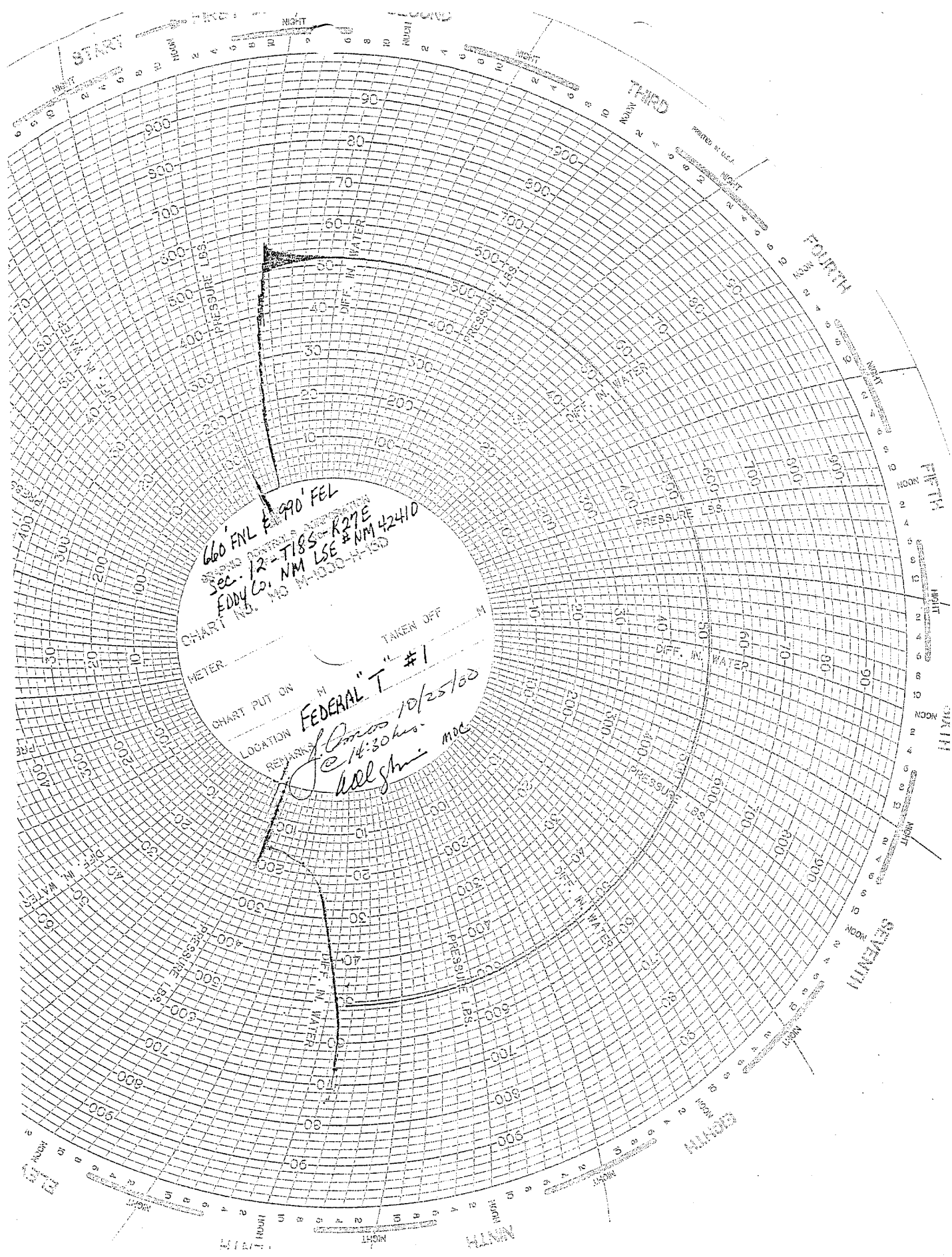
Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

*See Instruction on Reverse Side

RECEIVED

2000 NOV -9 P 2:16

WATER AND SOIL MGMT.
SPECIAL RESOURCE AREA



660' FNL # 990' FEL
 Sec. 12 - TISS - R27E
 EDDY CO. NM LSE # NM 4241D
 CHART NO. NO. 11000-1150

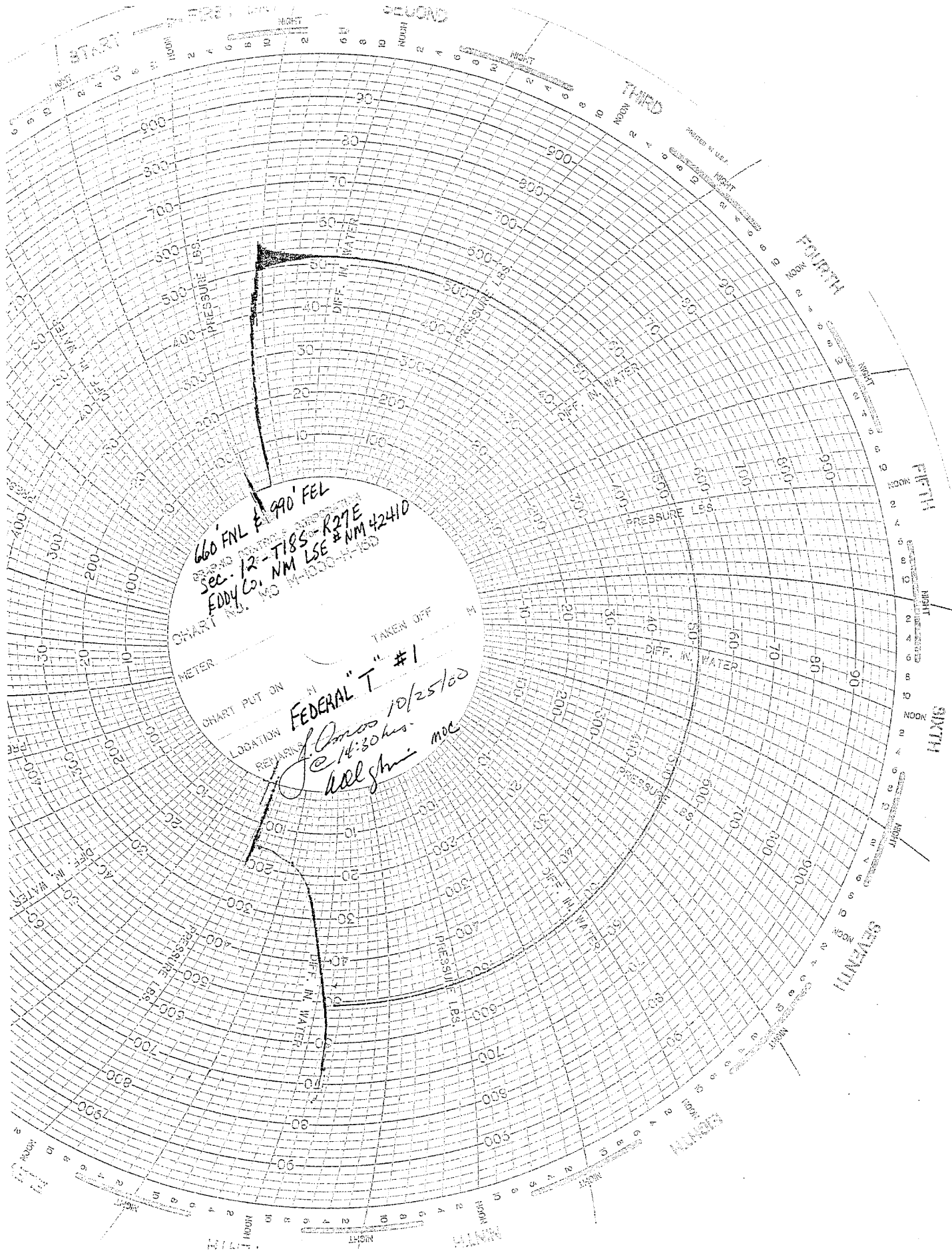
METER _____ TAKEN OFF _____
 CHART PUT ON _____
 LOCATION _____
 REMARKS
 J. Jones 10/25/00
 @ 14:30 hrs.
 Kelsh mdc

PRINTED IN U.S.A.

RECEIVED

2009 NOV -9 1P 2:16

ISLAND MGMT
RESOURCE AREA



660' FNL & 990' FEL
 Sec. 12 - TIBS - R27E
 EDDY Co. NM LSE # NM 42410
 CHART NO. 43 11-20-1960

METER _____ TAKEN OFF _____
 CHART PUT ON _____
 LOCATION _____
 REMARKS
 FEDERAL "T" #1
 of Oros 10/25/62
 @ 14:30 hrs.
 All gms. moc



**NEW MEXICO ENERGY, MINERALS and
NATURAL RESOURCES DEPARTMENT**

BILL RICHARDSON

Governor
Joanna Prukop
Cabinet Secretary

Lori Wrotenbery
Director

Oil Conservation Division

*Field Inspection Program
"Preserving the Integrity of Our Environment"*

05-Dec-03

MEWBOURNE OIL CO
PO BOX 7698
TYLER, TX 75711-0000

NOTICE OF VIOLATION - Inspection

Dear Operator:

The following inspection(s) indicate that the well, equipment, location or operational status of the well(s) failed to meet standards of the New Mexico Oil Conservation Division as described in the detail section below. To comply with standards imposed by Rules and Regulations of the Division, corrective action must be taken immediately and the situation brought into compliance. The detail section indicates preliminary findings and/or probable nature of the violation. This determination is based on an inspection of your well or facility by an inspector employed by the Oil Conservation Division on the date(s) indicated.

Please notify the proper district office of the Division, in writing, of the date corrective actions are scheduled to be made so that arrangements can be made to reinspect the well and/or facility.

INSPECTION DETAIL SECTION

FEDERAL T 001		A-12-18S-27E		30-015-26404-00-00		
Inspection Date	Type Inspection	Inspector	Violation?	*Significant Non-Compliance?	Corrective Action Due By:	Inspection No.
12/05/2003	Routine/Periodic	Mike Bratcher	Yes	No	3/9/2004	iMLB0333931134
Comments on Inspection:		TA status for this well expired 10/25/01. Last production reported was 7/93. Well is in violation of Rule 201. (Idle Well)				

In the event that a satisfactory response is not received to this letter of direction by the "Corrective Action Due By:" date shown above, further enforcement will occur. Such enforcement may include this office applying to the Division for an order summoning you to a hearing before a Division Examiner in Santa Fe to show cause why you should not be ordered to permanently plug and abandon this well. Such a hearing may result in imposition of CIVIL PENALTIES for your violation of OCD rules.

Sincerely,



Artesia OCD District Office

Note: nformation in Detail Section comes directly from field inspector data entries - not all blanks will contain data.
*Significant Non-Compliance events are reported directly to the EPA, Region VI, Dallas, Texas.



NEW MEXICO ENERGY, MINERALS and
NATURAL RESOURCES DEPARTMENT

BILL RICHARDSON

Governor

Joanna Prukop

Cabinet Secretary

Lori Wrotenbery

Director

Oil Conservation Division

*Field Inspection Program
"Preserving the Integrity of Our Environment"*

05-Dec-03

MEWBOURNE OIL CO

PO BOX 7698

TYLER, TX 75711-0000

NOTICE OF VIOLATION - Inspection

Dear Operator:

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Please notify the proper district office of the Division, in writing, of the date corrective actions are scheduled to be made so that arrangements can be made to reinspect the well and/or facility.

INSPECTION DETAIL SECTION

FEDERAL T 001		A-12-18S-27E	30-015-26404-00-00			
Inspection Date	Type Inspection	Inspector	Violation?	*Significant Non-Compliance?	Corrective Action Due By:	Inspection No.
12/04/2003	Routine/Periodic	Mike Bratcher	Yes	No	3/9/2004	iMLB0333840462
Comments on Inspection: Well sign is illegible and is not standing. Violation Rule 103.						

In the event that a satisfactory response is not received to this letter of direction by the "Corrective Action Due By:" date shown above, further enforcement will occur. Such enforcement may include this office applying to the Division for an order summoning you to a hearing before a Division Examiner in Santa Fe to show cause why you should not be ordered to permanently plug and abandon this well. Such a hearing may result in imposition of CIVIL PENALTIES for your violation of OCD rules.

Sincerely,



Artesia OCD District Office

Note: Information in Detail Section comes directly from field inspector data entries - not all blanks will contain data.
*Significant Non-Compliance events are reported directly to the EPA, Region VI, Dallas, Texas.



NEW MEXICO ENERGY, MINERALS and NATURAL RESOURCES DEPARTMENT

BILL RICHARDSON
Governor
Joanna Prukop
Cabinet Secretary

Lori Wrotenbery
Director
Oil Conservation Division

9 January 2004

MEWBOURNE OIL CO
PO Box 7698
Tyler TX 75711

RE: Federal T 001 A-12-18s-27e API 30-015-26404 Violation of Rule 103: Well sign violation

Dear Sirs:

This second directive is to notify you that these wells are still in violation of Rule 103

On December 4, 2003 a letter was sent notifying you on the violation of Rule 103. An inspection of the wells on January 6, 2004 found no action had been taken.

Rule 103 of the New Mexico Oil Conservation Division provides as follows:

103 SIGN ON WELLS

All wells and related facilities by the Division shall be identified by a sign, which sign shall remain in place until the well is plugged and abandoned and the related facilities are closed. For drilling wells, the sign shall be posted on the derrick or not more than 20 feet from the well. The sign shall be of durable construction and the lettering shall be legible and large enough to be read under normal conditions at a distance of 50 feet. The wells on each lease or property shall be numbered in non-repetitive, logical and distinctive sequence. An operator will have 90 days from the effective date of an operator name change to change the operator name on the well sign unless an extension of time, for good cause shown along with a schedule for making the changes, is granted. Each sign shall show the:

1. number of well;
2. name of property;
3. name of operator;
4. location by footage, quarter-quarter section, township and range (or Unit Letter can be substituted for the quarter-quarter section), and
5. API number.

In the event that a satisfactory response is not received to this letter of direction by February 6, 2004 further enforcement will occur. Such enforcement may include this office applying to the Division for an order summoning you to a hearing before a Division Examiner in Santa Fe to show cause why you should not be ordered to permanently plug and abandon this well. Such a hearing may result in imposition of **CIVIL PENALTIES** for your violation of OCD rules.

Sincerely,

Mike Bratcher, Compliance Officer

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT **OCD-ARTESIA**

FORM APPROVED
OMB No. 1004-0135
Expires: January 31, 2004

SUNDRY NOTICES AND REPORTS ON WELLS
Do not use this form for proposals to drill or to re-enter an abandoned well. Use Form 3160-3 (APD) for such proposals.

5. Lease Serial No.
NM-42410

6. If Indian, Allottee or Tribe Name

7. If Unit or CA/Agreement, Name and/or No.

8. Well Name and No.
Federal T #1

9. API Well No.
30-015-26404

10. Field and Pool, or Exploratory Area
N Illinois Camp Morrow

11. County or Parish, State
Eddy Co NM

SUBMIT IN TRIPLICATE - Other instructions on reverse side

1. Type of Well
 Oil Well Gas Well Other

2. Name of Operator
Mewbourne Oil Company 14744

3a. Address
PO Box 5270 Hobbs, NM 88240

3b. Phone No. (include area code)
505-393-5905

4. Location of Well (Footage, Sec., T, R., M., or Survey Description)
660' FNL & 990' FEL, Sec 12-T18S-R27E

RECEIVED
APR 22 2004
OCD-ARTESIA

12. CHECK APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION			
<input type="checkbox"/> Notice of Intent	<input type="checkbox"/> Acidize	<input type="checkbox"/> Deepen	<input type="checkbox"/> Production (Start/Resume)	<input type="checkbox"/> Water Shut-Off
<input checked="" type="checkbox"/> Subsequent Report	<input type="checkbox"/> Alter Casing	<input type="checkbox"/> Fracture Treat	<input type="checkbox"/> Reclamation	<input type="checkbox"/> Well Integrity
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Casing Repair	<input type="checkbox"/> New Construction	<input type="checkbox"/> Recomplete	<input checked="" type="checkbox"/> Other MIT Test
	<input type="checkbox"/> Change Plans	<input type="checkbox"/> Plug and Abandon	<input type="checkbox"/> Temporarily Abandon	
	<input type="checkbox"/> Convert to Injection	<input type="checkbox"/> Plug Back	<input type="checkbox"/> Water Disposal	

3. Describe Proposed or Completed Operation (clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recomplete horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports shall be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompletion in a new interval, a Form 3160-4 shall be filed once testing has been completed. Final Abandonment Notices shall be filed only after all requirements, including reclamation, have been completed, and the operator has determined that the site is ready for final inspection.)

The above caption well was successfully MIT'ed on 01/26/04. (Pressured casing to 570#, held OK for 30 mins)
The pressure chart is enclosed.

Requesting extension of temporary abandon status.
5 1/2" CIBP set @ 6800'. No type of hardware in hole.

TA APPROVED FOR 12 MONTH PERIOD
ENDING 1/26/05

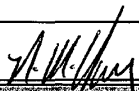
Accepted for record - NMOCD

14. I hereby certify that the foregoing is true and correct
Name (Printed/Typed)

NM Young

Title Hobbs District Manager

Signature



Date 01/27/04

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved by (Signature)

/s/ Joe G. Lara

Name (Printed/Typed)

/s/ Joe G. Lara

Title Pet. Engr.

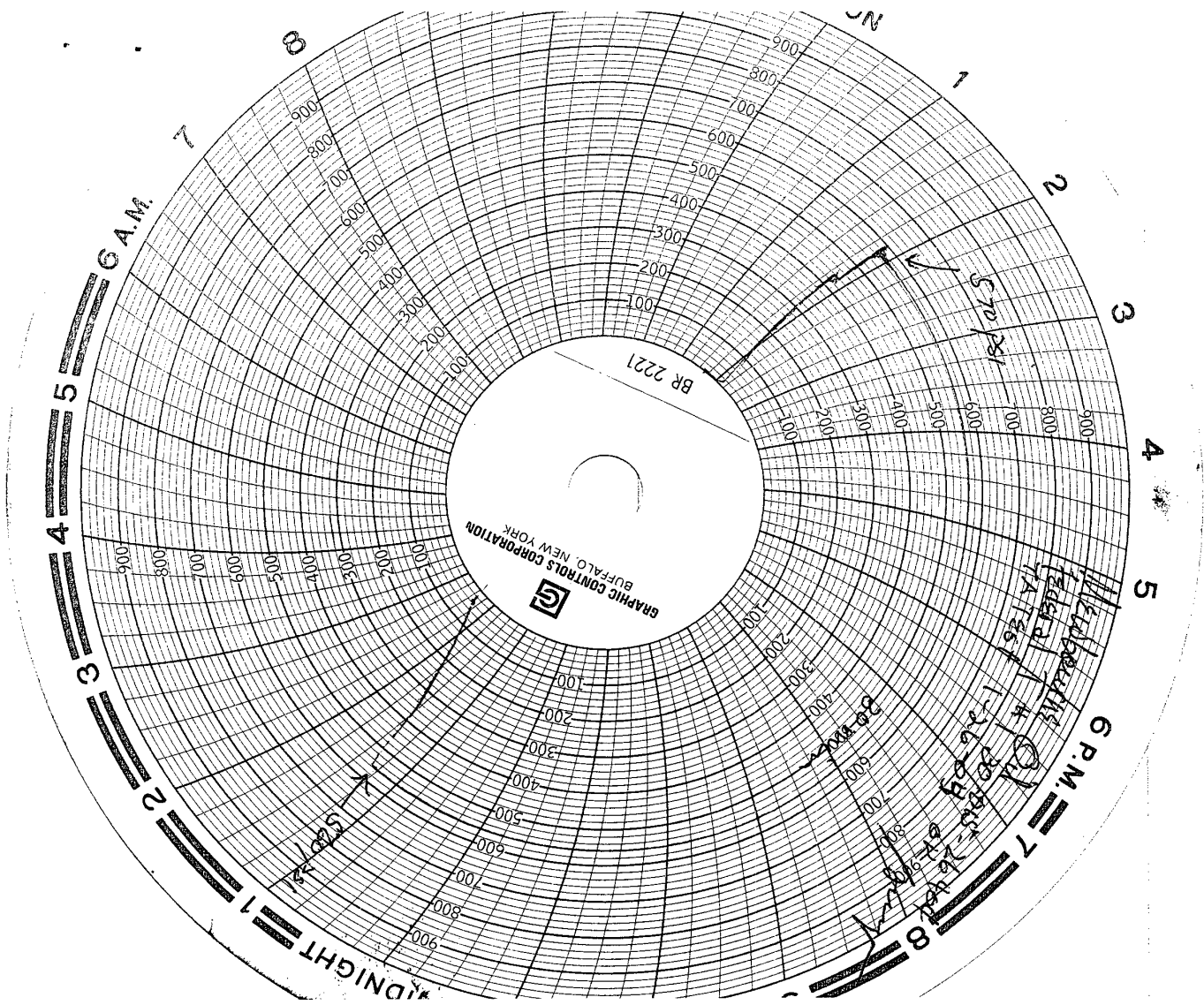
Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

Office CARLSBAD FIELD OFFICE

Date 4/20/04

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

(Continued on next page)



RECEIVED
 APR 22 2004
 OEB-ARTESIA

C104AReport

Page 1 of 1

District II
1301 W. Grand Ave., Artesia, NM 88210
Phone:(505) 748-1283 Fax:(505) 748-9720

State of New Mexico
Energy, Minerals and Natural Resources

Form C-145
Permit 72521

Oil Conservation Division
1220 S. St Francis Dr.
Santa Fe, NM 87505

Change of Operator

Previous Operator Information

New Operator Information

OGRID: 14744	OGRID: 6137
Name: MEWBOURNE OIL CO	Name: DEVON ENERGY PRODUCTION COMPANY, LP
Address: PO BOX 5270	Address: 20 N Broadway
Address:	Address:
City, State, Zip: HOBBS, NM 88241	City, State, Zip: Oklahoma City, OK 73102

I hereby certify that the rules of the Oil Conservation Division have been complied with and that the information on this form and the certified list of wells is true to the best of my knowledge and belief.

Previous Operator

New Operator

Signature: <u>Monty L. Whetstone</u>	Signature: <u>Gregg Jacob</u>
Printed Name: Monty L. Whetstone	Printed Name: Gregg Jacob
Title: Vice-President Operations	Title: Western Operations Manager
Date: 4/4/08 Phone: (903) 561-2900	Date: 4/07/08 Phone: (405) 552-4591

NMOCD Approval
 Electronic Signature: Carmen Reno, District 2
 Date: April 07, 2008

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT
SUNDRY NOTICES AND REPORTS ON WELLS

S

FORM APPROVED
OMB No. 1004-0135
EFFECTIVE DATE: NOVEMBER 30, 2000

OCD-ARTESIA

Do not use this form for proposals to drill or to re-enter an abandoned well. Use Form 3160-3 (APJ) for such proposals

SUBMIT IN TRIPLICATE

1a Type of Well Oil Well Gas Well Other _____

2. Name of Operator
DEVON ENERGY PRODUCTION COMPANY, LP

3. Address and Telephone No.
20 North Broadway, Oklahoma City, OK 73102 405-552-8198

4. Location of Well (Report location clearly and in accordance with Federal requirements)*
**660' FNL & 990' FEL
Section 12 T18S R27E, Unit A**

5. Lease Serial No.
NM-42410

6. If Indian, Allottee or Tribe Name

7. Unit or CA Agreement Name and No.

8 Well Name and No.
Federal T 1

9. API Well No.
30-015-26404

10. Field and Pool, or Exploratory
Wolfcamp

12. County or Parish 13. State
Eddy NM

**JUL 21 2008
OCD-ARTESIA**

CHECK APPROPRIATE BOX(S) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION			
<input checked="" type="checkbox"/> Notice of Intent	<input type="checkbox"/> Acidize	<input type="checkbox"/> Deepen	<input type="checkbox"/> Production (Start/Resume)	<input type="checkbox"/> Water Shut-Off
<input type="checkbox"/> Subsequent Report	<input type="checkbox"/> Alter Casing	<input type="checkbox"/> Fracture Treat	<input type="checkbox"/> Reclamation	<input type="checkbox"/> Well Integrity
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Casing Repair	<input type="checkbox"/> New Construction	<input type="checkbox"/> Recomplete	<input type="checkbox"/> Other _____
	<input type="checkbox"/> Change Plans	<input type="checkbox"/> Plug and Abandon	<input type="checkbox"/> Temporarily Abandon	
	<input checked="" type="checkbox"/> Convert to Injection	<input type="checkbox"/> Plug Back	<input type="checkbox"/> Water Disposal	

13 Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work and approximate duration thereof. If the proposal deepens directionally or recompletes horizontally, give subsurface location and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports shall be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompletion in a new interval, a Form 3160-4 shall be filed once testing has been completed. Final Abandonment Notices shall be filed only after all requirement, including reclamation, have been completed, and the operator has determined that the site is ready for final inspection)

Devon Energy Production Company, LP is preparing Form C108, Application for Authorization to Inject that will be filed with the Oil Conservation Division, Santa Fe, New Mexico office. Devon is proposing to convert the Federal T #1 well to SWD in the Lower Wolfcamp and Cisco zones from 7400' to 8200'. The BLM has been sent a copy of C108 application filed with the OCD.

1. RIH and drill out CIBP's at 6,800', 7,078', & 7,265'.
2. Perform injection step rate test in the Lower Wolfcamp.
3. Drill out CIBP at 7,560' and cement retainers at 7,745', 7,780', & 7,820', & 8,000'.
4. Perforate / Reperforate Cisco with casing gun, 0.42" EHD, 2 spf from 7,893'-7,899'; 7,902'-7,907'; 7,910'-7,916'; 7,919'-7,927'; 7,932'-7,959'; 7,965'-7,967'; 7,971'-7,972'; 7,976'-7,978'; 8,034'-8,042'; 8,055'-8,060'; 8160'-8164'.
5. Frac as recommended.
6. RIH with RBP and set at +/- 7,865'.
7. Perforate / Reperforate Cisco with casing gun, 0.42" EHD, 2 spf at 7,758'-7,768'; 7,790'-7,798'; 7,800'-7,818'; 7,832'-7,840'.
8. Frac as per recommended.
9. POOH with RBP and RIH with tubing and packer. Set packer at 7,600'. Perform injection step rate test in Cisco.
10. Tie in disposal line routed from West Red Lake SWD Battery and establish injection.

** Either, return the well to active status by 11-16-08 or submit plans for abandonment.*

14. I hereby certify that the foregoing is true and correct

Signed [Signature] Name Norvella Adams
Title Sr. Staff Engineering Technician

Date 7/16/2008 **APPROVED**

(This space for Federal or State Office use)

Approved by _____ Title _____
Conditions of approval, if any: _____

Date JUL 16 2008

Title to U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make any department or agency of the United States any false, fictitious or fraudulent statement or representation to any matter within its jurisdiction

**JAMES A. AMOS
SUPERVISOR EPC**

*See Instruction on Reverse Side

Accepted for record - NMOCD

Submit 3 Copies To Appropriate District Office
 District I
 1625 N. French Dr., Hobbs, NM 88240
 District II
 1301 W Grand Ave., Artesia, NM 88210
 District III
 1000 Rio Brazos Rd., Aztec, NM 87410
 District IV
 1220 S St Francis Dr., Santa Fe, NM 87505

State of New Mexico
 Energy, Minerals and Natural Resources

Form C-103
 May 27, 2004

OIL CONSERVATION DIVISION
 1220 South St. Francis Dr.
 Santa Fe, NM 87505

WELL API NO. 30-015-26404
5. Indicate Type of Lease STATE <input type="checkbox"/> FEE <input type="checkbox"/>
6. State Oil & Gas Lease No.
7. Lease Name or Unit Agreement Name Federal T
8. Well Number 1
9. OGRID Number 6137
10. Pool name or Wildcat L. Wolfcamp and Cisco 96136

SUNDRY NOTICES AND REPORTS ON WELLS
 (DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO DEEPEN OR PLUG BACK TO A DIFFERENT RESERVOIR USE "APPLICATION FOR PERMIT" (FORM C-101) FOR SUCH PROPOSALS)

1. Type of Well: Oil Well Gas Well Other -Convert to SWD

2. Name of Operator
DEVON ENERGY PRODUCTION COMPANY, LP

3. Address of Operator
20 North Broadway, Oklahoma City, OK 73102 405-552-8198

4. Well Location
 Unit Letter A : 660' feet from the NORTH line and 990' feet from the EAST line
 Section 12 Township 18S Range 27E NMPM County Eddy

11. Elevation (Show whether DR, RKB, RT, GR, etc.)
3709' KB; 3697' GL

Pit or Below-grade Tank Application or Closure

Pit type _____ Depth to Groundwater _____ Distance from nearest fresh water well _____ Distance from nearest surface water _____

Pit Liner Thickness: _____ mil Below-Grade Tank: Volume _____ bbls; Construction Material _____

12. Check Appropriate Box to Indicate Nature of Notice, Report or Other Data

NOTICE OF INTENTION TO:		SUBSEQUENT REPORT OF:	
PERFORM REMEDIAL WORK <input type="checkbox"/>	PLUG AND ABANDON <input type="checkbox"/>	REMEDIAL WORK <input type="checkbox"/>	ALTERING CASING <input type="checkbox"/>
TEMPORARILY ABANDON <input type="checkbox"/>	CHANGE PLANS <input type="checkbox"/>	COMMENCE DRILLING OPNS. <input type="checkbox"/>	P AND A <input type="checkbox"/>
PULL OR ALTER CASING <input type="checkbox"/>	MULTIPLE COMPL <input type="checkbox"/>	CASING/CEMENT JOB <input type="checkbox"/>	
OTHER: <input type="checkbox"/>		OTHER <input checked="" type="checkbox"/> Convert to SWD, Admin. Order SWD-1135	

13. Describe proposed or completed operations. (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work). SEE RULE 1103. For Multiple Completions: Attach wellbore diagram of proposed completion or recompletion.

- 8/04/08 RU unit. ND wellhead and NU BOP. TIH with bit and drill collars.
- 8/05/08 Drill CIBP at 6800' and 7078'.
- 8/06/08 Drilled through cement at 7525', CIBP at 7300' and cement at 7560' and CIBP at 7595'.
- 8/07/08 Ran step rate test; pumped 50 bbls at 1/2 bbl/min - 0# psi, pumped 50 bbls at 1 bbl/min -20# psi, pumped 50 bbls at 2 bbls/min - 75# psi, pumped 50 bbls at 3 bbls/min - 170# psi, pumped 50 bbls at 4 bbls/min - 250 psi.
- 8/08/08 Trucked in and established injection in the Wolfcamp at 150 BWPD at 170 psi.
- 8/11/08 Drilled cement retainers at 7745', and 7780'.
- 8/12/08 Drilled cement retainer at 7820' and 8000'. Circulate hole and TOH with tubing and bit.
- 8/13/08 Perforate Cisco from 7893' - 8060'; total 140 holes. TIH and set packer at 7688'. Frac with 5,040 gals 15% HCl + 120,372 gals Spectra Star 2500 + 167,552 # 20/40 White sand.
- 8/14/08 TIH with retrievable tool and latch onto packer. Release packer and TOOH with packer and tubing. RU wireline and perforate Cisco from 7758'-7840'; 228 total holes.
- 8/15/08 TIH with packer and set at 7582'. NU frac valve.
- 8/16/08 Frac 7758'-8060' with 4500 gals 15% Spearhead acid + 119,255 gals Spectra 2500 + 106,750 # 20/40 100% White sand. RD.
- 8/18/08 Release packer. TOOH with packer and tubing.
- 8/20/08 TIH with bailer and bailed sand. Bailed sand to 8460'. TOOH with tubing. ND BOP and NU flange. Waiting on tubing.
- 9/15/08 TIH with packer and tubing. Set packer at 6789'. ND BOP and NU tree. Ran MIT test to 500 # for 30 minutes - ok, notified Mike Bratcher with OCD. TOOH with tubing. RIH with 3 1/2" IPC tubing and set at 6789'. Injection line installation in progress.

I hereby certify that the information above is true and complete to the best of my knowledge and belief. I further certify that any pit or below-grade tank has been/will be constructed or closed according to NMOCD guidelines , a general permit or an (attached) alternative OCD-approved plan .

SIGNATURE Norvella Adams TITLE Sr. Staff Engineering Technician DATE 9/17/08
 Type or print name Norvella Adams E-mail address: norvella.adams@dvn.com Telephone No. 405-552-8198

For State Use Only

APPROVED BY: _____ TITLE Accepted for record DATE _____
 Conditions of Approval (if any): NMOCD

DEVON ENERGY PRODUCTION COMPANY LP

Well Name: FEDERAL T #1		Field: NORTH ILLINOIS CAMP MORROW	
Location: 660' FNL & 990' FEL; SEC 12-T18S-R27E		County: EDDY	State: NM
Elevation: 3634' KB; 3618' GL		Spud Date: 6/28/90	Compl Date: 9/13/90
API#: 30-015-26404	Prepared by: Norvella Adams	Date: 9/17/08	Rev:

**Current Schematic
L. Wolfcamp and Cisco SWD**

Formation Tops

Morrow 9,600'-10,250'
 Atoka 9,230'- 9,700'
 Upper Wolfcamp 6,400' - 7,200'
 Abo 5,600' - 6,200'
 Yeso 3,300' 0 3,900'
 San Andres 2,000' - 2,800'
 Queen 1,450' - 1,650'

17-1/2" Hole
13-3/8", 68#, LTC, @ 472'
 Cmt'd w/450 Sx. Circ to surface

12-1/4" Hole
8-5/8", J55, 32#, STC, @ 2,589'
 Cmt'd w/900 Sx. Circ to surface

3-1/2", 9.3 #, N80, Injection tubing @ 6789'

5-1/2" IPC Packer @ 6,789'

WOLFCAMP (8/21/93)
 6,868' - 7,038'

WOLFCAMP (8/18/93)
 7,092' - 7,097'; 7,120' - 7,146'

WOLFCAMP (8/16/93)
 7,330' - 7,340'; 7,350' - 7,360'

SWD Perforations:
CISCO (8/1/93)
 7,685' - 7,695'

CISCO (7/30/93)
 7,760' - 7,768'

CISCO (7/28/93)
 7,790' - 7,798'

CISCO (7/25/93)
 7,932' - 7,940'

CISCO (7/22/93)
 8,034' - 8,042'
 8,055' - 8,060'

Frac 7758'-7840' with 4500 gals 15% Spearhead acid and 119,255 gals Spectra Star 2500 + 106,750 # 100% 20/40 White sand.

Frac 7893'-8060' with 5040 gals 15% HCl acid and 120,372 gals Spectra Star 2500 + 167,552 # 100% 20/40 White sand.

4" Liner top @ 9,055'

7-7/8" Hole
5-1/2", N80, 17#, LTC, @ 9,473'
 Cmt'd w/430 Sx

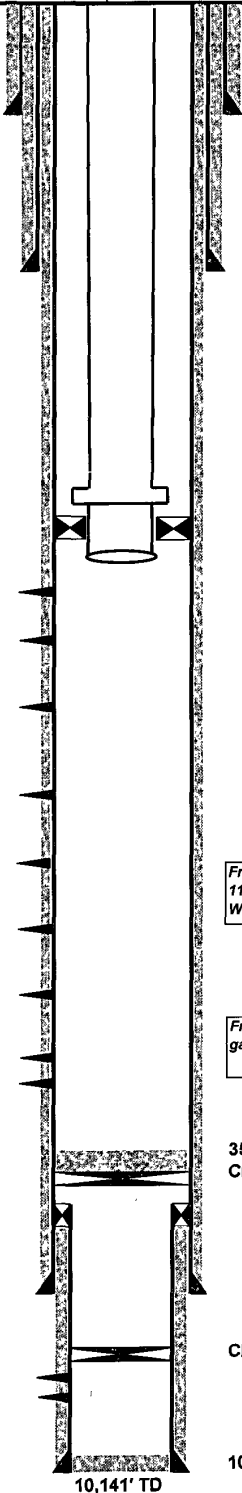
**35' cement. 9,005' PBD
 CIBP @ 9,040'. (7/21/93)**

MORROW (9/14/90)
 10,008' - 10,014'
 10,038' - 10,054'

CIBP @ 9,950' (7/19/93)

4-3/4" Hole
4" 10.46#, L80 Liner @ 9,055' - 10,141'
 Cmt'd w/80 Sx

10,100' PBD



10,141' TD

New Mexico Energy, Minerals, and Natural Resources Department

Bill Richardson
Governor

Joanna Prukop
Cabinet Secretary
Reese Fullerton
Deputy Cabinet Secretary

OCT 07 2008

OCD-ARTESIA

OCT 07 2008

OCD-ARTESIA

Mark Fesmire
Division Director
Oil Conservation Division



Administrative Order SWD-1135
July 16, 2008

APPLICATION OF DEVON ENERGY PRODUCTION COMPANY, L.P. FOR
PRODUCED WATER DISPOSAL, EDDY COUNTY, NEW MEXICO

ADMINISTRATIVE ORDER
OF THE OIL CONSERVATION DIVISION

Under the provisions of Rule 701(B), Devon Energy Production Company, L.P. (OGRID No. 6137) made application to the New Mexico Oil Conservation Division for permission to utilize for produced water disposal its Federal T Well No. 1 (API No. 30-015-26404) located 660 feet from the North line and 990 feet from the East line of Section 12, Township 18 South, Range 27 East, NMPM, Eddy County, New Mexico.

THE DIVISION DIRECTOR FINDS THAT:

The application has been duly filed under the provisions of Rule 701(B) of the Division Rules. Satisfactory information has been provided that all offset operators and surface owners have been duly notified. The applicant has presented satisfactory evidence that all requirements prescribed in Rule 701 will be met and no objections have been received within the waiting period prescribed by said rule. The applicant is in compliance with Rule 40.

IT IS THEREFORE ORDERED THAT:

Devon Energy Production Company, L.P. ("operator") is hereby authorized to utilize its Federal T Well No. 1 (API No. 30-015-26404) located 660 feet from the North line and 990 feet from the East line of Section 12, Township 18 South, Range 27 East, NMPM, Eddy County, New Mexico, in such manner as to permit the injection of produced water for disposal purposes into the Lower Wolfcamp formation and the Cisco formation through perforations from 7,400 feet to 8,200 feet and through plastic-lined tubing set in a packer located within 100 feet of the top of the injection interval.

IT IS FURTHER ORDERED THAT:

Oil Conservation Division * 1220 South St. Francis Drive
* Santa Fe, New Mexico 87505
* Phone: (505) 476-3440 * Fax (505) 476-3462* <http://www.emnrd.state.nm.us>



The operator shall take all steps necessary to ensure that the injected water enters only the proposed injection interval and is not permitted to escape to other formations or onto the surface.

After installing injection tubing, the casing shall be pressure tested from the surface to the packer setting depth to assure the integrity of said casing.

The casing-tubing annulus shall be loaded with an inert fluid and equipped with a pressure gauge or an approved *leak detection device* in order to determine leakage in the casing, tubing, or packer.

The injection well or system shall be equipped with a *pressure limiting device* in workable condition which shall, at all times, limit surface injection pressure to the maximum allowable pressure for this well. The wellhead injection pressure on the well shall be limited to **no more than 1480 psi**.

The Director of the Division may authorize an increase in the maximum injection pressure upon a proper showing by the operator that such higher pressure would not result in migration of the injected fluid from the injection formation. Such proper showing should be supported by a valid step rate test run in accordance with procedures acceptable to the Division.

The operator shall notify the supervisor of the Artesia district office of the Division of the date and time of the installation of disposal equipment and of any mechanical integrity test so that the same may be inspected and witnessed.

The operator shall immediately notify the supervisor of the Artesia district office of the Division of the failure of the tubing, casing, or packer in said well and shall take such steps as may be timely and necessary to correct such failure or leakage.

PROVIDED FURTHER THAT, jurisdiction is retained by the Division for the entry of such further orders as may be necessary for the prevention of waste and/or protection of correlative rights or upon failure of the operator to conduct operations (1) to protect fresh water or (2) consistent with the requirements in this order, whereupon the Division may, after notice and hearing, or without notice and hearing in event of an emergency subject to NMSA 1978 Section 70-2-23, terminate the injection authority granted herein.


The operator shall provide written notice of the date of commencement of injection and the initial reservoir pressure to the Artesia district office of the Division.

The operator shall submit monthly reports of the disposal operations on Division Form C-115, in accordance with Division Rules 706 and 1120.

The injection authority granted herein shall terminate one year after the effective date of this order if the operator has not commenced injection operations into the subject well, provided however, the Division, upon written request by the operator

mailed prior to the expiration date, may grant an extension thereof for good cause shown.

This order does not relieve the operator of responsibility should its operations cause any actual damage or threat of damage to protectable fresh water, human health or the environment; nor does it relieve the operator of responsibility for complying with applicable Division rules or other state, federal, or local laws or regulations.

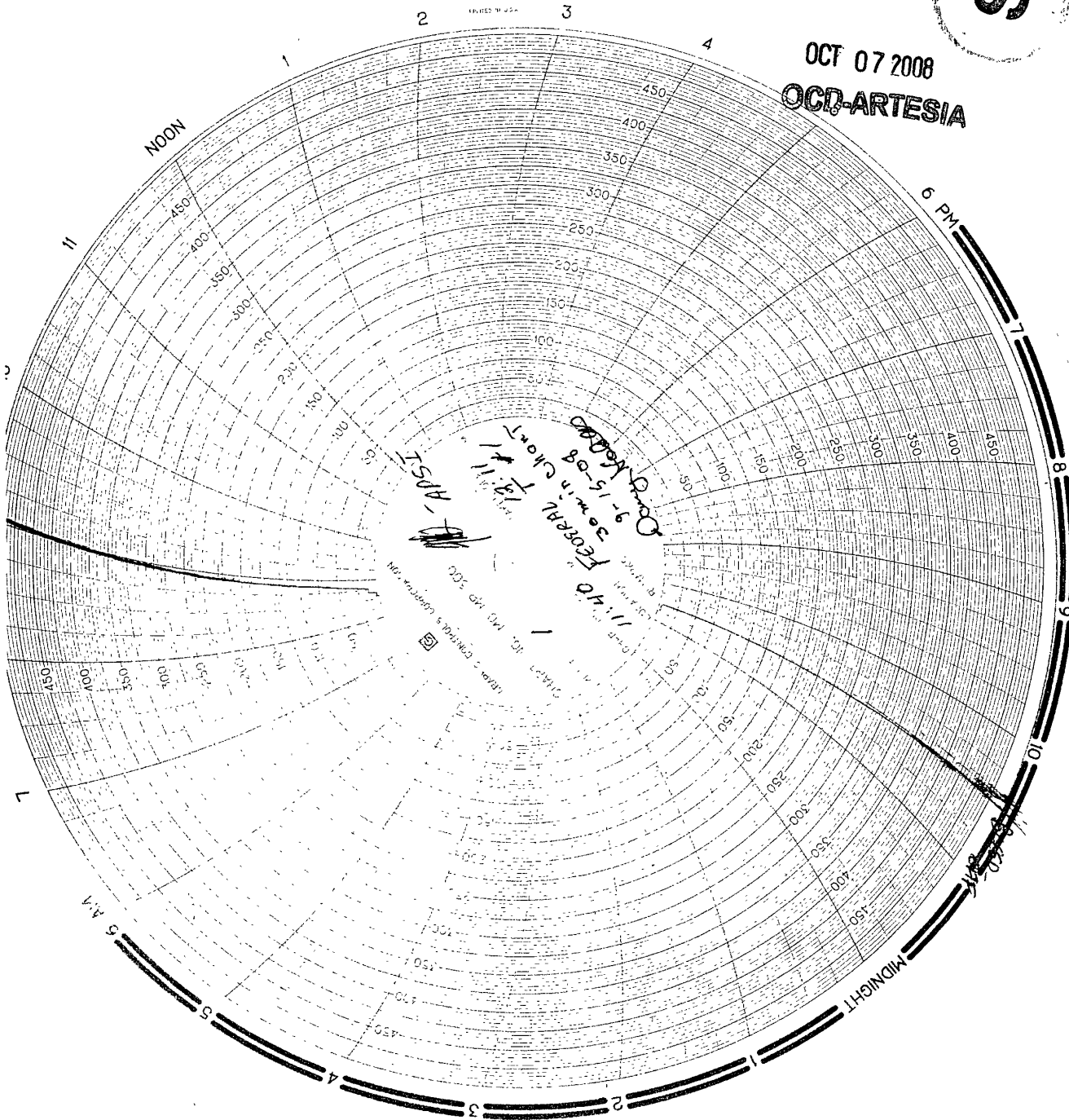

MARK E. FESMIRE, P.E.
Director

MEF/wvjj

cc: Oil Conservation Division – Artesia
Bureau of Land Management – Carlsbad



OCT 07 2008
OCD-ARTESIA



SEP 19 2008

S

Submit to Appropriate District Office
State Lease - 6 copies
Fee Lease - 5 copies
District I
1625 N French Dr., Hobbs, NM 88240
District II
1301 W Grand Avenue, Artesia, NM 88210
District III
1000 Rio Brazos Rd, Aztec, NM 87410
District IV
1220 S St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy, Minerals and Natural Resources

OCD-ARTESIA

Form C-105
Revised June 10, 2003

Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

Well API No. 30-015-26404
5. Indicate Type of Lease
STATE FEE
State Oil & gas Lease No

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

1a Type of Well
Oil Well Gas Well Dry Other Convert to SWD; Admin Order SWD-1135
b Type of Completion
New Well Work Over Deepen Plug Back Diff. Resvr., Other
7 Lease Name and Unit Agreement Name
Federal T 1
8. Well No.
9 Pool name or Wildcat
L. Wolfcamp and Cisco 96136

2 Name of Operator
DEVON ENERGY PRODUCTION COMPANY, LP
3 Address of Operator
20 North Broadway, Oklahoma City, OK 73102
4 Well Location
Unit Letter A 660' feet from the NORTH line and 990' feet from the EAST line
Section 12 Township 18S Range 27E NMPM County Eddy

10. Date Spudded 6/28/1990
11. Date T D Reached 8/25/1990
12 Date Completed Orig 9/13/90 SWD 9/15/08
13 Elevations (DR, RKB, RT, GL)* 3634' KB; 3618' GL
14 Elev Casinghead

15. Total Depth MD 10,141
16 Plug Back T,D 9005'
17 If Multiple Compl How Many Zones No
18. Intervals Rotary Tools Cable Tools
Dnled BY X

19 Producing Intervals(s), of this completion - Top, Bottom, Name
L. Wolfcamp; 6,868' - 7,360' and Cisco; 7,758' - 8,060' (Salt Water Disposal Only)
20 Was Directional Survey Made No

21. Type Electric and Other Logs Run
DLL-MGRD, SDL-DSN (original logs)
22 Was Well Cored No

Table with 6 columns: Casing Size, Weight LB /FT., Depth Set, Hole Size, Cementing Record, Amount Pulled. Rows include 13-3/8", 8-5/8", 5-1/2" casing sizes.

Table with 7 columns: Size, top, Bottom, Sacks Cement, Screen, Size, Depth Set, Packer Set. Row includes 4" size casing with 80 sx sacks cement.

Table with 2 columns: Depth Interval, Amount and Kind Material Used. Rows include Wolfcamp and Cisco intervals with material details.

Table with 2 columns: Depth Interval, Amount and Kind Material Used. Rows include Wolfcamp and Cisco intervals with material details.

28 PRODUCTION

Date First Production NA
Production Method (Flowing, Gas lift, pumping - Size and type pump)
Well Status (Prod Or Shut-In) 9/16/08-Converted to SWD
Date of Test Hours Tested Choke Size Prod'n For Test Oil - BbL Gas - MCF Water - Bbl Gas - Oil Ratio
Flowing Tubing Press Casing Pressure Calculated 24-Hour Rate Oil - Bbl Gas - MCF Water - Bbl Oil Gravity - API (Corr)

29. Disposition of Gas (Sold, used for fuel, vented, etc)
NA--Converted to SWD 9/16/08
Test Witnessed By

30. List Attachments

Wellbore schematic

31. I hereby certify that the information shown on both sides of this form as true and complete to the best of my knowledge and belief

SIGNATURE [Signature] Name Norvella Adams Title Sr Staff Engineering Technician DATE 9/17/2008

E-mail Address. norvella.adams@dvn.com

Accepted for record
NMOCD



OCT 06 2008
OCD-ARTESIA

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

1a. Type of Well <input type="checkbox"/> Oil Well <input type="checkbox"/> Gas Well <input type="checkbox"/> Dry <input checked="" type="checkbox"/> Other <u>SWD- Order 1135</u>		5. Lease Serial No NM-42410
b. Type of Completion <input type="checkbox"/> New Well <input type="checkbox"/> Work Over <input type="checkbox"/> Deepen <input checked="" type="checkbox"/> Plug Back <input type="checkbox"/> Diff. Reserv., <input type="checkbox"/> Other		6. If Indian, Allottee or Tribe Name
2. Name of Operator DEVON ENERGY PRODUCTION COMPANY, LP		7. Unit or CA Agreement Name and No
3. Address 20 North Broadway Oklahoma City, OK 73102-8260		8. Lease Name and Well No Federal T 1
3a. Phone No (include area code) 405-552-8198		9. API Well No. 30-015-26404-0052
4. Location of Well (Report location clearly and in accordance with Federal requirements)* At Surface 660 FNL 990 FEL At top prod Interval reported below At total Depth		10. Field and Pool, or Exploratory L. Wolfcamp and Cisco 96136
		11. Sec, T, R, M, on Block and Survey or Area 12 18S 27E
		12. County or Parish Eddy
		13. State NM

14. Date Spudded 6/28/1990	15. Date T D Reached 8/25/1990	16. Date Completed 9/15/08 - SWD 9/13/90 orig compl <input type="checkbox"/> D & A <input checked="" type="checkbox"/> Ready to Prod.	17. Elevations (DR, RKB, RT, GL)* 3634' KB; 3618' GL
18. Total Depth: MD 7600' TVD	19. Plug Back T D. MD 6142' TVI	20. Depth Bridge Plug Set: MD 6177' TVI	
21. Type Electric & Other Mechanical Logs Run (Submit copy of each) DLL-MGRD, SDL_DSN (original logs)		22. Was well cored? <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes (Submit analysis) Was DST run? <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes (Submit report) Directional Survey? <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes (Submit copy)	

23. Casing and Liner Record (Report all strings set in well)

Hole Size	Size/Grade	Wt (#/ft)	Top (MD)	Bottom (MD)	Stage Cementer Depth	No. of Sks & Type Cement	Slurry Vol (BBL)	Cement Top*	Amount Pulled
17-1/2"	13-3/8"/LT&C	68		472'		450 Sx		Surf	
12 1/4"	8-5/8"/J55	32		2589'		900 Sx		Surf	
7-7/8"	5-1/2"/LT&C	17		9473'		430 Sx		Surf	
4 3/4"	4" / L80	10.46		10,141'		80 Sx		9055'	

24. Tubing Record

Size	Depth Set (MD)	Packer Depth (MD)	Size	Depth Set (MD)	Packer Depth (MD)	Size	Depth Set (MD)	Packer Depth (MD)
3 1/2" IPC	6789'	6789'						

25. Producing Intervals

Formation	Top	Bottom	Perforated Interval	Size	No. Holes	Perf Status
Wolfcamp	6868'	7360'	6868'-7360'		140	Open for SWD
Cisco	7893'	7840'	7893-7840'		228	Open for SWD
Morrow	10,008'	10,054'	10,008-10,054'			Abandoned
D.						

27. Acid, Fracture, Treatment, Cement Squeeze, Etc.

Depth Interval	Amount and Type of Material
7893-8060'	Frac - 5040 gals 15% HCl acid and 120,372 gals Spectra Star 2500 + 167,552 # 100% White 20/40 sand.
7758-7840'	Frac - 4500 gals 15% Spearhead acid and 119,255 gals Spectra Star 2500 + 106,750 # 100% White 20/40 sand.

28. Production - Interval A

Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
NA		24	→						
Choke Size	Tbg Press Flwg SI	Csg Press	24 Hr Rate	Oil BBL	Gas MCF	Water BBL	Gas - Oil Ratio	Well Status	
			→				#DIV/0!		

28a. Production - Interval B

Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method

ACCEPTED FOR RECORD
/s/ DAVID R. GLASS
SEP 29 2008
DAVID R. GLASS
PETROLEUM ENGINEER

			→						
Choke Size	Ibg. Press Flwg SI	Csg Press	24 Hr Rate	Oil BBL	Gas MCF	Water BBL	Gas : Oil Ratio	Well Status	
			→						

(See instructions and spaces for additional data on reverse side)

28b Production - Interval C

Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
			→						
Choke Size	Ibg. Press. Flwg SI	Csg Press	24 Hr Rate	Oil BBL	Gas MCF	Water BBL	Gas : Oil Ratio	Well Status	
			→						

28c Production - Interval D

Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
			→						
Choke Size	Ibg. Press. Flwg SI	Csg Press	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas : Oil Ratio	Well Status	
			→						

(See instructions and spaces for additional data on reverse side)

29. Disposition of Gas (Sold, used for fuel, vented, etc)

30 Summary of Porous Zones (Include Aquifers).

Show all important zones of porosity and contents thereof. Cored intervals and all drill-stem tests, including depth interval tested, cushion used, time tool open, flowing and shut-in pressures and recoveries.

31 Formation (Log) Markers

Formation	Top	Bottom	Descriptions, Contents, etc	Name	Top
					Meas Depth
				Yates	476'
				Queen	1218'
				Grayburg	1572'
				San Andres	2072'
				Tubb	4824'
				Abo	6016'
				Wolfcamp	7682'
				Cisco	8912'
				Strawn	9513'
				Atoka	9628'
				Morrow	9828'
				Morrow Clastics	9965'
				Lower Morrow	10104'

32. Additional remarks (include plugging procedure).

(Empty space for additional remarks)

33 Indicate which items have been attached by placing a check in the appropriate box

- Electrical/Mechanical Logs (1 full set req'd)
- Geologic Report
- DST Report
- Directional Survey
- Sundry Notice for plugging and cement verification
- Core Analysis
- Other
- Wellbore Schematic

34. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records (see attached instructions)*

Name (Please print) Novella Adams Title Sr. Staff Engineering Technician

Signature [Signature] Date 9/17/2008

Title 18 U.S.C. Section 1001 and Title 49 U.S.C. Section 1212; make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or to re-enter an abandoned well. Use Form 3160-3 (APD) for such proposals

SUBMIT IN TRIPLICATE - Other instructions on page 2

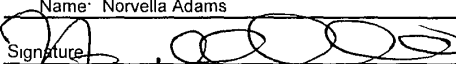
1. Type of Well <input type="checkbox"/> Oil Well <input type="checkbox"/> Gas Well <input checked="" type="checkbox"/> Other SWD conversion. Admin Order SWD-1135		5. Lease Serial No NM-42410
2. Name of Operator DEVON ENERGY PRODUCTION COMPANY, LP		6. If Indian, Allottee or Tribe Name
3a. Address 20 North Broadway, Oklahoma City, OK 73102		7. Unit or CA Agreement Name and No.
3b. Phone No. (include area code) 405-552-8198		8. Well Name and No Federal T 1
4. Location of Well (Footage, Sec., T., R., M., or Survey Description) 660 FNL 990 FEL A 12 18S 27E		9. API Well No 30-015-26404
		10. Field and Pool, or Exploratory Area L.Wolfcamp and Cisco
		11. County or Parish, State Eddy NM

12. CHECK APPROPRIATE BOX(es) TO INDICATE NATURE OF NOTICE, REPORT OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION		
<input type="checkbox"/> Notice of Intent	<input type="checkbox"/> Acidize	<input type="checkbox"/> Deepen	<input type="checkbox"/> Production (Start/Resume)
<input checked="" type="checkbox"/> Subsequent Report	<input type="checkbox"/> Alter Casing	<input type="checkbox"/> Fracture Treat	<input type="checkbox"/> Reclamation
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Casing Repair	<input type="checkbox"/> New Construction	<input type="checkbox"/> Recomplete
	<input type="checkbox"/> Change Plans	<input type="checkbox"/> Plug and Abandon	<input type="checkbox"/> Temporarily Abandon
	<input checked="" type="checkbox"/> Convert to Injection	<input type="checkbox"/> Plug Back	<input type="checkbox"/> Water Disposal
			<input type="checkbox"/> Water Shut-Off
			<input type="checkbox"/> Well Integrity
			<input type="checkbox"/> Other

13 Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work and approximate duration thereof. If the proposal deepen directionally or recompleat horizontally, give subsurface location and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No on file with BLM/BIA. Required subsequent reports shall be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompletion in a new interval, a Form 3160-4 shall be filed once testing has been completed. Final Abandonment Notices shall be filed only after all requirement, including reclamation, have been completed, and the operator has determined that the site is ready for final inspection)

Converted to SWD. Administrative Order SWD-1135
 8/04/08 RU unit. ND wellhead and NU BOP. TIH with bit and drill collars.
 8/05/08 Drill CIBP at 6800' and 7078'.
 8/06/08 Drilled through cement at 7525', CIBP at 7300' and cement at 7560' and CIBP at 7595'.
 8/07/08 Ran step rate test; pumped 50 bbls at 1/2 bbl/min - 0# psi, pumped 50 bbls at 1 bbl/min -20# psi, pumped 50 bbls at 2 bbls/min - 75# psi, pumped 50 bbls at 3 bbls/min - 170# psi, pumped 50 bbls at 4 bbls/min - 250 psi.
 8/08/08 Trucked in and established injection in the Wolfcamp at 150 BWPD at 170 psi.
 8/11/08 Drilled cement retainers at 7745', and 7780'.
 8/12/08 Drilled cement retainer at 7820' and 8000'. Circulate hole and TOH with tubing and bit.
 8/13/08 Perforate Cisco from 7893' - 8060', total 140 holes. TIH and set packer at 7688'. Frac with 5,040 gals 15% HCl + 120,372 gals Spectra Star 2500 + 167,552 # 20/40 White sand.
 8/14/08 TIH with retrievable tool and latch onto packer. Release packer and TOOH with packer and tubing. RU wireline and perforate Cisco from 7758'-7840'; 228 total holes
 8/15/08 TIH with packer and set at 7582'. NU frac valve.
 8/16/08 Frac 7758'-8060' with 4500 gals 15% Spearhead acid + 119,255 gals Spectra 2500 + 106,750 # 20/40 100% White sand. RD.
 8/18/08 Release packer. TOOH with packer and tubing
 8/20/08 TIH with bailer and bailed sand. Bailed sand to 8460'. TOOH with tubing. ND BOP and NU flange. Waiting on tubing.
 9/15/08 TIH with packer and tubing. Set packer at 6789'. ND BOP and NU tree Ran MIT test to 500 # for 30 minutes - ok, notified Mike Bratcher with OCD
 TOOH with tubing. RIH with 3 1/2" IPC tubing and set at 6789'. Injection line installation in progress.

14. I hereby certify that the foregoing is true and correct
 Name: **Norvella Adams** Title: **Sr. Staff Engineering Technician**
 Signature:  Date: **9/17/2008**

ACCEPTED FOR RECORD THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved by: **DAVID R. GLASS** Title: _____ Date: _____
SEP 29 2008
Accepted for record NMOCD
 Conditions of approval, if any are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct or operations thereon.
 Office: _____

DEVON ENERGY PRODUCTION COMPANY LP

Well Name: FEDERAL T #1		Field: NORTH ILLINOIS CAMP MORROW	
Location: 660' FNL & 990' FEL; SEC 12-T18S-R27E		County: EDDY	State: NM
Elevation: 3634' KB; 3618' GL		Spud Date: 6/28/90	Compl Date: 9/13/90
API#: 30-015-26404	Prepared by: Norvella Adams	Date: 9/17/08	Rev:

Current Schematic
L. Wolfcamp and Cisco SWD

Formation Tops

Morrow 9,600'-10,250'
 Atoka 9,230'- 9,700'
 Upper Wolfcamp 6,400' - 7,200'
 Abo 5,600' - 6,200'
 Yeso 3,300' 0 3,900'
 San Andres 2,000' - 2,800'
 Queen 1,450' - 1,650'

17-1/2" Hole
13-3/8", 68#, LTC, @ 472'
 Cmt'd w/450 Sx. Circ to surface

12-1/4" Hole
8-5/8", J55, 32#, STC, @ 2,589'
 Cmt'd w/900 Sx. Circ to surface

3-1/2", 9.3 #, N80, Injection tubing @ 6789'

5-1/2" IPC Packer @ 6,789'

WOLFCAMP (8/21/93)
 6,868' - 7,038'

WOLFCAMP (8/18/93)
 7,092' - 7,097'; 7,120' - 7,146'

WOLFCAMP (8/16/93)
 7,330' - 7,340'; 7,350' - 7,360'

SWD Perforations:
CISCO (8/1/93)
 7,685' - 7,695'

CISCO (7/30/93)
 7,760' - 7,768'

CISCO (7/28/93)
 7,790' - 7,798'

CISCO (7/25/93)
 7,932' - 7,940'

CISCO (7/22/93)
 8,034' - 8,042'
 8,055' - 8,060'

Frac 7758'-7840' with 4500 gals 15% Spearhead acid and 119,255 gals Spectra Star 2500 + 106,750 # 100% 20/40 White sand.

Frac 7893'-8060' with 5040 gals 15% HCl acid and 120,372 gals Spectra Star 2500 + 167,552 # 100% 20/40 White sand.

35' cement. 9,005' PBD
CIBP @ 9,040' (7/21/93)

4" Liner top @ 9,055'

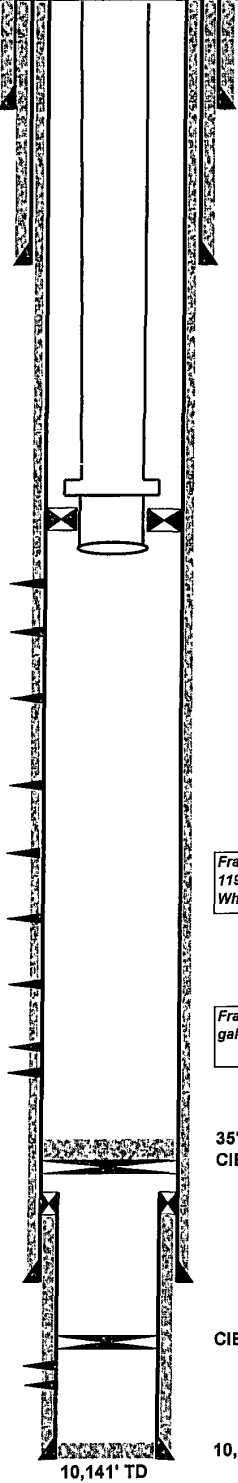
7-7/8" Hole
5-1/2", N80, 17#, LTC, @ 9,473'
 Cmt'd w/430 Sx

CIBP @ 9,950' (7/19/93)

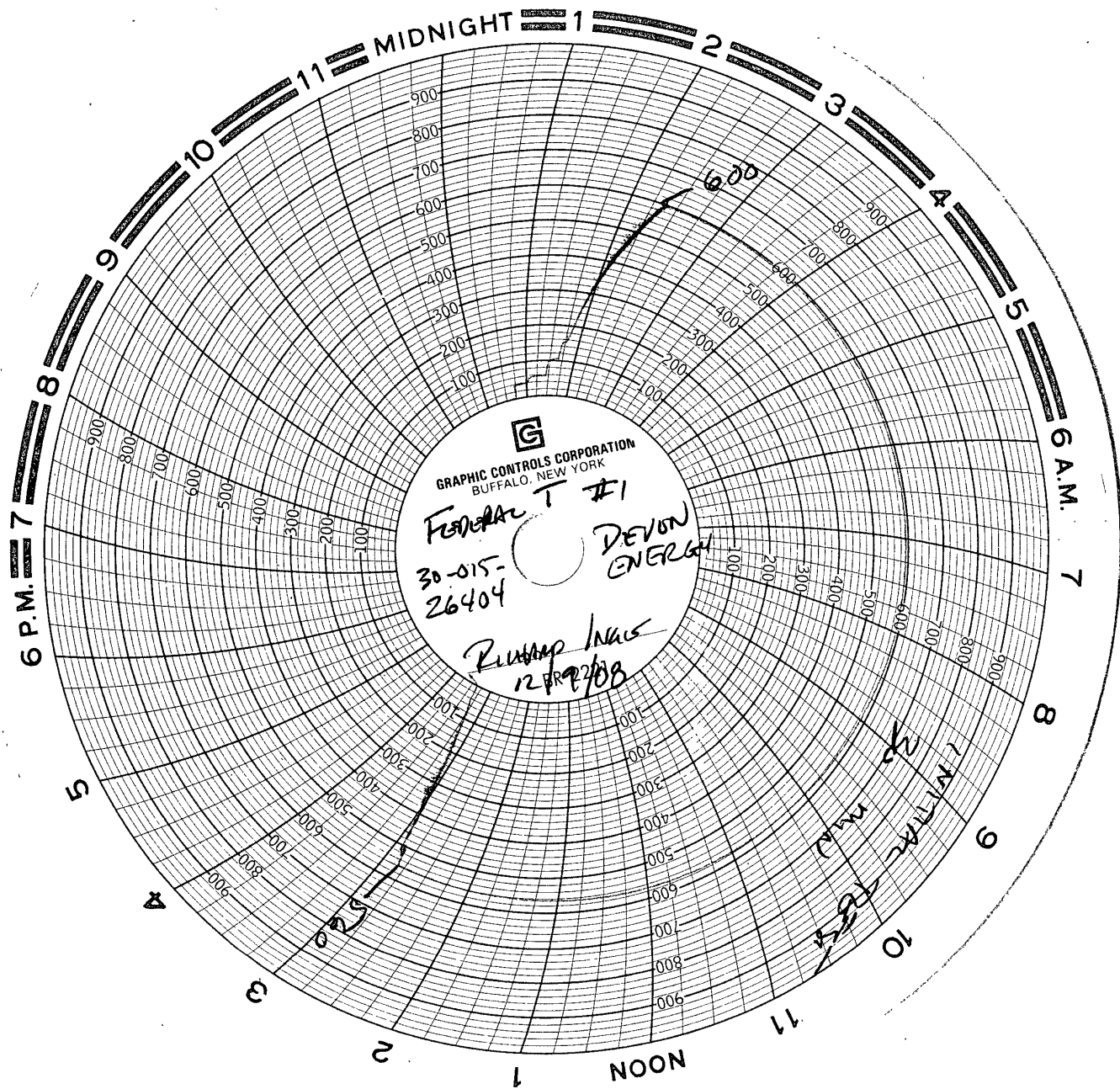
MORROW (9/14/90)
 10,008' - 10,014'
 10,038' - 10,054'

4-3/4" Hole
4" 10.46#, L80 Liner @ 9,055' - 10,141'
 Cmt'd w/80 Sx

10,100' PBD



10,141' TD



G
 GRAPHIC CONTROLS CORPORATION
 BUFFALO, NEW YORK

FEDERAL T #1
 30-015-
 26404
 DEVON
 ENERGY

RUNNING IN
 12/12/08

SP
 11/11/08

District II
1301 W. Grand Ave., Artesia, NM 88210
Phone:(575) 748-1283 Fax:(575) 748-9720

Form C-145
Permit 124456

State of New Mexico
Energy, Minerals and Natural
Resources

Oil Conservation Division
1220 S. St Francis Dr.
Santa Fe, NM 87505

Change of Operator

Previous Operator Information

New Operator Information

Effective Date: Effective on the date of approval by the OCD

OGRID: 6137
Name: DEVON ENERGY PRODUCTION COMPANY, LP
Address: 20 N Broadway
City, State, Zip: Oklahoma City, OK 73102

OGRID: 277558
Name: LIME ROCK RESOURCES II-A, L.P.
Address: 1111 Bagby Street Suite 4600
City, State, Zip: Houston, TX 77002

I hereby certify that the rules of the Oil Conservation Division have been complied with and that the information on this form and the certified list of wells is true to the best of my knowledge and belief.

Additionally, by signing below, LIME ROCK RESOURCES II-A, L.P. certifies that it has read and understands the following synopsis of applicable rules.

Previous Operator

New Operator

Signature: [Signature]
Printed Name: David S. Frank
Title: David S. Frank - Attorney-in-Fact
Date: 12/09/2010 Phone: (405)-552-7881

Signature: [Signature]
Printed Name: C. Tim Miller
Title: Chief Operating Officer
Date: 12/17/10 Phone: 713 292 9514

NMOCD Approval
Electronic Signature: Randy Dade, District 2
Date: December 27, 2010

Lime Rock Resources II-A, L.P. assumes operation of the District 2 list effective 12/09/2010.

LIME ROCK RESOURCES II-A, L.P. certifies that all below-grade tanks constructed and installed prior to June 16, 2008 associated with the selected wells are in compliance with 19.15.17 NMAC, have been closed pursuant to 19.15.17.13 NMAC, or have been retrofitted to comply with Paragraphs (1) through (4) of Subsection I of 19.15.17.11 NMAC.

LIME ROCK RESOURCES II-A, L.P. understands that the OCD's approval of this operator change:

1. constitutes approval of the transfer of the permit for any permitted pit, below-grade tank or closed-loop system associated with the selected wells; and
2. constitutes approval of the transfer of any below-grade tanks constructed and installed prior to June 16, 2008 associated with the selected wells, regardless of whether the transferor has disclosed the existence of those below-grade tanks to the transferee or to the OCD, and regardless of whether the below-grade tanks are in compliance with 19.15.17 NMAC.

As the operator of record of wells in New Mexico, LIME ROCK RESOURCES II-A, L.P. agrees to the following statements:

1. I am responsible for ensuring that the wells and related facilities comply with applicable statutes and rules, and am responsible for all regulatory filings with the OCD. I am responsible for knowing all applicable statutes and rules, not just the rules referenced in this list. I understand that the OCD's rules are available on the OCD website under "Rules," and that the Water Quality Control Commission rules are available on the OCD website on the "Publications" page.
2. I understand that if I acquire wells from another operator, the OCD must approve the operator change before I begin operating those wells. See 19.15.9.9.B NMAC. I understand that if I acquire wells or facilities subject to a compliance order addressing inactive wells or environmental cleanup, before the OCD will approve the operator change it may require me to enter into an enforceable agreement to return those wells to compliance. See 19.15.9.9.C(2) NMAC.
3. I must file a monthly C-115 report showing production for each non-plugged well completion for which the OCD has approved an allowable and authorization to transport, and injection for each injection well. See 19.15.7.24 NMAC. I understand that the OCD may cancel my authority to transport from or inject into all the wells I operate if I fail to file C-115 reports. See 19.15.7.24.C NMAC.
4. I understand that New Mexico requires wells that have been inactive for certain time periods to be plugged or placed on approved temporary abandonment. See 19.15.25.8 NMAC. I understand the requirements for plugging and approved temporary abandonment in 19.15.25 NMAC. I understand that I can check my compliance with the basic requirements of 19.15.25.8 NMAC by using the "Inactive Well List" on OCD's website.
5. I must keep current with financial assurances for well plugging. I understand that New Mexico requires each state or fee well that has been inactive for more than two years and has not been plugged and released to be covered by a single-well financial assurance, even if the well is also covered by a blanket financial assurance and even if the well is on approved temporary abandonment status. See 19.15.8.9.C NMAC. I understand that I can check my compliance with the single-well financial assurance requirement by using the "Inactive Well Additional Financial Assurance Report" on the OCD's website.
6. I am responsible for reporting releases as defined by 19.15.29 NMAC. I understand the OCD will look to me as the operator of record to take corrective action for releases at my wells and related facilities, including releases that occurred before I became operator of record.
7. I have read 19.15.5.9 NMAC, commonly known as "Part 5.9," and understand that to be in compliance with its requirements I must have the appropriate financial assurances in place, comply with orders requiring corrective action, pay penalties assessed by the courts or agreed to by me in a settlement agreement, and not have too many wells out of compliance with the inactive well rule (19.15.25.8 NMAC). If I am in violation of Part 5.9, I may not be allowed to drill, acquire or produce any additional wells, and will not be able to obtain any new injection permits. See 19.15.16.19 NMAC, 19.15.26.8 NMAC, 19.15.9.9 NMAC and 19.15.14.10 NMAC. If I am in violation of Part 5.9 the OCD may, after notice and hearing, revoke my existing injection permits. See 19.15.26.8 NMAC.
8. For injection wells, I understand that I must report injection on my monthly C-115 report and must operate my wells in compliance with 19.15.26 NMAC and the terms of my injection permit. I understand that I must conduct mechanical integrity tests on my injection wells at least once every five years. See

- 19.15.26.11 NMAC. I understand that when there is a continuous one-year period of non-injection into all wells in an injection or storage project or into a saltwater disposal well or special purpose injection well, authority for that injection automatically terminates. See 19.15.26.12 NMAC. I understand that if I transfer operation of an injection well to another operator, the OCD must approve the transfer of authority to inject, and the OCD may require me to demonstrate the well's mechanical integrity prior to approving that transfer. See 19.15.26.15 NMAC.
9. I am responsible for providing the OCD with my current address of record and emergency contact information, and I am responsible for updating that information when it changes. See 19.15.9.8.C NMAC. I understand that I can update that information on the OCD's website under "Electronic Permitting."
 10. If I transfer well operations to another operator, the OCD must approve the change before the new operator can begin operations. See 19.15.9.9.B NMAC. I remain responsible for the wells and related facilities and all related regulatory filings until the OCD approves the operator change. I understand that the transfer will not relieve me of responsibility or liability for any act or omission which occurred while I operated the wells and related facilities.

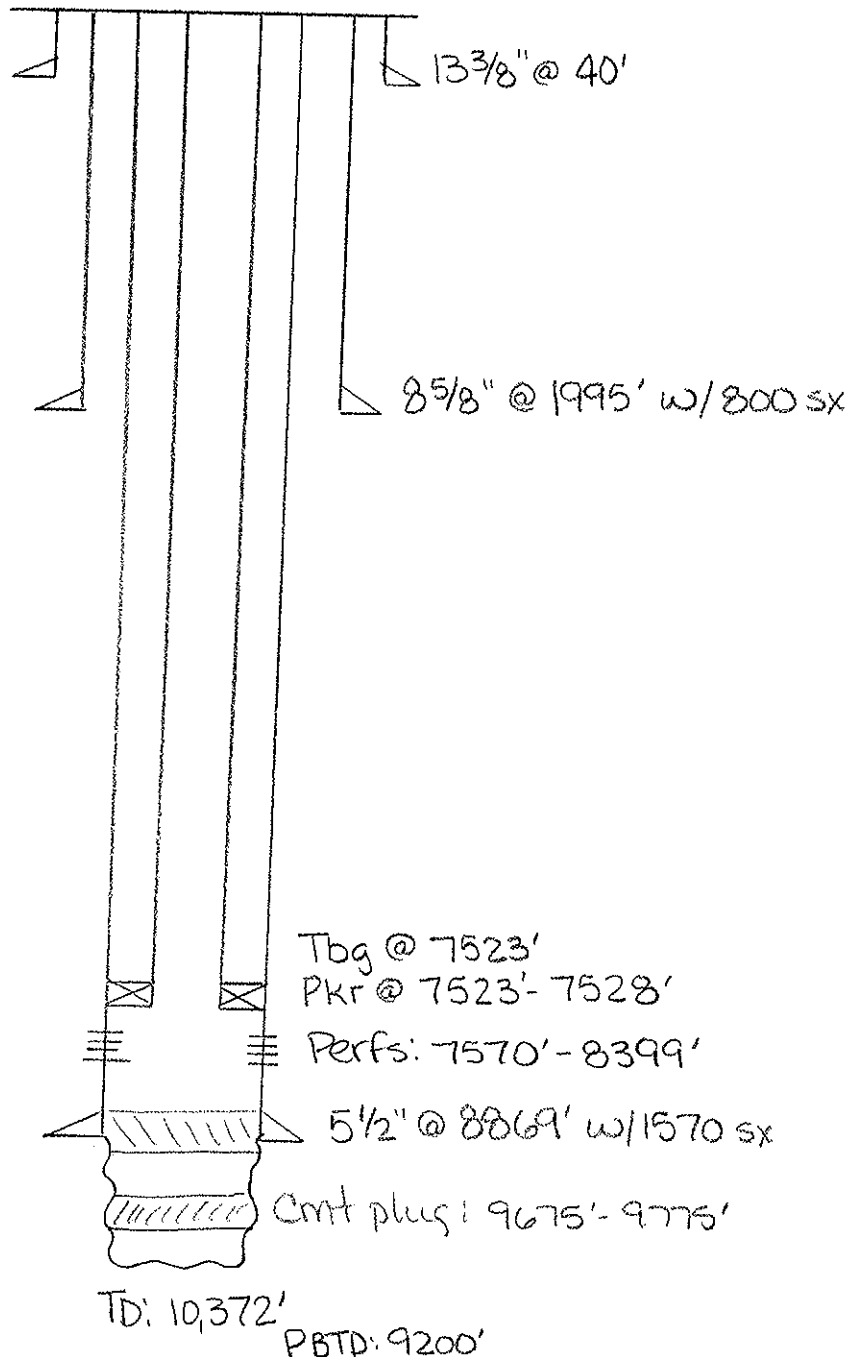
SUBSURFACE

NAVAJO REFINING COMPANY
Map ID No. 11
Artificial Penetration Review

OPERATOR Navajo Refining Co.
LEASE WDW
WELL NUMBER 2
DRILLED 5-05-99
PLUGGED NA

STATUS Active Injection
LOCATION Sec. 12 -T18S-R27E
MUD FILLED BOREHOLE NA
TOP OF INJECTION ZONE 7270'
API NO. 30-015-20894

REMARKS: Top of Cement behind 5 1/2" @ surface



50-015-2089

DAVID 15694

PROP 23592

POOL 96918

Navajo (Injecting) Permo-Penn





Oxford

STOCK No. 773½

9-26-85

COMPENSATED NEUTRON
GAMMA RAY

SURF-1768

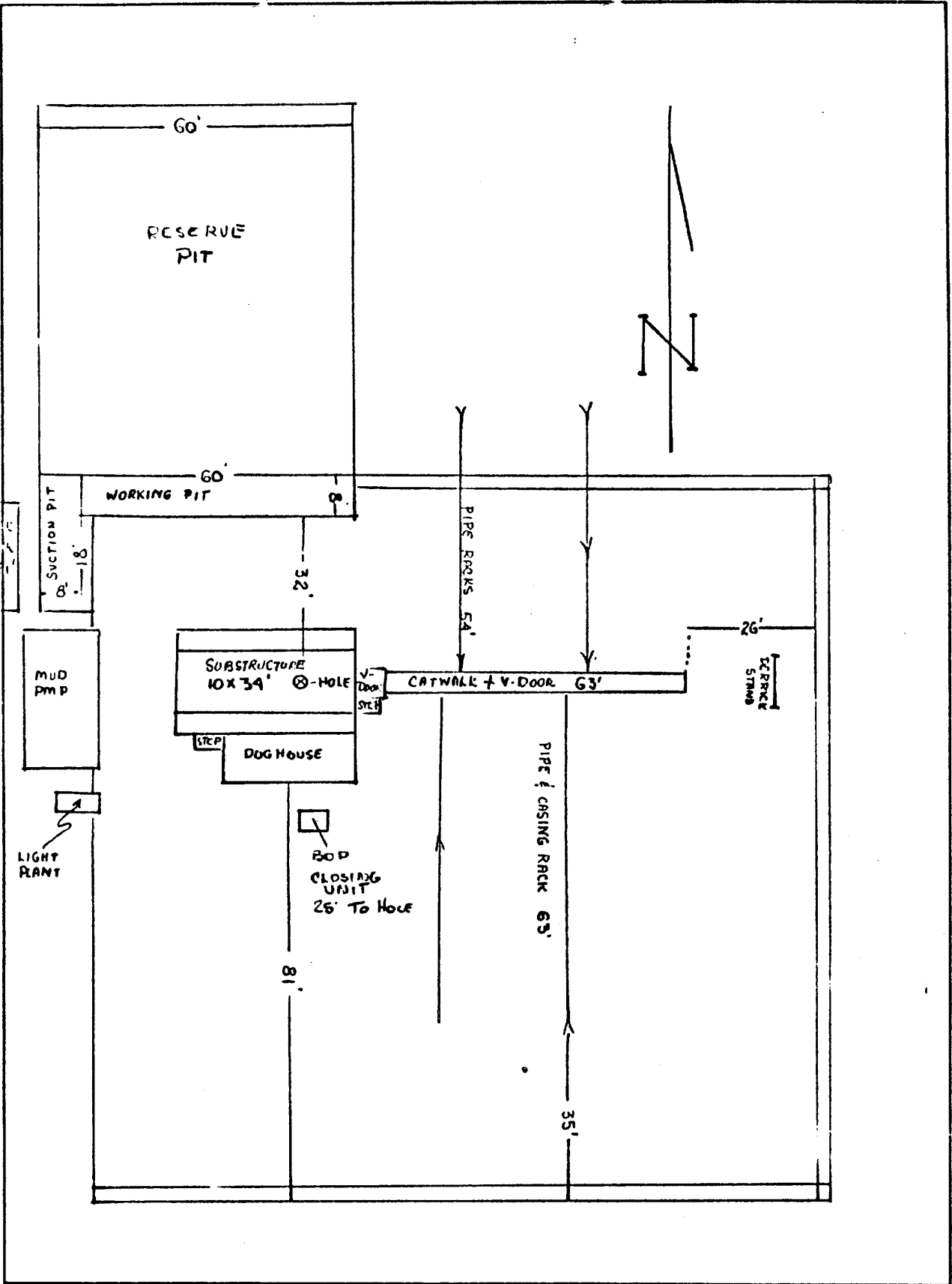
5-13-99

MSG GAMMA COLLAR
CBL LOG

SURF-1910'

8127

WATER TANK 12' X 21'



Amoco Production Company

SCALE:

GENERAL RIG LAYOUT

DRG. NO.

- 1. Existing wells - This Plat
- 2. Planned Access Roads - This plat
- 3. Location of Wells - This Plat
- 4. Lateral Roads to well Location - This Plat
- 5. Location of Tank Battery & Flow Lines - To be at well loc.
- 6. Location & Types of Water - To be trucked
- 7. Methods for Handling Waste Disposal - In suitable containers and pits on location.
- 8. Camps - None
- 9. Air Strips - None
- 10. Pig layout - See Attached
- 11. Make location cleanup in accordance with good operating practice and if P&A clean & level location around well.
- 12. None
- 13. There are no houses, buildings, and windmills within 1/4 mile of the location

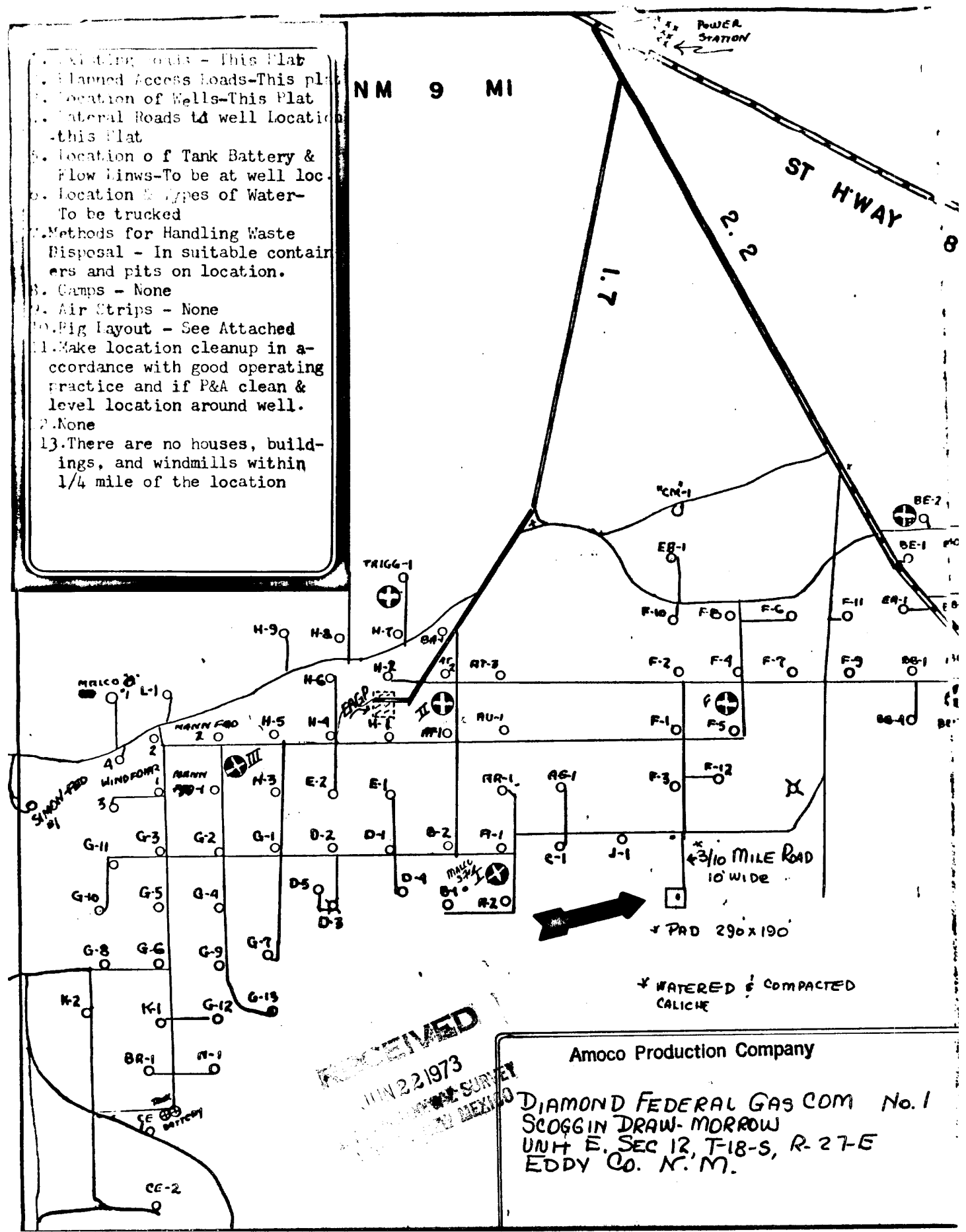
NM 9 MI

POWER STATION

ST HWAY 8

1.7

2.2

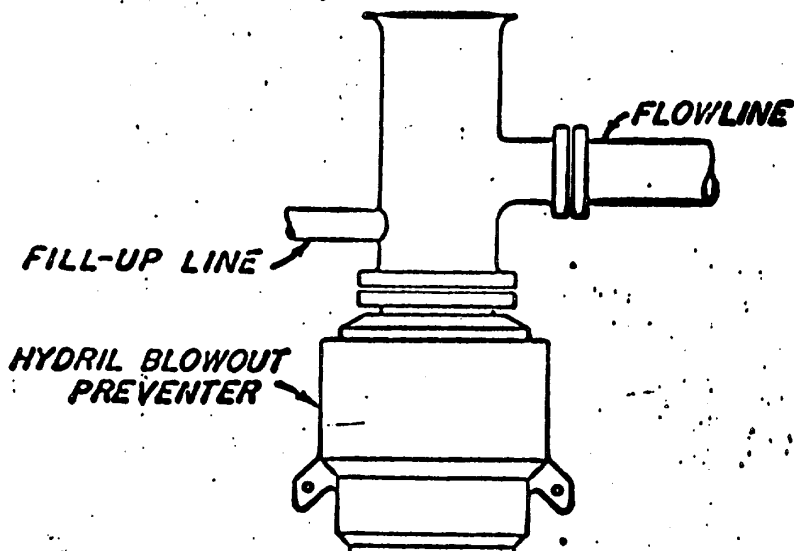


RECEIVED
JUN 22 1973
SURVEY

Amoco Production Company
DIAMOND FEDERAL GAS COM No. 1
SCOGGIN DRAW - MORROW
UNIT E, SEC 12, T-18-S, R-27-E
EDDY CO. N. M.

BLOWOUT PREVENTER HOOK-UP FOR DRILLING BELOW INTERMEDIATE CASING

1. BLOWOUT PREVENTERS AND MASTER VALVE TO BE FLUID OPERATED AND ALL FITTINGS MUST BE IN GOOD CONDITION (MINIMUM: WP - 3000 PSI, TEST - 6000 PSI).
2. EQUIPMENT THROUGH WHICH BIT MUST PASS SHALL BE AS LARGE AS THE INSIDE DIAMETER OF CASING THAT IS BEING DRILLED THROUGH.
3. KELLY COCK REQUIRED (MINIMUM: 3000 PSI WP, 6000 PSI TEST)
4. OMSCO OR COMPARABLE SAFETY VALVE MUST BE AVAILABLE ON RIG FLOOR AT ALL TIMES WITH PROPER CONNECTION OR SUB. (MINIMUM: 3000 PSI WP, 6000 PSI TEST)



WELL LOG AND PLAT AREA DEDICATION

AMOCO PRODUCTION COMPANY

DIAMOND *Federal Gas Com*

1

12 SOUTH

27 EAST

EDDY

1930

NORTH

660

WEST

36°6.9'

MORROW

SCOGGIN DRAW MORROW (Fca)

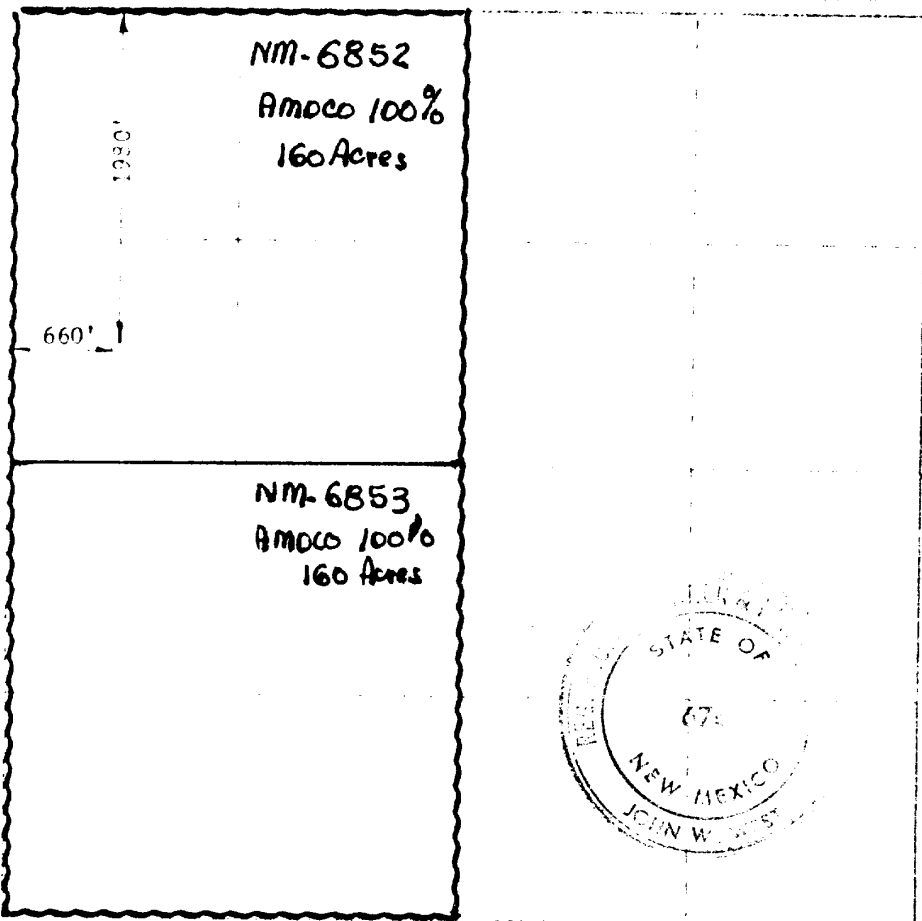
320

1. Outline the acreage dedicated to the subject well by a closed pencil or hatchure marks on the plat below.
2. If there are two or more acres dedicated to the well outline each and identify the ownership thereof by name and percentage interest or fractional.
3. If there are two or more acres of different ownership made to be dedicated to the well, have the interests of all owners consolidated into one communication, unitized and later pooled, are?

Yes No If answer is "Yes" type of consolidation _____

10. List the owners and tract descriptions which have actually been consolidated. List the acreage and percentage interest of each owner.

11. The area will be utilized for the well until all interests have been consolidated. The communication, unitization and pooling agreement shall remain in effect until a non-standard well eliminating such interests has been approved by the land owner.



J. E. York
AREA ENGINEER

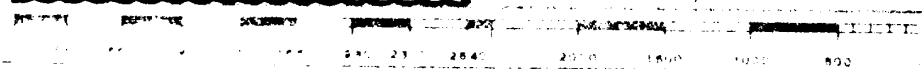
Amoco Production Company

JUN 21 1973

I hereby certify that the information shown on this plat is true and correct under my supervision and to the best of my knowledge and belief.

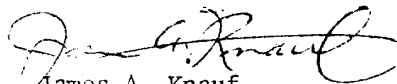
JUNE 20, 1973

John W. West



drilling into the Wolfcamp formation
and used until production casing is run and cemented. Monitoring
equipment shall consist of the following:

- (1) A recording pit level indicator to determine pit volume gains and losses.
 - (2) A mud volume measuring device for accurately determining mud volume necessary to fill the hole on trips.
 - (3) A flow sensor on the flow-line to warn of any abnormal mud returns from the well.
6. When coming out of the hole with drill pipe, the annulus shall be filled with mud before the mud level drops below 150 feet. The volume of mud required to fill the hole shall be watched, and any time there is an indication of swabbing, or influx of formation fluids, proper blowout prevention precautions must be taken. The mud shall not be circulated and conditioned except on or near bottom, unless well conditions prevent running the pipe to bottom.
7. A copy of these requirements shall be posted on the rig floor or in the dog house during the drilling of the well.


James A. Knauf
District Engineer

Lease No. NM-6852
Well Amoco Production Co. 1-Diamond Federal Gas Com.
Drillsite 1980/N 660/W 12-18S-27E
Depth 10,000' Morrow
Approved July 6, 1973



United States Department of the Interior

GEOLOGICAL SURVEY

P. O. Drawer U
Artesia, New Mexico 88210

June 22, 1973

NOTICE

DRILLING WELL CONTROL REQUIREMENTS FOR DEEP WELLS DRILLED ON FEDERAL OIL AND GAS LEASES IN THE ARTESIA DISTRICT

The following requirements are established in accordance with 30 CFR 221.24, 221.36, and 221.37. Blowout preventer equipment, choke equipment, drilling fluid characteristics, drilling fluid monitors, and the conduct of drilling procedures shall be such as are necessary to prevent the blowout of any well. In addition to all other applicable rules, regulations, and accepted good operating practices, drilling shall be in accordance with the following safety requirements:

1. After setting the 8-5/8 inch casing string and before drilling into the Wolfcamp formation, the blowout preventers and related control equipment shall be pressure tested to rated working pressures by an independent service company. Any equipment failing to test satisfactorily shall be repaired or replaced. This office should be notified in sufficient time for a representative to witness the tests and shall be furnished a copy of the pressure test report. In addition, the pipe rams and bag-type preventer shall be actuated at least once each 24 hours and the blind rams each time the drill pipe is out of the hole.
2. Accumulators shall maintain a pressure capacity reserve at all times to provide for repeated operation of hydraulic preventers.
3. A drill string safety valve in the open position shall be maintained on the rig floor at all times while drilling operations are being conducted.
4. Blowout prevention drills shall be conducted as necessary to insure that each drilling crew is properly trained to carry out emergency duties.
5. Mud system monitoring equipment, with derrick floor indicators and visual and audio alarms, shall be installed and operating before

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

30-015-20894

5. LEASE DESIGNATION AND SERIAL NO.
NM-6852

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME
DIAMOND FEDERAL GAS CO

8. FARM OR LEASE NAME

9. WELL NO.
1

10. FIELD AND POOL, OR WILDCAT
SCOGGIN DRAW-MORROW

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA
12-18-27 NMPM

12. COUNTY OR PARISH
EDDY

13. STATE
N.M.

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. TYPE OF WORK
DRILL DEEPEN PLUG BACK

b. TYPE OF WELL
OIL WELL GAS WELL OTHER

2. NAME OF OPERATOR
Amoco Production Company

3. ADDRESS OF OPERATOR
BOX 68, HOBBS, N. M. 88240

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.)
At surface
1980 FNLy 660' FNL Sec. 12 (Unit E, SE 1/4 NW 1/4)
At proposed prod. zone

ARTESIA, OFFICE

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE*

15. DISTANCE FROM PROPOSED* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drig. unit line, if any)

16. NO. OF ACRES IN LEASE

17. NO. OF ACRES ASSIGNED TO THIS WELL
320

18. DISTANCE FROM PROPOSED LOCATION* TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT.

19. PROPOSED DEPTH
10,000

20. ROTARY OR CABLE TOOLS
Rotary

21. ELEVATIONS (Show whether DF, RT, GR, etc.)
3607' GL

22. APPROX. DATE WORK WILL START*
7-1-73

23. PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
11"	8 5/8"	32 24"	1000'	Disc.
7 7/8"	4 1/2"	9.5-11.6"	10000'	SUFFICIENT TO FILL 500' ABOVE UPPERMOST PAY.

After drilling well logs will be run and evaluations made, perforating and/or stimulating as necessary in attempting commercial production.

BOP program attached.

Mud Program:
0-1000' Native mud & water
1000-9000' min. quality low solids gel for satisfactory operations & samples.

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen or plug back, give data on present productive zone and proposed new productive zone. If proposal is to drill or deepen directionally, give pertinent data on subsurface locations and measured and true vertical depths. Give blowout preventer program, if any.

24. SIGNED J. E. York TITLE AREA ENGINEER DATE JUN 21 1973

PERMIT NO. _____ APPROVAL DATE JUL 6 1973

APPROVED BY [Signature] TITLE DISTRICT ENGINEER DATE JUL 6 1973

CONDITIONS OF APPROVAL, IF ANY

4 or 5. USGS-Per Subject to attached "Notice" dated 6-22-73 See Instructions On Reverse Side

1- Div
1- SVSP
1- RRY
1- ARCO

Copy to SF

RECEIVED

JUL 10 1973

O. C. C.
ARTESIA, OFFICE

P. O. Drawer U
Artesia, New Mexico 88210

July 9, 1973

Mr. Jim York
Amoco Production Company
Post Office Box 68
Hobbs, New Mexico 88240

Dear Mr. York:

This is to confirm my telephone conversation with you today whereby we requested that the 8-5/8-inch casing string be set in the top of the San Andres formation (approximately 2,000 feet below the surface) in your No. 1 Diamond Federal Gas Com. well on lease MM-6852 in the SW $\frac{1}{4}$ sec. 12, T. 18 S., R. 27 E., N.M.P.M., Eddy County, New Mexico.

Sincerely yours,

(Sgd.) JAMES A. KNAUF

James A. Knauf
District Engineer

cc:
Roswell
N.M.O.C.C. (2) ✓

RECEIVED

JUL 10 1973

O. C. C.
ARTESIA, OFFICE

1. The first part of the document discusses the importance of maintaining accurate records of all transactions and activities. It emphasizes the need for transparency and accountability in financial reporting.

2. The second part of the document outlines the various methods and techniques used to collect and analyze data. It includes a detailed description of the experimental procedures and the tools used for data collection.

3. The third part of the document presents the results of the study, including a comparison of the different methods and techniques used. It discusses the strengths and weaknesses of each approach and provides a summary of the findings.

4. The fourth part of the document discusses the implications of the study and the potential applications of the findings. It highlights the need for further research in this area and provides a list of references for further reading.

CONCLUSION

The study has shown that the use of accurate records and transparent reporting is essential for maintaining financial integrity and accountability. The findings suggest that the use of multiple methods and techniques can provide a more comprehensive understanding of the data and its implications.

5. The fifth part of the document discusses the limitations of the study and the need for further research. It highlights the need for more data and more sophisticated analysis techniques to fully understand the implications of the findings.

6. The sixth part of the document provides a list of references for further reading. It includes a list of books, articles, and other sources that are relevant to the study and its findings.

7. The seventh part of the document provides a list of references for further reading. It includes a list of books, articles, and other sources that are relevant to the study and its findings.

Copy 631

U.S. G.S. FORM 100-100 (1-67)

N. M. O. C. C. COPY
UNITED STATES DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

EP. 100-100 (1-67) 42 R1424
LEASE NO. AT SERIAL NO.
NM 6952
IF INDIAN ALLOTMENT, TRIBAL NAME

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir. Use "APPLICATION FOR PERMIT" for such proposals.)

1. TYPE OF WELL: GAS OIL OTHER DRILLING RECEIVED
2. NAME OF OPERATOR: Amoco Production Company
3. ADDRESS OF OPERATOR: BOX 68, HOBBS, N. M. 88240
4. LOCATION OF WELL: 1980' FNL x 660' FWL SEC. 12 (UNIT E, SE/4 NW/4)
14. PERMIT NO.:
15. ELEVATIONS: 3607' GL, 3623' R.D.B.

7. UNIT AGREEMENT NAME: DIAMOND FED. GAS CDM
8. FARM OR LEASE NAME:
9. WELL NO.:
10. FIELD AND POOL, OR WILDCAT: SCOGGIN DRAW-NORROW
11. SEC., T., R., M., OR BLM. AND SURVEY OR AREA: 12-18-27-NMPPM
12. COUNTY OR PARISH: EDDY
13. STATE: N.M.

16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:		SUBSEQUENT REPORT OF:	
TEST WATER SHUT-OFF <input type="checkbox"/>	PULL OR ALTER CASING <input type="checkbox"/>	WATER SHUT-OFF <input checked="" type="checkbox"/>	REPAIRING WELL <input type="checkbox"/>
FRACTURE TREAT <input type="checkbox"/>	MULTIPLE COMPLETE <input type="checkbox"/>	FRACTURE TREATMENT <input type="checkbox"/>	ALTERING CASING <input type="checkbox"/>
SHOOT OR ACIDIZE <input type="checkbox"/>	ABANDON* <input type="checkbox"/>	SHOOTING OR ACIDIZING <input type="checkbox"/>	ABANDONMENT* <input type="checkbox"/>
REPAIR WELL <input type="checkbox"/>	CHANGE PLANS <input type="checkbox"/>	(Other) <i>Spudding</i> <input checked="" type="checkbox"/>	

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)

Delta Drilg Co. spudded 11" hole 3: PM 7-18-73.
On 7-22-73, 8 7/8" OD 32" BR K-55 Casing was set @ 1955 w/ 7005x Incon 2% Gel + 100 ps meat. Circ. 200 Sx. Syster W02 18 hours, tested casing w/ 500 ps, for 30 min. Syst O.K.
Reduced hole to 7 7/8" @ 1955 and resumed drilling.

RECEIVED
JUL 24 1973
U. S. GEOLOGICAL SURVEY
ARTESIA, NEW MEXICO

18. I hereby certify that the foregoing is true and correct
SIGNED: *[Signature]* TITLE: ADMINISTRATIVE ASSISTANT DATE: JUL 23 1973

APPROVED: **APPROVED!**
CONDITIONS OF APPROVAL, IF ANY:
JUL 24 1973
H. L. BEEKMAN
ACTING DISTRICT ENGINEER *See Instructions on Reverse Side

- 04 4-11SGS-ABT
- 1-DIV
- 1-SUSP
- 1-RKV
- 1-ARCO

RECEIVED

AUG 1 1973

B. D. C.
ARTESIA

Drawer 1857
Roswell, New Mexico 88201

July 24, 1973

Amoco Production Company
Attention: Mr. Joe W. Durkee
P. O. Box 3092
Houston, Texas 77001

Gentlemen:

Enclosed are three approved copies of communitization agreement No. Com. Agr.-SW-760 involving 320 acres of land in Federal leases New Mexico 6852 and 6853, Eddy County, New Mexico.

The agreement communitizes all rights as to dry gas and associated liquid hydrocarbons producible from the Morrow formation in the $\frac{1}{4}$ sec. 12, T. 18 S., R. 27 E., N.M.P.M., and is effective as of June 20, 1973.

You are requested to furnish all interested principals with appropriate evidence of this approval.

Sincerely yours,

CARL C. TRAYWICK
Acting Area Oil and Gas Supervisor

cc:
BLM, Santa Fe (w/cy agr.)
Artesia (w/cy agr.)
Rondeau

JMonro:lb

RECEIVED

JUL 26 1973

U. S. GEOLOGICAL SURVEY
ARTESIA, NEW MEXICO

N. M. D. C. C. CORY

Copy 6 SF

Form 9-330 (Rev. 5-63)

UNITED STATES DEPARTMENT OF THE INTERIOR GEOLOGICAL SURVEY

SUBMIT IN DUPLICATE*

(See other instructions on reverse side)

Form approved. Budget Bureau No. 42-R355.5.

5. LEASE DESIGNATION AND SERIAL NO.

NM-6852

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

DIAMOND FED. GAS COM

8. FARM OR LEASE NAME

WELL COMPLETION OR RECOMPLETION REPORT AND LOG*

1a. TYPE OF WELL: OIL WELL [] GAS WELL [] DRY [X] Other []

b. TYPE OF COMPLETION: NEW WELL [] WORK OVER [] DEEP-EN [] PLUG BACK [] DIFF. RESVR. [] Other [] RECEIVED

2. NAME OF OPERATOR Amoco Production Company SEP 24 1973

3. ADDRESS OF OPERATOR BOX 68, HOBBS, N. M. 88240

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements) At surface 1980 FNL x 660 FWL Sec 12. (Unit F, SE 1/4 NW 1/4) At top prod. interval reported below At total depth

10. FIELD AND POOL, OR WILDCAT

SCOGGIN DRAW-MORROW

11. SEC. T. R. M., OR BLOCK AND SURVEY OR AREA

12-18-27 NMPM

12. COUNTY OR PARISH

EDDY

13. STATE

N.M.

15. DATE SPUDDED 7-18-73 16. DATE T.D. REACHED 8-27-73 17. DATE COMPL. (Ready to prod.) P&A 18. ELEVATIONS (DF, RKB, RT, GR, ETC.)* 3623' RDB 19. ELEV. CASINGHEAD -

20. TOTAL DEPTH, MD & TVD 10.372 21. PLUG, BACK T.D., MD & TVD P+A 22. IF MULTIPLE COMPL., HOW MANY* - 23. INTERVALS DRILLED BY - 24. PRODUCING INTERVAL(S), OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD)* NONE 25. WAS DIRECTIONAL SURVEY MADE No

26. TYPE ELECTRIC AND OTHER LOGS RUN GR-N - DUAL IND LL 27. WAS WELL CORED No

Table with 6 columns: CASING SIZE, WEIGHT, LB./FT., DEPTH SET (MD), HOLE SIZE, CEMENTING RECORD, AMOUNT PULLED. Values: 8 7/8, 32#, 1955, 11", 800 SX, NONE

Table with 8 columns: SIZE, TOP (MD), BOTTOM (MD), SACKS CEMENT*, SCREEN (MD), SIZE, DEPTH SET (MD), PACKER SET (MD). All fields are empty.

Table with 2 columns: PERFORATION RECORD (Interval, size and number) and ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC. (DEPTH INTERVAL (MD), AMOUNT AND KIND OF MATERIAL USED). All fields are empty.

Table with 4 columns: DATE FIRST PRODUCTION, PRODUCTION METHOD, WELL STATUS, DATE OF TEST, HOURS TESTED, CHOKE SIZE, PROD'N. FOR TEST PERIOD, OIL-BBL., GAS-MCF. Includes 'RECEIVED' stamp and date 'SEP 19 1973'.

34. DISPOSITION OF GAS (Sold, used for fuel, vented, etc.)

35. LIST OF ATTACHMENTS

36. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records. SIGNED [Signature] TITLE ADMINISTRATIVE ASSISTANT DATE 9-10-73

03- USGS- Art 1- W 7 1- DIV 1- RRY

(See Instructions and Spaces for Additional Data on Reverse Side)

INSTRUCTIONS

General: This form is designed for submitting a complete and correct well completion report and log on all types of lands and leases to either a Federal agency or a State agency, or both, pursuant to applicable Federal and/or State laws and regulations. Any necessary special instructions concerning the use of this form and the number of copies to be submitted, particularly with regard to local, area, or regional procedures and practices, either are shown below or will be issued by, or may be obtained from, the local Federal and/or State office. See instructions on items 23 and 24, and 33, below regarding separate reports for separate completions.

If not filed prior to the time this summary record is submitted, copies of all currently available logs (drillers, geologists, sample and core analysis, all types electric, etc.), formation and pressure tests, and directional surveys, should be attached hereto, to the extent required by applicable Federal and/or State laws and regulations. All attachments should be listed on this form, see item 35.

Item 4: If there are no applicable State requirements, locations on Federal or Indian land should be described in accordance with Federal requirements. Consult local State or Federal office for specific instructions.

Item 16: Indicate which elevation is used as reference (where not otherwise shown) for depth measurements given in other spaces on this form and in any attachments. **Items 22 and 24:** If this well is completed for separate production from more than one interval zone (multiple completion), so state in item 22, and in item 24 show the producing interval, or intervals, top(s), bottom(s) and name(s) (if any) for only the interval reported in item 33. Submit a separate report (page) on this form, adequately identified, for each additional interval to be separately produced, showing the additional data pertinent to such interval.

Item 29: "Sacks Cement": Attached supplemental records for this well should show the details of any multiple stage cementing and the location of the cementing tool.

Item 33: Submit a separate completion report on this form for each interval to be separately produced. (See instruction for items 22 and 24 above.)

FORMATION	TOP	BOTTOM	DESCRIPTION, CONTENTS, ETC.																											
			NO OIL OR GAS																											
38. GEOLOGIC MARKERS																														
			<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 30%;">NAME</th> <th style="width: 30%;">MEAS. DEPTH</th> <th style="width: 40%;">TOP TRUE VERT. DEPTH</th> </tr> </thead> <tbody> <tr> <td>T ABO</td> <td>5 506</td> <td></td> </tr> <tr> <td>T WOLF CAMP</td> <td>6 728</td> <td></td> </tr> <tr> <td>T CISCO</td> <td>7 485</td> <td></td> </tr> <tr> <td>T STEWART</td> <td>8 820</td> <td></td> </tr> <tr> <td>T ATOKA</td> <td>9 460</td> <td></td> </tr> <tr> <td>T MORROW</td> <td>9 725</td> <td></td> </tr> <tr> <td>T CHESTER</td> <td>10 158</td> <td></td> </tr> <tr> <td>T Miss Lm</td> <td>10 338</td> <td></td> </tr> </tbody> </table>	NAME	MEAS. DEPTH	TOP TRUE VERT. DEPTH	T ABO	5 506		T WOLF CAMP	6 728		T CISCO	7 485		T STEWART	8 820		T ATOKA	9 460		T MORROW	9 725		T CHESTER	10 158		T Miss Lm	10 338	
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T Miss Lm	10 338																													

Form approved
 by the Board on 12/21/71
 5. LEASE DESIGNATION AND SERIAL NO.
NM-6602
 6. IF INDIAN, ALLOTTEE'S FULL NAME

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or to deepen or plug back to a different reservoir.
 Use "APPLICATION FOR PERMIT-" for such proposals.)

1. NAME OF OPERATOR
 GAS WELL OTHER **DRILLING- DRY HOLE**
Amoco Production Company

7. UNIT AND WELL NO.
DIAMOND FEDERAL CO. M
 8. FARM OR OTHER NAME

2. ADDRESS OF OPERATOR
BOX 68, HOBBS, N. M. 88240

3. DATE OF WELL (Report location clearly and in accordance with any State requirements.*
 See also space 17 below.)
 At surface
1980 FNLx 660 FWL Sec. 12 (Unit E, SE/4 NW/4)

9. WELL NO.
1

10. FIELD AND POOL OR FIELD CAT
SCOGGIN DRY MUDROW

11. SEC., T., R., S., OR BLM. AND SURVEY OR AREA
12-18-27 NMMPM

12. COUNTY OR PARISH 13. STATE
EDDY N.M.

14. PERMIT NO. 15. ELEVATIONS (Show whether DF, RT, OR, etc.)
3623 R.D.B.

Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:		SUBSEQUENT REPORT OF:	
WATER SHUT-OFF <input type="checkbox"/>	PULL OR ALTER CASING <input type="checkbox"/>	WATER SHUT-OFF <input type="checkbox"/>	REPAIRING WELL <input type="checkbox"/>
FRACTURE TREAT <input type="checkbox"/>	MULTIPLE COMPLETE <input type="checkbox"/>	FRACTURE TREATMENT <input type="checkbox"/>	ALTERING CASING <input type="checkbox"/>
SHOOT OR ACIDIZE <input type="checkbox"/>	ABANDON* <input checked="" type="checkbox"/>	SHOOTING OR ACIDIZING <input type="checkbox"/>	ABANDONMENT* <input type="checkbox"/>
REPAIR WELL <input type="checkbox"/>	CHANGE PLANS <input type="checkbox"/>	(Other) <input type="checkbox"/>	

(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log Form.)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

Drilled to a TD of 10,372' without encountering oil or Gas. Logs and evaluations confirmed Dry Hole.

* Propose to P+A as follows: Cement Plugs - Class H

INTERVAL	LENGTH	FORMATION	SX CEMENT
9775-9675'	100'	Mudrow	45
7535-7435'	100'	BISCO	50
5556-5456'	100'	ABO	40
3720-3620'	100'	YESO	50
2045-1945'	100'	8 7/8" CSA 1995	40
Surface	10-20'	Erect P+A marker	10 SX

*All intervals to be filled w/ Arly mud.
 Location to be cleaned & leveled.*

RECEIVED
 SEP-4 1973
 U. S. GEOLOGICAL SURVEY
 ARTESIA, NEW MEXICO

* Pursuant to Mr. Leon Bukmans verbal approval 8-25-73.

I hereby certify that the foregoing is true and correct

SIGNED _____ TITLE **AREA ENGINEER** DATE **AUG 31 1973**

(This space for Federal or State office use)

APPROVED BY _____ TITLE _____ DATE _____

CONDITIONS OF APPROVAL (PRINT):

APPROVED
 SEP 11 1973
 H. L. BEEKMAN
 ACTING DISTRICT ENGINEER *See Instructions on Reverse Side

0 + 4 USGS-Art
 1- DIV
 1- JSP
 1- RRV
 1- ARCO

UN I T E D STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

N. M. O. C. C. CO.
SUBMIT IN TRIPLI
(Other instructions
verse side)

Form approved
Bureau No. 42 R1424.

5. LEASE DESIGNATION AND SERIAL NO.

NM-6852

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir.
Use "APPLICATION FOR PERMIT—" for such proposals.)

1. OIL WELL GAS WELL OTHER **DRY HOLE**

RECEIVED

2. NAME OF OPERATOR
Amoco Production Company ✓

SEP - 6 1974

7. UNIT AGREEMENT NAME

DIAMOND FED. GAS CO. M

3. ADDRESS OF OPERATOR
BOX 68, HOBBS, N. M. 88240

O. C. C.

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.
See also space 17 below.)
At surface

1980' FNLY 660' FWL Sec. 12 (UNIT E, SE 1/4 NW 1/4)

10. FIELD AND POOL, OR WILDCAT

SCOGGIN DRAW MORROW

11. SEC. T., R., M., OR BLK. AND SURVEY OR AREA

12-18-27 NMPM

14. PERMIT NO.

15. ELEVATIONS (Show whether DF, RT, OR, etc.)

3623' R.D. B.

12. COUNTY OR PARISH

EDDY

18. STATE

NM

16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:

- TEST WATER SHUT-OFF
- FRACTURE TREAT
- SHOOT OR ACIDIZE
- REPAIR WELL
- (Other)
- PULL OR ALTER CASING
- MULTIPLE COMPLETE
- ABANDON*
- CHANGE PLANS

SUBSEQUENT REPORT OF:

- WATER SHUT-OFF
- FRACTURE TREATMENT
- SHOOTING OR ACIDIZING
- (Other)
- REPAIRING WELL
- ALTERING CASING
- ABANDONMENT*

(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)

*Physical abandonment of well concluded 8-31-73.
Plugged and abandoned as follows:*

SX CEMENT	INTERVAL	LENGTH	FORMATION
45	9775 - 9765	100'	MORROW
50	7535 - 7435	100'	CUOCO
40	5556 - 5456	100'	ABO
50	3720 - 3620	100'	YESO
40	2045 - 1945	878' CSA 1995 - EUC	
10	Surface & erected P x A marker.		

*all intervals filled w/ mud.
Location to be cleaned & leveled.*

RECEIVED
SEP - 6 1974

18. I hereby certify that the foregoing is true and correct

SIGNED *Ray R. Yorkum* TITLE ADMINISTRATIVE ASSISTANT

DATE SEP 5 1974

(This space for Federal or State office use)

APPROVED BY _____ TITLE _____
CONDITIONS OF APPROVAL, IF ANY:

- 014- USGS Alet
- 1- DIV
- 1- SUSP
- 1- RRV
- 1- ARCO

APPROVED
SEP 6 1974
R. L. BEEKMAN
ACTING DISTRICT ENGINEER

*See Instructions on Reverse Side

EXHIBIT "D"
SKETCH OF WELL PAD

FRED POOL DRILLING, INC.
Well #2 Chukka Federal
SW $\frac{1}{4}$ NW $\frac{1}{4}$, Sec. 12: T-18-S, R-27-E

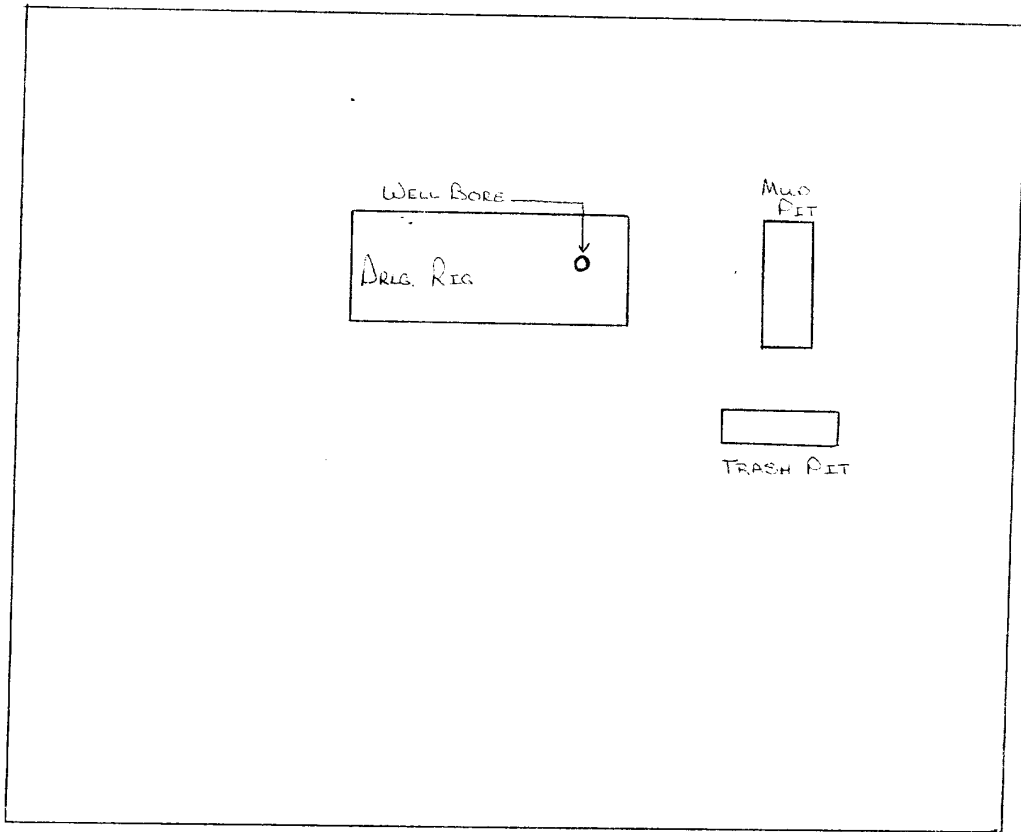
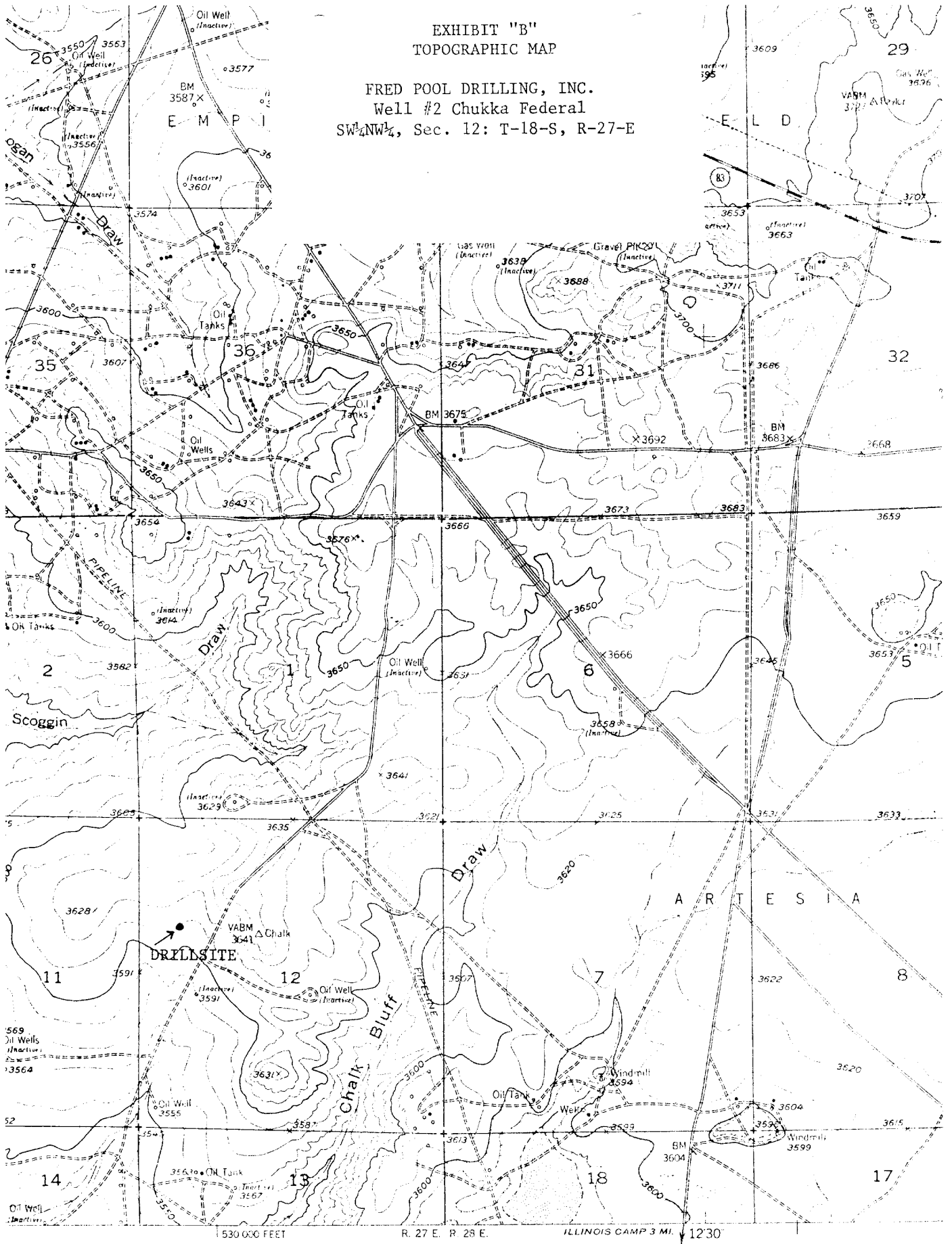


EXHIBIT "B"
TOPOGRAPHIC MAP

FRED POOL DRILLING, INC.
Well #2 Chukka Federal
SW $\frac{1}{4}$ NW $\frac{1}{4}$, Sec. 12: T-18-S, R-27-E



530 000 FEET

R. 27 E. P. 28 E.

ILLINOIS CAMP 3 MI.

12'30"

SUPPLEMENTAL DRILLING DATA

FRED POOL DRILLING, INC.
WELL #2 CHUKKA FEDERAL
SW $\frac{1}{4}$ NW $\frac{1}{4}$, SEC. 12, T-18-S, R-27-E
EDDY COUNTY, NEW MEXICO

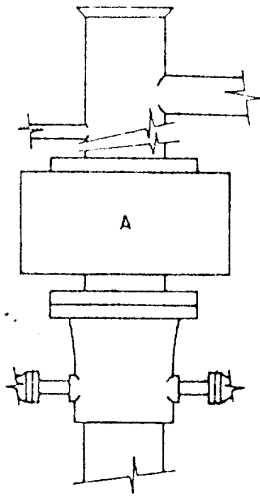
1. SURFACE FORMATION: Artesia Group of Permian Age. (Elev. 3607')
2. ESTIMATED TOPS OF GEOLOGIC MARKERS:

Yates	275'	Grayberg	1650'
Seven Rivers	475'		
Queen	1225'		
3. ANTICIPATED POROSITY ZONES:

Water	-	Above 300'
Oil	-	1500-2500'
4. CASING DESIGN:

<u>Size</u>	<u>Interval</u>	<u>Weight</u>	<u>Grade</u>	<u>Joint</u>
8 5/8"	0 - 2000'	32#		
5. SURFACE CONTROL EQUIPMENT: Control head.
6. CIRCULATING MEDIUM: KCL water.
7. AUXILIARY EQUIPMENT: None considered necessary on this shallow development well.
8. TESTING, LOGGING AND CORING PROGRAM: No coring or DST's are planned. Electric logs will include an cement bond log and a Compensated Neutron Log with Gamma Ray.
9. ABNORMAL PRESSURES, TEMPERATURES OR GASES: None anticipated.
10. ANTICIPATED STARTING DATE: It is planned that operations will commence about August 31, 1985. Duration of drilling, completion and testing operations should be one to five days.
11. RE-ENTRY DETAILS: Drill out cement plug at top of casing. Clean hole to plug at 1945' with tubing. Pressure test casing to be sure it does not leak. Run cement bond log from 1945' to surface. Perforate the Penrose section from 1450' to 1470' acidize and swab test.

BLOWOUT PREVENTER ARRANGEMENT
FRED POOL DRILLING, INC.
WELL #2 CHUKKA FEDERAL
SW $\frac{1}{4}$ NW $\frac{1}{4}$, Sec. 12, T-18-S, R-27-E
EDDY COUNTY, NEW MEXICO



ARRANGEMENT A

OIL CONSERVATION DIVISIC

STATE OF NEW MEXICO
ENERGY AND MINERALS DEPARTMENT

P. O. BOX 2088
SANTA FE, NEW MEXICO 37501

Form C-102
Revised 10-1-79

All distances must be from the outer boundaries of the Section.

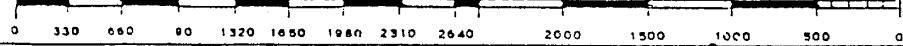
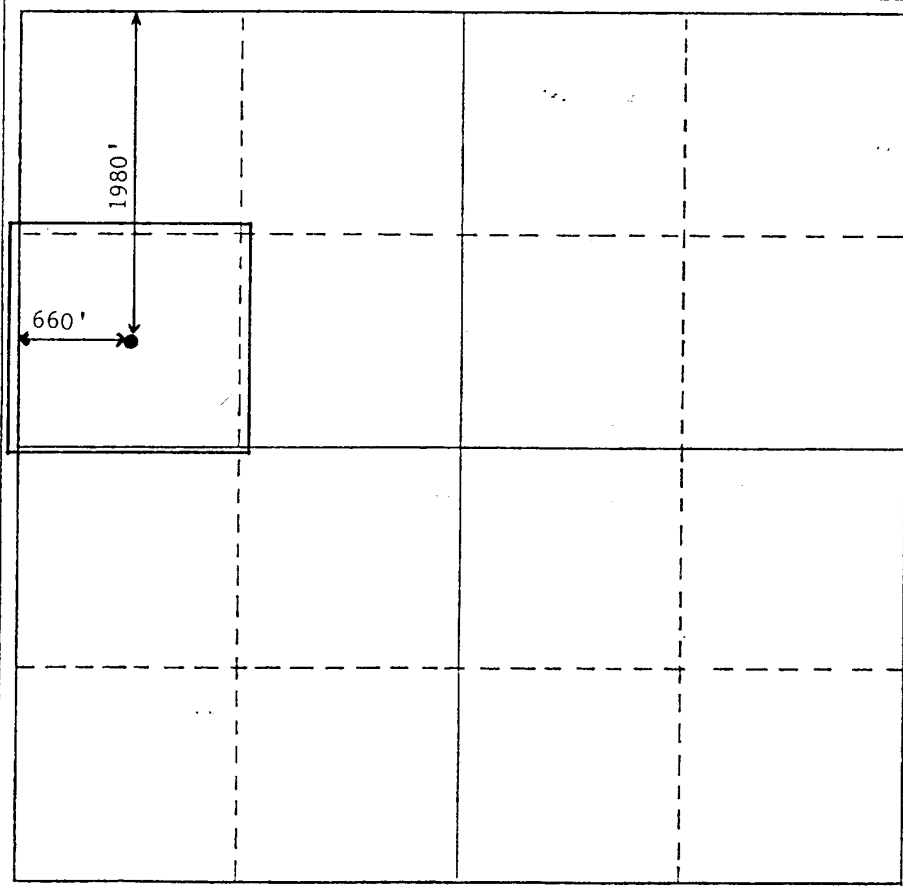
Operator Fred Pool Drilling, Inc.		Lease Chukka Federal			Well No. 2
Unit Letter E	Section 12	Township 18-S	Range 27-E	County Eddy	
Actual Footage Location of Well: 1980 feet from the North line and 660 feet from the West line					
Ground Level Elev. 3607	Producing Formation		Pool Artesia	Dedicated Acreage: 40 Acres	

1. Outline the acreage dedicated to the subject well by colored pencil or hachure marks on the plat below.
2. If more than one lease is dedicated to the well, outline each and identify the ownership thereof (both as to working interest and royalty).
3. If more than one lease of different ownership is dedicated to the well, have the interests of all owners been consolidated by communitization, unitization, force-pooling, etc?

Yes No If answer is "yes," type of consolidation _____

If answer is "no," list the owners and tract descriptions which have actually been consolidated. (Use reverse side of this form if necessary.) _____

No allowable will be assigned to the well until all interests have been consolidated (by communitization, unitization, forced-pooling, or otherwise) or until a non-standard unit, eliminating such interests, has been approved by the Division.



CERTIFICATION

I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief.

Name: Fred Pool
 Position: President
 Company: Fred Pool Drilling, Inc.
 Date: 8-16-85

I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my knowledge and belief.

Date Surveyed: _____
 Registered Professional Engineer and/or Land Surveyor: _____
 Certificate No.: _____

RECEIVED BY
AUG 30 1985
APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK
ARTESIA, OFFICE

30-015-20894

1. TYPE OF WELL
ARTESIA, OFFICE DRILL DEEPEN PLUG BACK
b. TYPE OF WELL
OIL WELL GAS WELL OTHER *Re-entry* SINGLE ZONE MULTIPLE ZONE

5. LEASE DESIGNATION AND SERIAL NO.
NM-6852
6. IF INDIAN, ALLOTTEE OR TRIBE NAME
7. UNIT AGREEMENT NAME
8. FARM OR LEASE NAME
Chukka Federal
9. WELL NO.
2
10. FIELD AND POOL, OR WILDCAT
8-G-57
Artesia Oil Pool
11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA
Sec. 12, T-18-S, R-27-E
12. COUNTY OR PARISH | 13. STATE
Eddy | NM

2. NAME OF OPERATOR
Fred Pool Drilling, Inc.

3. ADDRESS OF OPERATOR
P. O. Box 1393, Roswell, N.M. 88201

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.*)
At surface
1980' FNL & 660' FWL (Unit E)
At proposed prod. zone (SW $\frac{1}{4}$ NW $\frac{1}{4}$)

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE*
11 air miles east-southeast of Artesia, N.M.

15. DISTANCE FROM PROPOSED* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drlg. unit line, if any)
660'

16. NO. OF ACRES IN LEASE
160

17. NO. OF ACRES ASSIGNED TO THIS WELL
40

18. DISTANCE FROM PROPOSED LOCATION* TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT.
1650'

19. PROPOSED DEPTH
1945'

20. ROTARY OR CABLE TOOLS
Rotary

21. ELEVATIONS (Show whether DF, RT, GR, etc.)
3607 GR

22. APPROX. DATE WORK WILL START*
8-31-85

23. PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
4 1/2" <i>12 1/4" pipe</i>	8 5/8"	32#	2000	Circ.
<i>Csg. in place</i>				

This is a re-entry of Diamond Fed. Gas Com #1 plugged and abandoned 8-31-73.

OTD: 10,372

- Attached are:
- 1) Well location & acreage dedication plat
 - 2) Supplemental drilling data
 - 3) Surface use plan
 - 4) Designation of operator
 - 5) Original approved application by Amoco Production Co. for Diamond Federal Gas Com #1

*Posted IOI
x 44
9-13-85*

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen or plug back, give data on present productive zone and proposed new productive zone. If proposal is to drill or deepen directionally, give pertinent data on subsurface locations and measured and true vertical depths. Give blowout preventer program, if any.

24. SIGNED *Fred Pool* TITLE President DATE 8-16-85

(This space for Federal or State office use)

PERMIT NO. _____ APPROVAL DATE _____

APPROVED BY *Orig. Sgd. C. H. S. D. M.* TITLE _____ DATE 8-29-85

CONDITIONS OF APPROVAL, IF ANY:

*See Instructions On Reverse Side

APPROVAL SUBJECT TO
GENERAL REQUIREMENTS AND
SPECIAL STIPULATIONS
ATTACHED

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUBMIT IN REVERSE SIDE
(Other instructions on reverse side)

Form approved.
Budget Bureau No. 42-R1424.

C/SF

5. LEASE DESIGNATION AND SERIAL NO.

NM 6852

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir. Use "APPLICATION FOR PERMIT..." for such proposals.)

RECEIVED BY
SEP 11 1985
O. C. D.
ARTESIA, OFFICE

1. OIL WELL GAS WELL OTHER

2. NAME OF OPERATOR
FRED POOL DRILLING, INC.

3. ADDRESS OF OPERATOR
P.O. Box 1393 Roswell, N.M. 88201

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.)
At surface
1980 ~~DNL~~ 660 FWL
Unit E SW 1/4 NW 1/4

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME

Chukka Federal

9. WELL NO.

2

10. FIELD AND POOL OR WILDCAT

Artesia Oil Pool

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA

Sec. 12-T 18S- R 27E

14. PERMIT NO.

15. ELEVATIONS (Show whether DF, RT, GR, etc.)

3607 GR

12. COUNTY OR PARISH

Eddy

13. STATE

NM

16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:

TEST WATER SHUT-OFF

FRACTURE TREAT

SHOOT OR ACIDIZE

REPAIR WELL

(Other)

PULL OR ALTER CASING

MULTIPLE COMPLETE

ABANDON*

CHANGE PLANS

SUBSEQUENT REPORT OF:

WATER SHUT-OFF

FRACTURE TREATMENT

SHOOTING OR ACIDIZING

(Other)

REPAIRING WELL

ALTERING CASING

ABANDONMENT*

(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

9-5-85: Drilled cement out of surface from 0-30 ft.
Stringers of cement to 50 ft.
Tagged No. 2 plug at 1912 ft. Pulled tubing back to 1804 ft.; circulated hole with fresh water.
Preparing to log and perforate well.

SEP 09 1985

18. I hereby certify that the foregoing is true and correct

SIGNED Fred Pool

TITLE Clerk

DATE 9-6-85

(This space for Federal or State office use)

APPROVED BY RECEIVED FOR RECORD

TITLE _____

DATE _____

SEP 10 1985

*See Instructions on Reverse Side

CARIBAD, NEW MEXICO

UNITED STATES DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY
NM OIL CONS. SUBMIT CENTER
Artesia, NM 88210

Form approved.
Budget Bureau No. 42-R1424.

SUNDRY NOTICES AND REPORTS ON WELLS
(Do not use this form for proposals to drill or to deepen or plug back the well. Use "APPLICATION FOR PERMIT" for such proposals.)

RECEIVED BY
SEP 18 1985
O. C. D.
ARTESIA, OFFICE

1. OIL WELL GAS WELL OTHER re-entry

2. NAME OF OPERATOR
Fred Pool Drilling, Inc.

3. ADDRESS OF OPERATOR
P.O. Box 1393 Roswell, N.M. 88201

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.)
At surface
1980 FNL 660 FWL Unit E
SW 1/4 NW 1/4

14. PERMIT NO. 3001520894

15. ELEVATIONS (Show whether DF, RT, GR, etc.)
3607 GR

5. LEASE DESIGNATION AND SERIAL NO.
NM 6852

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME
Chukka Federal

9. WELL NO.
2

10. FIELD AND POOL, OR WILDCAT
Artesia Oil Pool

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA
Sec, 12-T18S-R27E

12. COUNTY OR PARISH
Eddy

13. STATE
NM,

16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:		SUBSEQUENT REPORT OF:	
TEST WATER SHUT-OFF <input type="checkbox"/>	PULL OR ALTER CASING <input type="checkbox"/>	WATER SHUT-OFF <input type="checkbox"/>	REPAIRING WELL <input type="checkbox"/>
FRACTURE TREAT <input type="checkbox"/>	MULTIPLE COMPLETE <input type="checkbox"/>	FRACTURE TREATMENT <input type="checkbox"/>	ALTERING CASING <input type="checkbox"/>
SHOOT OR ACIDIZE <input type="checkbox"/>	ABANDON* <input type="checkbox"/>	SHOOTING OR ACIDIZING <input checked="" type="checkbox"/>	ABANDONMENT* <input type="checkbox"/>
REPAIR WELL (Other) <input type="checkbox"/>	CHANGE PLANS <input type="checkbox"/>	(Other) <input type="checkbox"/>	

(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

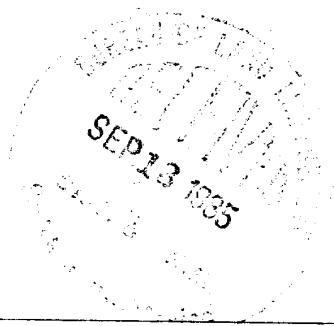
17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

September 8, 1985

Perforations: 1446-56 ft. and 1459-62
14 shots.

Acidized with 1000 gallons NE 15%; and 30,000 gallons Versagel; 30,000# 20/40 sand and 12,000 # 10/20 sand.

Pumping well back to test.



18. I hereby certify that the foregoing is true and correct

SIGNED *Fred Pool* TITLE Vice - president DATE 9-11-85

(This space for Federal or State office use)

APPROVED BY ACCEPTED FOR RECORD TITLE _____ DATE _____
CONDITIONS OF APPROVAL, IF ANY

SEP 16 1985

*See Instructions on Reverse Side

CARLSBAD, NEW MEXICO

75F

Drawer DD

Artesia, NM 88210

SUBMIT IN DUPLICATE*

Form approved. Budget Bureau No. 42-R355.5.

Form 9-300 (Rev. 7-80)

RECEIVED BY

SEP 23 1985

UNITED STATES DEPARTMENT OF THE INTERIOR GEOLOGICAL SURVEY

(See other instructions on reverse side)

WELL COMPLETION OR RECOMPLETION REPORT AND LOG *

1. WELL IDENTIFICATION:

ARTESIA OIL WELL [X] GAS WELL [] DRY [] Other RE-entry

b. TYPE OF COMPLETION:

NEW WELL [X] WORK OVER [] DEEP-EN [] PLUG BACK [] DIFF. RESVR. [] Other []

2. NAME OF OPERATOR

Fred Pool Drilling, Inc. [check]

3. ADDRESS OF OPERATOR

P.O. Box 1393 Roswell, N.M. 88201

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements)*

At surface 1980 FNL660 FWL SW 1/4 NW 1/4 Unit E

At top prod. interval reported below

1446- ft.

At total depth

1912 ft.

14. PERMIT NO. 3001520894 DATE ISSUED 9-30-85

12. COUNTY OR PARISH Eddy 13. STATE NM

15. DATE SPUNDED 8-30-85 16. DATE T.D. REACHED 9-6-85 17. DATE COMPL. (Ready to prod.) 9-10-85 18. ELEVATIONS (DF, RKB, RT, GR, ETC.)* 3607 GR 19. ELEV. CASINGHEAD 3607 GR

20. TOTAL DEPTH, MD & TVD 1912 ft. 21. PLUG, BACK T.D., MD & TVD 1912 ft. 22. IF MULTIPLE COMPL., HOW MANY* 23. INTERVALS DRILLED BY [] ROTARY TOOLS [X] CABLE TOOLS []

24. PRODUCING INTERVAL(S), OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD)* 1446-1462 ft. Penrose 25. WAS DIRECTIONAL SURVEY MADE No

26. TYPE ELECTRIC AND OTHER LOGS RUN Compensated Neutron 27. WAS WELL CORED no

28. CASING RECORD (Report all strings set in well)

Table with 6 columns: CASING SIZE, WEIGHT, LB./FT., DEPTH SET (MD), HOLE SIZE, CEMENTING RECORD, AMOUNT PULLED. Row 1: 8 5/8, 32#, 2000, 11", circulated, 0

29. LINER RECORD and 30. TUBING RECORD. LINER RECORD columns: SIZE, TOP (MD), BOTTOM (MD), SACKS CEMENT*, SCREEN (MD). TUBING RECORD columns: SIZE, DEPTH SET (MD), PACKER SET (MD). Row 1: 2 3/8, 1804 ft.

31. PERFORATION RECORD (Interval, size and number) 1446-56 ft. 1459-62 ft. 14 holes. 32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC. Table with 2 columns: DEPTH INTERVAL (MD), AMOUNT AND KIND OF MATERIAL USED. Row 1: 1446-56, 1000 gal. NE 15%, 30,000 gal. Versagel; 30,000 # 20/40 sand; 12,000# 10/20 sand.

33.* PRODUCTION. Table with 8 columns: DATE FIRST PRODUCTION, PRODUCTION METHOD, WELL STATUS, DATE OF TEST, HOURS TESTED, CHOFE SIZE, PROD'N. FOR TEST PERIOD, OIL—BBL., GAS—MCF., WATER—BBL., GAS-OIL RATIO. Row 1: 9-12-85, Pumping, Producing, 9-12-85, 24, none, [check], 31, TSTM, 0.

34. DISPOSITION OF GAS (Sold, used for fuel, vented, etc.) vented TEST WITNESSED BY Fred Pool, Jr. [Signature]

35. LIST OF ATTACHMENTS Compensated Neutron log, mailed 9-10-85

36. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records. SIGNED [Signature] TITLE Vice President DATE 9-13-85

*(See Instructions and Spaces for Additional Data on Reverse Side)

INSTRUCTIONS

General: This form is designed for submitting a complete and correct well completion report and log on all types of lands and leases to either a Federal agency or a State agency, or both, pursuant to applicable Federal and/or State laws and regulations. Any necessary special instructions concerning the use of this form and the number of copies to be submitted, particularly with regard to local, area, or regional procedures and practices, either are shown below or will be issued by, or may be obtained from, the local Federal and/or State office. See instructions on items 22 and 24, and 33, below regarding separate reports for separate completions.

If not filed prior to the time this summary record is submitted, copies of all currently available logs (drillers, geologists, sample and core analysis, all types electric, etc.), formation and pressure tests, and directional surveys, should be attached hereto, to the extent required by applicable Federal and/or State laws and regulations. All attachments should be listed on this form, see item 37.

Item 4: If there are no applicable State requirements, locations on Federal or Indian land should be described in accordance with Federal requirements. Consult local State or Federal office for specific instructions.

Item 18: Indicate which elevation is used as reference (where not otherwise shown) for depth measurements given in other spaces on this form and in any attachments. **Items 22 and 24:** If this well is completed for separate production from more than one interval zone (multiple completion), so state in item 22, and in item 24 show the producing interval, or intervals, top(s), bottom(s) and name(s) (if any) for only the interval reported in item 33. Submit a separate report (page) on this form, adequately identified, for each additional interval to be separately produced, showing the additional data pertinent to such interval.

Item 29: "Sacks Cement": Attached supplemental records for this well should show the details of any multiple stage cementing and the location of the cementing tool.

Item 33: Submit a separate completion report on this form for each interval to be separately produced. (See instruction for items 22 and 24 above.)

37. SUMMARY OF POROUS ZONES: SHOW ALL IMPORTANT ZONES OF POROSITY AND CONTENTS THEREOF; CORED INTERVALS; AND ALL DRILL-STEM TESTS, INCLUDING DEPTH INTERVAL TESTED, CUSHION USED, TIME TOOL OPEN, FLOWING AND SHUT-IN PRESSURES, AND RECOVERIES		38. GEOLOGIC MARKERS			
FORMATION	TOP	BOTTOM	DESCRIPTION, CONTENTS, ETC.		
Queen & Grayburg TD	0	65	Caliche and red bed Salt, red bed and anhydrite Dolomite and anhydrite Sand dolomite dolomite		
	65	1100			
	1100	1365			
	1365	1570			
	1570	1912			
			NAME	MEAS. DEPTH	TRUE VERT. DEPTH

OIL CONSERVATION DIVISION

P.O. BOX 2088
SANTA FE NEW MEXICO 87501

DATE OF APPLICATION	
DISTRIBUTION	
LAND OFFICE	
TRANSPORTER OIL	
TRANSPORTER GAS	
OPERATOR	
PRODUCTION OFFICE	

RECEIVED BY
SEP 18 1985
O. C. D.
AUTHORIZATION TO

REQUEST FOR ALLOWABLE
AND
TRANSPORT OIL AND NATURAL GAS

Operator: Fred Pool Drilling, Inc.
Address: P.O. Box 1393 Roswell, N.M. 88201

Reason(s) for filing (Check proper box):
 New Well Re-entry Change in Transporter of: Oil Dry Gas
 Recompletion Change in Ownership Casinghead Gas Condensate

Other (Please explain): CASINGHEAD GAS MUST NOT BE FLARED AFTER 3-10-24-85 UNLESS AN EXCEPTION FROM THE B. L. M. IS OBTAINED

If change of ownership give name and address of previous owner: _____

I. DESCRIPTION OF WELL AND LEASE

Lease Name Chukka Federal	Well No. 2	Pool Name, Including Formation Artesia Oil Pool	Kind of Lease State, Federal or Fee Federal	Lease 6852
Location Unit Letter <u>E</u> : <u>1980</u> Feet From The <u>North</u> Line and <u>660</u> Feet From The <u>West</u> Line of Section <u>12-</u> Township <u>18S</u> Range <u>27E</u> , NMPM, <u>Eddy</u> Co.				

II. DESIGNATION OF TRANSPORTER OF OIL AND NATURAL GAS

Name of Authorized Transporter of Oil <input checked="" type="checkbox"/> or Condensate <input type="checkbox"/> Navajo Crude Oil Purchasing	Address (Give address to which approved copy of this form is to be sent) Box 159 Artesia, N.M. 88210			
Name of Authorized Transporter of Casinghead Gas <input checked="" type="checkbox"/> or Dry Gas <input type="checkbox"/> Phillips Petroleum	Address (Give address to which approved copy of this form is to be sent) Bartlesville, Okla.			
If well produces oil or liquids, give location of tanks.	Unit E	Sec. 12	Twp. 18S	Rge. 27E
	Is gas actually connected? When no			

If this production is commingled with that from any other lease or pool, give commingling order number: _____

COMPLETION DATA

Designate Type of Completion - (X)	Oil Well <input checked="" type="checkbox"/>	Gas Well <input type="checkbox"/>	New Well <input type="checkbox"/>	Workover <input checked="" type="checkbox"/>	Deepen <input type="checkbox"/>	Plug Back <input type="checkbox"/>	Some Heavy <input type="checkbox"/>	Diff. H. <input checked="" type="checkbox"/>
Date Spudded 8-30-85	Date Compl. Ready to Prod. 9-10-85	Total Depth 1912 ft.	P.B.T.D. 1912 ft.					
Elevations (DF, R.R., RT, GR, etc.) GR 3607	Name of Producing Formation Penrose	Top Oil/Gas Pay 1446 ft.	Tubing Depth 1804					
Perforations 1446-56 1459-62	Depth Casing Shoe -							

TUBING, CASING, AND CEMENTING RECORD

HOLE SIZE 11"	CASING & TUBING SIZE 8 7/8"	DEPTH SET 3110	SACKS CEMENT 200
	3 1/2"	1814	

Post ID-2
9-27-85

TEST DATA AND REQUEST FOR ALLOWABLE OIL WELL (Test must be after recovery of total volume of load oil and must be equal to or greater than top casinghead gas flow for this depth or be for full 24 hours)

Date First New Oil Run To Tanks 9-12-85	Date of Test 9-12-85	Producing Method (Flow, pump, gas lift, etc.) pumping	
Length of Test 24 hrs.	Tubing Pressure 40#	Casing Pressure 40#	Choke Size none
Actual Prod. During Test 31 bbls	Oil - Bbls. 31	Water - Bbls. 0	Gas - MCF TSTM

GAS WELL

Actual Prod. Test-MCF/D TSTM	Length of Test 24hrs.	Bbls. Condensate/MMCF TSTM	Gravity of Condensate -
Testing Method (pilot, back pr.)	Tubing Pressure (Shut-in)	Casing Pressure (Shut-in)	Choke Size none

CERTIFICATE OF COMPLIANCE

I hereby certify that the rules and regulations of the Oil Conservation Division have been complied with and that the information given above is true and complete to the best of my knowledge and belief.

OIL CONSERVATION DIVISION
SEP 24 1985
APPROVED _____, 19____
BY _____
Original Signed By
Les A. Clements

Penta Pool

(Signature)

Vice President

(Title)

9-16-85

(Date)

TITLE Supervisor DISTRICT II

This form is to be filed in compliance with RULE 1104.

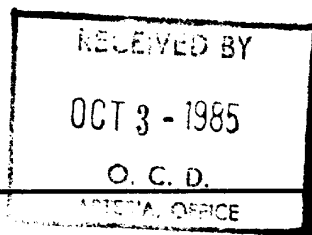
If this is a request for allowable for a newly drilled or deep well, this form must be accompanied by a tabulation of the device tests taken on the well in accordance with RULE 111.

All sections of this form must be filled out completely for allowable on new and recompleted wells.

Fill out only Sections I, II, III, and VI for changes of well name or number, or transporter, or other such change of condition.

Separate Forms C-104 must be filed for each pool in multicompleted wells.

FRED POOL, JR.



September 25, 1985

P. O. Box 1393
Roswell, NM 88201

New Mexico Energy and Resources Board
P.O.Box 2088
Santa Fe, N.M. 87501

RE: Chukka Federal No. 2
Lease No. 6852
SW/4 NW/4 Sec. 12-18S-27E
Eddy County, N.M.

Gentlemen,

Please be advised that the above well was spudded on 8-3-85 and completed as a producing well on September 10, 1985. This well was potentialized at 31 barrels per day of oil and gas was TSTM.

All necessary records and logs have been filed with the appropriate offices.

Sincerely,

Penta Pool

OIL CONSERVATION DIVISION

Drawer DD Artesia, NM.

DISTRICT OFFICE #2

Sept. thru Dec. 1985

NO. 2058 N

SUPPLEMENT TO THE OIL PRORATION SCHEDULE

DATE September 24, 1985

PURPOSE ALLOWABLE ASSIGNMENT - NEW OIL

Effective September 12, 1985 an allowable of 31 barrels of oil per day is hereby assigned to Fred Pool Drilling, Incorporated, Chukka Federal #2-E-12-18-27 in the Artesia Queen Grayburg San Andres Pool.

L - F

MP - P

Sept. Total - 589 bbls.
Oct. Total - 961 bbls.
Nov. Total - 930 bbls.
Dec. Total - 961 bbls.

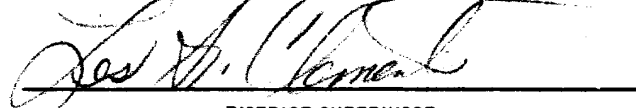
Form. - Penrose
Perfs. - 1446' - 1462'
Comp. - 9-10-85
TD - 1912'

LAC:fc

Fred Pool Drlg., Inc.

NRC
PP

OIL CONSERVATION DIVISION



DISTRICT SUPERVISOR

UNITED STATES OF AMERICA

DEPARTMENT OF JUSTICE

NO.

IN RE: THE OIL PROPERTIES MATTER

STATEMENTS

STATEMENTS OF THE PARTIES TO THE MATTER

STATEMENTS OF THE WITNESSES

STATEMENTS OF THE EXPERTS

STATEMENTS OF THE ATTORNEYS

STATEMENTS OF THE JURY

STATEMENTS OF THE COURT

STATEMENTS OF THE PROSECUTOR

STATEMENTS OF THE DEFENSE

STATEMENTS OF THE PLAINTIFFS

STATEMENTS OF THE DEFENDANTS

STATEMENTS OF THE INTERESTED PARTIES

STATEMENTS OF THE AMICI CURIAE

STATEMENTS OF THE PUBLIC

STATEMENTS OF THE PRESS

STATEMENTS OF THE ACADEMY

STATEMENTS OF THE ARTS

STATEMENTS OF THE LETTERS

STATEMENTS OF THE SCIENCE

STATEMENTS OF THE HISTORY

STATEMENTS OF THE GEOGRAPHY

STATEMENTS OF THE POLITICS

STATEMENTS OF THE ECONOMY

STATEMENTS OF THE ENVIRONMENT

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

SUBMIT IN TRIPLICATE*
(Other instructions on reverse side)

Form approved.
Budget Bureau No. 1004-0135
Expires August 31, 1985

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir. Use "APPLICATION FOR PERMIT—" for such proposals.)

1. OIL WELL <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <input type="checkbox"/>		RECEIVED	
2. NAME OF OPERATOR THE EASTLAND OIL COMPANY ✓		OCT 19 '90	
3. ADDRESS OF OPERATOR P. O. DRAWER 3488, MIDLAND, TX 79702		O. C. D. ARTESIA, OFFICE	
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements. See also space 17 below.) At surface UNIT LETTER E, 1980 FT. FNL AND 660 FWL, SECTION 12, TS 18S, RG. 27E, EDDY CO., NM		7. UNIT AGREEMENT NAME 8. FARM OR LEASE NAME CHUKKA FEDERAL 9. WELL NO. 2 10. FIELD AND POOL, OR WILDCAT ARTESIA Q-G-SA 11. SEC., T., S., M., OR BLK. AND SURVEY OR AREA SEC. 12, TWP 18S, RGE. 27E	
14. PERMIT NO. 30-015-20894	15. ELEVATIONS (Show whether DF, RT, GR, etc.)	12. COUNTY OR PARISH EDDY	13. STATE NM

16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:		SUBSEQUENT REPORT OF:	
TEST WATER SHUT-OFF <input type="checkbox"/>	PULL OR ALTER CASING <input type="checkbox"/>	WATER SHUT-OFF <input type="checkbox"/>	REPAIRING WELL <input type="checkbox"/>
FRACTURE TREAT <input type="checkbox"/>	MULTIPLE COMPLETE <input type="checkbox"/>	FRACTURE TREATMENT <input type="checkbox"/>	ALTERING CASING <input type="checkbox"/>
SHOOT OR ACIDIZE <input type="checkbox"/>	ABANDON* <input type="checkbox"/>	SHOOTING OR ACIDIZING <input type="checkbox"/>	ABANDONMENT* <input type="checkbox"/>
REPAIR WELL <input type="checkbox"/>	CHANGE PLANS <input type="checkbox"/>	(Other) CHANGE OF OPERATOR	<input checked="" type="checkbox"/>

(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

LEASE PURCHASED FROM FRED POOL DRILLING, INC. 09/01/90.

RECEIVED
 OCT 17 11 09 AM '90
 CARL AREA

18. I hereby certify that the foregoing is true and correct
 SIGNED Travis Reed TITLE PRODUCTION SUPERINTENDENT DATE 10/11/90

(This space for Federal or State office use)
 APPROVED BY _____ TITLE _____ DATE _____
 CONDITIONS OF APPROVAL, IF ANY:

*See Instructions on Reverse Side

Submit 5 Copies
Appropriate District Office
DISTRICT I
P.O. Box 1980, Hobbs, NM 88240

DISTRICT II
P.O. Drawer DD, Artesia, NM 88210

DISTRICT III
1000 Rio Brazos Rd., Aztec, NM 87410

State of New Mexico
Energy, Minerals and Natural Resources Department

OIL CONSERVATION DIVISION
P.O. Box 2088
Santa Fe, New Mexico 87504-2088

RECEIVED

OCT 18 '90

Form C-104
Revised 1-1-89
See Instructions
at Bottom of Page

C. C. D.
ARTESIA, OFFICE

REQUEST FOR ALLOWABLE AND AUTHORIZATION
TO TRANSPORT OIL AND NATURAL GAS

I.

Operator THE EASTLAND OIL COMPANY	Well API No. 30-015-20894
Address P. O. DRAWER 3488, MIDLAND, TEXAS 79702	
Reason(s) for Filing (Check proper box) <input type="checkbox"/> Other (Please explain)	
New Well <input type="checkbox"/>	Change in Transporter of:
Recompletion <input type="checkbox"/>	Oil <input type="checkbox"/> Dry Gas <input type="checkbox"/>
Change in Operator <input checked="" type="checkbox"/>	Casinghead Gas <input type="checkbox"/> Condensate <input type="checkbox"/>
EFFECTIVE 09/01/90	
If change of operator give name and address of previous operator FRED POOL DRILLING, INC., P. O. DRAWER 1393, ROSWELL, NM 88201	

II. DESCRIPTION OF WELL AND LEASE

Lease Name CHUKKA FEDERAL	Well No. 2	Pool Name, Including Formation ARTESIA Q-G-SA	Kind of Lease State , Federal or Other	Lease No. 6852
Location Unit Letter <u>E</u> : <u>1980</u> Feet From The <u>North</u> Line and <u>660</u> Feet From The <u>West</u> Line Section <u>12</u> Township <u>18S</u> Range <u>27E</u> , NMPM, <u>EDDY</u> County				

III. DESIGNATION OF TRANSPORTER OF OIL AND NATURAL GAS

Name of Authorized Transporter of Oil <input checked="" type="checkbox"/> or Condensate <input type="checkbox"/> NAVAJO CRUDE OIL PURCHASING	Address (Give address to which approved copy of this form is to be sent) BOX 159, ARTESIA, NM 88210				
Name of Authorized Transporter of Casinghead Gas <input checked="" type="checkbox"/> or Dry Gas <input type="checkbox"/> PHILLIPS PETROLEUM	Address (Give address to which approved copy of this form is to be sent) BARTLESVILLE, OK				
If well produces oil or liquids, give location of tanks.	Unit E	Sec. 12	Twp. 18S	Rge. 27E	Is gas actually connected? <u>NO</u> When ?

If this production is commingled with that from any other lease or pool, give commingling order number: _____

IV. COMPLETION DATA

Designate Type of Completion - (X)	Oil Well	Gas Well	New Well	Workover	Deepen	Plug Back	Same Res'v	Diff Res'v
Date Spudded	Date Compl. Ready to Prod.		Total Depth			P.B.T.D.		
Elevations (DF, RKB, RT, GR, etc.)	Name of Producing Formation		Top Oil/Gas Pay			Tubing Depth		
Perforations						Depth Casing Shoe		

TUBING, CASING AND CEMENTING RECORD

HOLE SIZE	CASING & TUBING SIZE	DEPTH SET	SACKS CEMENT

V. TEST DATA AND REQUEST FOR ALLOWABLE

OIL WELL (Test must be after recovery of total volume of load oil and must be equal to or exceed top allowable for this depth or be for full 24 hours.)

Date First New Oil Run To Tank	Date of Test	Producing Method (Flow, pump, gas lift, etc.)	
Length of Test	Tubing Pressure	Casing Pressure	Choke Size <u>posted ID-3</u> <u>10-26-90</u>
Actual Prod. During Test	Oil - Bbls.	Water - Bbls.	Gas- MCF <u>chg OP</u>

GAS WELL

Actual Prod. Test - MCF/D	Length of Test	Bbls. Condensate/MMCF	Gravity of Condensate
Testing Method (prior, back pr.)	Tubing Pressure (Shut-in)	Casing Pressure (Shut-in)	Choke Size

VI. OPERATOR CERTIFICATE OF COMPLIANCE

I hereby certify that the rules and regulations of the Oil Conservation Division have been complied with and that the information given above is true and complete to the best of my knowledge and belief.

James Reed
Signature
PRODUCTION SUPERINTENDENT

OIL CONSERVATION DIVISION

Date Approved OCT 23 1990

By ORIGINAL SIGNED BY
MIKE WILLIAMS

TRAVIS REED PRODUCTION OPERATIONS
Printed Name Title
10/08/90 915/683-6293
Date Telephone No.

TRAVIS REED
Title SUPERVISOR, DISTRICT II

INSTRUCTIONS: This form is to be filed in compliance with Rule 1104

- 1) Request for allowable for newly drilled or deepened well must be accompanied by tabulation of deviation tests taken in accordance with Rule 111.
- 2) All sections of this form must be filled out for allowable on new and recompleted wells.
- 3) Fill out only Sections I, II, III, and VI for changes of operator, well name or number, transporter, or other such changes.
- 4) Separate Form C-104 must be filed for each pool in multiply completed wells.

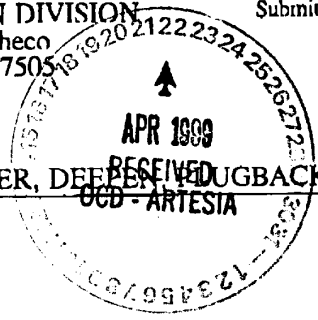
District I
1625 N. French Dr., Hobbs, NM 88240
District II
811 South First, Artesia, NM 88210
District III
1000 Rio Brazos Rd., Aztec, NM 87410
District IV
2040 South Pacheco, Santa Fe, NM 87505

State of New Mexico
Energy, Minerals & Natural Resources

FORM C-101
Revised March 12, 1999

OIL CONSERVATION DIVISION
2040 South Pacheco
Santa Fe, NM 87505

Submit to Appropriate District Office
State Lease - 6 Copies
Fee Lease - 5 Copies



AMENDED REPORT

*elg
blm
OP*

APPLICATION FOR PERMIT TO DRILL, RE-ENTER, DEEPEN, PLUG BACK, OR ADD A ZONE

Operator Name and Address: Navajo Refining Company Post Office Box 159 Artesia, New Mexico 88211		OGRID Number 15694
Property Code 23592		API Number 30-015-20894
Property Name WDW		Well No. 2

Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
E	12	18S	27E		1980	North	660	West	Eddy

Proposed Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
Proposed Pool 1 Lower Wolfcamp Cisco Canyon Injection Zone					Proposed Pool 2 Navajo Injection; Permo-Penn. 96918				

Work Type Code E-Reentry	Well Type Code Class I Injection	Cable/Rotary R	Lease Type Code Federal	Ground Level Elevation 3607' GR, 3623' KB
Multiple No	Proposed Depth 9200'	Formation Strawn	Contractor	Spud Date 5/15/99

Proposed Casing and Cement Program

Hole Size	Casing Size	Casing weight/foot	Setting Depth	Sacks of Cement	Estimated TOC
11"	8-5/8"	32 lb/ft	1995 feet	800	Surface
7-7/8"	5-1/2"	17 lb/ft	9200 feet	Caliper vol. +20%	Surface

Describe the proposed program. If this application is to DEEPEN or PLUG BACK give the data on the present productive zone and proposed new productive zone. Describe the blowout prevention program, if any. Use additional sheets if necessary.

Proposed Reentry of The Eastland Oil Company (originally Fred Pool Drilling, Inc.) Chukka Federal No. 2 (PBD 1912 feet, September 10, 1985) formerly Amoco Production Company Diamond Federal Gas Com. No. 1 (OTD 10,372 feet, P&A August 31, 1973). The well currently produces oil and gas from perforations from 1446 feet to 1462 feet (Penrose.)

Navajo will squeeze the perforations from 1446 feet to 1462 feet, drill out cement plugs, and clean out the well to 9200 feet, set 5-1/2 inch casing at 9200 feet and cement to the surface, perforate porous intervals in the Lower Wolfcamp, Cisco, and Canyon Formations between 7270 feet and 9200 feet, and conducted injectivity tests.

Attached are the Well Location Plat and Drilling Program.

I hereby certify that the information given above is true and complete to the best of my knowledge and belief.		OIL CONSERVATION DIVISION	
Signature: <i>Darrell Moore</i>	Printed name: Darrell Moore	Approved by: <i>Sign. W. Green. B6X</i>	Title: District Supervisor
Title: Env. Mgr. for Water & Waste	Date: 4/21/99	Approval Date: 5-3-99	Expiration Date: 5-3-00
Phone: 505-748-3311	Conditions of Approval: Attached <input type="checkbox"/>		

District I
1625 N. French Dr., Hobbs, NM 88240

District II
811 South First, Artesia, NM 88210

District III
1000 Rio Brazos Rd., Aztec, NM 87410

District IV
2040 South Pacheco, Santa Fe, NM 87505

State of New Mexico
Energy, Minerals & Natural Resources Department

OIL CONSERVATION DIVISION
2040 South Pacheco
Santa Fe, NM 87505

Form C-102
Revised March 17, 1999

Submit to Appropriate District Office
State Lease - 4 Copies
Fee Lease - 3 Copies

AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number 30-015-20894		¹ Pool Code	² Pool Name Lower Wolfcamp-Cisco-Canyon Injection Zone
⁴ Property Code	³ Property Name WDW-2		⁵ Well Number
⁷ OGRID No.	⁶ Operator Name Navajo Refining Company		⁸ Elevation 3607' GR

¹⁰ Surface Location

UL or lot no.	Section	Township	Range	Lot Idn.	Feet from the	North/South line	Feet from the	East/West line	County
E	12	18S	27E		1980	North	660	West	Eddy

¹¹ Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn.	Feet from the	North/South line	Feet from the	East/West line	County

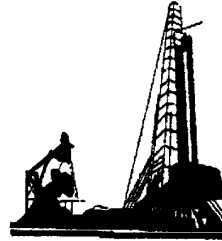
¹⁴ Dedicated Acres ¹² Joint or Infill ¹³ Consolidation Code ¹⁵ Order No.

NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION

				<p>¹⁷ OPERATOR CERTIFICATION</p> <p>I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief</p>		
				<p>Signature <i>Darrell Moore</i></p> <p>Printed Name <i>Darrell Moore</i></p> <p>Title <i>Env. Mgr. for Water & Waste</i></p> <p>Date <i>4/21/99</i></p>		
				<p>¹⁸ SURVEYOR CERTIFICATION</p> <p>I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief.</p>		
				<p>Date of Survey</p> <p>Signature and Seal of Professional Surveyor:</p> <p>Well is active. Location was not re-surveyed by Navajo.</p> <p>Certificate Number</p>		

OIL CONSERVATION DIVISION

**2040 South Pacheco
Santa Fe, NM 87505
(505) 827-7133
Fax: (505) 827-8177**



(PLEASE DELIVER THIS FAX)

To: TIM GUMM - ARTESIA OGD FAX 748-9720

From: WAYNE PRICE - OGD SF

Date: 4/30/99

Number of Pages (Includes Cover Sheet) 7/6

Message: APPROVED BOND FOR NAUVAJO WDW#2

CLASS I INJECTION WELL (COPY)

**If you have any trouble receiving this, please call:
(505) 827-7133**



NEW MEXICO ENERGY, MINERALS
& NATURAL RESOURCES DEPARTMENT

OIL CONSERVATION DIVISION
2640 South Pacheco Street
Santa Fe, New Mexico 87506
(505) 827-7131

April 19, 1999

CERTIFIED MAIL
RETURN RECEIPT NO. Z 559 573 590

J.S. Ward & Son, Inc.
104 South Fourth Street
Artesia, New Mexico 88210-2195

Attention: Mr. Gary Sims

Re: Navajo Refining Company Discharge Plan UIC-CLI-008-2
Bond No. 58 96 12
\$ 95,000.00 One-Well Plugging Bond
to the State of New Mexico for Class I Injection Well WDW#2
1980' FNL and 660' FWL - Sec 12-Ts18s-R27e N.M.P.M.
Eddy, County, New Mexico
J.S. Ward & Son, Inc., Principal

Gulf Insurance Company, Surety
Bond 58 96 12

The New Mexico Oil Conservation Division hereby approves the above-captioned One-Well Plugging Bond.

Sincerely,

RAND CARROLL,
Legal Counsel

RC/wp

cc: OCD Artesia Office
Gulf Insurance Company



J. S. Ward & Son, Inc.

101 South Fourth Street
(505) 746-2796
FAX (505) 746-4244
Artesia, New Mexico
88210-2195

Insurance
Bonds

April 22, 1999

State of New Mexico
Energy, Minerals & Natural Resources Department
Oil Conservation Division
2040 South Pacheco Street
Santa Fe, New Mexico 87505-5472

Attention: Mr. Roger Anderson

Re: Navajo Refining Company
Bond No. 58 96 12
\$95,000 One-Well Plugging Bond
to the State of New Mexico for
Class I Injection Well
Chukka Federal #2

Dear Mr. Anderson:

Enclosed please find the captioned bond through Gulf Insurance Company which we trust you find in order and acceptable for filing.

Very truly yours,

J. S. WARD & SON, INC.

By

G. Gary Sims

SGS:emb

Enclosure

cc: Navajo Refining Company
Post Office Box 159
Artesia, New Mexico 88211-0159
Attention: Mr. Joe Akins - Copy of Bond & Invoice

OVER 60 YEARS

<u>Navajo Refining Company</u> PRINCIPAL Post Office Box 159 Artesia, New Mexico 88211-0159 Address By: <u>[Signature]</u> Signature <u>President</u> Title	<u>Gulf Insurance Company</u> SURETY 101 South Fourth Street Artesia, New Mexico 88210-2195 Address <u>[Signature]</u> Attorney-In-Fact
---	---

(Note: Principal, if corporation, affix corporate seal here.) (Note: Corporate surety affix corporate seal here.)

ACKNOWLEDGEMENT FORM FOR NATURAL PERSONS

STATE OF _____)
 COUNTY OF _____) ss.

On this _____ day of _____, 19____, before me personally appeared _____, to me known to be the person (persons) described in and who executed the foregoing instrument and acknowledged that he (they) executed the same as his (their) free act and deed.

IN WITNESS WHEREOF, I have hereunto set my hand and seal on the day and year in this certificate first above written.

 Notary Public

My Commission Expires _____

ACKNOWLEDGEMENT FORM FOR CORPORATION

STATE OF New Mexico)
 COUNTY OF Eddy) ss.

On this 22nd day of April, 1999, before me personally appeared Jack P. Reid, to me personally known who, being by me duly sworn, did say that he is President of Navajo Refining Company and that the foregoing instrument was signed and sealed on behalf of said corporation by authority of its board of directors, and acknowledged said instrument to be the free act and deed of said corporation.

IN WITNESS WHEREOF, I have hereunto set my hand and seal on the day and year in this certificate first above written.

[Signature]
 Notary Public



OFFICIAL SEAL
 Rita Beadle
 NOTARY PUBLIC-STATE OF NEW MEXICO

My commission expires: 1-16-2001

1-16-2001
 My Commission Expires

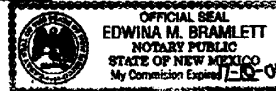
ACKNOWLEDGEMENT FORM FOR CORPORATE SURETY

STATE OF New Mexico)
 COUNTY OF Eddy) ss.

On this 22nd day of April, 1999, before me appeared S. Gary Sims, to me personally known, who, being by me duly sworn, did say that he is Attorney-in-Fact of Gulf Insurance Company and that the foregoing instrument was signed and sealed on behalf of said corporation by authority of its board of directors, and acknowledged said instrument to be the free act and deed of said corporation.

IN WITNESS WHEREOF, I have hereunto set my hand and seal on the day and year in this certificate first above written.

[Signature]
 Notary Public



OFFICIAL SEAL
 EDWINA M. BRAMLETT
 NOTARY PUBLIC
 STATE OF NEW MEXICO
 My Commission Expires 1-10-01

7-10-01
 My Commission Expires

(Note: Corporate surety attach power of attorney.)

APPROVED BY:

OIL CONSERVATION DIVISION OF NEW MEXICO

By: [Signature]
 Date: 4/30/99



POWER OF ATTORNEY

KNOW ALL MEN BY THESE PRESENTS:

That GULF INSURANCE COMPANY, a corporation of the State of Missouri, hereinafter called "Company," does hereby appoint

CHARLENE M. WARD or S. GARY SIMS or JOHN C. KNIGHT
ARTESIA, NEW MEXICO

its true and lawful Attorney-in-fact to make, execute, seal and deliver on its behalf, as surety, any and all bonds and undertakings of suretyship, not to exceed \$250,000.00 or any bond where the penalty is not stated in the bond form. No authority is granted where the attorney in fact is a party at interest in the bond.

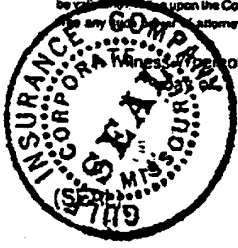
The execution of such bonds or undertakings in pursuance of these presents shall be as binding upon the Company as if they had been executed and acknowledged by the regularly elected officers of the Company.

This Power of Attorney is issued pursuant to and by authority of the following resolution of the Board of Directors of the Company, adopted effective July 1, 1983, and now in full force and effect:

"Resolved that the President, or any Senior Vice President, or any Vice President, or the Secretary, or any Assistant Secretary may appoint Attorneys-in-fact in any state, territory or federal district to represent this Company and to act on its behalf within the scope of the authority granted to them, in writing, which authority may include the power to make, execute, seal and deliver on behalf of this Company, as surety, and as its act and deed, any and all bonds and undertakings of suretyship and other documents that the ordinary course of surety business may require, including authority to appoint agents for the service of process in any jurisdiction, state or federal, and authority to attest to the signature of the President, or any Senior Vice President, or any Vice President, or the Secretary, or any Assistant Secretary and to verify any affidavit or other statement relating to the foregoing, and to certify to a copy of any of the bylaws of the Company and to any resolutions adopted by its Board of Directors; and any such Attorney-in-fact may be removed and the authority granted him revoked by the President, or any Senior Vice President, or any Vice President, or the Secretary, or any Assistant Secretary, or by the Board of Directors."

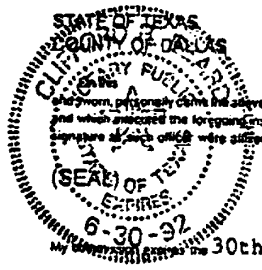
This Power of Attorney and Certificate are signed and sealed by facsimile under and by authority of the following resolution of the Board of Directors of the Company, adopted effective July 1, 1983, and now in full force and effect:

"Resolved that the signature of the President, or of any Senior Vice President, or of any Vice President, or of the Secretary, or of any Assistant Secretary, and the seal of the Company may be affixed by facsimile to any power of attorney or to any certificate relating thereto appointing Attorneys-in-fact for purposes only of executing and attesting bonds and undertakings and other writings obligatory in the nature thereof, including any such power of attorney and certificate revoking the authority of the foregoing Attorneys-in-fact, as well as for the appointment of agents for the service of process in any jurisdiction, state or federal, including any such power of attorney and certificate revoking the authority of such agents; and any such power of attorney or certificate bearing such facsimile signature or facsimile seal shall be valid and binding upon the Company and any such power of attorney or certificate so executed and certified by such facsimile signature and facsimile seal shall be valid and binding upon the Company at the time and in the same manner as if the power of attorney and certificate are executed and in the future with respect to any bond or undertaking to which they are attached."



of the Company has caused this Power of Attorney to be signed and its corporate seal to be affixed by its authorized officer this
April 12, 1991

By [Signature]
Sr. Vice President

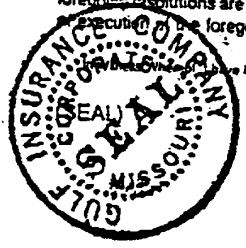


12 day of April, 1991, before me, a Notary Public of the State and County aforesaid, residing therein, duly commissioned and sworn, personally came the above named officer of GULF INSURANCE COMPANY, who being by me first duly sworn according to law, did depose and say that he is that officer of the company described in and which executed the foregoing instrument; that he knows the seal of said company; that the seal affixed to such instrument is the corporate seal of said company; and that the corporate seal and his signature as such officer were signed and subscribed to the said instrument by the authority and direction of said company.

[Signature]
Clifford R. Beard, Notary Public
1992

CERTIFICATE

I, the undersigned, do hereby certify that the original Power of Attorney of which the foregoing is a true and correct copy is in full force and effect, and the foregoing resolutions are true and correct transcripts from the records of GULF INSURANCE COMPANY and that the above named officer was on the date of execution of the foregoing Power of Attorney authorized to execute this Power of Attorney.



hereunto subscribed my name and affixed the corporate seal of Gulf Insurance Company this
22nd day of April, 1999.

[Signature]
Vice President

STATE OF NEW MEXICO
ONE-WELL PLUGGING BOND

FOR CHAVES, EDDY, LEA, MCKINLEY, RIO ARRIBA, ROOSEVELT,
SANDOVAL, AND SAN JUAN COUNTIES ONLY

BOND NO. 58 96 12
AMOUNT OF BOND \$95,000.00
COUNTY Eddy

NOTE: For wells less than 5,000 feet deep, the minimum bond is \$5,000.00*
For wells 5,000 to 10,000 feet deep, the minimum bond is \$7,500.00*
For wells more than 10,000 feet deep, the minimum bond is \$10,000.00

*Under certain conditions, a well being drilled under a \$5,000.00 or \$7,500 bond may be permitted to be drilled as much as 500 feet deeper than the normal maximum depth, i.e., a well being drilled under a \$5,000.00 bond may be permitted to go to 5,500 feet, and a well being drilled under a \$7,500.00 bond may be permitted to go to 10,500 feet. (See Rule 101)

File with Oil Conservation Division, P. O. Box 2088, Santa Fe 87501

KNOW ALL MEN BY THESE PRESENTS:

That Navajo Refining Company, ~~INCORPORATED IN THE STATE OF NEW MEXICO~~
(a corporation organized in the State of New Mexico, with its principal office in the city
of Artesia, State of New Mexico, and authorized to do business
in the State of New Mexico), as PRINCIPAL, and Gulf Insurance Company,
a corporation organized and existing under the laws of the State of
Missouri, and authorized to do business in the State of New
Mexico, as SURETY, are held firmly bound unto the State of New Mexico, for the use and benefit of the Oil
Conservation Division of New Mexico pursuant to Section 70-2-12, New Mexico Statutes Annotated, 1978
Compilation, as amended, in the sum of Ninety-Five Thousand and no/100ths
Dollars lawful money of the United
States, for the payment of which, well and truly to be made, said PRINCIPAL and SURETY hereby bind
themselves, their successors and assigns, jointly and severally, firmly by these presents.

The conditions of this obligation are such that:

WHEREAS, The above principal has heretofore or may hereafter enter into oil and gas lease, or carbon
dioxide (CO₂) gas leases, or helium gas leases, or brine mineral leases with the State of New Mexico; and

WHEREAS, The above principal has heretofore or may hereafter enter into oil and gas leases, or carbon
dioxide (CO₂) gas leases, or helium gas leases, or brine mineral leases on lands patented by the United
States of America to private individuals, and on lands otherwise owned by private individuals; and

WHEREAS, The above principal, individually, or in association with one or more other parties, has
commenced or may commence the drilling of one well not to exceed a depth of 9200
feet, to prospect for and produce oil or gas, or carbon dioxide (CO₂) gas or helium gas, or does own or
may acquire, own or operate such well, or such well started by others on land embraced in said State oil
and gas leases, or carbon dioxide (CO₂) leases, or helium gas leases, or brine minerals, and on land
patented by the United States of America to private individuals, and on land otherwise owned by private
individuals, the identification and location of said well being being
1980' FNL and 660' FWL, Section 12, Township 18 ~~ENERGY~~(South)

(Here state exact legal footage description)
Range 27 (East) ~~N.M.S.~~, N.M.P.M., Eddy County, New Mexico.

NOW, THEREFORE, If the above bounden principal and surety or either of them or their successors or
assigns, or any of them, shall plug said well when dry or when abandoned in accordance with the rules,
regulations, and orders of the Oil Conservation Division of New Mexico in such way as to confine the oil,
gas, brine, and water in the strata in which they are found, and to prevent them from escaping into other
strata;

THEN, THEREFORE, This obligation shall be null and void; otherwise and in default of complete
compliance with any and all of said obligations, the same shall remain in full force and effect.

Signed and sealed this 22nd day of April, 1999.

ATTACHMENT A

Sunday, May 9, 1999

Pressure testing the 8-5/8 inch Surface Casing from 1922 feet (KB) to 30 feet (KB) using a fresh water fluid. Pressure testing was performed after the perforations between 1446 feet and 1462 feet were squeezed with cement.

Pressure Test No. 1

Time (hrs.)	Cumulative Time (minutes)	Pressure (psig)	Delta Pressure (psi)
1303	0	660	----
1308	5	660	0
1313	10	660	0
1318	15	660	0
1323	20	660	0
1328	25	659	-1
1333	30	659	0

Total =-1 psi per 30 minutes

Pressure Test No. 2

Time (hrs.)	Cumulative Time (minutes)	Pressure (psig)	Delta Pressure (psi)
1333	0	659	----
1338	5	659	0
1343	10	659	0
1348	15	658	-1
1353	20	658	0
1358	25	657	-1
1303	30	657	0

Total =-2 psi per 30 minutes



WF

TELEPHONE
(505) 748-3311



REFINING COMPANY

EASYLINK
62905278

501 EAST MAIN STREET • P. O. BOX 159
ARTESIA, NEW MEXICO 88211-0159

FAX
(505) 746-6410 ACCTG
(505) 746-6155 EXEC
(505) 748-9077 ENGR
(505) 746-4438 P / L

May 10, 1999

Mr. Tim Gumm
State of New Mexico
Energy, Minerals and Natural
Resources Department
Oil Conservation Division
811 South First Street
Artesia, New Mexico 88210



RE: Re-Entry for Navajo Refining Company's Waste Disposal Well No. 2

Dear Mr. Gumm:

Navajo Refining Company (Navajo) has contracted Subsurface Technology, Inc. to re-enter, test and complete Waste Disposal Well No. 2 (WDW-2), formerly the Chukka Federal No. 2 operated by The Eastland Oil Company. The United States Department of the Interior, Bureau of Land Management approved the Application for Permit to Drill or Deepen on April 27, 1999. Subsequent approval from the State of New Mexico Oil Conservation Commission (OCD) was granted on Tuesday, May 4, 1999.

Navajo initiated field operations on Wednesday, May 5, 1999. The existing pumping equipment, rods, and tubing were removed from the wellbore. The perforations from 1446 feet to 1462 feet were squeezed using 100 sacks of Class 'H' cement (approximately 50 sacks of cement were displaced into the perforated interval). The cement was allowed to cure and drilled out to a total depth of 1922 feet (KB)(1911 feet below ground level).

On Sunday, May 9, 1999, the 8-5/8 inch surface casing, set from 1955 feet (KB) to surface, was pressure tested for internal mechanical integrity between 1922 feet (KB) and 30 feet (KB) using a packer set at 30 feet. The 8-5/8 inch surface casing was pressure tested to 660 pounds per square inch and monitored at the surface for one hour (Attachment A). The fluid used for testing was a clean fresh water fluid. A pressure loss of 1 psi (0.15%) was observed during the first 30 minutes of the test. A pressure loss of 2 psi (0.30%) was observed during the last 30 minutes of the test. The results from the pressure test confirmed internal mechanical integrity of the 8-5/8 inch surface casing from 1922 feet (KB) to 30 feet (KB).

An Independent Refinery Serving . . .
NEW MEXICO • ARIZONA • WEST TEXAS • NORTHERN MEXICO

The 8-5/8 inch surface casing was originally set in an 11 inch open-hole to a depth of 1955 feet (KB) and cemented to surface using 700 sacks of Class 'H' cement with 2% gel and 100 sacks of Class 'H' neat. A total of 200 sacks of cement was recorded circulated to surface. The calculated volume between an 11 inch hole and 8-5/8 inch casing is (0.2407 cubic feet per foot X 1955 feet) 471 cubic feet. The volume of cement pumped is (1.18 cubic feet per sack X 800 sacks) 944 cubic feet for an excess of 473 cubic feet or 400 sacks circulated to surface. The calculated volume of cement and apparent volume of actual cement pumped indicated excess cement was circulated to surface.

On Sunday, May 9, 1999, Halliburton Logging Services completed a cement bond and microseismogram (same as a variable density log) logging survey within the 8-5/8 inch casing from a wireline total depth of 1919 feet (KB) to the surface (Attachment B). The results from the survey indicate a continuous column of cement from 1922 feet to surface with good bonding characteristics. The cement behind the 8-5/8 inch casing will provide an effective hydraulic seal to prevent the movement of groundwater fluids into the underground source of drinking water with a base at 473 feet.

Please review and approve the pressure testing and cement bond log results at your earliest convenience. Navajo will proceed with the mobilization of the drilling rig Wednesday, May 12, 1999 and begin re-entry of the WDW-2 wellbore according to the approved drilling program. Navajo will periodically contact the OCD, Artesia office with a status update of the re-entry operations. The Bureau of Land Management will be notified in sufficient time for a representative to witness the cementing of the 5-1/2 inch protection casing.

Should you have any questions or concerns, please call me at (505) 748-3311.

Sincerely yours,



Darrell Moore
Environmental Manager for Water and Waste

c: Mr. David Glass
Bureau of Land Management
Roswell Field Office
2909 West Second Street
Roswell, New Mexico 88201

Mr. Brian Rogers
Subsurface Technology, Inc.
7020 Portwest, Suite 100
Houston, Texas 77024

File: Injection Wells



March 30, 1999

Mr. Barry Hunt
Bureau of Land Management
Carlsbad Resource Area
620 East Greene Street
Carlsbad, New Mexico 88220-6292

RE: Navajo Refining Company Proposed WDW-2, Eddy County, New Mexico
Request for On-Site Inspection of Wellsite
Subsurface Project No. 60A4937

Dear Mr. Hunt:

Navajo Refining Company (Navajo) is purchasing an existing well in Eddy County, New Mexico for planned use as a Class I nonhazardous effluent disposal well, and plans to reenter and test the well in the next few months. The well is on federal land. Subsurface Technology, Inc. (Subsurface), formerly Envirocorp Services & Technology, Inc., on behalf of Navajo, requests your participation in an on-site inspection of the wellsite as soon as possible.

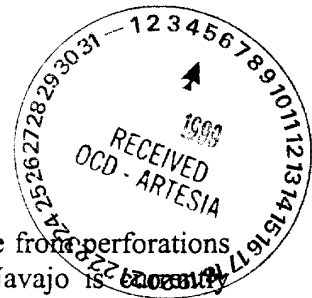
Pertinent information about the existing well is provided below:

Lease Number:	NM 6852
Current Operator: Lease:	The Eastland Oil Company (September 1990 to present) Chukka Federal No. 2
Former Operator:	Fred Pool Drilling Company (August 1985 to September 1990)
Former Operator: Former Lease:	Amoco Production Company (July 1973 to August 1985) Diamond Federal Gas Com. No. 1
Location:	1980' FNL, 660' FWL (SW/4 NW/4, Unit Letter E) 12-T18S-R27E

Topographic Map (Attachment A)

Original Total Depth: 10,372 feet
Plugged-Back Total Depth: 1912 feet
Well Schematic (Attachment B)

Status: The well is producing from the Penrose formation perforations between 1446 feet and 1462 feet. Navajo is currently



ENVIROCORP SERVICES & TECHNOLOGY, INC.

7020 PORTWEST DRIVE, #100 HOUSTON, TEXAS 77024 713/880-4640 FAX 713/880-3248

Mr. Barry Hunt
Bureau of Land Management

March 30, 1999
Page 2

negotiating to purchase the well from Eastland Oil Company. The purchase should be completed by April 1, 1999.

Navajo proposes to reenter the well, squeeze the perforations from 1446 feet to 1462 feet, drill out the plugs and clean out the well to approximately 9200 feet, set 5-1/2 inch casing at 9200 feet and cement it to the surface, and conduct one or more injectivity tests. The proposed injection intervals are porous zones in the lower portion of the Wolfcamp Formation (7270 feet to 7645 feet), the Cisco Formation (7645 feet to 8390 feet), and the Canyon Formation (8390 feet to 8894 feet). Navajo's proposed reentry, testing, and recompletion procedure is included as Attachment C. A schematic of the well after recompletion is included as Attachment D.

Subsurface is currently preparing a discharge plan application for the Class I well for Navajo to submit to the New Mexico Oil Conservation Division and the BLM Roswell office near the end of April 1999. Subsurface is also preparing BLM Form 3160-3 (Application for Permit to Drill) for Navajo to submit to the BLM Roswell office.

Please contact me at (713) 880-4640 to schedule an on-site inspection of the wellsite. Do not hesitate to call me if you need additional information or if you have questions.

Sincerely,



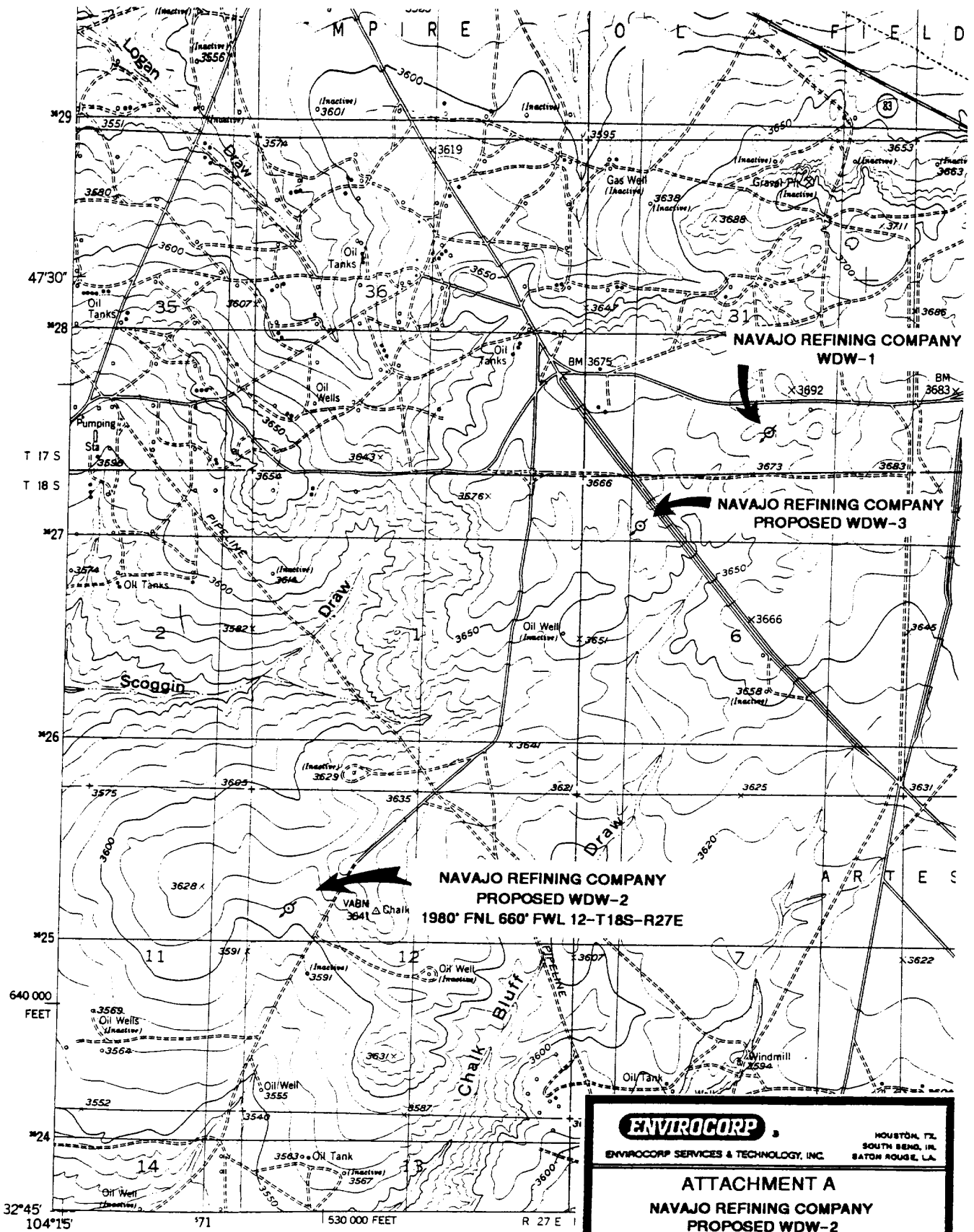
Nancy L. Niemann
Senior Geologist

NLN/paf
Attachments

c: Joe Lara – BLM, Carlsbad
David Glass – BLM, Roswell
Wayne Price – OCD, Santa Fe
Tim Gum – OCD, Artesia
Phil Youngblood – Navajo
Darrell Moore – Navajo
George Walbert – Holly Petroleum, Inc.

355160a4937\hunt ltr.doc

ENVIROCORP



RED LAKE QUADRANGLE

ENVIROCORP
 HOUSTON, TX
 SOUTH BEND, IN
 BATON ROUGE, LA

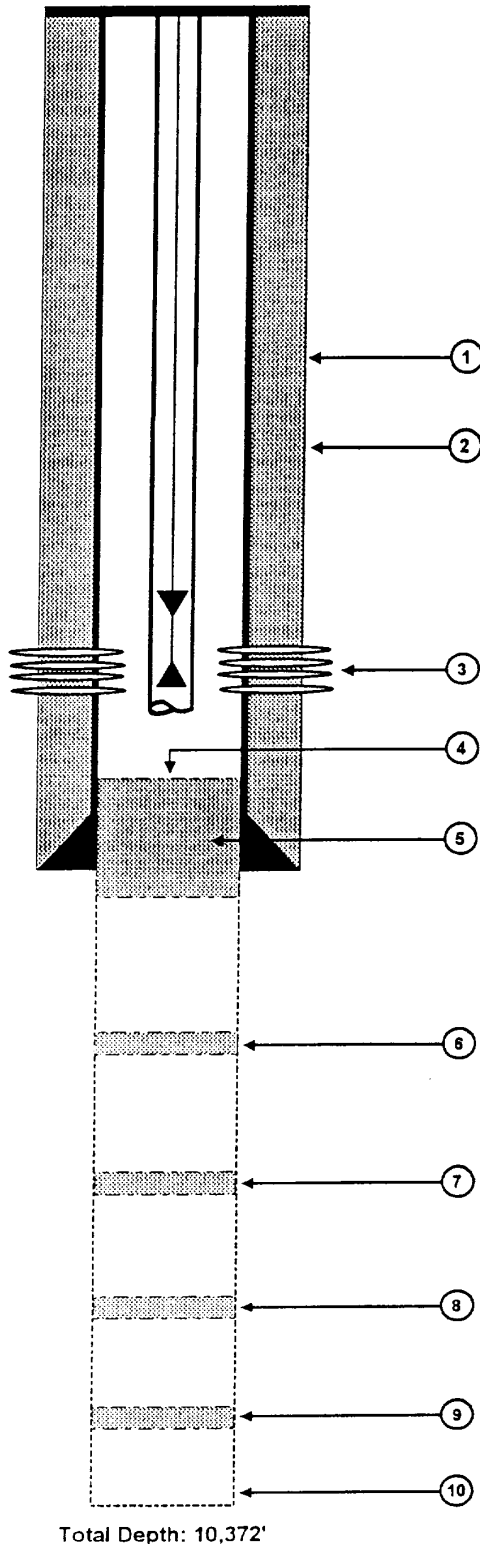
ENVIROCORP SERVICES & TECHNOLOGY, INC.

ATTACHMENT A
NAVAJO REFINING COMPANY
PROPOSED WDW-2
1980' FNL 660' FWL 12-T18S-R27E
EDDY COUNTY, NM

DATE:	CHECKED BY:	JOB NO:
DRAWN BY:	APPROVED BY:	DWG. NO:

BELOW GROUND DETAIL

All depths are referenced to the kelly bushing elevation of 13 feet. The surface elevation is 3610 feet.



1. Base of the USDW at 473'.

2. Casing: 8-5/8", 32 lb/ft, set at 1955' in an 11" hole. Cemented to surface with 700 sacks of cement.

3. Perforations: 1446' - 1462'.

4. PBTD: 1912'.

5. Cement Plug: 40 sacks from 1912' to 2045'.

6. Cement Plug: 50 sacks from 3620' to 3720'.

7. Cement Plug: 40 sacks from 5456' to 5556'.

8. Cement Plug: 50 sacks from 7435' to 7535'.

9. Cement Plug: 45 sacks from 9675' to 9775'.

10. Hole Size: 7-7/8".

Total Depth: 10,372'

		HOUSTON, TX.
		SOUTH BEND, IN.
		BATON ROUGE, LA.
ATTACHMENT III-2 NAVAJO REFINING COMPANY CURRENT WELL CONFIGURATION CHUKKA FEDERAL No. 2		
Date: 03/10/99	Checked By: NLN	Job No.: 60A4937
Drawn By: LKM	Approved By: NLN	File: WDW2A.DS4

ATTACHMENT C

DRILLING AND RECOMPLETION PROCEDURE FOR NAVAJO REFINING COMPANY'S PROPOSED WDW-2

1. Obtain all permits and approvals for the reentry, testing and completion of a currently existing well.
2. Move in and rig up a workover unit. Remove the pumping equipment and pull the tubing out of the well.
3. Go in the hole with a squeeze packer and squeeze the perforations from 1446 feet to 1462 feet with 100 sacks of Class "H" cement. Allow the cement to cure.
4. Drill out the cement, circulate the well clean and pressure test the squeezed perforations at 500 psig for 30 minutes. Pull the squeeze tools out of the hole.
5. Conduct a CBL/VDL survey from 1912 feet to the surface. Submit the results of the pressure test and CBL/VDL survey to the OCD and the BLM for their review and approval prior to mobilizing the drilling rig.
6. After receiving approval from the OCD and the BLM to continue the reentry, prepare the location for the selected drilling rig. Construct the lined reserve pits, dig out the cellar, and install a mousehole and rathole.
7. Move in and rig up the rotary drilling rig and install the blowout preventers.
8. Drill out the following cement plugs and conduct deviation surveys every 1000 feet or on trips:
 - a. 1912 feet to 2045 feet, 40 sacks
 - b. 3620 feet to 3720 feet, 50 sacks
 - c. 5456 feet to 5556 feet, 40 sacks
 - d. 7435 feet to 7535 feet, 50 sacks
9. Clean the well out to a depth of 9200 feet and circulate and condition the hole for logging. Make a wiper trip to the base of the 8-5/8 inch surface casing while strapping the drillpipe.
10. Conduct a formation microimager (FMI) survey with gamma ray from the well's total depth to 4000 feet. Continue the four-arm caliper survey to the 8-5/8 inch

ATTACHMENT C (Continued)

casing shoe. Process the FMI for fracture identification over the lower 200 feet of the confining zone and zones of interest in the injection zone, if warranted.

11. Spot a gelled pill at 9200 feet and lay down the drillpipe.
12. Run the 5-1/2 inch casing with a packoff shoe and float collar to 9200 feet. Install a "DV" tool at 5500 feet. Run centralizers at approximately 120-foot intervals.
13. Cement the 5-1/2 inch casing in place. Use a minimum of 20% excess cement as calculated from the caliper log. Circulate cement to the surface and allow to cure.
14. Clean out the mud pits and release the drilling rig 12 hours after cementing the 5-1/2 inch casing in place.
15. Stabilize the 5-1/2 inch casing at the surface using ready-mix cement.
16. Move in and rig up the completion rig pump, tank, power swivel, and work string. Install the blowout preventer.
17. Run in the well with a 4-3/4 inch bit to the "DV" tool and test the casing to 1500 psig for 30 minutes.
18. Drill out the "DV" tool and clean out the wellbore to the float collar. Test the casing to 1500 psig for 30 minutes. Circulate the wellbore with clean brine, preceded by 15% HCL to clean the casing. Trip the work string out of the well.
19. Conduct the casing inspection, CBL/VDL, and differential temperature surveys.
20. Perforate the selected injection interval as determined from the open hole logs. (Zone 1).
21. Run in the well with a packer and tailpipe. Set the packer above the top perforation and swab test the perforated interval. Recover at minimum two tubing volumes of the reservoir fluid for analysis (Note: Set up H₂S monitoring equipment prior to swabbing operations).
22. Acidize the zone using diverters. Pull the packer out of the well.
23. Perforate the next selected injection interval as determined from the open hole logs (Zone 2).

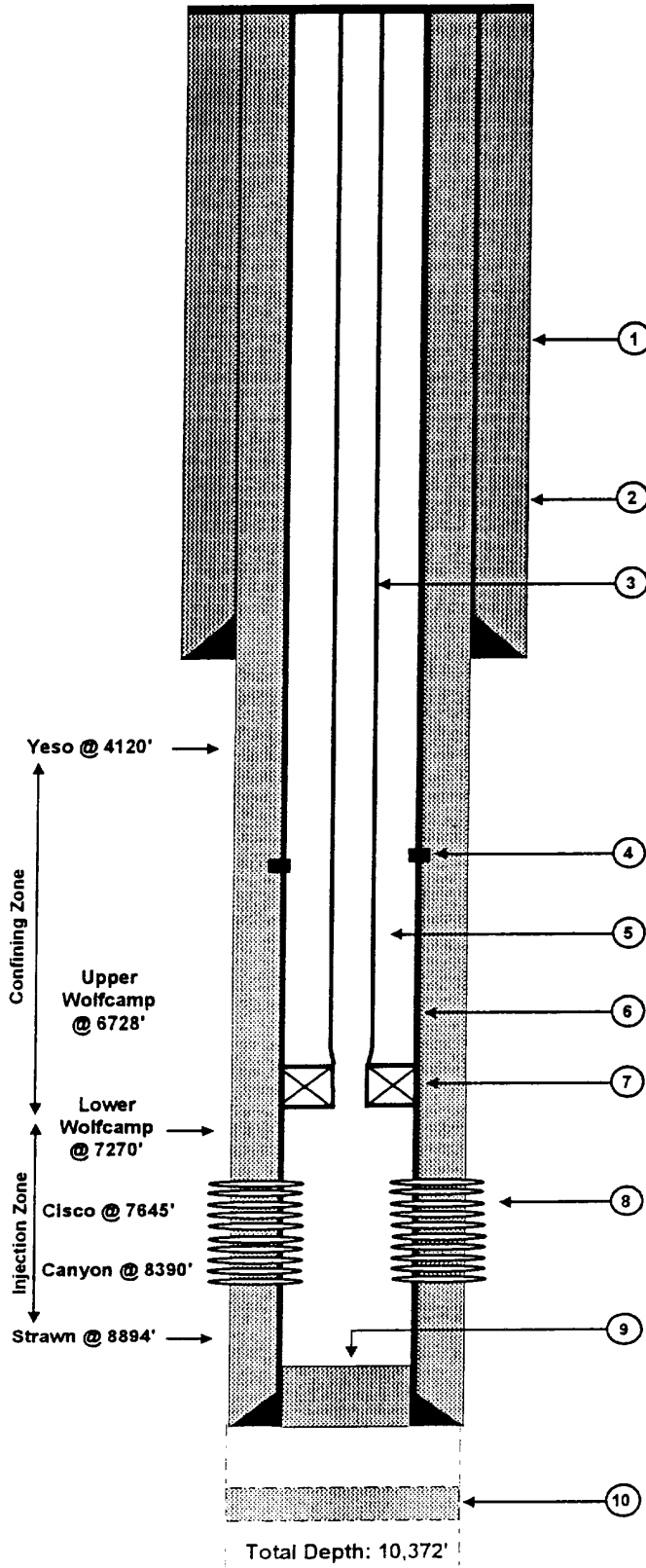
ATTACHMENT C (Continued)

24. Run a retrievable bridge plug and packer into the well and isolate Zone 2.
25. Acidize Zone 2 using diverters. Pull the retrievable bridge plug and packer out of the well, laying down the work string.
26. Conduct an injection test down the 5-1/2 inch casing at 420 gpm for 12 hours followed by a pressure falloff test.
27. Conduct a differential temperature survey and radioactive tracer survey to determine the injection profile.
28. Run the injection tubing and packer. Fill the annulus with corrosion inhibited brine.
29. Wait for the well system to come to thermal stabilization (approximately 24 hours).
30. Conduct an annulus pressure test witnessed by the OCD.
31. Rig down and move out all equipment and close the reserve pit.
32. Install the annulus monitoring system and return the well to the client.

ATTACHMENT D

BELOW GROUND DETAIL

All depths are referenced to the kelly bushing elevation of 13 feet. Surface elevation is 3610 feet.



1. Base of the USDW at 473'.

2. Casing: 8-5/8", 32 lb/ft, set at 1955' in an 11" hole. Cemented to surface with 700 sacks of cement.

3. Injection Tubing: 3-1/2".

4. DV Tool: at 5500'.

5. Annulus Fluid: Corrosion inhibited brine water.

6. Protection Casing: 5-1/2" set in a 7-7/8" hole. Casing cemented to surface. Calipered hole volume plus 20% excess.

7. Packer: Fullbore retrievable packer set 100' above the top perforated injection interval.

8. Perforations: Perforated in two intervals between 7270' and 8894'.

9. PBTD: 9200'

10. Cement Plug: 45 sacks from 9675' to 9775'.

ENVIROCORP ®		HOUSTON, TX. SOUTH BEND, IN. BATON ROUGE, LA.
ATTACHMENT III-4 NAVAJO REFINING COMPANY PROPOSED WDW-2 ARTESIA, NEW MEXICO		
Date: 03/11/99	Checked By: NLN	Job No.: 60A4937
Drawn By: LKM	Approved By: NLN	File: WDW2B.DS4

CONDITIONS OF APPROVAL - DRILLING

Operator's Name: Navajo Refining Company Well No. 2 - WDW

Location: 1980' FNL & 660' FWL sec. 12, T. 18 S., R. 27 E.

Lease: NM-6852

.....

I. DRILLING OPERATIONS REQUIREMENTS: [Deepening]

1. The Bureau of Land Management (BLM) is to be notified at (505) 887-6544 in sufficient time for a representative to witness:

A. Cementing casing: 5-1/2 inch

2. Unless the injection casing has been run and cemented or the well has been properly plugged, the drilling rig shall not be removed from over the hole without prior approval.

II. CASING:

1. Minimum required fill of cement behind the 5-1/2 inch injection casing is sufficient to circulate to the surface.

III. PRESSURE CONTROL:

1. Before drilling into the 100 foot 8-5/8 inch surface casing shoe cement plug at approximately 1912 feet, the blowout preventer assembly shall consist of a minimum of One Annular Preventer, Two Ram-Type Preventers, and a Kelly Cock/Stabbing Valve

2. Minimum working pressure of the blowout preventer and related equipment (BOPE) shall be 3000 psi.

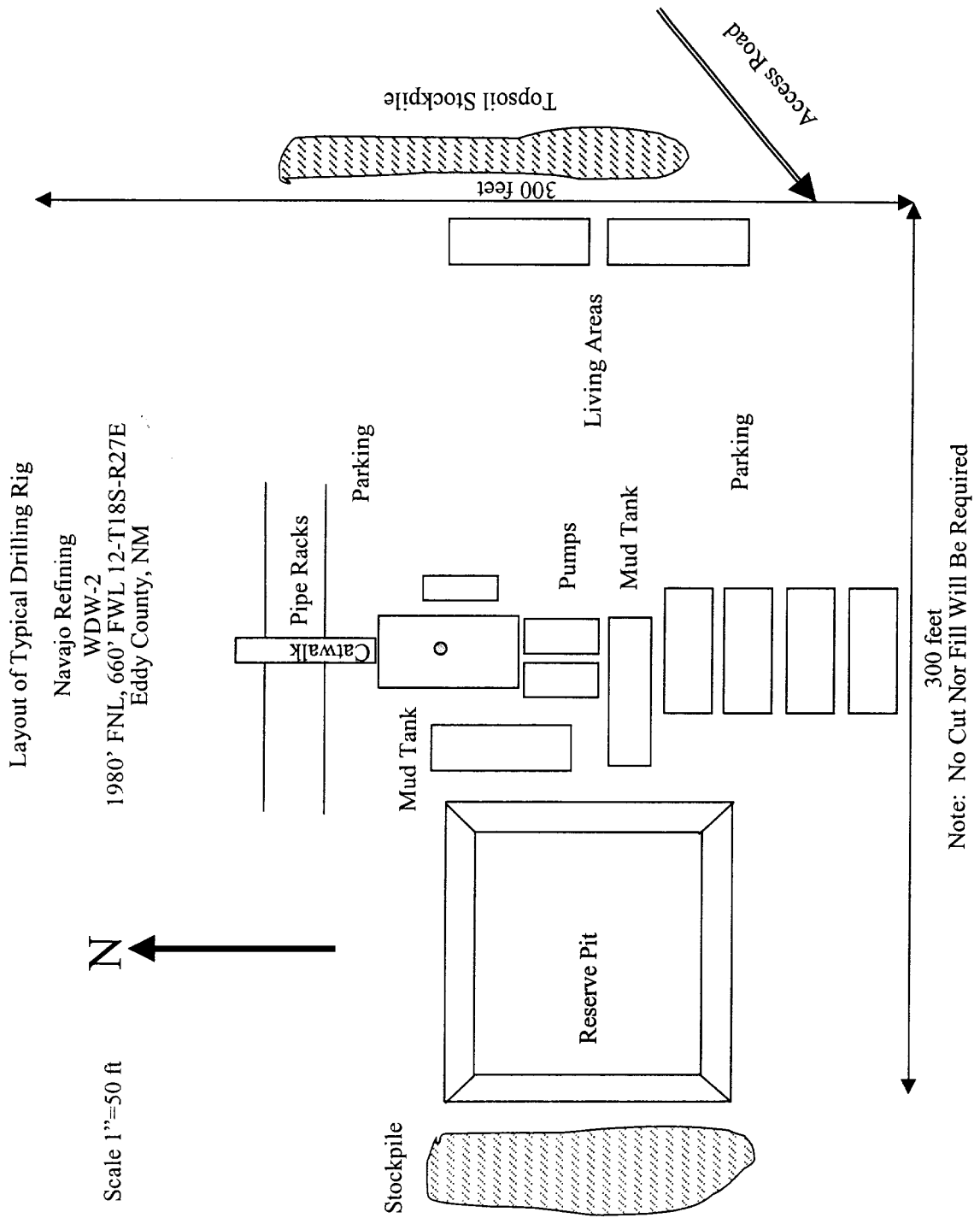
3. After drilling into the 100 foot 8-5/8 inch surface casing shoe cement plug at approximately 1912 feet and before drilling into the 100 foot Abo cement plug at approximately 5450 feet, the BOPE shall be tested as described in Onshore Order No. 2. Any equipment failing to test satisfactorily shall be repaired or replaced.

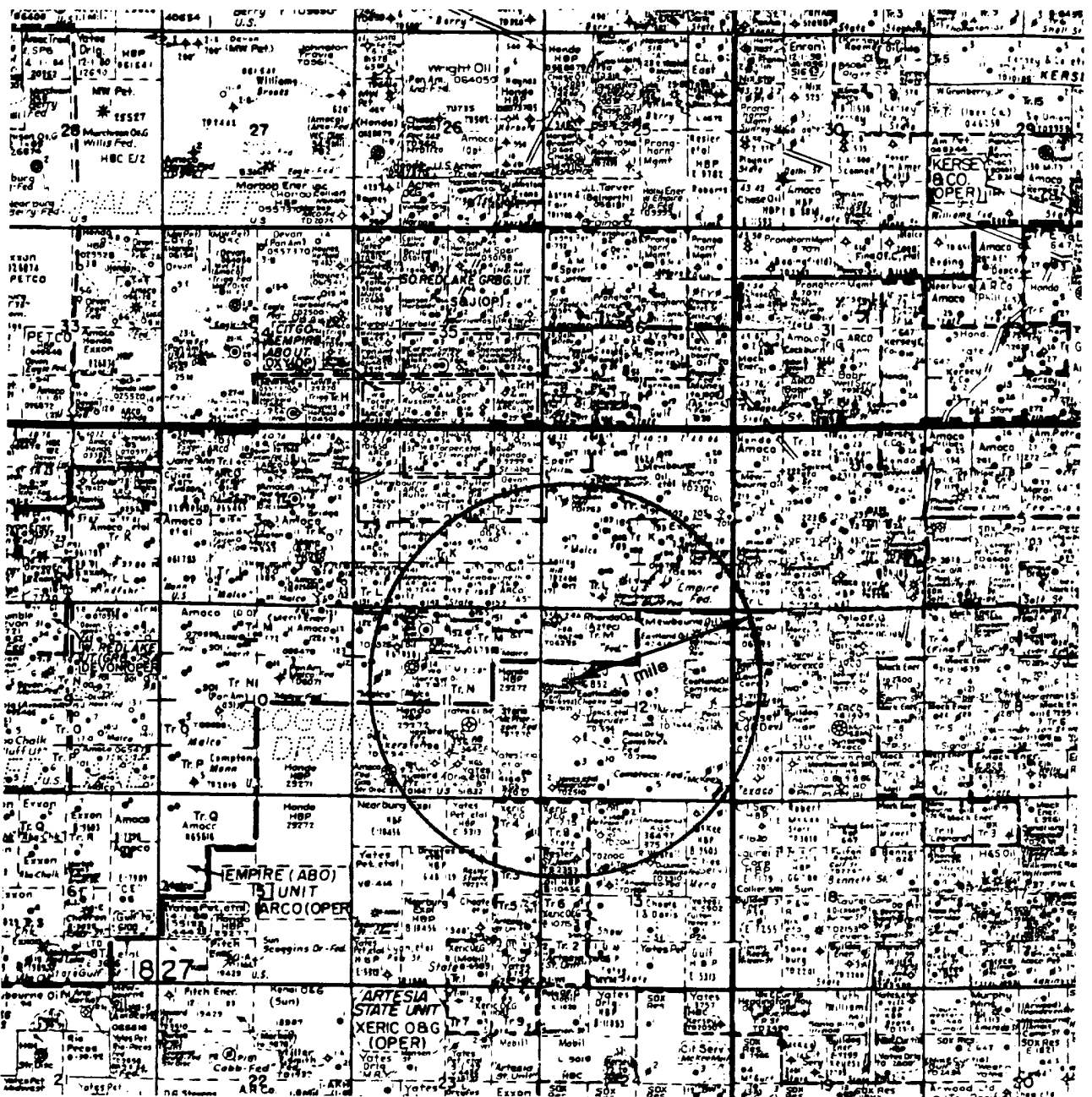
A. The results of the test will be reported to the BLM Carlsbad Resource Area office at 620 East Greene Street, Carlsbad, New Mexico 88220-6292.

B. Testing fluid must be water or an appropriate clear liquid suitable for sub-freezing temperatures. Use of drilling mud for testing is not permitted since it can mask small leaks.

C. Testing must be done in a safe workman like manner. Hard line connections shall be required.

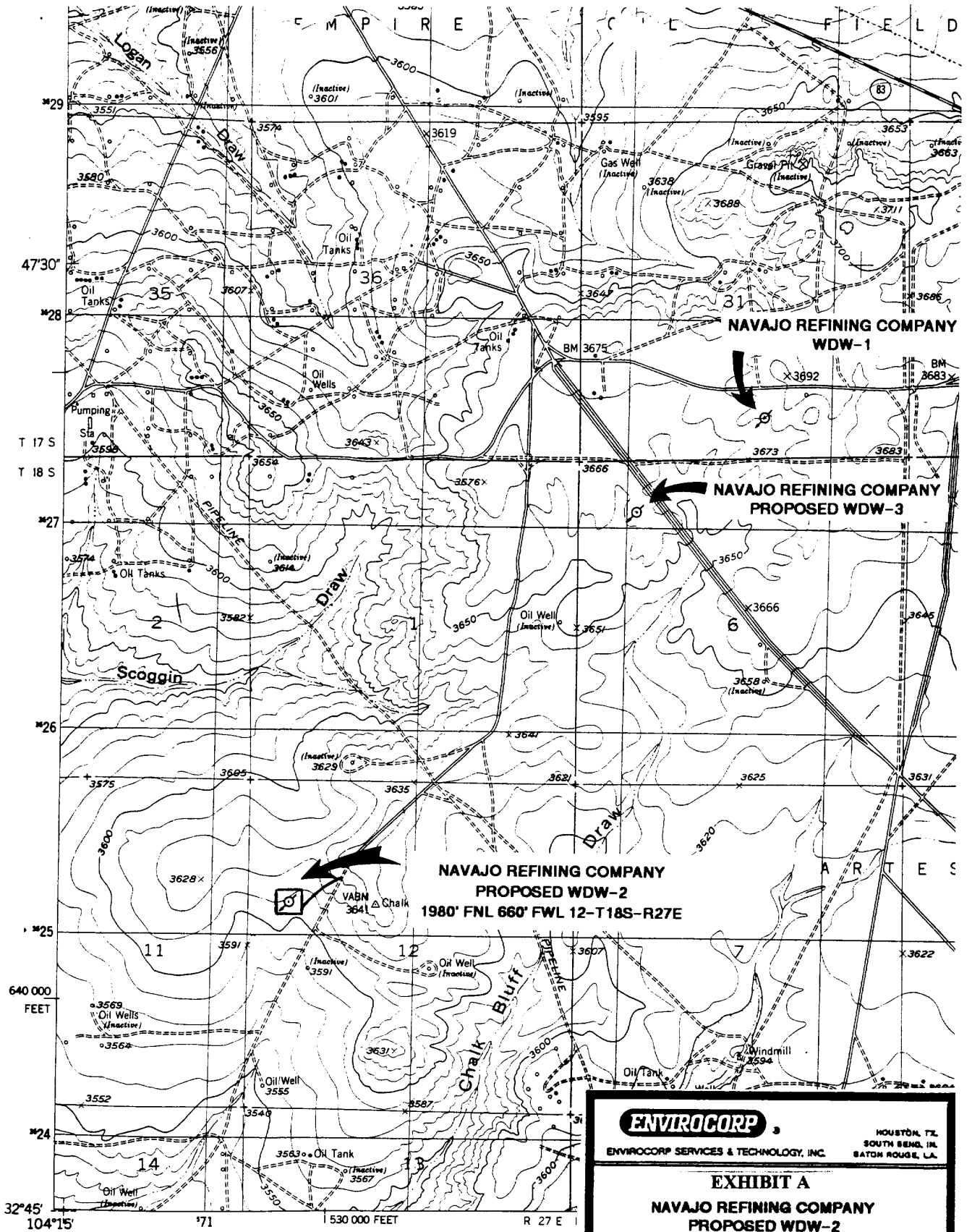
EXHIBIT C





Map courtesy of Midland Map Company

ENVIROCORP		HOUSTON, TX SOUTH BEND, IN BATON ROUGE, LA
ENVIROCORP SERVICES & TECHNOLOGY, INC.		
EXHIBIT B		
WELLS WITHIN 1 MILE OF		
NAVAJO REFINING COMPANY'S		
PROPOSED WDW-2		
1980' FNL, 660' FWL 12-T18S-R27E		
DATE: 4/7/99	CHECKED BY:	JOB NO:
DRAWN BY: NLN	APPROVED BY:	DWG. NO:



RED LAKE QUADRANGLE

ENVIROCORP

ENVIROCORP SERVICES & TECHNOLOGY, INC.

HOUSTON, TX
SOUTH BEND, IN
BATON ROUGE, LA.

EXHIBIT A

**NAVAJO REFINING COMPANY
PROPOSED WDW-2
1980' FNL 660' FWL 12-T18S-R27E
EDDY COUNTY, NM**

DATE:	CHECKED BY:	JOB NO:
DRAWN BY:	APPROVED BY:	DWG. NO:

SURFACE USE PLAN

NAVAJO REFINING COMPANY
PROPOSED WDW-2
1980' FSL, 660' FWL of 12-T18S-R27E
EDDY COUNTY, NEW MEXICO

1. Existing Roads: Existing roads that lead to the proposed drillsite are shown on Exhibit A.
2. Access Roads To Be Constructed: No new access road is proposed.
3. Location of Existing Wells: Existing wells within one mile of proposed WDW-2 are shown on Exhibit B.
4. Location of Proposed Facilities If Well Is Completed: The well will be shut in after completion and testing.
5. Location and Type of Water Supply: Water for reentry, testing, and completion operations will be purchased from a commercial water hauler.
6. Source of Construction Materials: Materials required for construction of the site will be taken from a state-owned pit.
7. Methods of Handling Waste Disposal:
 - A. Drill cuttings will be disposed of in the drilling pits.
 - B. Drilling fluids will be allowed to evaporate in the drilling pits until the pits are dry.
 - C. Water produced during tests will be disposed of in the drilling pits.
 - D. Trash, waste paper, garbage, and junk will be buried in a trash pit and covered with a minimum of 24 inches of dirt. All waste material will be contained to prevent scattering by the wind. Location of the trash pit is shown on Exhibit C.

- E. All trash and debris will be buried or removed from the wellsite after finishing drilling and/or completion operations.
8. Ancillary Facilities: None anticipated.
9. Wellsite Layout:
- A. The wellsite will be surveyed, and a 400' x 400' area will be staked and flagged.
 - B. The dimensions and relative location of the drill pad, mud pit, and trash pit, with respect to the wellbore, are shown on Exhibit C.
 - C. Existing topsoil to a depth of 6 inches will be lifted and stockpiled at the northeastern (uphill) end of the well pad. The stockpiled topsoil will be located uphill to avoid mixing with subsurface materials.
 - D. The well pad will be surfaced with material found in place.
 - E. The pits for mud and cuttings will be lined with 6-mil plastic.
10. Plans for Restoration of Surface:
- A. After completion of drilling and/or completion operations, all equipment and other material not needed for operations will be removed. Pits will be filled and the location cleaned of all trash and junk.
 - B. Any unguarded pits containing fluids will be fenced until they are filled.
 - C. After abandonment, all equipment, trash, and junk will be removed and the location cleaned.
 - D. The stockpiled topsoil will be spread over the surface of the location.
11. Surface Ownership: U.S. Department of Interior, Bureau of Land Management.

12. Archaeological Survey: An archaeological survey of the drill pad was submitted to the BLM on July 31, 1985, on behalf of Fred Pool Drilling Company. An archeological survey was conducted by Navajo Refining Company and will be submitted by Navajo under separate cover.
13. Operator's Representatives: Representatives responsible for assuring compliance with the approved Surface Use Plan:

Mr. Darrell Moore
Navajo Refining Company
Post Office Box 159
Artesia, New Mexico 88211
505/748-3311

Mr. Jim Bundy
Subsurface Technology, Inc.
7020 Portwest Drive, Suite 100
Houston, Texas 77024
713/880-4640

Exhibits

- A. Topographic Map
- B. Oil and Gas Map
- C. Sketch of Well Pad

14. Certification:

I hereby certify that I, or persons under my direct supervision, have inspected the proposed drillsite and access route; that I am familiar with the conditions that exist; that the statements made in this plan are, to the best of my knowledge, true and correct; and that the work associated with the operations proposed herein will be performed by Navajo Refining Company and its contractors and subcontractors in conformity with this plan and the terms and conditions under which it is approved.

4/12/99
Date

Darrell Moore
Signature

Darrell Moore
Name

Env. Mgr. for Water & Waste
Title

Navajo Refining Company
Company

BOP Minimum Requirements

- a. 11-inch, 3000-psi working pressure double-hydraulic BOP.
- b. 11-inch, 3000-psi working pressure annular BOP.
- c. 3-inch, 3000-psi working pressure manual choke manifold.

A schematic of the BOP stack is included as Exhibit A.

8. Drill out the following cement plugs and conduct deviation surveys every 1000 feet or on trips:
 - a. 1912 feet to 2045 feet, 40 sacks
 - b. 3620 feet to 3720 feet, 50 sacks
 - c. 5456 feet to 5556 feet, 40 sacks
 - d. 7435 feet to 7535 feet, 50 sacks

Estimated Tops of Geologic Formations

San Andres	2005'	Lower Wolfcamp	7270'
Yeso	4210'	Cisco	7645'
Abo	5506'	Canyon	8390'
Wolfcamp	6728'	Strawn	8894'

No fresh water or hydrocarbons are expected to be encountered.

Expected Bottom-Hole Pressure and Hazards

The expected bottom-hole pressure is 3500 psia at the total depth of 9200 feet. The bottom-hole pressure was determined from the pressure measured in Navajo's WDW-1, or 2928 psia, at 7924 feet. Navajo's WDW-1 is completed in the same interval proposed for WDW-2 and is located 11,000 feet northeast of WDW-2 in 31-T17S-R28E. The average specific gravity of the fluid between 7924 feet and 9200 feet is expected to be 1.034, which is the specific gravity of the fluid swabbed from the interval between 8220 feet and 8476 feet in WDW-1. The expected bottom-hole pressure at 9200 feet in proposed WDW-2 is calculated below:

$$\begin{aligned}\text{BHP (9200 feet)} &= 2928 \text{ psia} + (9200 \text{ feet} - 7924 \text{ feet}) \times 0.433 \text{ psi/ft} \times 1.034 \\ &= 3500 \text{ psia}\end{aligned}$$

No abnormal pressures or temperatures or other hazards are expected while drilling or testing the well. Hydrogen sulfide monitoring equipment will be set up prior to swabbing operations.

9. Clean the well out to a depth of 9200 feet and circulate and condition the hole for logging. Make a wiper trip to the base of the 8-5/8 inch surface casing while strapping the drillpipe.
10. Conduct a formation microimager (FMI) survey with gamma ray from the well's total depth to 4000 feet. Continue the four-arm caliper survey to the 8-5/8 inch casing shoe. Process the FMI for fracture identification over the lower 200 feet of the confining zone and zones of interest in the injection zone, if warranted.
11. Spot a gelled pill at 9200 feet and lay down the drillpipe.
12. Run the 5-1/2 inch, 17-lb/ft, J-55, LT&C casing with a packoff shoe and float collar to 9200 feet. Install a "DV" tool at approximately 5800 feet. Run centralizers at approximately 120-foot intervals.
13. Cement the 5-1/2 inch casing in place. Use a minimum of 20% excess cement as calculated from the caliper log. Circulate cement to the surface and allow to cure.

Cement Program

- a. Stage 1 Cement (total depth to 5800 feet): Lightweight Class H with fly ash, gel, friction reducer, and salt mixed with fresh water.
 - b. Stage 2 Lead Cement (5200 feet to the surface): Lightweight Class C with gel and bridging agents mixed with fresh water.
 - c. Stage 2 Tail Cement (5800 feet to 5200 feet): Class C mixed with fresh water.
14. Clean out the mud pits and release the drilling rig 12 hours after cementing the 5-1/2 inch casing in place.
 15. Stabilize the 5-1/2 inch casing at the surface using ready-mix cement.

16. Move in and rig up the completion rig pump, tank, power swivel, and work string. Install the blowout preventer.
17. Run in the well with a 4-3/4 inch bit to the "DV" tool and test the casing to 1500 psig for 30 minutes.
18. Drill out the "DV" tool and clean out the wellbore to the float collar. Test the casing to 1500 psig for 30 minutes. Circulate the wellbore with clean brine, preceded by 15% HCL to clean the casing. Trip the work string out of the well.
19. Conduct the casing inspection, CBL/VDL, and differential temperature surveys.
20. Perforate the selected injection interval as determined from the open hole logs. Depending on the height of the perforated interval, the interval may be perforated in two stages, as Zone Nos. 1 and 2.
21. Run in the well with a packer and tailpipe. Set the packer above the top perforation and swab test the perforated interval. Recover at minimum two tubing volumes of the reservoir fluid for analysis (Note: Set up H₂S monitoring equipment prior to swabbing operations).
22. Acidize the perforated zone (Zone 1) using diverters. Pull the packer out of the well.
23. Perforate the next selected injection interval (Zone 2) as determined from the open hole logs.
24. Run a retrievable bridge plug and packer into the well and isolate Zone 2.
25. Acidize Zone 2 using diverters. Pull the retrievable bridge plug and packer out of the well, laying down the work string.
26. Conduct an injection test down the 5-1/2 inch casing at 420 gpm for 12 hours, followed by a pressure falloff test.
27. Conduct a differential temperature survey and radioactive tracer survey to determine the injection profile.

28. Run the injection tubing and packer. Fill the annulus with corrosion inhibited brine.
29. Wait for the well system to come to thermal stabilization (approximately 24 hours).
30. Conduct an annulus pressure test witnessed by the OCD.
31. Rig down and move out all equipment and close the reserve pit.
32. Install the annulus monitoring system and return the well to the client.

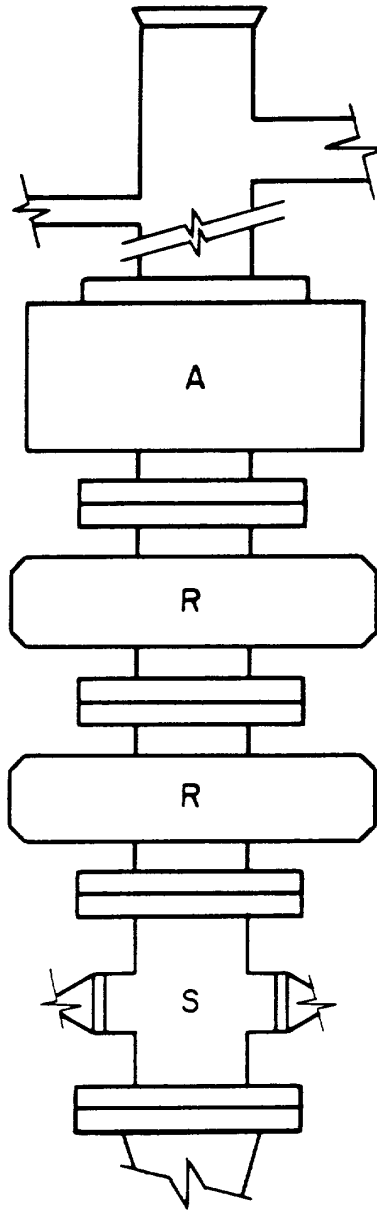
Logging, Testing, And Coring Program

A formation fluid sample will be retrieved from the proposed injection zone in proposed WDW-2. Navajo will conduct injectivity testing in the injection zone of proposed WDW-2.

No coring is planned.

The proposed logging program is described below:

HOLE/CASING	OPEN-HOLE LOGS	CASED-HOLE LOGS
Proposed WDW-2		
11 inch Surface Borehole (8-5/8 inch Casing) 1995 feet		Logs Run in 1973: Gamma Ray Logs Proposed on Reentry: Cement Bond/Variable Density Casing Inspection Log
7-7/8 inch Long-String Borehole (5-1/2 inch Casing) 9200 feet	Logs Run on August 27, 1973: Dual Induction-Laterolog/ Spontaneous Potential Compensated Neutron/ Formation Density Caliper Gamma Ray Logs Proposed on Reentry: Fracture Identification Log 4-Arm Caliper	Logs Proposed on Reentry: Cement Bond/Variable Density Casing Inspection Log Differential Temperature Log Radioactive Tracer Survey



A = ANNULAR-TYPE BLOWOUT PREVENTER
11-inch throughbore, 3000-psi working pressure

R = RAM-TYPE BLOWOUT PREVENTER
11-inch throughbore, 3000-psi working pressure

S = DRILLING SPOOL WITH SIDE OUTLET CONNECTIONS
FOR CHOKE AND KILL LINES

MANUAL CHOKE MANIFOLD
3-inch throughbore, 3000-psi working pressure

Source: API RP 53: Recommended Practices for
Blowout Prevention Equipment Systems

ENVIROCORP		HOUSTON, TX.
ENVIROCORP SERVICES & TECHNOLOGY, INC.		SOUTH BEND, IN.
		BATON ROUGE, LA.
EXHIBIT A		
BLOWOUT PREVENTER STACK AND MINIMUM REQUIREMENTS		
DATE: 4/7/98	CHECKED BY: JDB	JOB NO:
DRAWN BY: ALN	APPROVED BY:	DWG. NO:

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT
Oil Conservation Division

APPLICATION FOR PERMIT TO DRILL OR DEEPEN

5. LEASE DESIGNATION AND SERIAL NO.
NM 6852

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME
23592

8. FARM OR LEASE NAME, WELL NO.
WDW-#2

9. API WELL NO.
30-015-20894

10. FIELD AND POOL, OR WILDCAT
L. Wolfcamp-Cisco-Canyon
Injection Zone

11. SEC., T., R., M., OR B.L. AND SURVEY OR AREA
12-T18S-R27E

12. COUNTY OR PARISH
Eddy

13. STATE
NM

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE
11 air miles east-southeast of Artesia

15. DISTANCE FROM PROPOSED LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drg. unit line, if any)

16. NO. OF ACRES ASSIGNED TO THIS WELL

17. NO. OF ACRES ASSIGNED TO THIS WELL

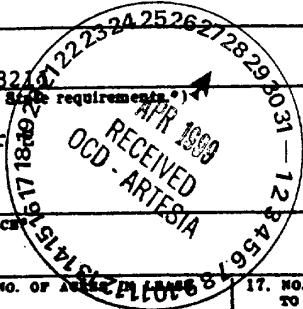
18. DISTANCE FROM PROPOSED LOCATION TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT.

19. PROPOSED DEPTH
9200'

20. ROTARY OR CABLE TOOLS
Rotary

21. ELEVATIONS (Show whether DF, RT, GR, etc.)
3607' GR, 3623' KB

22. APPROX. DATE WORK WILL START*
May 1, 1999



23. PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	GRADE SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
11"	8-5/8"	32 lb/ft	1995'	800 sx circulated
7-7/8"	5-1/2"	17 lb/ft	9200'	Caliper volume + 20% excess

Proposed reentry of the Eastland Oil Company (originally Fred Pool Drilling, Inc.) Chukka Federal No. 2 (PBSD 1912 feet, September 10, 1985) formerly Amoco Production Company Diamond Federal Gas Com. No. 1 (OTD 10,372 feet, P&A August 31, 1973). The well currently produces oil and gas from perforations from 1446 feet to 1462 feet (Penrose).

Navajo will squeeze the perforations from 1446 feet to 1462 feet, drill out cement plugs and clean out the well to 9200 feet, set 5-1/2 inch casing at 9200 feet and cement to the surface, perforate porous intervals in the Lower Wolfcamp, Cisco, and Canyon Formations between 7270 feet and 9200 feet, and conduct injectivity tests.

Attached are the Well Location Plat, Drilling Program, and Surface Use Plan.

SUBJECT TO LIKE APPROVAL BY STATE AND RIGHT OF WAY APPROVAL
APPROVAL SUBJECT TO GENERAL REQUIREMENTS AND SPECIAL STIPULATIONS

Post ID-1
5-28-99
Re-entry

4. ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen, give data on present perforations and proposed zone. If proposal is to drill or open directionally, give pertinent data on subsurface locations and measured and true vertical depths. Give drilling program, if any.

SIGNED David Mace TITLE Env. Mgr. DATE 4/15/99

PERMIT NO. _____ APPROVAL DATE _____

Application approval does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

CONDITIONS OF APPROVAL, IF ANY:
(ORIG. SGD.) DAVID R. GLASS PETROLEUM ENGINEER DATE APR 27 1999

APPROVED BY _____ TITLE _____ DATE _____

*See Instructions On Reverse Side

18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

District I
1625 N. French Dr., Hobbs, NM 88240

District II
811 South First, Artesia, NM 88210

District III
1000 Rio Brazos Rd., Aztec, NM 87410

District IV
2040 South Pacheco, Santa Fe, NM 87505

State of New Mexico
Energy, Minerals & Natural Resources Department

OIL CONSERVATION DIVISION
2040 South Pacheco
Santa Fe, NM 87505

Form C-102
Revised March 17, 1999

Submit to Appropriate District Office
State Lease - 4 Copies
Fee Lease - 3 Copies

AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number 30-015-20894		² Pool Code	³ Pool Name Lower Wolfcamp-Cisco-Canyon Injection Zone
⁴ Property Code	⁵ Property Name WDW-2		⁶ Well Number
⁷ OGRID No.	⁸ Operator Name Navajo Refining Company		⁹ Elevation 3607' GR

¹⁰ Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
E	12	18S	27E		1980	North	660	West	Eddy

¹¹ Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County

¹² Dedicated Acres ¹³ Joint or Infill ¹⁴ Consolidation Code ¹⁵ Order No.

NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION

				<p>¹⁷ OPERATOR CERTIFICATION</p> <p>I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief</p> <p><i>Darrell Moore</i></p> <p>Signature: <i>Darrell Moore</i></p> <p>Printed Name: _____</p> <p>Title: <i>EAU. Mgr.</i></p> <p>Date: <i>4/15/99</i></p>
				<p>¹⁸ SURVEYOR CERTIFICATION</p> <p>I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief.</p> <p>Date of Survey _____</p> <p>Signature and Seal of Professional Surveyor: _____</p> <p>Well is active. Location was not re-surveyed by Navajo.</p> <p>Certificate Number _____</p>

14. Certification:

I hereby certify that I, or persons under my direct supervision, have inspected the proposed drillsite and access route; that I am familiar with the conditions that exist; that the statements made in this plan are, to the best of my knowledge, true and correct; and that the work associated with the operations proposed herein will be performed by Navajo Refining Company and its contractors and subcontractors in conformity with this plan and the terms and conditions under which it is approved.

4/15/99
Date

Darrell Moore
Signature

Darrell Moore
Name

Env. Mgr. for Water & Waste
Title

Navajo Refining Company
Company

TELEPHONE
(505) 748-3311

EASYLINK
62905278



N.M. Oil Cons. Division
811 S. 1st Street
ARIZONA REFINING COMPANY

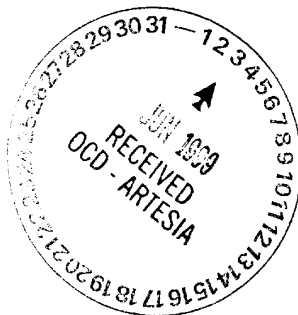
501 EAST MAIN STREET • P. O. BOX 159
ARTESIA, NEW MEXICO 88211-0159

C/SK

FAX
(505) 746-6410 ACCTG
(505) 746-6155 EXEC
(505) 748-9077 ENGR
(505) 746-4438 P / L

May 10, 1999

Mr. Tim Gumm
State of New Mexico
Energy, Minerals and Natural
Resources Department
Oil Conservation Division
811 South First Street
Artesia, New Mexico 88210



RE: Re-Entry for Navajo Refining Company's Waste Disposal Well No. 2

Dear Mr. Gumm:

Navajo Refining Company (Navajo) has contracted Subsurface Technology, Inc. to re-enter, test and complete Waste Disposal Well No. 2 (WDW-2), formerly the Chukka Federal No. 2 operated by The Eastland Oil Company. The United States Department of the Interior, Bureau of Land Management approved the Application for Permit to Drill or Deepen on April 27, 1999. Subsequent approval from the State of New Mexico Oil Conservation Commission (OCD) was granted on Tuesday, May 4, 1999.

Navajo initiated field operations on Wednesday, May 5, 1999. The existing pumping equipment, rods, and tubing were removed from the wellbore. The perforations from 1446 feet to 1462 feet were squeezed using 100 sacks of Class 'H' cement (approximately 50 sacks of cement were displaced into the perforated interval). The cement was allowed to cure and drilled out to a total depth of 1922 feet (KB)(1911 feet below ground level).

On Sunday, May 9, 1999, the 8-5/8 inch surface casing, set from 1955 feet (KB) to surface, was pressure tested for internal mechanical integrity between 1922 feet (KB) and 30 feet (KB) using a packer set at 30 feet. The 8-5/8 inch surface casing was pressure tested to 660 pounds per square inch and monitored at the surface for one hour (Attachment A). The fluid used for testing was a clean fresh water fluid. A pressure loss of 1 psi (0.15%) was observed during the first 30 minutes of the test. A pressure loss of 2 psi (0.30%) was observed during the last 30 minutes of the test. The results from the pressure test confirmed internal mechanical integrity of the 8-5/8 inch surface casing from 1922 feet (KB) to 30 feet (KB).

[Handwritten signature]

An Independent Refinery Serving . . .
NEW MEXICO • ARIZONA • WEST TEXAS • NORTHERN MEXICO

The 8-5/8 inch surface casing was originally set in an 11 inch open-hole to a depth of 1955 feet (KB) and cemented to surface using 700 sacks of Class 'H' cement with 2% gel and 100 sacks of Class 'H' neat. A total of 200 sacks of cement was recorded circulated to surface. The calculated volume between an 11 inch hole and 8-5/8 inch casing is (0.2407 cubic feet per foot X 1955 feet) 471 cubic feet. The volume of cement pumped is (1.18 cubic feet per sack X 800 sacks) 944 cubic feet for an excess of 473 cubic feet or 400 sacks circulated to surface. The calculated volume of cement and apparent volume of actual cement pumped indicated excess cement was circulated to surface.

On Sunday, May 9, 1999, Halliburton Logging Services completed a cement bond and microseismogram (same as a variable density log) logging survey within the 8-5/8 inch casing from a wireline total depth of 1919 feet (KB) to the surface (Attachment B). The results from the survey indicate a continuous column of cement from 1922 feet to surface with good bonding characteristics. The cement behind the 8-5/8 inch casing will provide an effective hydraulic seal to prevent the movement of groundwater fluids into the underground source of drinking water with a base at 473 feet.

Please review and approve the pressure testing and cement bond log results at your earliest convenience. Navajo will proceed with the mobilization of the drilling rig Wednesday, May 12, 1999 and begin re-entry of the WDW-2 wellbore according to the approved drilling program. Navajo will periodically contact the OCD, Artesia office with a status update of the re-entry operations. The Bureau of Land Management will be notified in sufficient time for a representative to witness the cementing of the 5-1/2 inch protection casing.

Should you have any questions or concerns, please call me at (505) 748-3311.

Sincerely yours,



Darrell Moore
Environmental Manager for Water and Waste

c: Mr. David Glass
Bureau of Land Management
Roswell Field Office
2909 West Second Street
Roswell, New Mexico 88201

Mr. Brian Rogers
Subsurface Technology, Inc.
7020 Portwest, Suite 100
Houston, Texas 77024

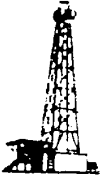
File: Injection Wells

APPROVED

JUN 02 1999

~~(OBIG SGD) DAVID B. GLASS~~
AUTHORIZED OFFICER, MINERALS
BUREAU OF LAND MANAGEMENT

**SUBJECT TO
LIKE APPROVAL
BY STATE**



Patterson Drilling Company

410 N. Loraine Street — (915) 682-9401
Midland, Texas 79701

RECEIVED

JUN 04 1999

June 2, 1999

SUBSURFACE TECHNOLOGY, INC.

Drilling Department
Subsurface Construction Corporation
7020 Port West, Ste 100
Houston, TX 77024

RE: Inclination Report
Navajo WDW-2
Sec 12; T-18-S; R-27-E

Gentlemen:

The following is an inclination survey on the above referenced well located in Eddy County, New Mexico:

2898' - 0.25
3838' - 0.25
4783' - 0.50
6106' - 0.75
6633' - 0.50

Sincerely,

Rebecca Edwards

Rebecca A. Edwards
Administrative Assistant

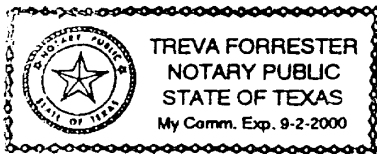
STATE OF TEXAS)
)
COUNTY OF MIDLAND)

The foregoing was acknowledged before me this 2nd day of June, 1999 by Rebecca A. Edwards.

MY COMMISSION EXPIRES:

Treva Forrester

NOTARY PUBLIC



INSTRUCTIONS

This form is to be filed with the appropriate District Office of the Division not later than 20 days after the completion of any newly-drilled or deepened well. It shall be accompanied by one copy of all electrical and radio-activity logs run on the well and a summary of all special tests conducted, including drill stem tests. All depths reported shall be measured depths. In the case of directionally drilled wells, true vertical depths shall also be reported. For multiple completions, items 25 through 29 shall be reported for each zone. The form is to be filed in quintuplicate except on state land, where six copies are required. See Rule 1105.

INDICATE FORMATION TOPS IN CONFORMANCE WITH GEOGRAPHICAL SECTION OF STATE

Southeastern New Mexico

Northwestern New Mexico

T. Anhy _____	T. Canyon <u>8390</u>	T. Ojo Alamo _____	T. Penn. "B" _____
T. Salt _____	T. Strawn <u>8894</u>	T. Kirtland-Fruitland _____	T. Penn. "C" _____
B. Salt _____	T. Atoka _____	T. Pictured Cliffs _____	T. Penn. "D" _____
T. Yates _____	T. Miss _____	T. Cliff House _____	T. Leadville _____
T. 7 Rivers _____	T. Devonian _____	T. Menefee _____	T. Madison _____
T. Queen _____	T. Silurian _____	T. Point Lookout _____	T. Elbert _____
T. Grayburg _____	T. Montoya _____	T. Mancos _____	T. McCracken _____
T. San Andres <u>2005</u>	T. Simpson _____	T. Gallup _____	T. Ignacio Otzte _____
T. Glorieta _____	T. McKee _____	Base Greenhorn _____	T. Granite _____
T. Paddock _____	T. Ellenburger _____	T. Dakota _____	T. _____
T. Blinebry _____	T. Gr. Wash _____	T. Morrison _____	T. _____
T. Tubb _____	T. Delaware Sand _____	T. Todilto _____	T. _____
T. Drinkard _____	T. Bone Springs _____	T. Entrada _____	T. _____
T. Abo <u>5506</u>	T. _____	T. Wingate _____	T. _____
T. Wolfcamp <u>6728</u>	T. _____	T. Chinle _____	T. _____
T. Penn _____	T. _____	T. Permian _____	T. _____
T. Cisco (Bough C) <u>7645</u>	T. _____	T. Penn "A" _____	T. _____

OIL OR GAS SANDS OR ZONES

No. 1, from.....to.....
 No. 2, from.....to.....
 No. 3, from.....to.....
 No. 4, from.....to.....

IMPORTANT WATER SANDS

Include data on rate of water inflow and elevation to which water rose in hole.

No. 1, from.....to.....feet.....
 No. 2, from.....to.....feet.....
 No. 3, from.....to.....feet.....

LITHOLOGY RECORD (Attach additional sheet if necessary)

From	To	Thickness In Feet	Lithology	From	To	Thickness In Feet	Lithology

Submit To Appropriate District Office
 State Lease - 6 copies
 Fee Lease - 5 copies
 District I
 1625 N. French Dr., Hobbs, NM 87240
 District II
 811 South First, Artesia, NM 87210
 District III
 1000 Rio Brazos Rd., Aztec, NM 87410
 District IV
 2040 South Pacheco, Santa Fe, NM 87505

State of New Mexico
 Energy, Minerals and Natural Resources

Form C-105
 Revised March 25, 1999

Federal Well

OIL CONSERVATION DIVISION
 2040 South Pacheco
 Santa Fe, NM 87505

WELL API NO.
 30-015-20894

5. Indicate Type of Lease
 STATE FEDERAL *Federal*

State Oil & Gas Lease No. NM 6852

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

1a. Type of Well: OIL WELL GAS WELL DRY OTHER Class I Waste Disposal Well

b. Type of Completion: Injecting
 NEW WORK WELL OVER DEEPEN PLUG BACK DIFF. RESVR. OTHER - Recr.

2. Name of Operator: Navajo Refining Company

3. Address of Operator: Post Office Box 159, Artesia, New Mexico 88211

4. Well Location: Unit Letter E 1980 Feet From The North Line and 660 Feet From The West Line

Section 12 Township 18 South Range 27 East NMPM Eddy County

7. Lease Name or Unit Agreement Name: Navajo Refining Company WDW-2

8. Well No.: WDW-2

9. Pool name or Wildcat: ~~L. Wolfcamp-Cisco-Canyon Injection Zone~~
Navajo Permo-Perm

10. Date Spudded: July 18, 1973

11. Date T.D. Reached: August 27, 1973

12. Date Compl. (Ready to Prod.): June 8, 1999

13. Elevations (DF& R(B. RT, GR, etc.): 3607 feet GL, 3623 feet RKB

14. Elev. Casinghead: 3609 feet GL

15. Total Depth: 10,372 feet

16. Plug Back T.D.: 8770 feet

17. If Multiple Compl. How Many Zones?: 1

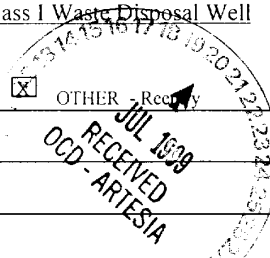
18. Intervals Drilled By: Rotary Tools: All Cable Tools: N/A

19. Producing Interval(s), of this completion - Top, Bottom, Name: L. Wolfcamp-Cisco-Canyon

20. Was Directional Survey Made: Yes

21. Type Electric and Other Logs Run: Fracture Finder and Caliper Logs, Dual Induction Laterolog, Compensated Neutron Formation Density

22. Was Well Cored: No



23. CASING RECORD (Report all strings set in well)

CASING SIZE	WEIGHT LB./FT.	DEPTH SET	HOLE SIZE	CEMENTING RECORD	AMOUNT PULLED
13-3/8"	N/A	40'	N/A	N/A	None
8-5/8"	32	1995'	11"	800 sacks circulated	None
5-1/2"	17	8869'	7-7/8"	1570 sacks circulated	None

24. LINER RECORD				25. TUBING RECORD			
SIZE	TOP	BOTTOM	SACKS CEMENT	SCREEN	SIZE	DEPTH SET	PACKER SET
					3-1/2"	7528'	7528'

26. Perforation record (interval, size, and number)

DEPTH INTERVAL	AMOUNT AND KIND MATERIAL USED
7570' to 7620', 7676' to 7736', 7826' to 7834', 7858' to 7880', 7886' to 7904', 7916' to 7936', 7944' to 7964', 7990' to 8042', 8096' to 8116', 8191' to 8201', 8304' to 8319', 8395' to 8399' (2 jspf for total of 598 holes).	10,000 gallons of 15% HCl, plus 4600 pounds of rock salt as diverter

28. PRODUCTION

Date First Production: N/A

Production Method (Flowing, gas lift, pumping - Size and type pump): N/A

Well Status (Prod. or Shut-in): N/A

Date of Test	Hours Tested	Choke Size	Prod'n For Test Period	Oil - Bbl	Gas - MCF	Water - Bbl.	Gas - Oil Ratio
N/A	N/A	N/A		--	--	--	--

Flow Tubing Press.	Casing Pressure	Calculated 24-Hour Rate	Oil - Bbl.	Gas - MCF	Water - Bbl.	Oil Gravity - API - (Corr.)
--	--		--	--	--	--

29. Disposition of Gas (Sold, used for fuel, vented, etc.): N/A

Test Witnessed By:

30. List Attachments: Deviation Report

31. I hereby certify that the information shown on both sides of this form as true and complete to the best of my knowledge and belief

Signature: *Darrell Moore* Printed Name: Darrell Moore Title: *Env. Mgr.* Date: *7/19/99*

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

N.M. Oil Cons. Division
SUBMIT IN DUPLICATE
811 S. 1st Street
Artesia, NM 88210-2654
(See other instructions on back)

FORM APPROVED
OMB NO. 1004-0137
Expires: February 28, 1995

DESIGNATION AND SERIAL NO.
NM 6852
6. IF INDIAN, ALLOTES OR TRIBE NAME

WELL COMPLETION OR RECOMPLETION REPORT AND LOG*

1a. TYPE OF WELL OIL WELL GAS WELL DRY Other Class I Waste Disposal Well
1b. TYPE OF COMPLETION: NEW WELL REEFER PLUG BACK DIFF-GENVR Other Reentry

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME, WELL NO.
WDW-2

9. API WELL NO.
30-015-20894

10. FIELD AND POOL OR WILDCAT
Navajo Permian - Penn Wolfcamp-Cisco Canyon 96918

11. SEC. T., R., M., OR BLOCK AND SURVEY OR AREA
Section 12, Township 18 South Range 27 East, Unit Letter E

2. NAME OF OPERATOR
Navajo Refining Company

3. ADDRESS AND TELEPHONE NO.
Post Office Box 159, Artesia, New Mexico 88211

4. LOCATION OF WELL
At surface 1980' FNL and 660' FWL Unit Letter E
At top prod. interval reported below
Same
At total depth
Same

14. PERMIT NO. DATE ISSUED
WDW-2 April 27, 1999

12. COUNTY OR PARISH Eddy
13. STATE New Mexico

15. DATE SPUNDED 7-18-73
16. DATE T.D. REACHED 8-27-73
17. DATE COMP (Ready to prod.) 6-8-99
18. ELEVATIONS (DF, RKB, RT, GR, ETC.)* 3607' GL; 3623' RKB
19. ELEV. CASINGHEAD 3609' GL

20. TOTAL DEPTH, MD & TVD 10,372' TVD
21. PLUG, BACK T.D., MD & TVD 8770'
22. IF MULTIPLE COMPL., HOW MANY* 1
23. INTERVALS DRILLED BY
ROTARY TOOLS All
CABLE TOOLS --

24. PRODUCING INTERVAL (S), OF THIS COMPLETION - TOP, BOTTOM NAME (MD AND TVD)*
L. Wolfcamp-Cisco-Canyon
25. WAS DIRECTIONAL SURVE MADE? Yes

26. TYPE ELECTRIC AND OTHER LOGS RUN
Fracture Finder and Caliper Logs, Dual Induction Laterlog, Compensated Neutron, Formation Density No

CASING RECORD (Report all strings set in well)				TOP OF CEMENT, CEMENTING RECORD		AMOUNT PULLED
CASING SIZE/GRADE	WEIGHT, LB./FT.	DEPTH SET	HOLE SIZE			
13-3/8"	N/A	40'	N/A	Surface		None
8-5/8"	32	1995'	11	Surface, 800 sx ClH		None
5-1/2"	17	8869'	7-7/8"	Surface, 1570 sx ClH and ClC		None

LINER RECORD				TUBING RECORD			
SIZE	TOP (MD)	BOTTOM (MD)	SACKS CEMENT*	SCREEN (MD)	SIZE	DEPTH SET (MD)	PACKER SET (MD)
					3-1/2"	7528'	7528'

PERFORATION RECORD (Interval, size and number)		ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.	
INTERVAL	SIZE	DEPTH INTERVAL (MD)	AMOUNT AND KIND OF MATERIAL USED
7570'-7620', 7676'-7736', 7826'-7834'		7570' to 8399'	10,000 gallons 15% HCl, plus 4600 pounds of rock salt as diverter
7858'-7880', 7886'-7904', 7916'-7936'			
7944'-7964', 7990'-8042', 8096'-8116'			
8191'-8201', 8304'-8319', 8395'-8399'			
(2 ispf for total of 598 holes)			

PRODUCTION
DATE FIRST PRODUCTION N/A
PRODUCTION METHOD N/A
WELL STATUS (Producing or shut-in) N/A

DATE OF TEST N/A
HOURS TESTED N/A
CHOKE SIZE N/A
PRODN. FOR TEST PERIOD
OIL-BBL. GAS-MCF. WATER-BBL.
FLOW, TUBING PRESS N/A
CASING PRESSURE N/A
24-HOUR RATE CALCULATED
OIL-BBL. GAS-MCF. WATER-BBL.
OIL GRAVITY-API (CORE) --
TEST WITNESSED BY

ACCEPTED FOR RECORD
JUL 29 1999
ORIG. SGD: GARY GOURLEY

34. DISPOSITION OF (Solid, used for fuel, vented, etc.)
N/A

35. LIST OF ATTACHMENTS
Deviation Report

36. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records.
SIGNED David Moore TITLE Env. Mgr. DATE 7/19/99

*(See Instructions and Spaces for Additional Data on Reverse Side)
Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction





Patterson Drilling Company

410 N. Loraine Street — (915) 682-9401
Midland, Texas 79701

RECEIVED
1999 JUL 21 10 03 AM
BUREAU OF LAND MGMT.
WILDLAND RESOURCE AREA

RECEIVED

JUN 04 1999

SUBSURFACE TECHNOLOGY, INC.

June 2, 1999

Drilling Department
Subsurface Construction Corporation
7020 Port West, Ste 100
Houston, TX 77024

RE: Inclination Report
Navajo WDW-2
Sec 12; T-18-S; R-27-E

Gentlemen:

The following is an inclination survey on the above referenced well located in Eddy County, New Mexico:

- 2898' - 0.25
- 3838' - 0.25
- 4783' - 0.50
- 6106' - 0.75
- 6633' - 0.50

Sincerely,

Rebecca Edwards

Rebecca A. Edwards
Administrative Assistant

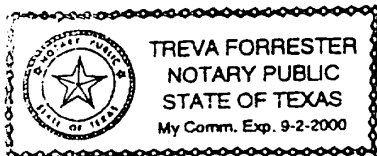
STATE OF TEXAS)
)
COUNTY OF MIDLAND)

The foregoing was acknowledged before me this 2nd day of June, 1999 by Rebecca A. Edwards.

MY COMMISSION EXPIRES:

Treva Forrester

NOTARY PUBLIC



TELEPHONE
(505) 748-3311

EASYLINK
62905278



REFINING COMPANY

501 EAST MAIN STREET • P. O. BOX 159
ARTESIA, NEW MEXICO 88211-0159

July 19, 1999

FAX

(505) 746-6410 ACCTG
(505) 746-6155 EXEC
(505) 748-9077 ENGR
(505) 746-4438 P / L

Mr. James Amos
United States Department of the Interior
Bureau of Land Management
P.O. Box 1778
Roswell, NM 88220

RE: Well Completion Report for Navajo's WDW-2i in E-12-T18S, R27E

Dear Mr. Amos,

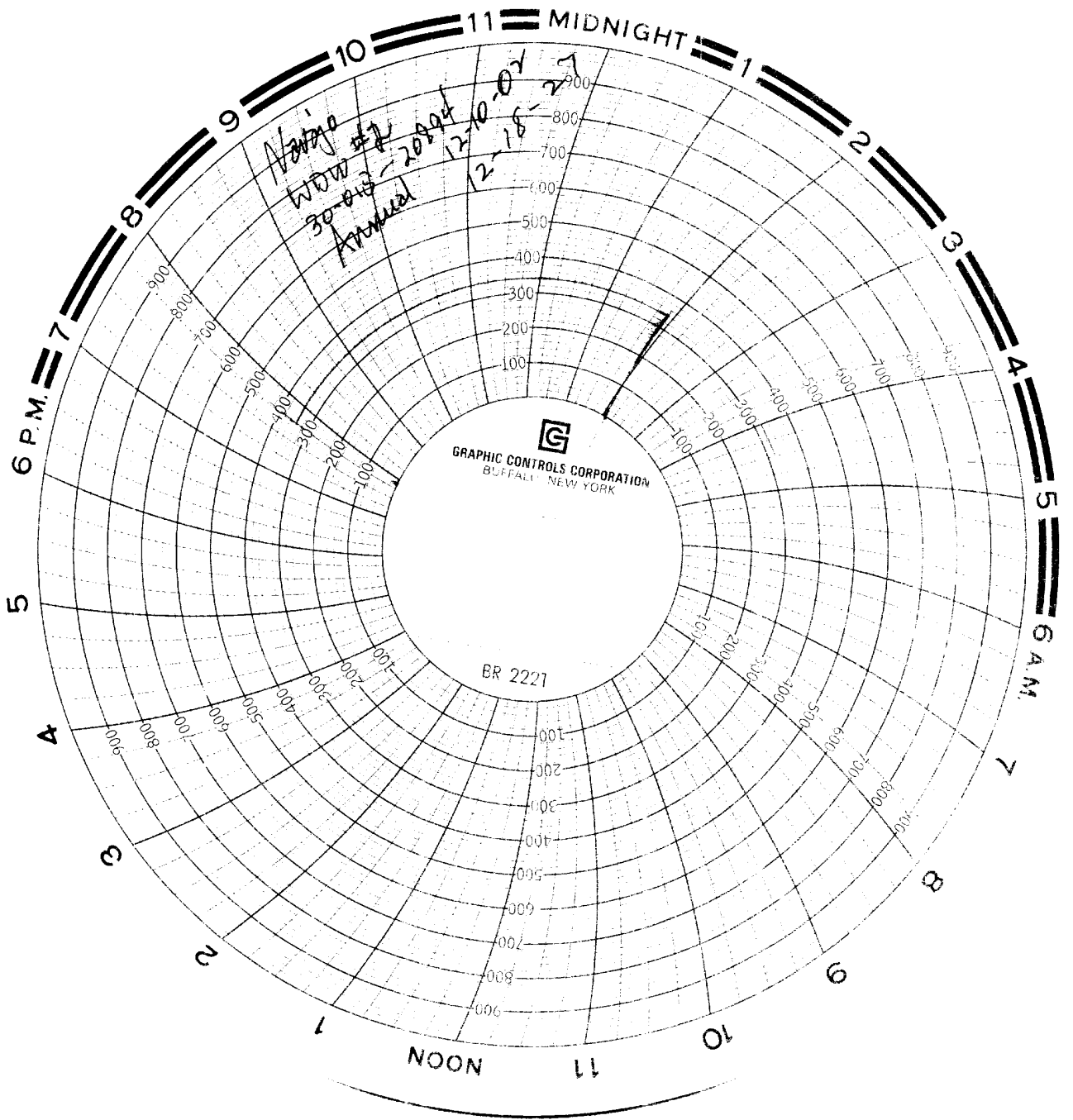
Enclosed, please find two (2) copies of form OMB Form 1004-0137 pertaining to our WDW-2 injection well. If there are any questions concerning this submission, please call me at 505-748-3311. Thank you for your time in this matter.

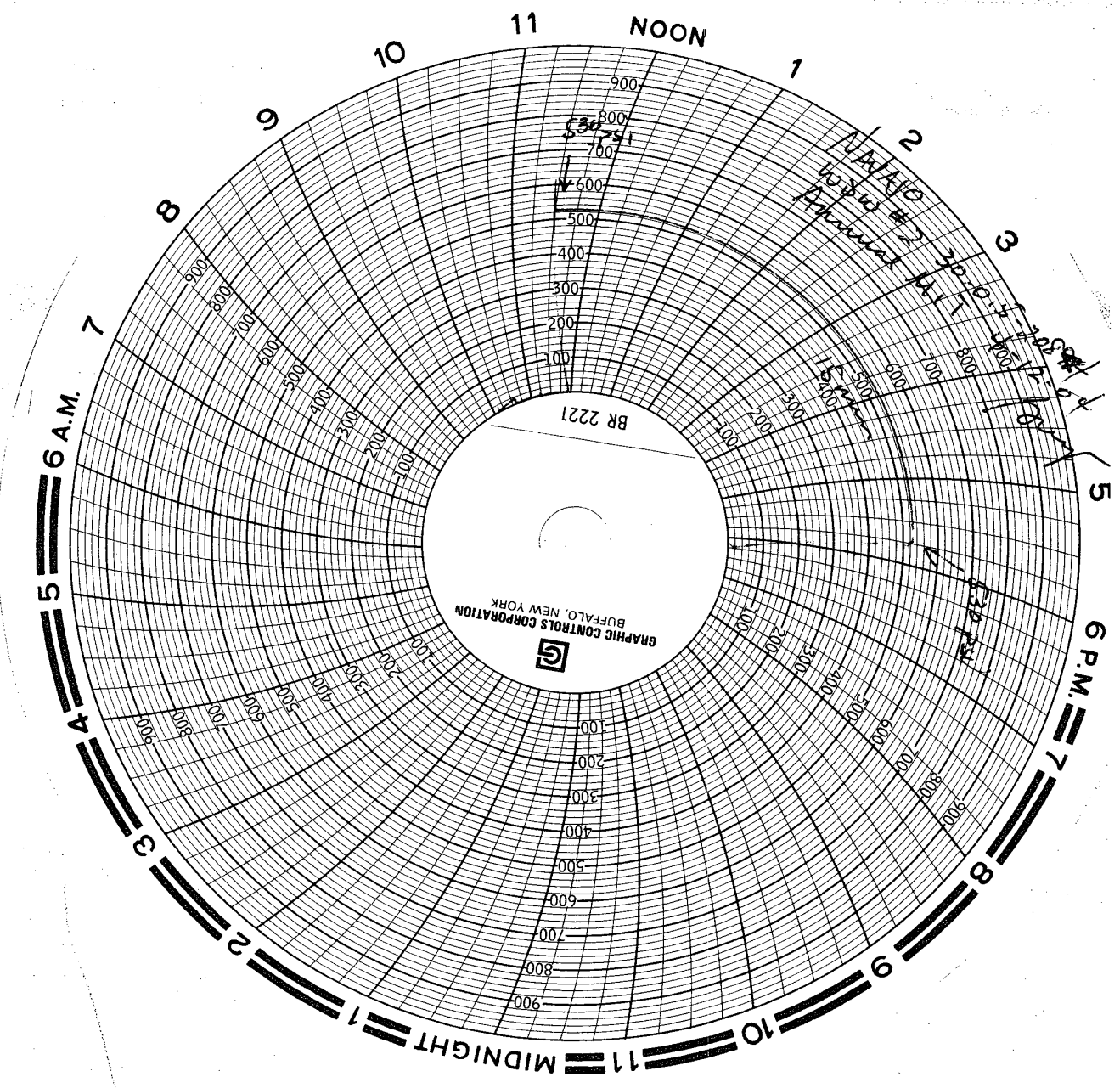
Sincerely,
NAVAJO REFINING COMPANY

Darrell Moore
Environmental Mgr. for Water and Waste

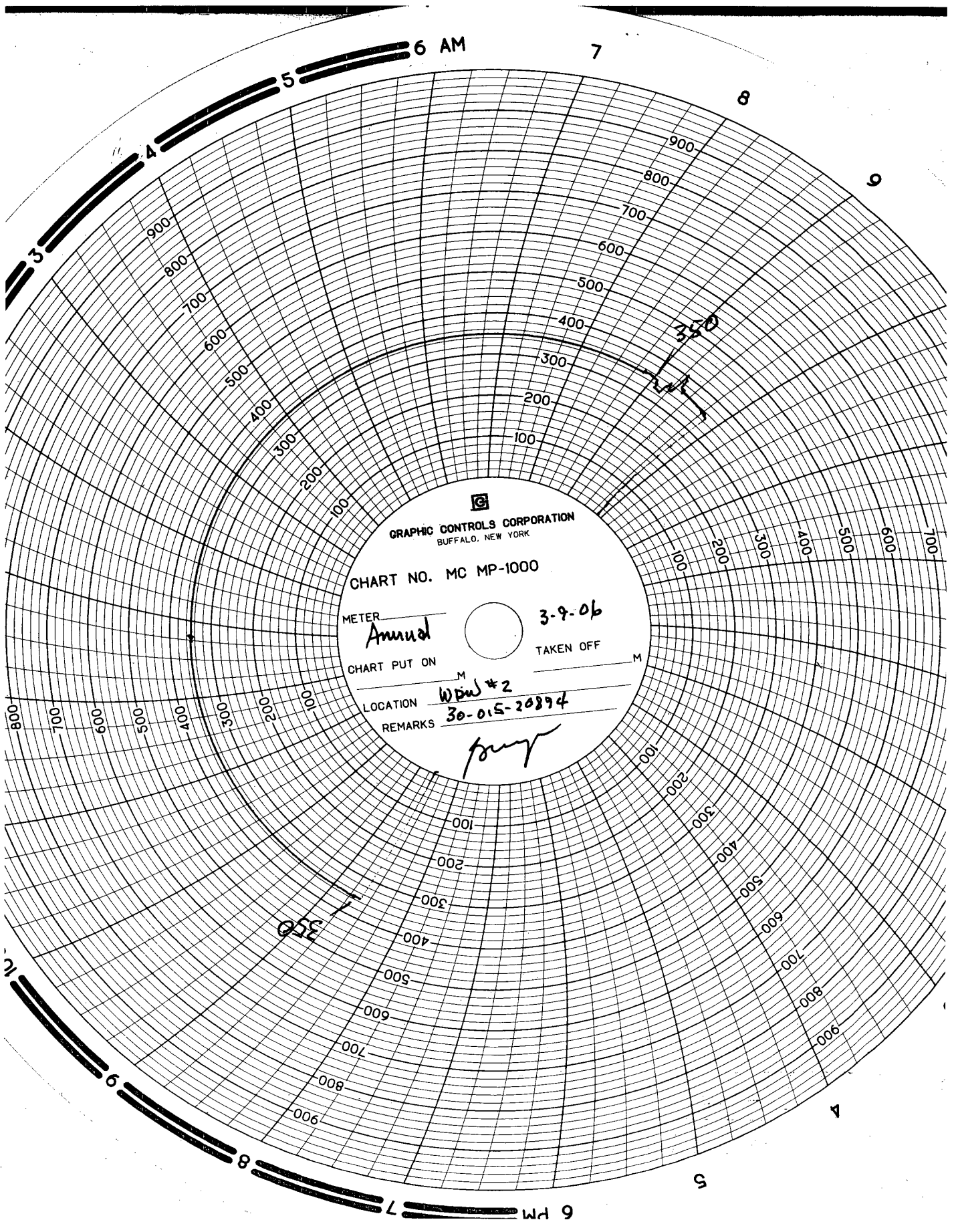
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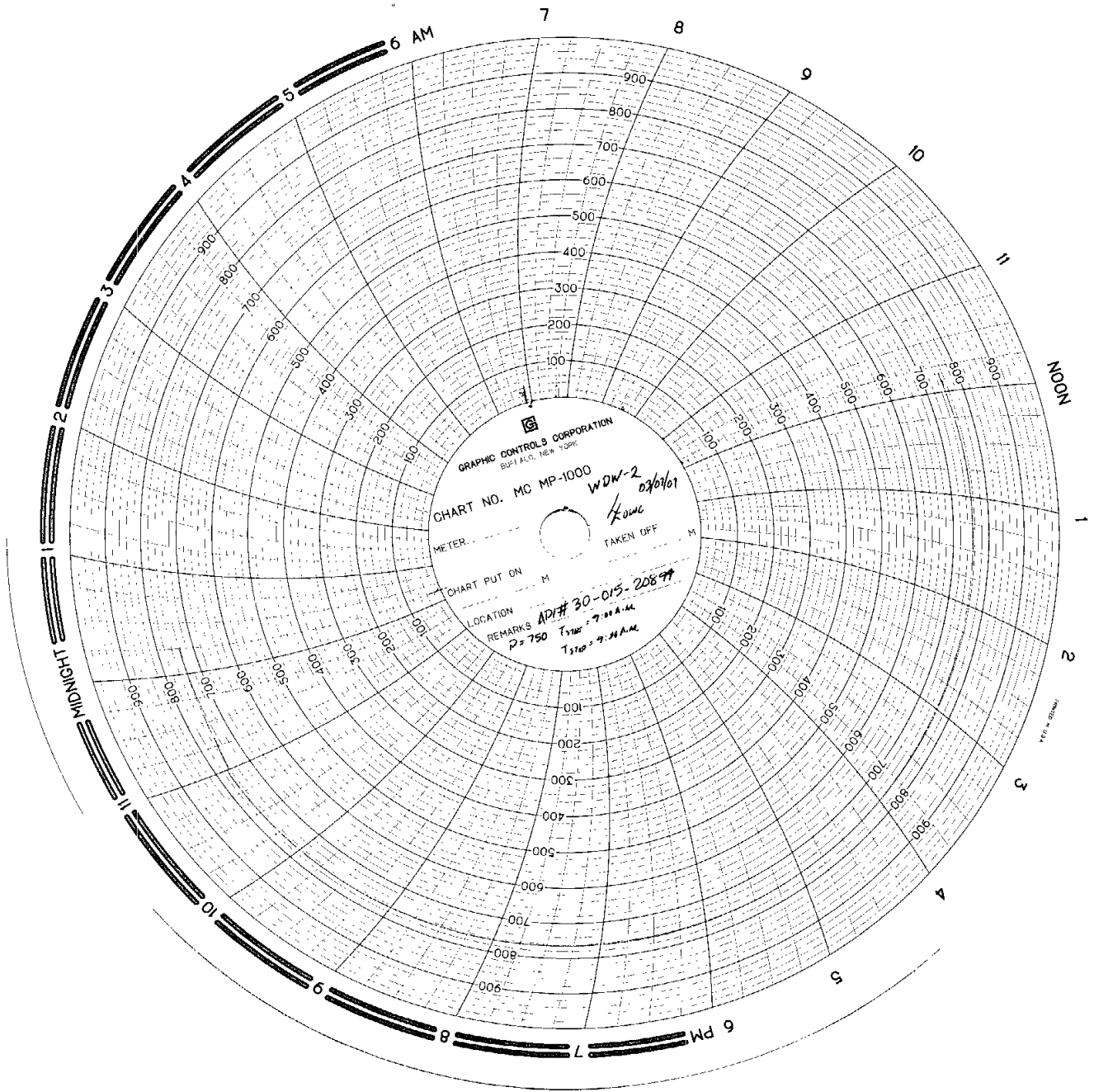
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LAND AND RESOURCE AREA

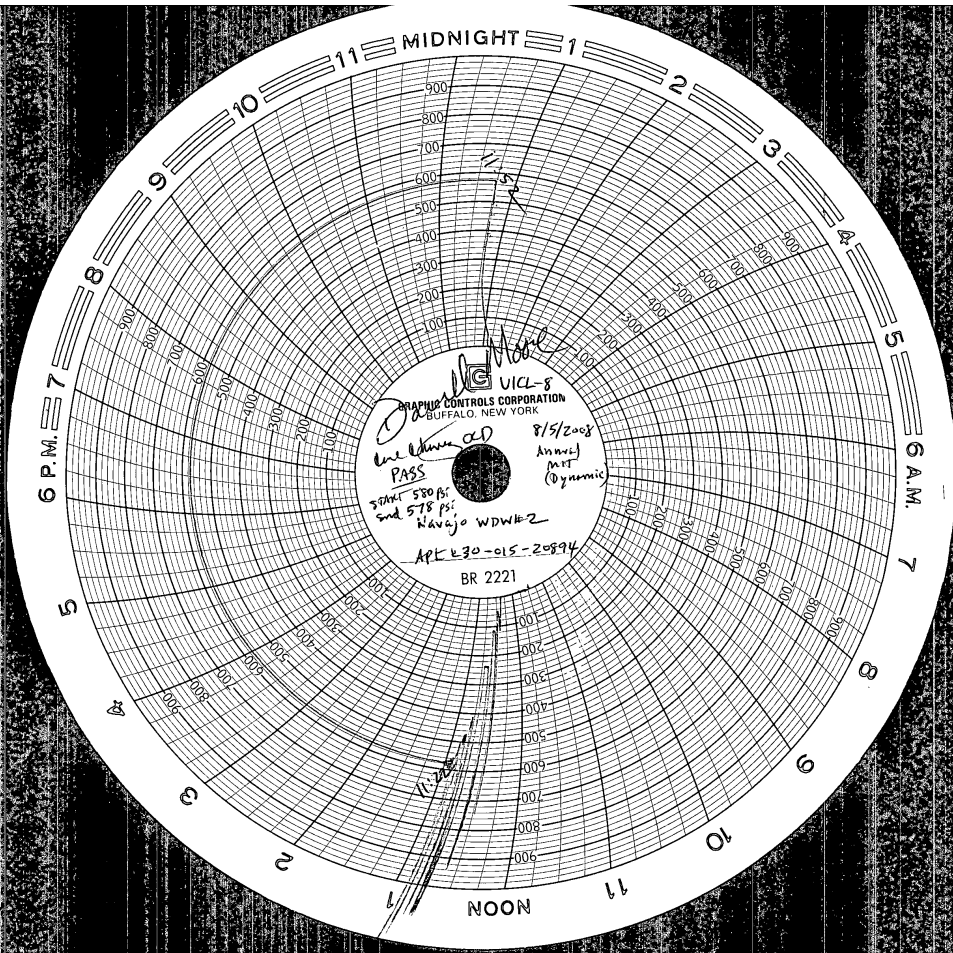


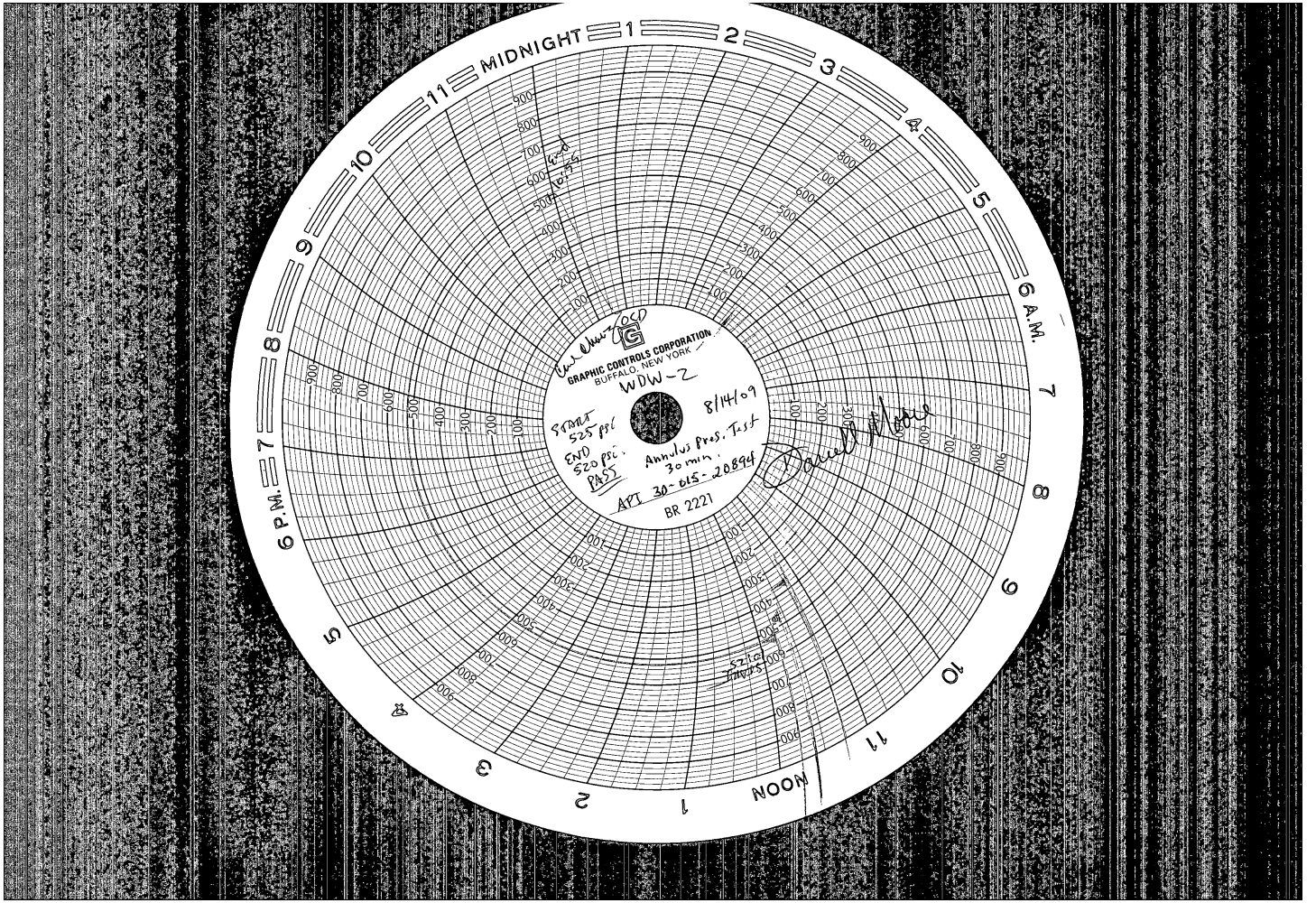


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Chavez, Carl J, EMNRD

From: Chavez, Carl J, EMNRD
Sent: Thursday, August 12, 2010 1:55 PM
To: 'Moore, Darrell'; Dade, Randy, EMNRD
Cc: Lackey, Johnny
Subject: RE: Mechanical Integrity Tests

Darrell:

OCD confirms that the annual MITs performed on WDW-1 (UICI-8) and WDW-2 (UICI-8-1) passed.

Thank you.

Carl J. Chavez, CHMM
New Mexico Energy, Minerals & Natural Resources Dept.
Oil Conservation Division, Environmental Bureau
1220 South St. Francis Dr., Santa Fe, New Mexico 87505
Office: (505) 476-3490
Fax: (505) 476-3462
E-mail: CarlJ.Chavez@state.nm.us
Website: <http://www.emnrd.state.nm.us/ocd/index.htm>
(Pollution Prevention Guidance is under "Publications")

From: Moore, Darrell [<mailto:Darrell.Moore@hollycorp.com>]
Sent: Thursday, August 12, 2010 10:39 AM
To: Chavez, Carl J, EMNRD; Dade, Randy, EMNRD
Cc: Lackey, Johnny
Subject: MIT's

Carl

Attached, please find the charts for the MIT's that were performed on our Injection wells WDW-1 and WDW-2 today. Both wells passed the Mechanical Integrity Tests with no drop off in pressure. As you know, the MIT on WDW-3 was performed earlier in the year and was submitted to OCD. In addition, there was no pressure on either of the well's bradenhead. If there are any questions concerning this submission, please call me or email me. Thank you.

Darrell Moore
Environmental Manager for Water and Waste
Navajo Refining Company, LLC
Phone Number 575-746-5281
Cell Number 575-703-5058
Fax Number 575-746-5451

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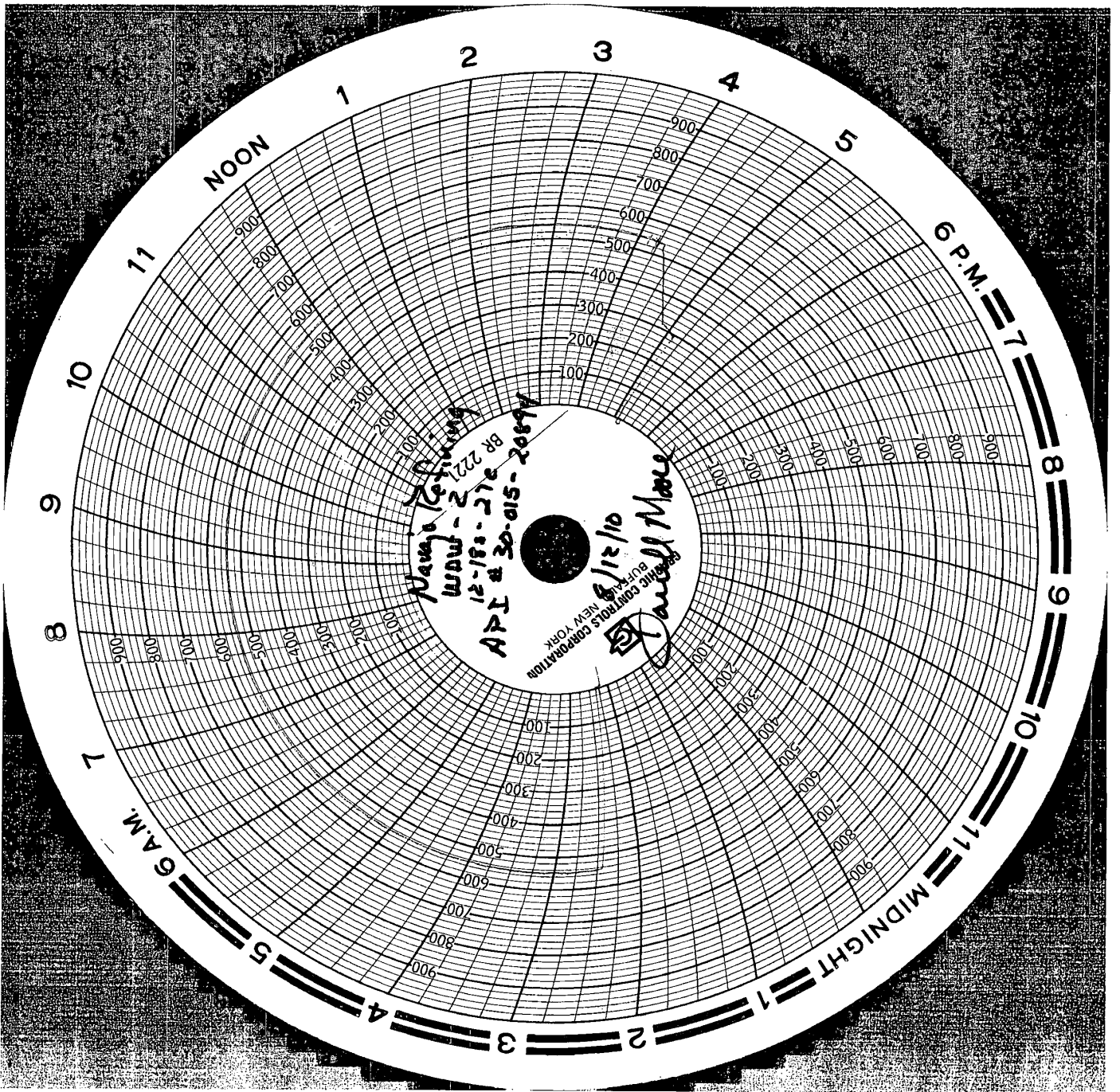
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New Mexico Energy, Minerals & Natural Resources Dept.
Oil Conservation Division, Environmental Bureau
1220 South St. Francis Dr., Santa Fe, New Mexico 87505
Office: (505) 476-3490
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E-mail: CarlJ.Chavez@state.nm.us
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To: Chavez, Carl J, EMNRD; Dade, Randy, EMNRD
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Darrell Moore
Environmental Manager for Water and Waste
Navajo Refining Company, LLC
Phone Number 575-746-5281
Cell Number 575-703-5058
Fax Number 575-746-5451

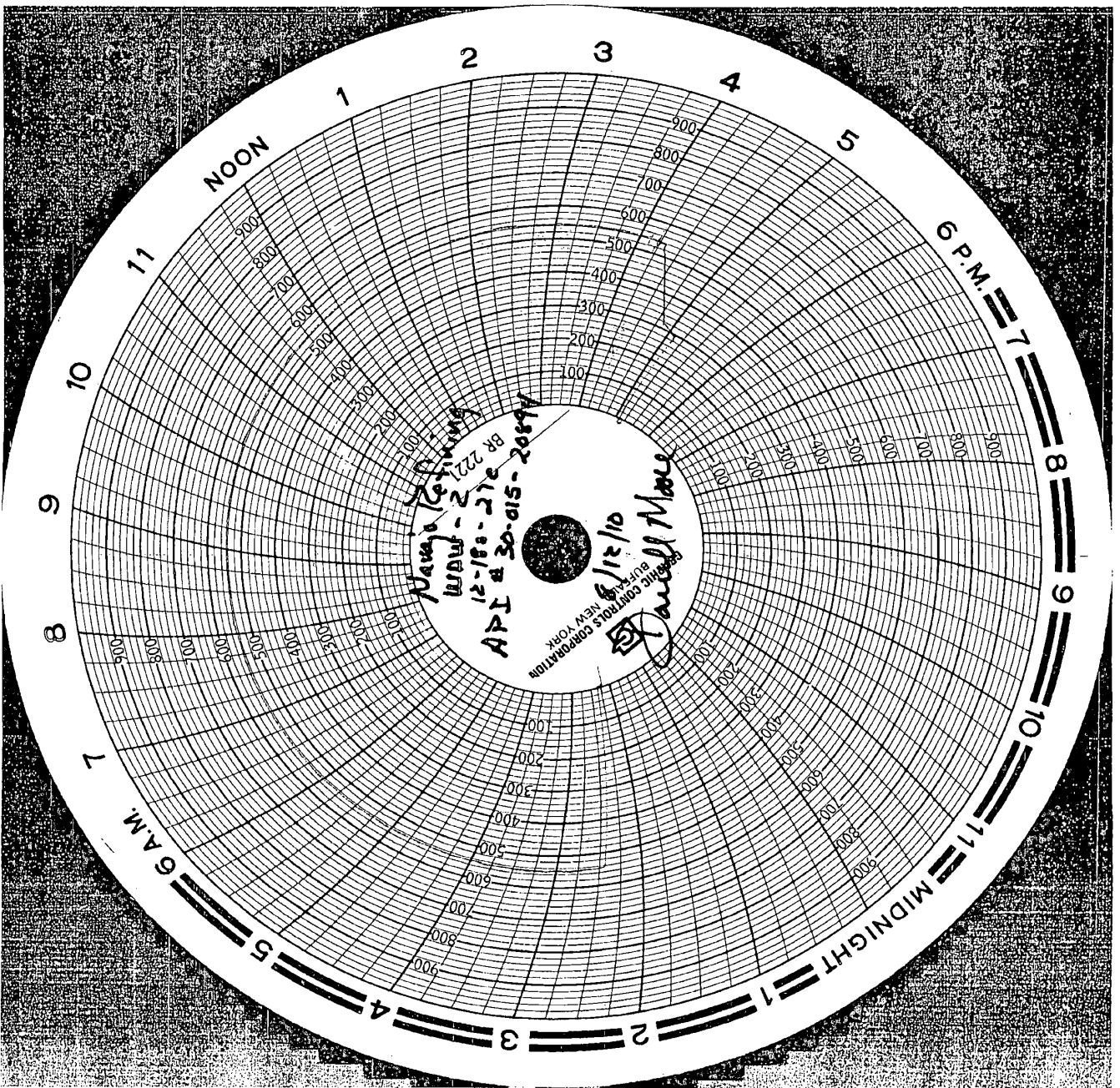
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 811 S First St, Artesia, NM 88210
 District III - (505) 334-6178
 1000 Rio Brazos Rd, Aztec, NM 87410
 District IV - (505) 476-3460
 1220 S St Francis Dr, Santa Fe, NM 87505

State of New Mexico
 Energy, Minerals and Natural Resources

Form C-103
 Revised August 1, 2011

OIL CONSERVATION DIVISION
 1220 South St. Francis Dr.
 Santa Fe, NM 87505

WELL API NO. 30-015-20894
5. Indicate Type of Lease STATE <input checked="" type="checkbox"/> FEE <input type="checkbox"/>
6. State Oil & Gas Lease No. 6852
7. Lease Name or Unit Agreement Name Chukka WDW-2
8. Well Number WDW-2
9. OGRID Number
10. Pool name or Wildcat: Navajo Permo-Penn 96918

SUNDRY NOTICES AND REPORTS ON WELLS
 (DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO DEEPEN OR PLUG BACK TO A DIFFERENT RESERVOIR USE "APPLICATION FOR PERMIT" (FORM C-101) FOR SUCH PROPOSALS)

1. Type of Well: Oil Well Gas Well Other **Injection Well**

2. Name of Operator
Navajo Refining Company

3. Address of Operator
Post Office Box 159, Artesia, New Mexico 88211

4. Well Location
 Unit Letter **E** : **1980** feet from the **North** line and **660** feet from the **West** line
 Section **12** Township **18S** Range **27E** NMPM County **Eddy**

11. Elevation (Show whether DR, RKB, RT, GR, etc.)
3607' GL, 3623' RKB

12. Check Appropriate Box to Indicate Nature of Notice, Report or Other Data

<p>NOTICE OF INTENTION TO:</p> <p>PERFORM REMEDIAL WORK <input type="checkbox"/> PLUG AND ABANDON <input type="checkbox"/></p> <p>TEMPORARILY ABANDON <input type="checkbox"/> CHANGE PLANS <input type="checkbox"/></p> <p>PULL OR ALTER CASING <input type="checkbox"/> MULTIPLE COMPL <input type="checkbox"/></p> <p>DOWNHOLE COMMINGLE <input type="checkbox"/></p> <p>OTHER: PERFORM PRESSURE FALLOFF TEST, ANNULUS PRESSURE TEST <input checked="" type="checkbox"/></p>	<p>SUBSEQUENT REPORT OF:</p> <p>REMEDIAL WORK <input type="checkbox"/> ALTERING CASING <input type="checkbox"/></p> <p>COMMENCE DRILLING OPNS. <input type="checkbox"/> P AND A <input type="checkbox"/></p> <p>CASING/CEMENT JOB <input type="checkbox"/></p> <p>OTHER: <input type="checkbox"/></p>
--	--

13. Describe proposed or completed operations. (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work). SEE RULE 19.15.7.14 NMAC. For Multiple Completions: Attach wellbore diagram of proposed completion or recompletion.

October 17, 2011 - Perform an annulus pressure test with an initial pressure of 600 psig and run the test for 30 minutes. Install bottomhole gauges into WDW-1, WDW-2, and WDW-3 by 11:45am. Continue injection into all three wells.

October 18, 2011 - Continue injection into all three wells.

October 19, 2011 - At 12:15pm, the offset wells WDW-1 and WDW-3 will be shut-in. A constant injection rate will be established for WDW-2 and continue for a 30 hour injection period. Do not exceed 1000 psig wellhead pressure.

October 20, 2011 - At 7:00pm, WDW-2 will be shut in for a 30-hour falloff period. WDW-1 and WDW-3 will remain shut-in.

October 21, 2011 - All three wells will continue to be shut in while monitoring falloff pressure in all three wells.

October 22, 2011 - At 7:00am, acquire downhole pressure gauges from all three wells. Tag bottom of fill and come out of hole very slowly, making 7-minute gradient stops while coming out of the WDW-2 every 1000 feet (7000 ft, 6000 ft, 5000 ft, 4000 ft, 3000 ft, 2000 ft, 1000 ft, surface). Run in hole with a temperature tool and conduct temperature survey from the surface to the top of the fill. Turn the wells back to Navajo personnel.

RDade 10/11/11
 Accepted for record
 NMOCD

RECEIVED
 OCT 07 2011
 NMOCD ARTESIA

Spud Date:

Rig Release Date:

I hereby certify that the information above is true and complete to the best of my knowledge and belief.

SIGNATURE Timothy Jones TITLE Project Engineer DATE 10/3/2011
Type or print name Timothy Jones E-mail address: tjones@subsurfacegroup.com PHONE: 713-880-4640
For State Use Only

APPROVED BY: _____ TITLE _____ DATE _____
Conditions of Approval (if any): _____

Submit 1 Copy To Appropriate District Office
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 1625 N. French Dr., Hobbs, NM 88240
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 811 S. First St., Artesia, NM 88210
 District III - (505) 334-6178
 1000 Rio Brazos Rd., Aztec, NM 87410
 District IV - (505) 476-3460
 1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
 Energy, Minerals and Natural Resources

Form C-103
 Revised August 1, 2011

OIL CONSERVATION DIVISION
 1220 South St. Francis Dr.
 Santa Fe, NM 87505

WELL API NO. 30-015-20894	
5. Indicate Type of Lease STATE <input checked="" type="checkbox"/> FEE <input type="checkbox"/>	
6. State Oil & Gas Lease No. 6852	
7. Lease Name or Unit Agreement Name Chukka WDW-2	
8. Well Number WDW-2	
9. OGRID Number	
10. Pool name or Wildcat: Navajo Permo-Penn 96918	
SUNDRY NOTICES AND REPORTS ON WELLS (DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO DEEPEN OR PLUG BACK TO A DIFFERENT RESERVOIR. USE "APPLICATION FOR PERMIT" (FORM C-101) FOR SUCH PROPOSALS.) 1. Type of Well: Oil Well <input type="checkbox"/> Gas Well <input type="checkbox"/> Other Injection Well	
2. Name of Operator Navajo Refining Company	
3. Address of Operator Post Office Box 159, Artesia, New Mexico 88211	
4. Well Location Unit Letter E : 1980 feet from the North line and 660 feet from the West line Section 12 Township: 18S Range 27E NMPM County Eddy	
11. Elevation (Show whether DR, RKB, RT, GR, etc.) 3607' GL, 3623' RKB	

12. Check Appropriate Box to Indicate Nature of Notice, Report or Other Data

NOTICE OF INTENTION TO: PERFORM REMEDIAL WORK <input type="checkbox"/> PLUG AND ABANDON <input type="checkbox"/> TEMPORARILY ABANDON <input type="checkbox"/> CHANGE PLANS <input type="checkbox"/> PULL OR ALTER CASING <input type="checkbox"/> MULTIPLE COMPL <input type="checkbox"/> DOWNHOLE COMMINGLE <input type="checkbox"/> OTHER: PERFORM PRESSURE FALLOFF TEST, ANNULUS PRESSURE TEST <input checked="" type="checkbox"/>	SUBSEQUENT REPORT OF: REMEDIAL WORK <input type="checkbox"/> ALTERING CASING <input type="checkbox"/> COMMENCE DRILLING OPNS. <input type="checkbox"/> P AND A <input type="checkbox"/> CASING/CEMENT JOB <input type="checkbox"/> OTHER: <input type="checkbox"/>
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Spud Date:

Rig Release Date:

I hereby certify that the information above is true and complete to the best of my knowledge and belief.

SIGNATURE Timothy Jones TITLE Project Engineer DATE 10/3/2011
Type or print name Timothy Jones E-mail address: tjones@subsurfacegroup.com PHONE: 713-580-4640
For State Use Only

APPROVED BY: Carl J. Chavez TITLE Environmental Engineer DATE 10/19/2011
Conditions of Approval (if any): See e-mail conditions dated 10/19/2011 attached to WOW-1.

Chavez, Carl J, EMNRD

From: Chavez, Carl J, EMNRD
Sent: Wednesday, October 19, 2011 4:06 PM
To: 'Moore, Darrell'
Cc: Sanchez, Daniel J., EMNRD; VonGonten, Glenn, EMNRD; Dade, Randy, EMNRD
Subject: Navajo Refining Company UIC Class I (NH) Injection Wells WDWs 1, 2 & 3 (UICI-008) Fall Off Test Plan (August 2011)

Darrell:

The New Mexico Oil Conservation Division (OCD) is in receipt of your above subject test plan. OCD has already approved the Fall-Off Test (FOT) Plan with conditions on July 28, 2009. The OCD notes that it is also in the process of reviewing C-103s Sundry Notices for the upcoming FOTs.

OCD observes some changes in this FOT Plan submittal that are not acceptable to the OCD. For example, Exhibit 1 is not an acceptable exhibit to the OCD for reasons specified in the 2010 FOT report review and later during the May 2011 meeting in Santa Fe. However, the operator continues to submit exhibits with certain assumptions that have not been accepted or approved by the OCD; i.e., that the injection wells are show interconnection with the injection zone during past FOTs. Perhaps the operator can conduct the 2011 FOT with the information and exhibits needed to prove the interconnection of injection wells with the injection zone? The Certified PE should provide the exhibits in the 2011 FOT Report with the analysis and conclusions supporting any claims for the OCD to review and consider before approving. This is apparently a FOT frequency per well issue that the operator is attempting to prove.

The OCD provides the following comments, observations, and/or recommendations on the above subject plan below.

Comments:

- The OCD approved the original Fall-Off Test (FOT) Plan based on OCD Guidance dated December 3, 2007. There should not be any significant changes to this FOT Plan because it is flexible where needed to allow operators to implement it on each injection well.
- OCD likes to be notified to witness the installation of bottom hole gauges and to be present at least one hour before injection shut-off and commencement of FOT monitoring.
- OCD is concerned about the Section VI No. 1(e) WDW-3 Cement Bond Log quality being poor from 900 ft. to 1200 ft- especially at the depths: 2662 – 2160; 4876 – 5372; and 6750 – 7600 ft. micro annulus scenario.

Observations:

- Section V No. 2: The objective of the FOT is NOT to achieve or limit a 100 psig pressure differential before vs. after FOT injection vs. shut-off, but it is a minimum pressure differential that OCD stipulates in its guidance for a successful FOT and injection zone that may still continue to be utilized for disposal, i.e., not too pressured up and subject to continued fracturing under daily allowed maximum surface injection pressure operational limits.
- Section V No. 7 and Exhibit 1: OCD observes a bottom hole pressure chart for WDWs 1, 2 and 3 at 7660 feet that the operator presented in the 2010 FOT and again during a May 2011 meeting in Santa Fe, New Mexico to show the interconnection between injection wells and the injection formation. The OCD had commented that there was no explanation or conclusion provided from the Certified PE who conducted and completed the 2010 FOT report that supports the operator's claim that all injection wells are interconnected based on Exhibit 1.

Furthermore, the OCD requested a statement or information supporting the operator's claim by the Certified PE, but never received one. At the meeting, the OCD explained that based on Exhibit 1, there was no support for the claim. In order to make the interconnection determination, during each FOT at each well and off-set injection wells (WDWs not being FOT'd) before and throughout the FOT would need bottom hole pressures monitored in tandem at each well location to establish the interconnectivity of the injection wells with the receiving injection formation under a uniform time scale. This would be a chart that could be plotted that would show during the test the interconnectivity of the wells for each FOT. The OCD doubts that the operator can make the case for interconnectivity between injection wells and injection formation because of the significant distance between the injection wells and fact that sedimentation in formation varies laterally and uniformity in sedimentation, saturated porosity and permeability due to variation in sedimentation would by chance make the injection formation aerially extensive and uniform over a 3 to 5 mile radius from each injection well. Also, even if by chance there was

uniformity over the mileage specified, the distance between injection wells and corresponding pressure would likely not be observed.

- Exhibit 6: OCD observes in Section B a proposed MIT once every 5 years. OCD's UIC Program requires annual MITs and/or after down hole work is performed on a well.

Recommendations:

- Operator is running survey logs to the bottom of fill or below USDW (fresh water) zones, which excludes an evaluation of casing in the fresh water zone. Please run logs up to surface.
- Be sure to also record and provide injection flow rate and pressure leading up to shut-off and monitoring throughout the FOT monitoring period. OCD needs to confirm that a pseudo steady-state condition was achieved before shut-off. This data is also needed for software modeling of the FOT.
- Please provide electronic data from the FOTs at each well in order for the OCD to run its software model to confirm the results in the report.
- Section V No. 13: Surface pressure monitoring and Horner Plot during injection should be used to confirm radial flow condition is achieved instead of waiting a set period if operator wishes to reduce the injection period.

Disclaimer: *Please be advised that OCD has already approved with conditions Navajo Refining Company's Fall-Off Test (FOT) Plan on July 28, 2009, and is not providing approval of this FOT Plan; however, comments, observations and recommendations herein should help Navajo Refining Company understand the OCD's concerns based on the submittal.*

Please contact me if you have questions. Thank you.

Carl J. Chavez, CHMM
New Mexico Energy, Minerals & Natural Resources Dept.
Oil Conservation Division, Environmental Bureau
1220 South St. Francis Dr., Santa Fe, New Mexico 87505
Office: (505) 476-3490
Fax: (505) 476-3462

E-mail: CarlJ.Chavez@state.nm.us

Website: <http://www.emnrd.state.nm.us/ocd/>

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State of New Mexico
 Energy, Minerals and Natural Resources

Form C-103
 Revised August 1, 2011

OIL CONSERVATION DIVISION
 1220 South St. Francis Dr.
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WELL API NO. 30-015-20894
5. Indicate Type of Lease STATE <input type="checkbox"/> FEE <input type="checkbox"/>
6. State Oil & Gas Lease No.
7. Lease Name or Unit Agreement Name BLM
8. Well Number WDW-2
9. OGRID Number
10. Pool name or Wildcat Lwr Wolfcamp-Cisco-Canyon Inj. Zone
11. Elevation (Show whether DR, RKB, RT, GR, etc.) GL: 3,607 feet, RKB: 3,6223 feet

SUNDRY NOTICES AND REPORTS ON WELLS
 (DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO DEEPEN OR PLUG BACK TO A DIFFERENT RESERVOIR. USE "APPLICATION FOR PERMIT" (FORM C-101) FOR SUCH PROPOSALS.)

1. Type of Well: Oil Well Gas Well Other (Class 1 NH Injection Well)

2. Name of Operator
Navajo Refining Company L.L.C.

3. Address of Operator
501 East Main Street, Artesia, NM

4. Well Location
 Unit Letter: 1980 feet from the North line and 660 feet from the West line
 Section 12 Township 18 S Range 27 E NMPM County Eddy

12. Check Appropriate Box to Indicate Nature of Notice, Report or Other Data

NOTICE OF INTENTION TO:		SUBSEQUENT REPORT OF:	
PERFORM REMEDIAL WORK <input checked="" type="checkbox"/>	PLUG AND ABANDON <input type="checkbox"/>	REMEDIAL WORK <input type="checkbox"/>	ALTERING CASING <input type="checkbox"/>
TEMPORARILY ABANDON <input type="checkbox"/>	CHANGE PLANS <input type="checkbox"/>	COMMENCE DRILLING OPNS. <input type="checkbox"/>	P AND A <input type="checkbox"/>
PULL OR ALTER CASING <input type="checkbox"/>	MULTIPLE COMPL <input type="checkbox"/>	CASING/CEMENT JOB <input type="checkbox"/>	
DOWNHOLE COMMINGLE <input type="checkbox"/>			
OTHER: <input type="checkbox"/>		OTHER: <input type="checkbox"/>	

13. Describe proposed or completed operations. (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work). SEE RULE 19.15.7.14 NMAC. For Multiple Completions: Attach wellbore diagram of proposed completion or recompletion.

Navajo proposes to add perforations in the existing injection interval at 7800 feet – 7830 feet, 8050 feet – 8290 feet. These perforations would be added in the existing, approved, injection interval in Chukka WDW-2.

NOTE: Work is proposed to be performed in July 2013.

Spud Date: Rig Release Date:

I hereby certify that the information above is true and complete to the best of my knowledge and belief.

SIGNATURE Timothy Jones TITLE Project Engineer DATE 6-13-2013
 Type or print name Timothy Jones E-mail address: tjones@subsurfacegroup.com
 PHONE: 713-880-4640

For State Use Only

APPROVED BY: Carol Chavez TITLE Environmental Engineer DATE 6/18/2013
 Conditions of Approval (if any):

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 1625 N. French Dr., Hobbs, NM 88240
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State of New Mexico
 Energy, Minerals and Natural Resources

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 Revised August 1, 2011

OIL CONSERVATION DIVISION
 1220 South St. Francis Dr.
 Santa Fe, NM 87505

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1. Type of Well: Oil Well <input type="checkbox"/> Gas Well <input type="checkbox"/> Other (Class 1 NH Injection Well)		5. Indicate Type of Lease STATE <input type="checkbox"/> FEE <input type="checkbox"/>
2. Name of Operator Navajo Refining Company L.L.C.		6. State Oil & Gas Lease No.
3. Address of Operator 501 East Main Street, Artesia, NM		7. Lease Name or Unit Agreement Name BLM
4. Well Location Unit Letter: 1980 feet from the North line and 660 feet from the West line Section 12 Township 18 S Range 27 E NMPM County Eddy		8. Well Number WDW-2
11. Elevation (Show whether DR, RKB, RT, GR, etc.) GL: 3,607 feet, RKB: 3,6223 feet		9. OGRID Number
		10. Pool name or Wildcat Lwr Wolfcamp-Cisco-Canyon Inj. Zone

12. Check Appropriate Box to Indicate Nature of Notice, Report or Other Data

NOTICE OF INTENTION TO: PERFORM REMEDIAL WORK <input checked="" type="checkbox"/> PLUG AND ABANDON <input type="checkbox"/> TEMPORARILY ABANDON <input type="checkbox"/> CHANGE PLANS <input type="checkbox"/> PULL OR ALTER CASING <input type="checkbox"/> MULTIPLE COMPL. <input type="checkbox"/> DOWNHOLE COMMINGLE <input type="checkbox"/>		SUBSEQUENT REPORT OF: REMEDIAL WORK <input type="checkbox"/> ALTERING CASING <input type="checkbox"/> COMMENCE DRILLING OPNS. <input type="checkbox"/> P AND A <input type="checkbox"/> CASING/CEMENT JOB <input type="checkbox"/>	
OTHER: <input type="checkbox"/>		OTHER: <input type="checkbox"/>	

13. Describe proposed or completed operations. (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work). SEE RULE 19.15.7.14 NMAC. For Multiple Completions: Attach wellbore diagram of proposed completion or recompletion.

A caliper survey will be conducted on the 3-1/2-inch injection tubing. The caliper survey is scheduled to be performed on June 19, 2013.

Navajo will conduct an acid stimulation of the injection interval in the WDW-2 to increase injectivity into the permitted injection zone. The stimulation fluid will consist of 20,244 gallons of 15% HCl acid injected into the perforated interval of 7,270 to 8,894 feet RKB. The acid will be injected into the well using coil tubing equipment.

NOTE: Work is expected to be performed in June and July 2013.

Spud Date: Rig Release Date:

I hereby certify that the information above is true and complete to the best of my knowledge and belief.

SIGNATURE Timothy Jones TITLE Project Engineer DATE 6-13-2013

Type or print name Timothy Jones E-mail address: tjones@subsurfacegroup.com
 PHONE: 713-880-4640

For State Use Only

APPROVED BY: Corey Chantey TITLE Environmental Engineer DATE 6/18/2013
 Conditions of Approval (if any):

SUBSURFACE

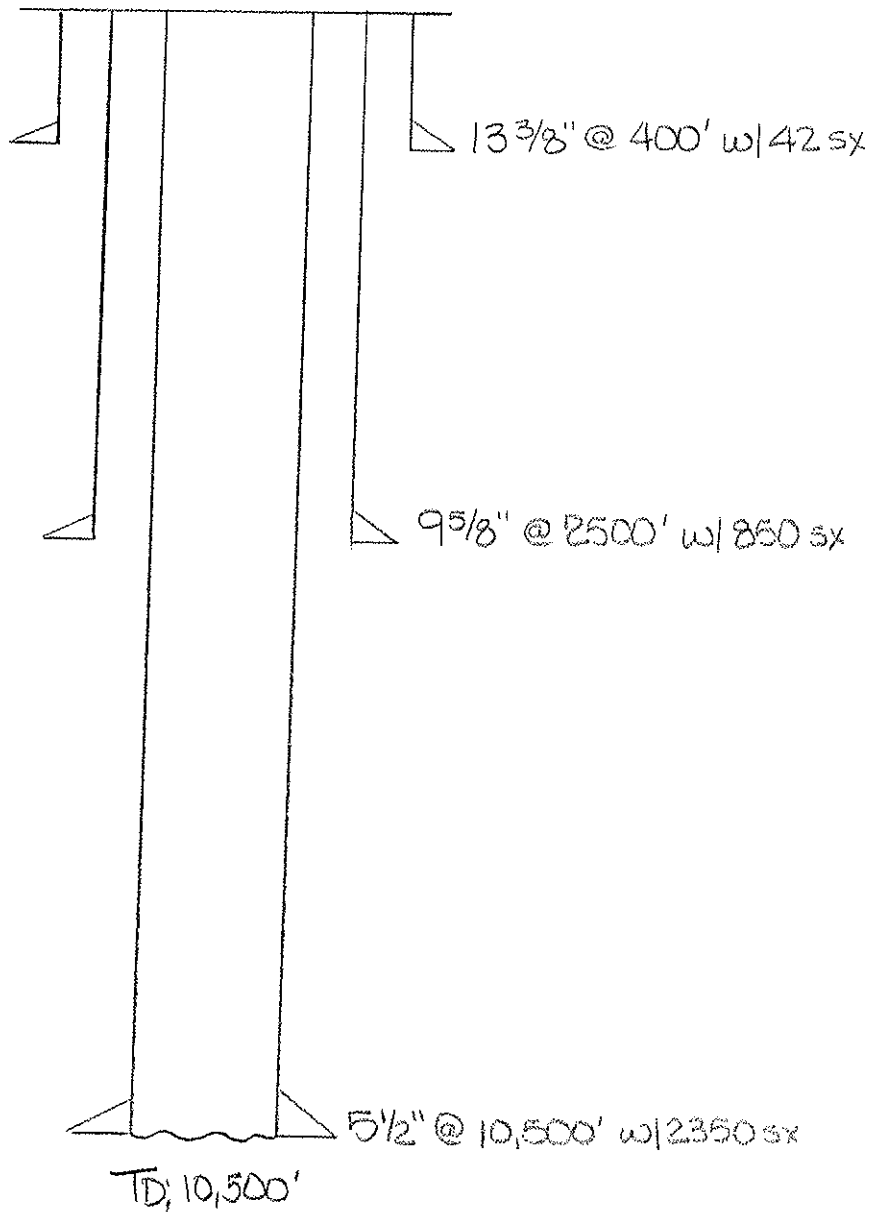
NAVAJO REFINING COMPANY
Map ID No. 35
Artificial Penetration Review

OPERATOR Yates Petroleum Co.
LEASE Violet Blv State Com
WELL NUMBER 1
DRILLED NA
PLUGGED NA

STATUS New Gas
LOCATION Sec. 14 -T18S-R27E
MUD FILLED BOREHOLE NA
TOP OF INJECTION ZONE NA
API NO. 30-015- 40187

REMARKS: Not yet drilled. Proposed 10,500'

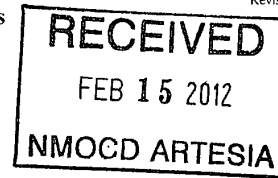
Proposed Casing



District I
1625 N French Dr, Hobbs, NM 88240
Phone (575) 393-6161 Fax (575) 393-0720
District II
811 S First St, Artesia, NM 88210
Phone (575) 748-1283 Fax (575) 748-9720
District III
1000 Rio Brazos Road, Aztec, NM 87410
Phone (505) 334-6178 Fax (505) 334-6170
District IV
1220 S St Francis Dr, Santa Fe, NM 87505
Phone (505) 476-3460 Fax (505) 476-3462

State of New Mexico
Energy Minerals and Natural Resources
Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

Form C-101
Revised December 16, 2011



Permit

APPLICATION FOR PERMIT TO DRILL, RE-ENTER, DEEPEN, PLUGBACK, OR ADD A ZONE

¹ Operator Name and Address Yates Petroleum Corporation 105 South Fourth Street Artesia, New Mexico 88210		² OGRID Number 025575
		³ API Number 30-015-40187
⁴ Property Code 35452	⁵ Property Name Violet BIV State Com	⁶ Well No. 1

7 Surface Location

UL - Lot	Section	Township	Range	Lot Idn	Feet from	N/S Line	Feet From	E/W Line	County
A	14	18S	27E	A	660	North	990	East	Eddy

8 Pool Information

Wildcat Chester	97825
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Additional Well Information

⁹ Work Type N	¹⁰ Well Type G	¹¹ Cable/Rotary Rotary	¹² Lease Type State	¹¹ Ground Level Elevation 3540' GL
¹⁴ Multiple N	¹⁵ Proposed Depth 10,500	¹⁶ Formation Chester	¹⁷ Contractor Not Determined	¹⁸ Spud Date ASAP
Depth to Ground water		Distance from nearest fresh water well		Distance to nearest surface water

19 Proposed Casing and Cement Program

Type	Hole Size	Casing Size	Casing Weight/ft	Setting Depth	Sacks of Cement	Estimated TOC
New	17.5	13.375	48#	400'	425	0
New	12.25	9.625	36#	2500'	850	0
New	8.75	5.5	15.5#	10500'	2350	0

Casing/Cement Program: Additional Comments

--

Proposed Blowout Prevention Program

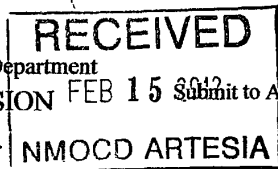
Type	Working Pressure	Test Pressure	Manufacturer
Double Ram	5000#	5000#	

I hereby certify that the information given above is true and complete to the best of my knowledge and belief I further certify that the drilling pit will be constructed according to NMOCD guidelines <input type="checkbox"/> , a general permit <input type="checkbox"/> , or an (attached) alternative OGD-approved plan <input checked="" type="checkbox"/>	OIL CONSERVATION DIVISION	
	Approved By: <i>T. C. Shepard</i>	
	Title: <i>Geologist</i>	
	Approved Date: <i>4/18/2012</i>	Expiration Date: <i>4/18/2014</i>
	Conditions of Approval Attached	

Signature: <i>Cy Cowan</i>	Printed name: Cy Cowan	Title: Land Regulatory Agent	E-mail Address: cy@yatespetroleum.com	Date: 02/14/2012	Phone: 575-748-4372
----------------------------	------------------------	------------------------------	---------------------------------------	------------------	---------------------

District I
1625 N. French Dr., Hobbs, NM 88240
District II
1301 W. Grand Avenue, Artesia, NM 88210
District III
1000 Rio Brazos Rd., Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy, Minerals & Natural Resources Department
OIL CONSERVATION DIVISION
1220 South St. Francis Dr.
Santa Fe, NM 87505



Form C-102
Revised June 10, 2003
Submit to Appropriate District Office
State Lease - 4 Copies
Fee Lease - 3 Copies

AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number 30-015- 40187	² Pool Code 97825	³ Pool Name WILDCAT; CHESTER
⁴ Property Code 35452	⁵ Property Name VIOLET BIV STATE COM	
⁷ OGRID No. 025575	⁸ Operator Name YATES PETROLEUM CORPORATION	⁶ Well Number 1
		⁹ Elevation 3540

10 Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
A	14	18-S	27-E		660	NORTH	990	EAST	EDDY

11 Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County

¹² Dedicated Acre 320 E2	¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ Order No.
--	-------------------------------	----------------------------------	-------------------------

No allowable will be assigned to this completion until all interests have been consolidated or a non-standard unit has been approved by the division.

16	<p>LAT N32.75293 LON W104.24397</p>	<p>17 OPERATOR CERTIFICATION I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of such a working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.</p> <p><i>Cy Cowan</i> 02/14/12 Signature Date</p> <p>Cy Cowan Printed Name</p>
		<p>18 SURVEYOR CERTIFICATION I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief.</p> <p>FEBRUARY 6, 2006 Date of Survey</p> <p><i>DAN R. REDDY</i> Signature and Seal of Professional Surveyor</p> <p>NEW MEXICO 5442 Certificate Number SURV DAN R. REDDY NM PE & PS #5412 PROFESSIONAL SURVEYOR</p>

SUBSURFACENAVAJO REFINING COMPANY
Map ID No. 36
Artificial Penetration ReviewOPERATOR Yates Petroleum Co.
LEASE Violet BIV State Com
WELL NUMBER 1C
DRILLED NA
PLUGGED NASTATUS Cancelled App
LOCATION Sec. 14 -T18S-R27E
MUD FILLED BOREHOLE NA
TOP OF INJECTION ZONE NA
API NO. 30-015-36939

REMARKS:

Proposed TD: 10,500'

FEB 13 2009

Form C-101
June 16, 2001

District I
1625 N French Dr, Hobbs, NM 88240
District II
1301 W Grand Avenue, Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S St Francis Dr, Santa Fe, NM 87505

State of New Mexico
Energy Minerals and Natural Resources



Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

Submit to appropriate District Office

AMENDED REPORT

APPLICATION FOR PERMIT TO DRILL, RE-ENTER, DEEPEN, PLUGBACK, OR ADD A ZONE

Operator Name and Address Yates Petroleum Corporation 105 S 4 th Street Artesia, NM 88210		² OGRID Number 025575
		³ API Number 30-05-36939
³ Property Code 34452 35452	⁵ Property Name Violet BIV State Com	⁶ Well No 1
⁹ Proposed Pool 1 Chester		¹⁰ Proposed Pool 2

Surface Location

UL or lot no	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
A	14	18S	27E	A	660'	North	990'	East	Eddy

Proposed Bottom Hole Location If Different From Surface

UL or lot no	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County

Additional Well Information

¹¹ Work Type Code N	¹² Well Type Code G	¹³ Cable/Rotary	¹⁴ Lease Type Code S	¹⁵ Ground Level Elevation 3540'
¹⁶ Multiple N	¹⁷ Proposed Depth 10,500'	¹⁸ Formation Chester	¹⁹ Contractor Not Determined	²⁰ Spud Date ASAP

Proposed Casing and Cement Program

Hole Size	Casing Size	Casing weight/foot	Setting Depth	Sacks of Cement	Estimated TOC
17.12	13 375	48#	400'	425 sx	0
12.25	9 625	36#	2500'	850 sx	0
8.75	5.5	15.5#	10500	2350 sx	0

²² Describe the proposed program. If this application is to DEEPEN or PLUG BACK, give the data on the present productive zone and proposed new productive zone. Describe the blowout prevention program, if any. Use additional sheets if necessary.

Yates Petroleum Corporation proposes to drill and test the Chester/intermediate formations. Approximately 400' of surface casing will be set and cement circulated. Intermediate casing will be set at 2500', cement circulated to surface. If commercial, production casing will be run, can cemented, perforated and stimulated as needed to gain production.

MUD PROGRAM: 0-400' FW Gel; 400'-2500' Brine Water, 2500'-9600' Cut Brine; 9600'-10500' Salt Gel/Starch/ 4-6%KCL

BOPE PROGRAM: a 5000# BOPE will be installed on the 9.625" casing and tested daily for operational.

Sources at YPC have relayed information to me that they believe there will not be enough H2S found from the surface to the Chester formation to meet the OCD's minimum requirements for the submission of a contingency plan per Rule 118.

²³ I hereby certify that the information given above is true and complete to the best of my knowledge and belief.		OIL CONSERVATION DIVISION	
Signature 	Printed name Cy Cowan	Approved by 	Title District 11 Geologist
Title Regulatory Agent	E-mail Address cy@yatespetroleum.com	Approval Date 2/23/09	Expiration Date 2/23/2011
Date February 6, 2009	Phone (575) 748-4372	Conditions of Approval Attached <input type="checkbox"/>	



District I
1625 N. French Dr., Hobbs, NM 88240
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State of New Mexico
Energy, Minerals & Natural Resources Department
OIL CONSERVATION DIVISION
1220 South St. Francis Dr.
Santa Fe, NM 87505

Form C-102
Revised October 12, 2005
Submit to Appropriate District Office
State Lease - 4 Copies
Fee Lease - 3 Copies

AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number 30-015-36939	² Pool Code	³ Pool Name Chester WildCat
⁴ Property Code 35452	⁵ Property Name Violet BIV State Com	
⁷ OGRID No. 025575	⁸ Operator Name Yates Petroleum Corporation	⁶ Well Number 1
		⁹ Elevation 3540'

¹⁰ Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
A	14	18S	27E		660'	North	990'	East	Eddy

¹¹ Bottom Hole Location if Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County

¹² Dedicated Acres 320 EA	¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ Order No.
---	-------------------------------	----------------------------------	-------------------------

No allowable will be assigned to this completion until all interests have been consolidated or a non-standard unit has been approved by the division.

16						<p>¹⁷ OPERATOR CERTIFICATION I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of such a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division</p> <p style="text-align: right;">1/17/08</p> <p>Signature: <i>Dellie S. Coffey</i> Date: _____</p> <p>Printed Name: Cy Cowan, Regulatory Agent</p>
						<p>¹⁸ SURVEYOR CERTIFICATION I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief.</p> <p>Date of Survey _____ Signature and Seal of Professional Surveyor _____</p> <p>REFER TO ORIGINAL PLAT</p> <p>Certificate Number _____</p>

District I
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State of New Mexico
Energy, Minerals & Natural Resources Department
OIL CONSERVATION DIVISION
1220 South St. Francis Dr.
Santa Fe, NM 87505

Form C-102
Revised June 10, 2003
Submit to Appropriate District Office
State Lease - 4 Copies
Fee Lease - 3 Copies

AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number 30-015-		² Pool Code		³ Pool Name	
⁴ Property Code 35452		⁵ Property Name VIOLET BIV STATE COM			⁶ Well Number 1
⁷ OGRID No. 25575		⁸ Operator Name YATES PETROLEUM CORPORATION			⁹ Elevation 3540

Surface Location

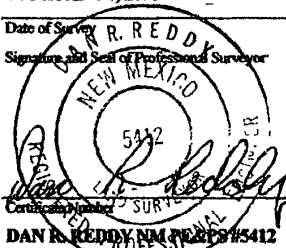
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
A	14	18-S	27-E		660	NORTH	990	EAST	EDDY

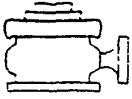
Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County

¹¹ Dedicated Acre	¹² Joint or Infill	¹⁴ Consolidation Code	¹³ Order No.

No allowable will be assigned to this completion until all interests have been consolidated or a non-standard unit has been approved by the division.

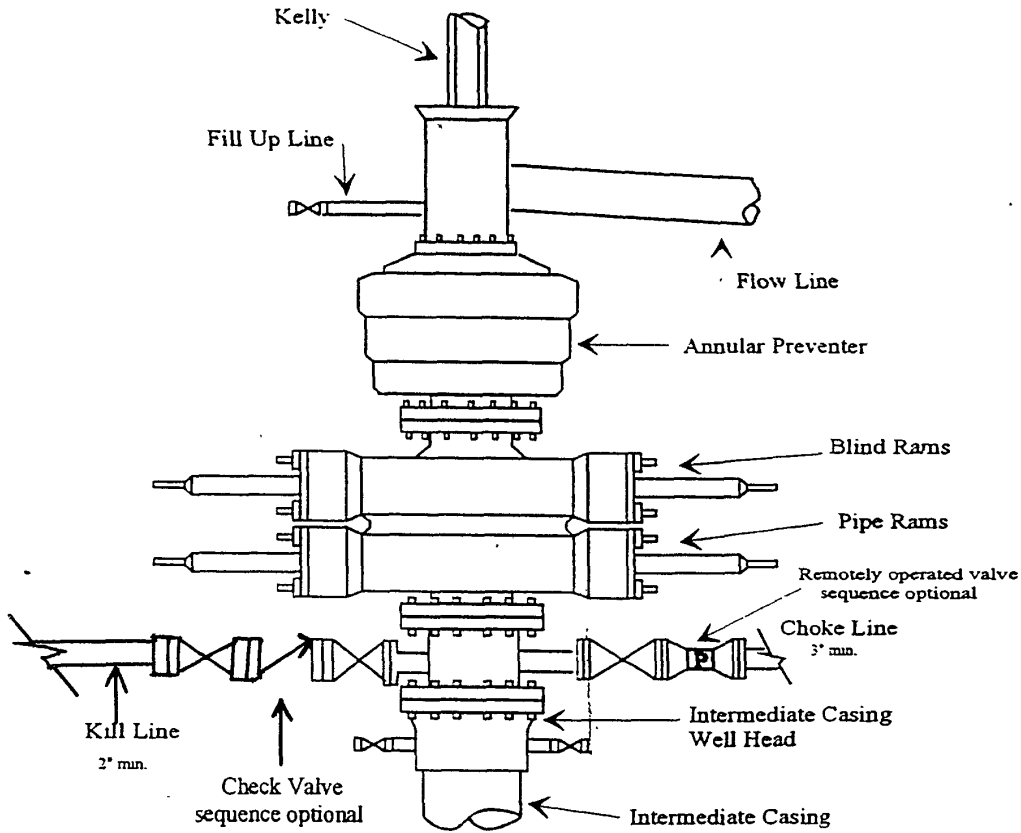
16	990'	LAT N32.75293 LON W104.24397	17 OPERATOR CERTIFICATION I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of such a working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division. Signature: <i>Robert G. Coffey</i> Date: _____ Printed Name: <i>Robert G. Coffey</i>
			18 SURVEYOR CERTIFICATION I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief. Date of Survey: FEBRUARY 6, 2006
			Date of Survey: _____ Signature and Seal of Professional Surveyor:  Certification Number: _____ DAN R. REDDY, NM REG. #5412 PROFESSIONAL SURVEYOR



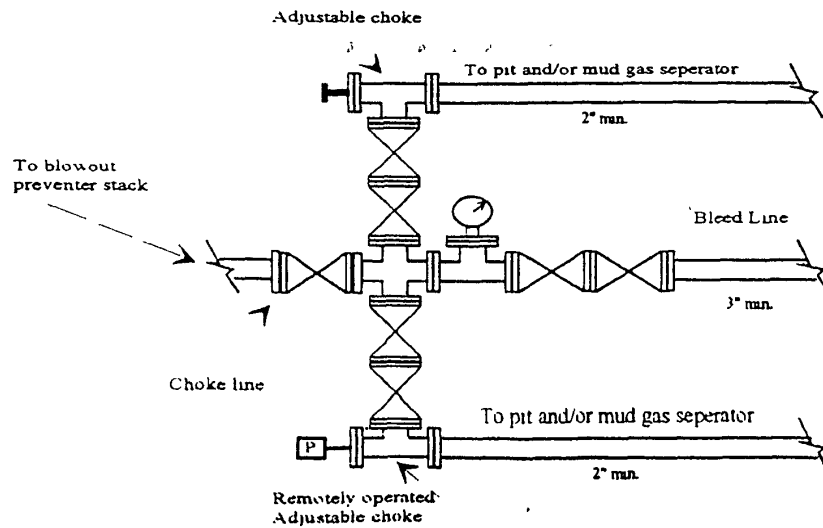
Yates Petroleum Corporation

Typical 5,000 psi Pressure System
Schematic
Annular with Double Ram Preventer Stack

BOP-4



Typical 5,000 psi choke manifold assembly with at least these minimum features



District I
1625 N French Dr., Hobbs, NM 88240
District II
1301 W Grand Avenue, Artesia, NM 88210
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1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy Minerals and Natural Resources
Department
Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

Form C-144 CLEZ
July 21, 2008

For closed-loop systems that only use above ground steel tanks or haul-off bins and propose to implement waste removal for closure, submit to the appropriate NMOCD District Office.

Closed-Loop System Permit or Closure Plan Application

(that only use above ground steel tanks or haul-off bins and propose to implement waste removal for closure)

Type of action: Permit Closure

Instructions: Please submit one application (Form C-144 CLEZ) per individual closed-loop system request. For any application request other than for a closed-loop system that only use above ground steel tanks or haul-off bins and propose to implement waste removal for closure, please submit a Form C-144.

Please be advised that approval of this request does not relieve the operator of liability should operations result in pollution of surface water, ground water or the environment. Nor does approval relieve the operator of its responsibility to comply with any other applicable governmental authority's rules, regulations or ordinances

1. Operator: Yates Petroleum Corporation OGRID #: 025575
Address: 105 South Fourth Street, Artesia, New Mexico 88210
Facility or well name: Violet BJV State Com #1 30-015-36939
API Number: 30-015-34632 OCD Permit Number: _____
U/L or Qtr/Qtr A Section 14 Township 18S Range 27E County: Eddy
Center of Proposed Design: Latitude N32.75293 Longitude W104.24397 NAD: 1927 1983
Surface Owner: Federal State Private Tribal Trust or Indian Allotment

2. **Closed-loop System:** Subsection H of 19.15.17.11 NMAC
Operation: Drilling a new well Workover or Drilling (Applies to activities which require prior approval of a permit or notice of intent) P&A
 Above Ground Steel Tanks or Haul-off Bins

3. **Signs:** Subsection C of 19.15.17.11 NMAC
 12"x 24", 2" lettering, providing Operator's name, site location, and emergency telephone numbers
 Signed in compliance with 19.15.3.103 NMAC

4. **Closed-loop Systems Permit Application Attachment Checklist:** Subsection B of 19.15.17.9 NMAC
Instructions: Each of the following items must be attached to the application. Please indicate, by a check mark in the box, that the documents are attached.
 Design Plan - based upon the appropriate requirements of 19.15.17.11 NMAC
 Operating and Maintenance Plan - based upon the appropriate requirements of 19.15.17.12 NMAC
 Closure Plan (Please complete Box 5) - based upon the appropriate requirements of Subsection C of 19.15.17.9 NMAC and 19.15.17.13 NMAC
 Previously Approved Design (attach copy of design) API Number: _____
 Previously Approved Operating and Maintenance Plan API Number: _____

5. **Waste Removal Closure For Closed-loop Systems That Utilize Above Ground Steel Tanks or Haul-off Bins Only:** (19.15.17.13.D NMAC)
Instructions: Please identify the facility or facilities for the disposal of liquids, drilling fluids and drill cuttings. Use attachment if more than two facilities are required.
Disposal Facility Name: Gandy Marley Disposal Facility Permit Number: NM-01-0019
Disposal Facility Name: CRI Disposal Facility Permit Number: R-9166
Disposal Facility Name: Lea Land Disposal Facility Permit Number: NM-1-035
Will any of the proposed closed-loop system operations and associated activities occur on or in areas that will not be used for future service and operations?
 Yes (If yes, please provide the information below) No
Required for impacted areas which will not be used for future service and operations.
 Soil Backfill and Cover Design Specifications - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC
 Re-vegetation Plan - based upon the appropriate requirements of Subsection I of 19.15.17.13 NMAC
 Site Reclamation Plan - based upon the appropriate requirements of Subsection G of 19.15.17.13 NMAC

0209130

<p>6. Operator Application Certification: I hereby certify that the information submitted with this application is true, accurate and complete to the best of my knowledge and belief.</p> <p>Name (Print): <u>Cy Cowan</u> Title: <u>Regulatory Agent</u> Signature: <u>[Signature]</u> Date: <u>2/6/09</u> e-mail address: <u>cy@yatespetroleum.com</u> Telephone: <u>575-748-4372</u></p>	
<p>7. OCD Approval: <input checked="" type="checkbox"/> Permit Application (including closure plan) <input type="checkbox"/> Closure Plan (only)</p> <p>OCD Representative Signature: <u>[Signature]</u> Approval Date: <u>02-24-09</u> Title: <u>District 11 Geologist</u> OCD Permit Number: <u>0209130</u></p>	
<p>8. Closure Report (required within 60 days of closure completion): Subsection K of 19.15.17.13 NMAC <i>Instructions: Operators are required to obtain an approved closure plan prior to implementing any closure activities and submitting the closure report. The closure report is required to be submitted to the division within 60 days of the completion of the closure activities. Please do not complete this section of the form until an approved closure plan has been obtained and the closure activities have been completed.</i></p> <p><input type="checkbox"/> Closure Completion Date: _____</p>	
<p>9. Closure Report Regarding Waste Removal Closure For Closed-loop Systems That Utilize Above Ground Steel Tanks or Haul-off Bins Only: <i>Instructions: Please identify the facility or facilities for where the liquids, drilling fluids and drill cuttings were disposed. Use attachment if more than two facilities were utilized.</i></p> <p>Disposal Facility Name: _____ Disposal Facility Permit Number: _____ Disposal Facility Name: _____ Disposal Facility Permit Number: _____</p> <p>Were the closed-loop system operations and associated activities performed on or in areas that <i>will not</i> be used for future service and operations? <input type="checkbox"/> Yes (If yes, please demonstrate compliance to the items below) <input type="checkbox"/> No</p> <p><i>Required for impacted areas which will not be used for future service and operations:</i></p> <p><input type="checkbox"/> Site Reclamation (Photo Documentation) <input type="checkbox"/> Soil Backfilling and Cover Installation <input type="checkbox"/> Re-vegetation Application Rates and Seeding Technique</p>	
<p>10. Operator Closure Certification: I hereby certify that the information and attachments submitted with this closure report is true, accurate and complete to the best of my knowledge and belief. I also certify that the closure complies with all applicable closure requirements and conditions specified in the approved closure plan.</p> <p>Name (Print): _____ Title: _____ Signature: _____ Date: _____ e-mail address: _____ Telephone: _____</p>	

Yates Petroleum Corporation Closed Loop System

Equipment Design Plan

Closed Loop System will consist of:

- 1 – double panel shale shaker
- 1 – (minimum) Centrifuge, certain wells and flow rates may require 2 centrifuges
- On certain wells, the Centrifuge will be replaced by a Clackco Settling Tank System
- 1 – minimum centrifugal pump to transfer fluids
- 2- 500 bbl. FW Tanks
- 1 – 500 bbl. BW Tank
- 1 – half round frac tank – 250 bbl. capacity as necessary to catch cement / excess mud returns generated during a cement job.
- 1 Set of rail cars / catch bins
- Certain wells will use an ASC Auger Tank

Operation Plan

All equipment will be inspected at least hourly by rig personnel and daily by contractors personnel.
Any spills / leaks will be reported to YPC, NMOCD, and cleaned up without delay.

Closure Plan

Drilling with Closed Loop System, haul off bins will be taken to Gandy Marley, CRI and Lea Land Farm.

Submit 3 Copies To Appropriate District Office
 District I
 1625 N. French Dr., Hobbs, NM 88240
 District II
 1301 W. Grand Ave., Artesia, NM 88210
 District III
 1000 Rio Brazos Rd., Aztec, NM 87410
 District IV
 1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
 Energy, Minerals and Natural Resources

Form C-103
 June 16, 2008

OIL CONSERVATION DIVISION
 1220 South St. Francis Dr.
 Santa Fe, NM 87505

SUNDRY NOTICES AND REPORTS ON WELLS (DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO DEEPEN OR PLUG BACK TO A DIFFERENT RESERVOIR. USE "APPLICATION FOR PERMIT" (FORM C-101) FOR SUCH PROPOSALS.) 1. Type of Well: Oil Well <input type="checkbox"/> Gas Well <input checked="" type="checkbox"/> Other		WELL API NO. 30-015-36939
2. Name of Operator Yates Petroleum Corporation		5. Indicate Type of Lease STATE <input checked="" type="checkbox"/> FEE <input type="checkbox"/>
3. Address of Operator 105 S. 4 th Street, Artesia, New Mexico 88210		6. State Oil & Gas Lease No. VA-2131
4. Well Location Unit Letter <u>A</u> <u>660</u> feet from the <u>North</u> line and <u>990</u> feet from the <u>East</u> line Section <u>14</u> Township <u>18S</u> Range <u>27E</u> NMPM County <u>Eddy</u>		7. Lease Name or Unit Agreement Name Violet BIV State Com
11. Elevation (Show whether DR, RKB, RT, GR, etc.) 3540' GR		8. Well Number 1
		9. OGRID Number 25575
		10. Pool name or Wildcat Chester

12. Check Appropriate Box to Indicate Nature of Notice, Report or Other Data

NOTICE OF INTENTION TO: PERFORM REMEDIAL WORK <input type="checkbox"/> PLUG AND ABANDON <input type="checkbox"/> TEMPORARILY ABANDON <input type="checkbox"/> CHANGE PLANS <input type="checkbox"/> PULL OR ALTER CASING <input type="checkbox"/> MULTIPLE COMPL <input type="checkbox"/> OTHER: <input type="checkbox"/>		SUBSEQUENT REPORT OF: REMEDIAL WORK <input type="checkbox"/> ALTERING CASING <input type="checkbox"/> COMMENCE DRILLING OPNS. <input type="checkbox"/> P AND A <input type="checkbox"/> CASING/CEMENT JOB <input type="checkbox"/> OTHER: Extend APD <input checked="" type="checkbox"/>	
--	--	--	--

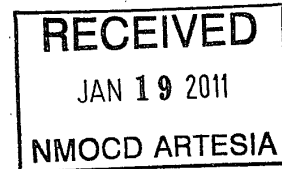
13. Describe proposed or completed operations. (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work). SEE RULE 1103. For Multiple Completions: Attach wellbore diagram of proposed completion or recompletion.

Yates Petroleum Corporation wishes to extend the Application for Permit to Drill for ~~two~~^{one} years until February 23, 2012².

Thank you,

Current NMOCD rules and regulations must be met at time of drilling

Final Extension
APPROVED FOR 1 YEAR
EXPIRES: 2/23/2012



I hereby certify that the information above is true and complete to the best of my knowledge and belief.

SIGNATURE Monti Sanders TITLE Land Regulatory Technician DATE January 14, 2011
 Type or print name Monti Sanders E-mail address montis@yatespetroleum.com PHONE: (575) 748-4244
For State Use Only
 APPROVED BY: David Gray TITLE Field Supervisor DATE 1-26-11
 Conditions of Approval (if any):

District I
1625 N French Dr., Hobbs, NM 88240
District II
1301 W Grand Avenue, Artesia, NM 88210
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State of New Mexico
Energy Minerals and Natural Resources
Department
Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

Form C-144 CLEZ
July 21, 2008

For closed-loop systems that only use above ground steel tanks or haul-off bins and propose to implement waste removal for closure, submit to the appropriate NMOCD District Office.

Closed-Loop System Permit or Closure Plan Application

(that only use above ground steel tanks or haul-off bins and propose to implement waste removal for closure)

Type of action: Permit Closure

Instructions: Please submit one application (Form C-144 CLEZ) per individual closed-loop system request. For any application request other than for a closed-loop system that only use above ground steel tanks or haul-off bins and propose to implement waste removal for closure, please submit a Form C-144.

Please be advised that approval of this request does not relieve the operator of liability should operations result in pollution of surface water, ground water or the environment. Nor does approval relieve the operator of its responsibility to comply with any other applicable governmental authority's rules, regulations or ordinances.

1. Operator: <u>Yates Petroleum Corporation</u> OGRID #: <u>025575</u>	
Address: <u>105 South Fourth Street, Artesia, New Mexico 88210</u>	
Facility or well name: <u>Violet BIV State Com #1</u> <u>30-015-36939</u>	
API Number: <u>30-015-36939</u> OCD Permit Number: <u>209130</u>	
U/L or Qtr/Qtr <u>A</u> Section <u>14</u> Township <u>18S</u> Range <u>27E</u> County: <u>Eddy</u>	
Center of Proposed Design: Latitude <u>N32.75293</u> Longitude <u>W104.24397</u> NAD: <input checked="" type="checkbox"/> 1927 <input type="checkbox"/> 1983	
Surface Owner: <input type="checkbox"/> Federal <input checked="" type="checkbox"/> State <input type="checkbox"/> Private <input type="checkbox"/> Tribal Trust or Indian Allotment	
2. <input checked="" type="checkbox"/> Closed-loop System: Subsection H of 19.15.17.11 NMAC Operation: <input checked="" type="checkbox"/> Drilling a new well <input type="checkbox"/> Workover or Drilling (Applies to activities which require prior approval of a permit or notice of intent) <input type="checkbox"/> P&A <input type="checkbox"/> Above Ground Steel Tanks or <input checked="" type="checkbox"/> Haul-off Bins	
3. Signs: Subsection C of 19.15.17.11 NMAC <input type="checkbox"/> 12"x 24", 2" lettering, providing Operator's name, site location, and emergency telephone numbers <input checked="" type="checkbox"/> Signed in compliance with 19.15.3.103 NMAC	
4. Closed-loop Systems Permit Application Attachment Checklist: Subsection B of 19.15.17.9 NMAC Instructions: Each of the following items must be attached to the application. Please indicate, by a check mark in the box, that the documents are attached. <input checked="" type="checkbox"/> Design Plan - based upon the appropriate requirements of 19.15.17.11 NMAC <input checked="" type="checkbox"/> Operating and Maintenance Plan - based upon the appropriate requirements of 19.15.17.12 NMAC <input checked="" type="checkbox"/> Closure Plan (Please complete Box 5) - based upon the appropriate requirements of Subsection C of 19.15.17.9 NMAC and 19.15.17.13 NMAC <input type="checkbox"/> Previously Approved Design (attach copy of design) API Number: _____ <input type="checkbox"/> Previously Approved Operating and Maintenance Plan API Number: _____	
5. Waste Removal Closure For Closed-loop Systems That Utilize Above Ground Steel Tanks or Haul-off Bins Only: (19.15.17.13.D NMAC) Instructions: Please identify the facility or facilities for the disposal of liquids, drilling fluids and drill cuttings. Use attachment if more than two facilities are required. Disposal Facility Name: <u>Gandy Marley</u> Disposal Facility Permit Number: <u>NM-01-0019</u> Disposal Facility Name: <u>CRI</u> Disposal Facility Permit Number: <u>R-9166</u> Disposal Facility Name: <u>Lea Land</u> Disposal Facility Permit Number: <u>NM-1-035</u> Will any of the proposed closed-loop system operations and associated activities occur on or in areas that will not be used for future service and operations? <input type="checkbox"/> Yes (If yes, please provide the information below) <input checked="" type="checkbox"/> No Required for impacted areas which will not be used for future service and operations. <input type="checkbox"/> Soil Backfill and Cover Design Specifications - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC <input type="checkbox"/> Re-vegetation Plan - based upon the appropriate requirements of Subsection I of 19.15.17.13 NMAC <input type="checkbox"/> Site Reclamation Plan - based upon the appropriate requirements of Subsection G of 19.15.17.13 NMAC	

0209130

6
Operator Application Certification:
 I hereby certify that the information submitted with this application is true, accurate and complete to the best of my knowledge and belief.
 Name (Print): Cy Cowan Title: Regulatory Agent
 Signature: [Signature] Date: 2/6/09
 e-mail address: cy@vatespetroleum.com Telephone: 575-748-4372

7
OCD Approval: Permit Application (including closure plan) Closure Plan (only)
 OCD Representative Signature: [Signature] Approval Date: 02-24-09
 Title: District 11 Geologist OCD Permit Number: 0209136

8
Closure Report (required within 60 days of closure completion): Subsection K of 19.15.17.13 NMAC
Instructions: Operators are required to obtain an approved closure plan prior to implementing any closure activities and submitting the closure report. The closure report is required to be submitted to the division within 60 days of the completion of the closure activities. Please do not complete this section of the form until an approved closure plan has been obtained and the closure activities have been completed.
 Closure Completion Date: _____

9
Closure Report Regarding Waste Removal Closure For Closed-loop Systems That Utilize Above Ground Steel Tanks or Haul-off Bins Only:
Instructions: Please identify the facility or facilities for where the liquids, drilling fluids and drill cuttings were disposed. Use attachment if more than two facilities were utilized.
 Disposal Facility Name: _____ Disposal Facility Permit Number: _____
 Disposal Facility Name: _____ Disposal Facility Permit Number: _____
 Were the closed-loop system operations and associated activities performed on or in areas that *will not* be used for future service and operations?
 Yes (If yes, please demonstrate compliance to the items below) No
Required for impacted areas which will not be used for future service and operations:
 Site Reclamation (Photo Documentation)
 Soil Backfilling and Cover Installation
 Re-vegetation Application Rates and Seeding Technique

10
Operator Closure Certification:
 I hereby certify that the information and attachments submitted with this closure report is true, accurate and complete to the best of my knowledge and belief. I also certify that the closure complies with all applicable closure requirements and conditions specified in the approved closure plan.
 Name (Print): _____ Title: _____
 Signature: _____ Date: _____
 e-mail address: _____ Telephone: _____

Yates Petroleum Corporation Closed Loop System

Equipment Design Plan

Closed Loop System will consist of:

- 1 – double panel shale shaker
 - 1 – (minimum) Centrifuge, certain wells and flow rates may require 2 centrifuges
On certain wells, the Centrifuge will be replaced by a Clackco Settling Tank System
 - 1 – minimum centrifugal pump to transfer fluids
 - 2- 500 bbl. FW Tanks
 - 1 – 500 bbl. BW Tank
 - 1 – half round frac tank – 250 bbl. capacity as necessary to catch cement / excess mud returns generated during a cement job.
 - 1 Set of rail cars / catch bins
- Certain wells will use an ASC Auger Tank

Operation Plan

All equipment will be inspected at least hourly by rig personnel and daily by contractors personnel.
Any spills / leaks will be reported to YPC, NMOCD, and cleaned up without delay.

Closure Plan

Drilling with Closed Loop System, haul off bins will be taken to Gandy Marley, CRI and Lea Land Farm.

SUBSURFACE

NAVAJO REFINING COMPANY

Map ID No. 37

Artificial Penetration Review

OPERATOR Pre-Ongard Well Op.

STATUS Plugged

LEASE Pre-Ongard

LOCATION Sec. 11 -T18S-R27E

WELL NUMBER 1

MUD FILLED BOREHOLE NA

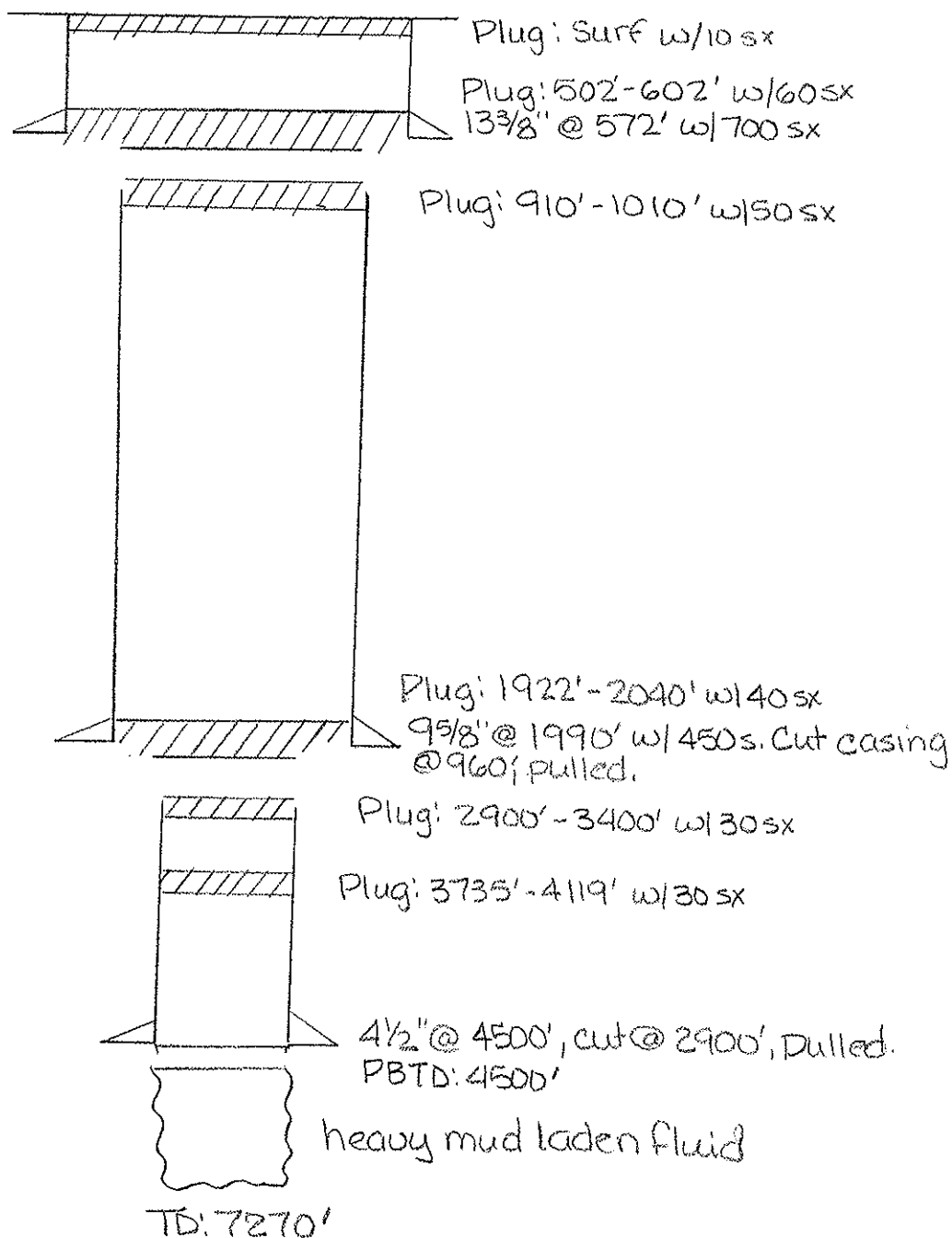
DRILLED NA

TOP OF INJECTION ZONE ~7148'

PLUGGED 6-6-73

API NO. 30-015-00870

REMARKS: No casing into Injection Zone.



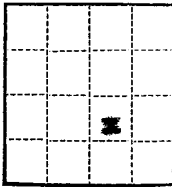
Form 9-381a
(Feb. 1951)

(SUBMIT IN TRIPLICATE)

Land Office Las Cruces

Lease No. _____

Unit _____



UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUNDRY NOTICES AND REPORTS ON WELLS

NOTICE OF INTENTION TO DRILL.....	<input checked="" type="checkbox"/>	SUBSEQUENT REPORT OF WATER SHUT-OFF.....	
NOTICE OF INTENTION TO CHANGE PLANS.....		SUBSEQUENT REPORT OF SHOOTING OR ACIDIZING.....	
NOTICE OF INTENTION TO TEST WATER SHUT-OFF.....		SUBSEQUENT REPORT OF ALTERING CASING.....	
NOTICE OF INTENTION TO RE-DRILL OR REPAIR WELL.....		SUBSEQUENT REPORT OF RE-DRILLING OR REPAIR.....	
NOTICE OF INTENTION TO SHOOT OR ACIDIZE.....		SUBSEQUENT REPORT OF ABANDONMENT.....	
NOTICE OF INTENTION TO PULL OR ALTER CASING.....		SUPPLEMENTARY WELL HISTORY.....	
NOTICE OF INTENTION TO ABANDON WELL.....			

(INDICATE ABOVE BY CHECK MARK NATURE OF REPORT, NOTICE, OR OTHER DATA)

Ruth C. Matheron

August 23, 1956

Well No. 1 is located 1900 ft. from S line and 1500 ft. from E line of sec. 11
NW/4 of SE/4 Sec. 11 2-10-S 2-27-N N M P M
(1/4 Sec. and Sec. No.) (Twp.) (Range) (Meridian)
Wilcox ddy New Mexico
(Field) (County or Subdivision) (State or Territory)

The elevation of the derrick floor above sea level is _____ ft. **To be reported later.**

DETAILS OF WORK

(State names of and expected depths to objective sands; show sizes, weights, and lengths of proposed casings; indicate mudding jobs, cementing points, and all other important proposed work)

We propose to drill the above well with rotary tools to an approximate depth of 7,000' to test the sand and top of wolfcamp. Casing program will be as follows:

Size of Hole	Size of Casing	Depth	Comment
17-1/2"	13-3/8	500	200% of theoretical amount to circulate to surface.
13-1/8"	9-5/8	2000	150% to top of Queen from Caliper survey containing 85 gal, 1/2 buf plug per sack + 100 sacks cement.
8-3/4"	5-1/2	7000	300 sacks cement cement.

I understand that this plan of work must receive approval in writing by the Geological Survey before operations may be commenced.

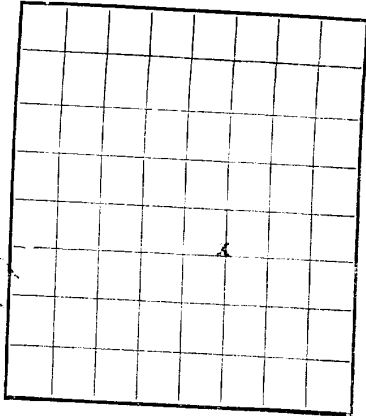
Company Standard Oil and Gas Company

Address Box 68

Hobbs

New Mexico

By Joseph Henderson
Title Field Superintendent



LOCATE WELL CORRECTLY

U. S. LAND OFFICE Las Cruces
SERIAL NUMBER IC 068051
LEASE OR PERMIT TO PROSPECT _____

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

LOG OF OIL OR GAS WELL

Company Stanolind Oil and Gas Company Address Box 68 Hobbs, New Mexico
Lessor or Tract Ruth C. McPherson Field Wildcat State New Mexico

Well No. 1 Sec. 11 T 18-S R 27-E Meridian N M P M County Eddy
Location 1980 ft. ^[N.] of South line and 1980 ft. ^[W.] of East Line of Sec. 11, T-18-S, R-27-E Elevation 3593
(Derrick floor relative to sea level)

The information given herewith is a complete and correct record of the well and all work done thereon so far as can be determined from all available records.

Signed _____ Title Production Foreman

Date November 26, 1956

The summary on this page is for the condition of the well at above date.

Commenced drilling 9-1, 1956 Finished drilling 11-5, 1956

OIL OR GAS SANDS OR ZONES

(Denote gas by G)

No. 1, from _____ to _____ No. 4, from _____ to _____
No. 2, from _____ to _____ No. 5, from _____ to _____
No. 3, from _____ to _____ No. 6, from _____ to _____

IMPORTANT WATER SANDS

No. 1, from _____ to _____ No. 3, from _____ to _____
No. 2, from _____ to _____ No. 4, from _____ to _____

CASING RECORD

Size casing	Weight per foot	Threads per inch	Make	Amount	Kind of shoe	Cut and pulled from	Perforated		Purpose
							From-	To-	
<u>13-3/8</u>	<u>48.36</u>	<u>8 Rd</u>	<u>H-40 Armo</u>	<u>563</u>	<u>Guide</u>	<u>None</u>			<u>Surface</u>
<u>9-5/8</u>	<u>32.3</u>	<u>8 Rd</u>	<u>H-40</u>	<u>1975</u>	<u>Guide</u>	<u>None</u>			<u>Intermediate</u>

MUDDING AND CEMENTING RECORD

Size casing	Where set	Number sacks of cement	Method used	Mud gravity	Amount of mud used
<u>13-3/8</u>	<u>572</u>	<u>700 sx neat</u>	<u>Howco</u>		
<u>9-5/8</u>	<u>1790</u>	<u>250 sx 8% gel + 1/4 tuf plug per sk.</u>	<u>Howco</u>		
<u>5-1/2</u>	<u>Casing was not run in this well.</u>				

PLUGS AND ADAPTERS

Heaving plug—Material _____ Length _____ Depth set _____
Adapters—Material _____ Size _____

SHOOTING RECORD

FOLD MARK

Size	Shell used	Explosive used	Quantity	Date	Depth shot	Depth cleaned out

TOOLS USED

Rotary tools were used from 0 feet to 7270 feet, and from _____ feet to _____ feet
 Cable tools were used from _____ feet to _____ feet, and from _____ feet to _____ feet

DATES

_____, 19____ Put to producing Dry Hole, 19____
 The production for the first 24 hours was _____ barrels of fluid of which _____% was oil; _____%
 emulsion; _____% water; and _____% sediment. Gravity, °Bé. _____
 If gas well, cu. ft. per 24 hours _____ Gallons gasoline per 1,000 cu. ft. of gas _____
 Rock pressure, lbs. per sq. in. _____

EMPLOYEES

H. L. Gilbert, Driller Z. Carr, Driller
George Wheat, Driller Bob Minnick, Driller

FORMATION RECORD

FROM-	TO-	TOTAL FEET	FORMATION
0	312	312	Red Bed
312	360	48	Anhy. & lime
360	482	122	Anhy.
482	539	57	Anhy. sand
539	630	91	Lime anhy.
630	835	205	Shale & Lime
835	1460	625	Lime Anhy.
1460	1679	219	Shale & Lime
1679	1726	47	Shale Anhy. Dolomite
1726	1828	102	Anhy. Shale Sand
1828	2118	290	Lime
2118	2696	578	Lime & Dolomite
2696	2790	94	Anhy. & Dolomite
2790	2947	157	Dolomite & Chert
2947	3026	79	Anhy. & Dolomite
3026	3434	408	Dolomite
3434	4154	720	Dolomite Anhy.
4154	4505	351	Dolomite & Chert
4505	4558	53	Dolomite
4558	4685	127	Sand & Dolomite
4685	5093	408	Dolomite
5093	5214	121	Dolomite & Chert
5214	5722	508	Dolomite & Shale
5722	5858	136	Dolomite & Chert
5858	6055	197	Dolomite
6055	6349	294	Dolomite & Lime

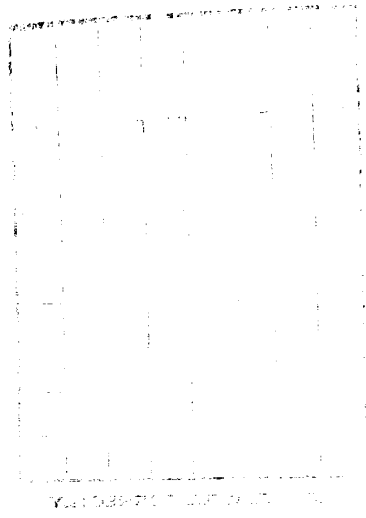
UNITED STATES DEPARTMENT OF THE INTERIOR GEOLOGICAL SURVEY

WELL LOG

WELL NO. 100 OF OIL OR GAS WELL

UNITED STATES DEPARTMENT OF THE INTERIOR GEOLOGICAL SURVEY

WELL NO. 100 OF OIL OR GAS WELL



It is of the greatest importance to have a complete history of the well. Please state in detail the dates of redrilling, together with the reasons for the work and its results. If there were any changes made in the casing, state fully, and if any casing was 'sidetracked' or left in the well, give its size and location. If the well has been dynamited, give date, position, and number of shots. If plugs or bridges were put in for water, state kind of material used, position, and results of pumping or bailing.

HISTORY OF OIL OR GAS WELL

10-55001-2 U. S. GOVERNMENT PRINTING OFFICE

Table with multiple columns and rows, containing faint text and possibly data related to the well history.

FROM	TO	TOTAL FEET	FORMATION
6349	6302	153	Dolomite & Shale
6502	6631	129	Dolomite
6631	6850	219	Dolomite & Shale
6850	6911	61	Dolomite & Shale
6911	6932	21	Dolomite & Lime
6932	7066	134	Dolomite & Shale
7066	7074	8	Dolomite & Lime
7074	7270	196	Dolomite & Shale

Core #1 1750-1758 Rec. 8' Light brown to tan fine crystalline lime and dolomite and very thin streak of gray shale and sandy inclusion.

Core #2 1758-1780 Rec. 20' 1758-1775 tan dolomite w/streaks gray shale 1775-1778 brown sand w/good stain fluorescent and porosity.

Core #3 2500-2512 Rec. 11' Brown fine to medium crystalline dolomite w/large anh. Indusions & ANGEL to pin point porosity & poor to good scattered oil stain & odor.

Core #4 6723-6937 Rec. 10-1/2' 7' dark dense fine crystalline shaly dolomite and 3-1/2' sh micro x 1 & dolomite. No show.

DST #1 2455-2512 tool open 2 hrs. Fall blow of air 1-1/2 hr. & died. Rec. 30' drl mud, no show oil, gas, or water. 3/4 hr. Final BHPSI 65#, Int. RHP 55# Final RHP 65#

DST #2 6267-6304 tool open 2-1/2 hrs. Fall blow throughout test. Rec. 1350' of salty sulphur water, slightly gas cut. 30 min. Initial BHSP 2390, final 30 min. Initial flowing 60 PSIG. Final flowing 600 PSIG.

DST #3 6685-6739 tool open 2-1/2 hrs. Rec. 180' drl mud, 370' sulphur water, no show oil or gas. 20 min. Initial SIP 2665# Final 2120#. Initial flow 75# Final 315#

DST #4 6915-6957 tool open 2 hrs. 5 min. Rec. 60' drl mud and 180' sulphur water, no show oil or gas, 20 min. Initial BHSP 2750 Final BHSP failed. Initial RHP 60% Final RHP 60%

Details
 Rec. to producing
 Initial flow
 Final flow

FORMATION RECORD CONTINUED

NEW MEXICO OIL CONSERVATION COMMISSION
MISCELLANEOUS REPORTS ON WELLS

(Submit to appropriate District Office, as per Commission Rule 1106)

1957 JAN 31 PM 2:36

COMPANY Pan American Petroleum Corporation, Box 68, Hobbs, New Mexico
(Address)

LEASE Ruth C. McPherson WELL NO. 1 UNIT J S 11 T 18 R 27
DATE WORK PERFORMED _____ POOL Undesignated

This is a Report of: (Check appropriate block) Results of Test of Casing Shut-off
 Beginning Drilling Operations Remedial Work
 Plugging Other Change in Company name

Detailed account of work done, nature and quantity of materials used and results obtained.

Change in operating name from "Stanolind Oil and Gas Company" to "Pan American Petroleum Corporation" effective February 1, 1957.

FILL IN BELOW FOR REMEDIAL WORK REPORTS ONLY

Original Well Data:

DF Elev. _____ TD _____ PBD _____ Prod. Int. _____ Compl Date _____
Tbng. Dia _____ Tbng Depth _____ Oil String Dia _____ Oil String Depth _____
Perf Interval (s) _____
Open Hole Interval _____ Producing Formation (s) _____

RESULTS OF WORKOVER:

	BEFORE	AFTER
Date of Test	_____	_____
Oil Production, bbls. per day	_____	_____
Gas Production, Mcf per day	_____	_____
Water Production, bbls. per day	_____	_____
Gas-Oil Ratio, cu. ft. per bbl.	_____	_____
Gas Well Potential, Mcf per day	_____	_____
Witnessed by _____		

(Company)

OIL CONSERVATION COMMISSION

Name W.L. Armstrong
Title _____
Date FEB 4 1957

I hereby certify that the information given above is true and complete to the best of my knowledge.

Name Robert Newenakson
Position Field Superintendent
Company Pan American Petroleum Corporation

OIL CONSERVATION COMMISSION	
ADVISORY DISTRICT OFFICE	
Oil Conservation District	6
INSPECTION	
Inspector	3
Supervisor	1
Production Office	1
State District Office	
County Office	
City Office	
Other	1 ✓

copy to
F. N. M. O. C. C. COPY

APPROVED
DEC 7 1959
D. A. KRAOP

**UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY**

Lead Office: **ARTESIA**
Date: **RECEIVED**

MAR 7 1962

**D. C. C.
ARTESIA, OFFICE**

SUNDRY NOTICES AND REPORTS ON WELLS

NOTICE OF INTENTION TO DRILL		SUBSEQUENT REPORT OF WATER SHUT-OFF	
NOTICE OF INTENTION TO CHANGE PLANS		SUBSEQUENT REPORT OF SHOOTING OR ACIDIZING	
NOTICE OF INTENTION TO TEST WATER SHUT-OFF		SUBSEQUENT REPORT OF ALTERING CASING	
NOTICE OF INTENTION TO RE-DRILL OR REPAIR WELL		SUBSEQUENT REPORT OF RE-DRILLING OR REPAIR	
NOTICE OF INTENTION TO SHUT OR ACIDIZE		SUBSEQUENT REPORT OF ABANDONMENT	<input checked="" type="checkbox"/>
NOTICE OF INTENTION TO PULL OR ALTER CASING		SUPPLEMENTARY WELL HISTORY	
NOTICE OF INTENTION TO ABANDON WELL			

(INDICATE ABOVE BY CHECK MARK NATURE OF REPORT, NOTICE, OR OTHER DATA)

Ruth C. McPherson

December 2, 1959

Well No. 1 is located 1980 ft. from S line and 1980 ft. from E line of sec. 11
NW/4-SE/4, Sec. 11 T-18-S R-27-E MEM
(4 Sec. and Sec. No.) (Twp.) (Range) (Meridian)
Wildest Eddy New Mexico
(Field) (County or Subdivision) (State or Territory)

The elevation of the derrick floor above sea level is 3593 ft. RDB

DETAILS OF WORK

Show names of and expected depths to objective sands; show sizes, weights, and lengths of proposed casings; indicate mudding jobs, cementing points, and all other important proposed work.

On 11-11-59 P X A operations were completed. Work done and plugs set as follows:

1. Cut and pulled 9 5/8" casing @ 960'.
2. Set 25 sx cement plug @ 960'; 15 sx cement in bottom of 13 3/8" casing @ 572'; 10 sx cement plug at surface. All intervals filled with heavy sand laden fluid.
3. Set P X A marker; restored ground to natural contour.

Handwritten signature/initials

RECEIVED

DEC 7 1959

**U. S. GEOLOGICAL SURVEY
ARTESIA, NEW MEXICO**

I understand that this plan of work must receive approval in writing by the Geological Survey before operations may be commenced.

Company Pan American Petroleum Corporation

Address Box 68

Hobbs, New Mexico

By [Signature]
This Area Superintendent

RECEIVED
JAN 29 1962
U. S. GEOLOGICAL SURVEY
ARTESIA, NEW MEXICO

**UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY**

N. M. O. C. C. COPY
SUBMIT IN TRIPlicate*
(Other instruc on reverse slt)

Copy to SF

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. TYPE OF WORK
 DRILL DEEPEN PLUG BACK

b. TYPE OF WELL
 OIL WELL GAS WELL OTHER Re-Entry SINGLE ZONE MULTIPLE ZONE

2. NAME OF OPERATOR
 Bill J. Smith

3. ADDRESS OF OPERATOR
 1504 Stagecoach Dr., Arlington, Texas, 76013

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.)*
 At surface
 1980' FS&EL Section 11, T-18-S, R-27-E
 At proposed prod. zone

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE*
 14 miles east of Artesia

15. DISTANCE FROM PROPOSED* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drlg. unit line, if any)
 660'

16. NO. OF ACRES IN LEASE
 40

17. NO. OF ACRES ASSIGNED TO THIS WELL
 40

18. DISTANCE FROM PROPOSED LOCATION* TO NEAREST WELL, DRILLING COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT.
 none

19. PROPOSED DEPTH
 1800

20. ROTARY OR CABLE TOOLS
 Rotary

21. ELEVATIONS (Show whether DF, RT, GR, etc.)

22. APPROX. DATE WORK WILL START*
 September 15, 1970

23. PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
17"	13 3/8"	N/A*	572'	700 sacks
11"	9 5/8"	N/A*	1990'	450 sacks

Propose to clean out plugs to about 1900', tie onto 9 5/8" casing stub with casing bowl and 32.3 # 9 5/8" casing, perforate indicated pay in Grayburg formation, stimulate as necessary and test.

* *Turn American note copy*

Casing set when well originally drilled in 1956. 13 3/8" casing was not pulled. 9 5/8" casing cut at 960' and pulled.

RECEIVED
 SEP 2 1970
 ARTESIA, NEW MEXICO

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen or plug back, give data on present productive zone and proposed new productive zone. If proposal is to drill or deepen directionally, give pertinent data on subsurface locations and measured and true vertical depths. Give blowout preventer program, if any.

24. SIGNED Bill J. Smith TITLE _____ DATE 9-1-70

(This space for Federal or State office use)

PERMIT NO. _____ APPROVAL DATE _____

APPROVED BY _____
 CONDITIONS OF APPROVAL, IF ANY:

APPROVED
 SEP 8 1970
 R. L. BEEKMA
 ACTING DISTRICT ENGINEER

THIS APPROVAL IS RESCINDED IF OPERATIONS ARE NOT COMMENCED WITHIN 3 MONTHS. EXPIRES DEC 8 1970
 See Instructions On Reverse Side

RECEIVED

DATE
 SEP 9 1970

O. C. C.
 ARTESIA, OFFICE

MEXICO OIL CONSERVATION COMMISSION
WELL LOCATION AND ACREAGE DEDICATION PLAT

Form C-102
Supersedes C-128
Effective 1-1-65

All distances must be from the outer boundaries of the Section.

Operator Bill J. Smith		Lease Ruth C. McPherson		Well No. 1
Unit Letter J	Section 11	Township 18-S	Range 27-E	County Eddy
Actual Footage Location of Well: 1980 feet from the South line and 1980 feet from the East line				
Ground Level Elev. 3580	Producing Formation Grayburg	Pool Artesia	Dedicated Acreage: 40 Acres	

- Outline the acreage dedicated to the subject well by colored pencil or hachure marks on the plat below.
- If more than one lease is dedicated to the well, outline each and identify the ownership thereof (both as to working interest and royalty).
- If more than one lease of different ownership is dedicated to the well, have the interests of all owners been consolidated by communitization, unitization, force-pooling, etc?

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SEP 9 1970

Yes No If answer is "yes," type of consolidation _____

O. C. C.

If answer is "no," list the owners and tract descriptions which have actually been consolidated (Use reverse side of this form if necessary.) _____

No allowable will be assigned to the well until all interests have been consolidated (by communitization, unitization, forced-pooling, or otherwise) or until a non-standard unit, eliminating such interests, has been approved by the Commission.

CERTIFICATION

I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief.

Name
Bill J. Smith

Position

Company

Date

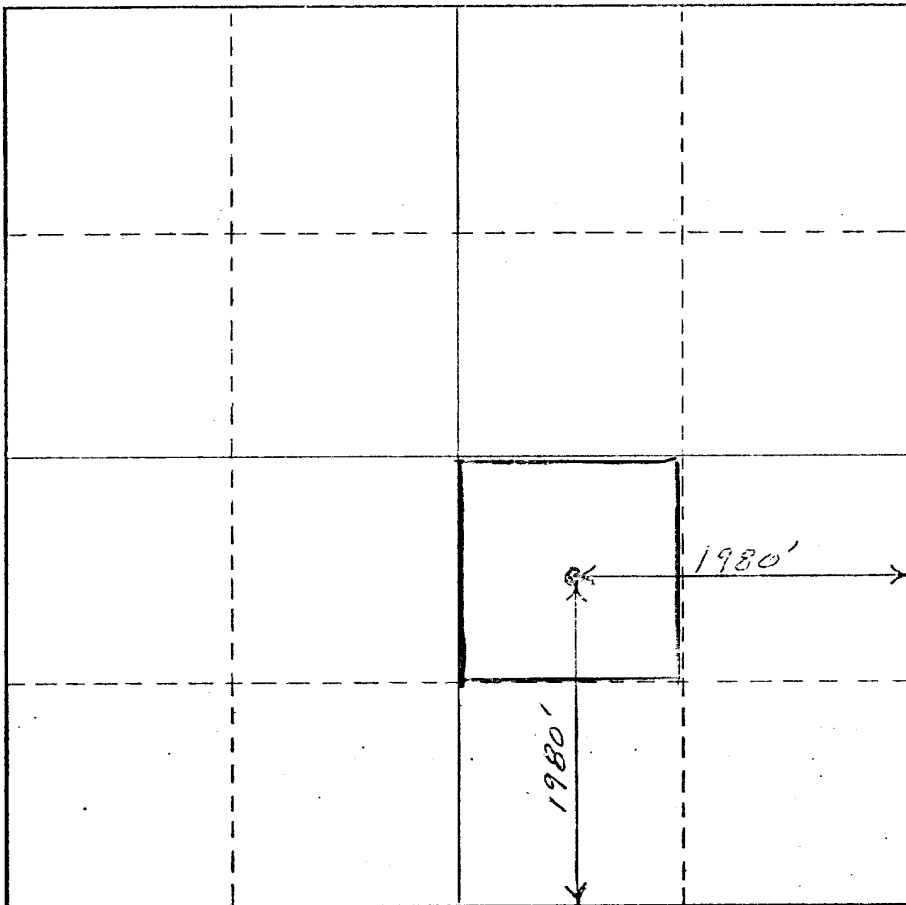
I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my knowledge and belief.

Date Surveyed

Refer to Original Plat

Registered Professional Engineer and/or Land Surveyor

Certificate No.



0 330 660 990 1320 1650 1980 2310 2640 2000 1500 1000 500 0

OMMO

STATE NM MH 06870

MAP

COORD

COUNTY EDDY FIELD Artesia

OPR SMITH, BILL J.

OPR I McPherson, Ruth C.

Sec 11, T-18-S, R-27-E
1980' FSL, 1980' FEL of Sec

Re-Camp 4-19-71

CLASS OWDL EL. 35928

LOGS EL. GR. RA. IND. HC. A

CGG & SK TUBING
13 3/8" at 572' w/700 SK
9 5/8" at 1990' w/450 SK (PULLED)
4 1/2" at 4500'

LOGS	EL.	GR.	RA.	IND.	HC.	A.	FORMATION	DATUM	FORMATION	DATUM

TEMPORARILY ABANDONED

TD 7270'; PBD 4500'

CONT. DATE

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PROP. DEPTH 1800' TYPE MU

EDDY Artesia NM Sec 11, T18S, R27E
SMITH, BILL J. I McPherson, Ruth C. Page #2

2-22-71 TD 7270'; PBD 4500'; SI
4-12-71 TD 7270'; PBD 4500'; SI
4-19-71 TD 7270'; PBD 4500'; TEMPORARILY ABANDONED
4-22-71 COMPLETION REPORTED

9-22-70 F.R. 9-15-70; Opr's Elev. 3580' GL
PD 1800' WO (Grayburg)
(Orig. Stanolind Oil & Gas #1 McPherson-Federal,
PGA 11-7-56, OTD 7270')
TD 7270'; PBD 4500'; Prep PB to Grayburg
Cleared Out to 4500'

Ran 4 1/2" casing
Perf (Yeso) 4070-4100'
Acid (4070-4100') 3000 gals
Swbd blk sul wtr (4070-4100')
9-28-70 TD 7270'; PBD 4500'; SI
10-26-70 TD 7270'; PBD 4500'; SI
1-8-71 TD 7270'; PBD 4500'; SI

OWMO

STATE NM NH 06870

COUNTY EDDY FIELD Artesia

OPR SMITH, BILL J.

I McPherson, Ruth C.

Sec 11, T-18-S, R-27-E

1980' FSL, 1980' FEL of Sec

MAP

CO-ORD

Re-Cmp 4-19-71

CLASS *OWDF* EL 35928

C&G 5/8" tubing

13 3/8" at 572' w/700 gx

9 5/8" at 1990' w/450 gx

4 1/2" at 4500'

(Pilled)

LOGS EL GR RA IND HC A

FORMATION

DATE

FORMATION

DATE

TD 7270'; PBD 4500'

CONT.

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Reproduction rights reserved by Williams & Lee Sealing Service, Inc.
PROP DEPTH 1800'

TYPE MO

TEMPORARILY ABANDONED

9-22-70

F.R. 9-15-70; Opr's Elev. 3580' GL
PD 1800' MO (Grayburg)
(Orig. Stanolind Oil & Gas #1 McPherson-Federal,
PGA 11-7-56, OTD 7270')
TD 7270'; PBD 4500'; Prep PB to Grayburg
Cleared Out to 4500'
Ran 4 1/2" casing

9-28-70
10-26-70
1-8-71

Perf (Yeso) 4070-4100'
Acid (4070-4100') 3000 gal
Swbd blk sul wtr (4070-4100')
TD 7270'; PBD 4500'; SI
TD 7270'; PBD 4500'; SI
TD 7270'; PBD 4500'; SI

EDDY Artesia NM Sec 11, T18S, R27E
SMITH, BILL J. I McPherson, Ruth C. Page #2

2-22-71 TD 7270'; PBD 4500'; SI
4-12-71 TD 7270'; PBD 4500'; SI
4-19-71 TD 7270'; PBD 4500'; TEMPORARILY ABANDONED
4-22-71 COMPLETION REPORTED

N. M. O. C. C. COPY
UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUBMIT IN TRIPL
(Other Instructions
verse side)

Form approved.
Budget Bureau No. 42-R1424.

5. LEASE DESIGNATION AND SERIAL NO.
LC-068051

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir.
Use "APPLICATION FOR PERMIT..." for such proposals.)

7. UNIT AGREEMENT NAME

1. WELL NO. GAS WELL OTHER **DRY-HOLE RE-ENTRY**

8. FARM OR LEASE NAME

2. NAME OF OPERATOR
Amoco Production Company

SMITH MCPHERSON

3. ADDRESS OF OPERATOR
BOX 68, HOBBS, N. M. 88240

9. WELL NO.

1

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.
See also space 17 below.)
At surface

10. FIELD AND POOL, OR WILDCAT

WILDCAT-

1980' FSL x 1980' EEL Sec. 11 (Unit 1, NW 1/4 SE 1/4)

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA

11-18-27 NMPM

14. PERMIT NO.

15. ELEVATIONS (Show whether DF, RT, GR, etc.)

3593' D.F.

12. COUNTY OR PARISH 13. STATE

EDDY

N.M.

16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:

SUBSEQUENT REPORT OF:

TEST WATER SHUT-OFF

PULL OR ALTER CASING

WATER SHUT-OFF

REPAIRING WELL

FRACTURE TREAT

MULTIPLE COMPLETE

FRACTURE TREATMENT

ALTERING CASING

SHOOT OR ACIDIZE

ABANDON*

SHOOTING OR ACIDIZING

ABANDONMENT*

REPAIR WELL

CHANGE PLANS

(Other)

(Other)

(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)

Physical abandonment of well concluded 6-6-73.
Plugged and abandoned as follows:
Filled hole w/ mud. (PBD-4365)
Spotted 30 cu cement plug 4119'-3735' (BUN. PER. 4100'-4070')
Shot & pulled 4 1/2" csg. from 2990'.
Spotted 30 5x cement plug 3040'-2900' (in + out of 4 1/2" stub)
" 40 5x " " 2040'-1922'
No 9 5/8" casing found in hole.
Spotted 50 5x cement plug 1010'-910'.
" 60 " " " 602'-502' (13 3/8" CSA 572)
" 10 " " " @ surface & erected P & A marker.
Location shall be cleaned & levelled.

I hereby certify that the foregoing is true and correct

SIGNED *[Signature]*

TITLE AREA ENGINEER

DATE 6-15-73

(This space for Federal or State office use)

APPROVED BY
CONDITIONS OF APPROVAL IF ANY:

TITLE

DATE

04 4- USGS-APPROVED
1- DIV
1- SUSA
1- IRRY
2- ARCO
JUL 13 1973
K. L. BEEKMAN
ACTING DISTRICT ENGINEER

*See Instructions on Reverse Side

SUBSURFACE

NAVAJO REFINING COMPANY

Map ID No. 40

Artificial Penetration Review

OPERATOR Pre-Ongard Well Op.

STATUS Plugged

LEASE Pre-Ongard

LOCATION Sec. 11 -T18S-R27E

WELL NUMBER 1

MUD FILLED BOREHOLE NA

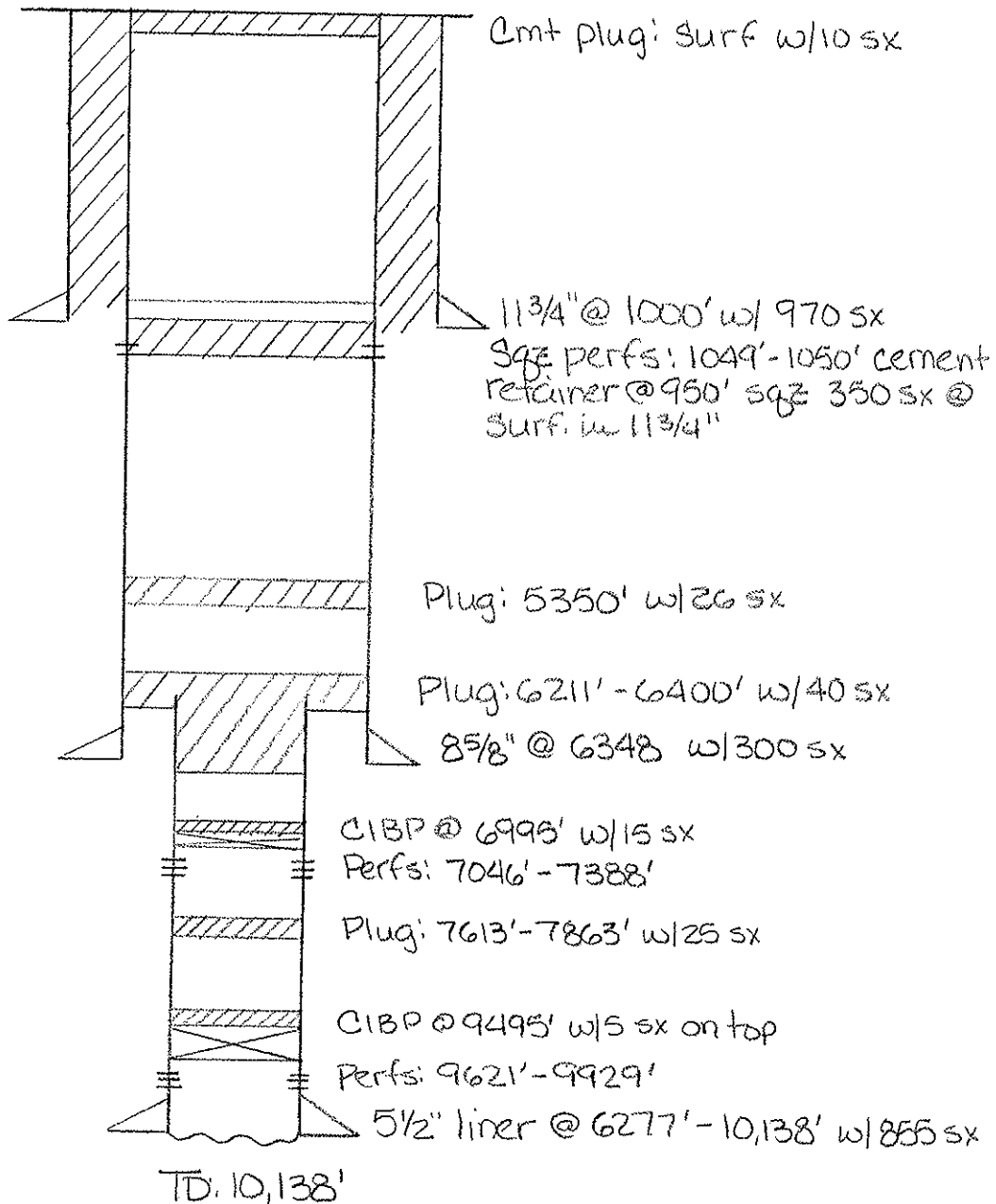
DRILLED NA

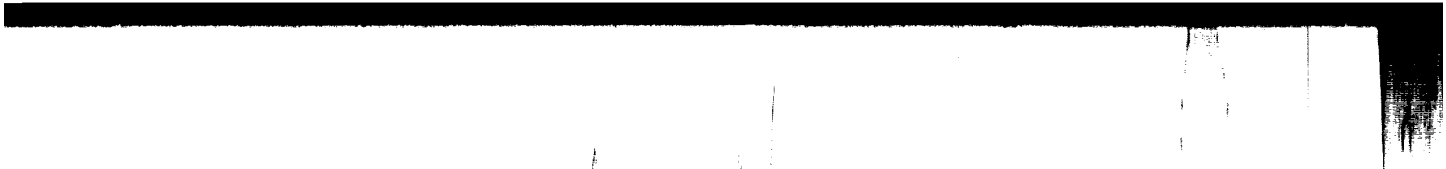
TOP OF INJECTION ZONE 7070'

PLUGGED NA

API NO. 30-015-20510

REMARKS: Calculated Top of Cement behind 5/2" liner @ 6277'





[The text in this section is extremely faint and illegible due to the quality of the scan. It appears to be a list or a series of entries.]

100

Electric ...

IT IS THEREFORE ORDERED: *Case 4663 2-16-72*
Order R-4264 2-28-72

(1) That an unorthodox gas well location is hereby approved for the Amoco Production Company's Malco "S" Federal Well No. 1 in an undesignated Morrow-Pennsylvanian pool at a point 1650 feet from the North line and 1653 feet from the West line of Section 11, Township 18 South, Range 27 East, NMPM, Eddy County, New Mexico, as an exception to Rule 104 of the Commission Rules and Regulations.

PLC # 43
4-6-72

NEW MEXICO OIL CONSERVATION COMMISSION
WELL LOCATION AND ACREAGE DEDICATION PLAT

Form C-102
Supersedes C-128
Effective 1-1-65

All distances must be from the outer boundaries of the Section.

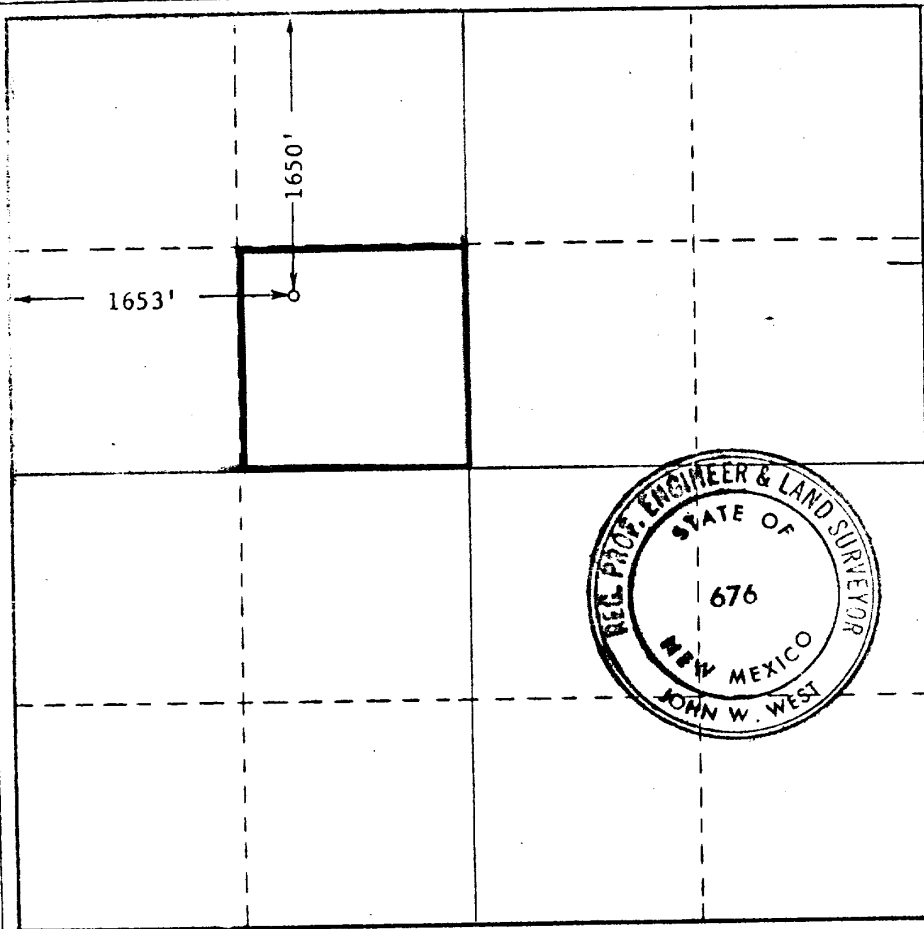
Operator AMOCO PRODUCTION COMPANY		Lease MALCO "A" FEDERAL		Well No. 3
Unit Letter F	Section 11	Township 18 SOUTH	Range 27 EAST	County EDDY
Actual Footage Location of Well: 1650 feet from the NORTH line and 1653 feet from the WEST line				
Ground Level Elev. -	Producing Formation Miss.	Pool Wildcat	Dedicated Acreage: 40	Acres

1. Outline the acreage dedicated to the subject well by colored pencil or hachure marks on the plat below.
2. If more than one lease is dedicated to the well, outline each and identify the ownership thereof (both as to working interest and royalty).
3. If more than one lease of different ownership is dedicated to the well, have the interests of all owners been consolidated by communitization, unitization, force-pooling, etc?

Yes No If answer is "yes," type of consolidation _____

If answer is "no," list the owners and tract descriptions which have actually been consolidated. (Use reverse side of this form if necessary.) _____

No allowable will be assigned to the well until all interests have been consolidated (by communitization, unitization, forced-pooling, or otherwise) or until a non-standard unit, eliminating such interests, has been approved by the Commission.



CERTIFICATION

I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief.

Name _____

Position
AREA SUPERINTENDENT

Company
Amoco Production Company

Date

SEP 27 1971

RECEIVED
I certify that the well location shown on this plat is plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my knowledge and belief.

Date Surveyed

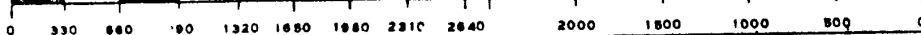
SEPTEMBER 16, 1971

Registered Professional Engineer and/or Land Surveyor

John W. West

Certification No.

676



NEW MEXICO OIL CONSERVATION COMMISSION
WELL LOCATION AND ACREAGE DEDICATION PLAT

DEC 29 1972 Form O-100
Supersedes O-128
Effective 1-1-73

All distances must be from the outer boundaries of the Section

APC 80-015-20510

Operator AMOCO PRODUCTION COMPANY		Lease MALCO "S" FEDERAL		ARTESIA, OFFICE # 1	
Unit Letter F	Section 11	Township 18 SOUTH	Range 27 EAST	County EDDY	

Actual Footage Location of Well:
 1650 feet from the NORTH line and 1653 feet from the WEST line

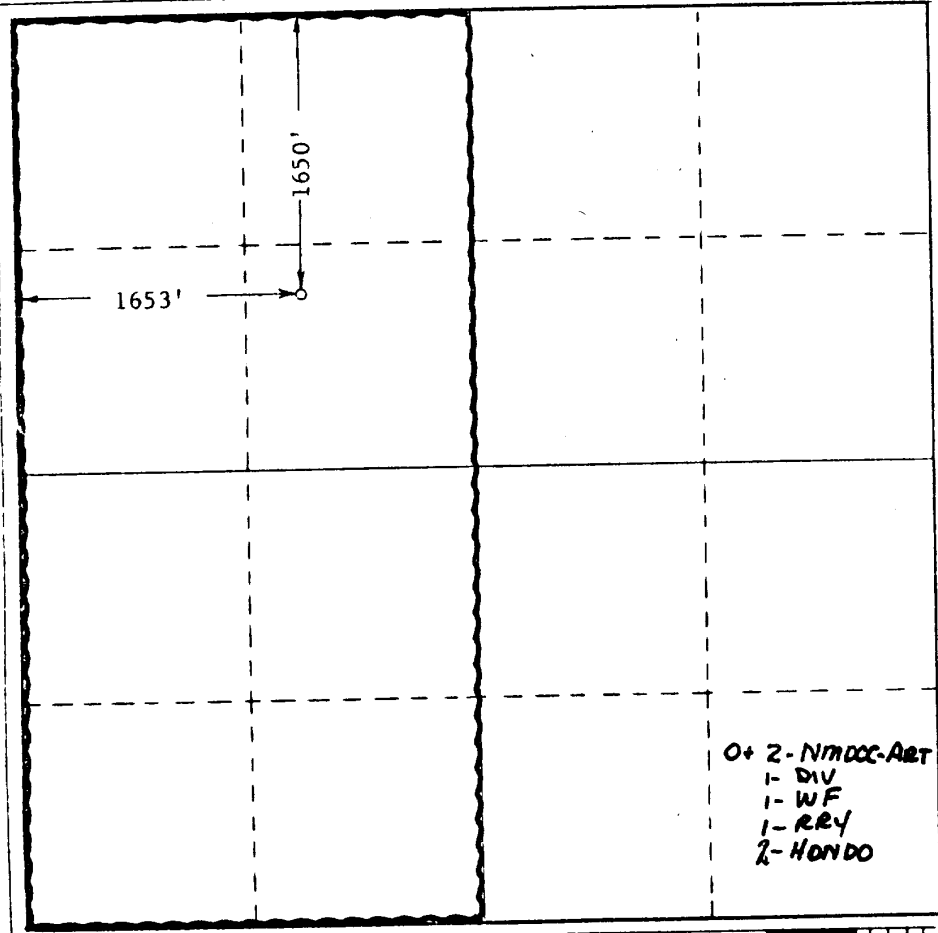
Ground Level Elev. 3587 RDB	Producing Formation MORROW-(PENN) SCOGGIN DRAW-MORROW	Pool 320
---------------------------------------	---	--------------------

- Outline the acreage dedicated to the subject well by colored pencil or hachure marks on the plat below.
- If more than one lease is dedicated to the well, outline each and identify the ownership thereof (both as to working interest and royalty).
- If more than one lease of different ownership is dedicated to the well, have the interests of all owners been consolidated by communitization, unitization, force-pooling, etc?

Yes No If answer is "yes," type of consolidation _____

If answer is "no," list the owners and tract descriptions which have actually been consolidated. (Use reverse side of this form if necessary.) _____

No allowable will be assigned to the well until all interests have been consolidated (by communitization, unitization, forced-pooling, or otherwise) or until a non-standard unit, eliminating such interests, has been approved by the Commission.



O+ 2- N/MOCC-ART
 1- DIV
 1- WF
 1- RRY
 2- HONDO

CERTIFICATION

I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief.

Name: *James J. West*
 Position: **AREA SUPERINTENDENT Engineer**
 Company: **Amoco Production Company**

Date: **12-28-72**

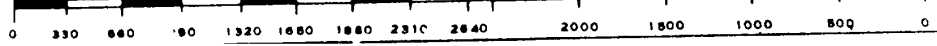
I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my knowledge and belief.

Date Surveyed: **SEPTEMBER 16, 1971**

Registered Professional Engineer and/or Land Surveyor

John W. West

Certificate No. **676**



UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

30-015-20510

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. TYPE OF WORK
 DRILL DEEPEN PLUG BACK
 b. TYPE OF WELL
 OIL WELL GAS WELL OTHER
 SINGLE ZONE MULTIPLE ZONE

2. NAME OF OPERATOR
 Arco Production Company OCT 8 1971

3. ADDRESS OF OPERATOR
 BOX 68, HOBBS, N. M. 88240 O. C. C.

4. LOCATION OF WELL (Report location clearly and in accordance with State requirements.)*
 At surface
 1650' FNL x 1653' FWL Sec. 11 (F, SE/4 NW/4)
 At proposed prod. zone

5. LEASE DESIGNATION AND SERIAL NO.
 LC-067858

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME
 MALCO A FEDERAL

9. WELL NO.
 3

10. FIELD AND POOL, OR WILDCAT
 WILDCAT

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA
 11-18-27 NMPM

12. COUNTY OR PARISH
 EDDY

13. STATE
 NM

15. DISTANCE FROM PROPOSED* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drlg. unit line, if any)

16. NO. OF ACRES IN LEASE

17. NO. OF ACRES ASSIGNED TO THIS WELL
 40

18. DISTANCE FROM PROPOSED LOCATION* TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT.

19. PROPOSED DEPTH
 10,500'

20. ROTARY OR CABLE TOOLS
 ROTARY

21. ELEVATIONS (Show whether DF, RT, GR, etc.)

22. APPROX. DATE WORK WILL START*

23. PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
13 3/4"	11 3/4"	42-47#	1000'	Circ
11"	8 5/8"	24-36#	6200'	Fill 600' above Qto
7 7/8"	5 1/2" LIVER	14-17#	6200-TD	Squeeze behind liner.

After drilling well logs will be run and evaluations made, perforating and/or stimulating as necessary in attempting commercial production.

RECEIVED
 OCT - 7 1971
 U. S. GEOLOGICAL SURVEY
 ARTESIA, NEW MEXICO

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen or plug back, give data on present productive zone and proposed new productive zone. If proposal is to drill or deepen directionally, give pertinent data on subsurface locations and measured and true vertical depths. Give blowout preventer program, if any.

24. SIGNED _____ TITLE AREA SUPERINTENDENT DATE 10-6-71

(This space for Federal or State office use)

PERMIT NO. _____ APPROVAL DATE _____

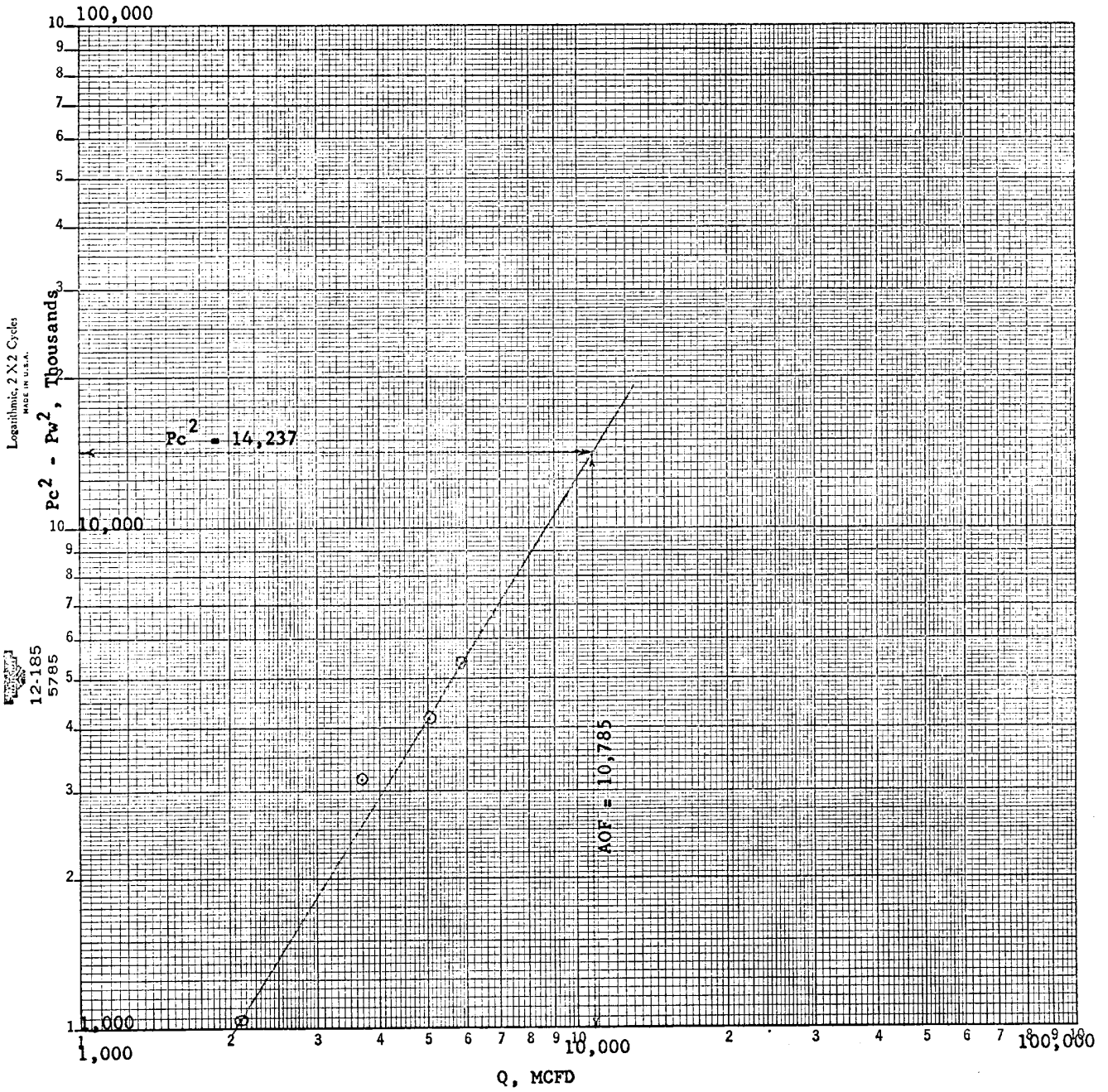
APPROVED BY _____ TITLE _____
 CONDITIONS OF APPROVAL: THIS APPROVAL IS RESCINDED IF OPERATIONS ARE NOT COMMENCED WITHIN 3 MONTHS. EXPIRES JAN - 7 1972

APPROVED
 OCT - 2 1971
 R. L. BECKMAN
 ACTING DISTRICT ENGINEER

04 4. USGS-ART
 1-AC Jr
 1-SUSP
 1-RRY
 1-Arco-Rawley
 Doug Klavin

*See Instructions On Reverse Side

Amoco Production Company
 Malco "S" Federal No. 3
 F-11-18S-27E
 12/22/71



NEW MEXICO OIL CONSERVATION COMMISSION
MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Form C-122
Revised 9-1-68

RECEIVED

*filed
1-22-72*

JAN 3 1972

Type Test <input checked="" type="checkbox"/> Initial <input checked="" type="checkbox"/> Annual <input type="checkbox"/> Special		Test Date 12/22/71	
Company Amoco Production Company		Connection None	
Pool Wildcat		Formation Morrow Penn	
Completion Date 12/18/71		Total Depth 10,168	
Plug Back TD 10,000		Elevation 3587 KDB	
Farm or Lease Name Malco #5 Federal		Unit API No. 30-015-20510	
Well No.	X # 31		
Well Size 5-1/2" Liner	Wt. 17#	d 4.892	Set At 6277' - 10,138
Perforations: From 9621 To 9929			
Tbg. Size 2-3/8"	Wt. 4.7	d 1.995	Set At 9504
Perforations: From Open End To			
Type Well - Single - Brnthead - G.O. or G.O. Multiple Single		Packer Set At 9491'	
Producing Thru 2-3/8" Tbg		Reservoir Temp. °F 145° 9775	
Mean Annual Temp. °F 60		Baro. Press. - P _g 13.2	
State New Mexico			
L 9504	H 9504	G _g 0.630	% CO ₂ 0.38
		% N ₂ 0.31	% H ₂ S 0
Prover -		Meter Run 6"	
Tape Flange			
FLOW DATA			
NO.	Prover Line Size	X	Orifice Size
SI			
1.	6.065 x 2.500		565
2.	6.065 x 2.500		560
3.	6.065 x 2.500		590
4.	6.065 x 2.500		600
5.			
TUBING DATA			
NO.	Press. p.s.i.g.	Temp. °F	Duration of Flow
SI	2862		40 hrs
1.	2689	60	1 hr
2.	2453	60	1 hr
3.	2220	60	1 hr
4.	2035	60	1 hr
5.			
CASING DATA			
NO.	Press. p.s.i.g.	Temp. °F	Duration of Flow
SI	Pkr	-	40 hrs
1.	Pkr	-	1 hr
2.	Pkr	-	1 hr
3.	Pkr	-	1 hr
4.	Pkr	-	1 hr
5.			
RATE OF FLOW CALCULATIONS			
NO.	Coefficient (24 Hour)	$\sqrt{h_w P_m}$	Pressure P _m
1	30.31	55.34	578.2
2	30.31	95.76	573.2
3	30.31	128.79	603.2
4	30.31	148.56	613.2
5.			
NO.	R _f	Temp. °R	T _f
1	0.86	570	1.57
2.	0.85	557	1.53
3.	0.90	547	1.50
4.	0.91	541	1.49
5.			
Gas Liquid Hydrocarbon Ratio		74,136 Mat/bbl.	
A.P.I. Gravity of Liquid Hydrocarbons		54.0	
Specific Gravity Separator Gas		0.630	
Specific Gravity Flowing Fluid		XXXXX	
Critical Pressure		673 P.S.I.A.	
Critical Temperature		364 °R	
* P _c 3773.2		P _c ² 14,237	
NO.	P ₁ ²	P _w	R _w ²
1		3632.8	13,197
2		3330.2	11,090
3		3173.2	10,069
4		2981.1	8,887
5			
(1) $\frac{P_c^2}{R_w^2 - R_w'^2} = 2.661$		(2) $\left[\frac{R_c^2}{R_c^2 - R_w'^2} \right]^n = 1.848$	
AOF = Q $\left[\frac{R_c^2}{R_c^2 - R_w'^2} \right]^n = 10.785$			
Absolute Open Flow		10,785 Mcld @ 15.025	
Angle of Slope		Slope, n 0.626	
Remarks: * P _c measured with bottom hole pressure recorder			
Approved By Commission:		Conducted By: Al Klagr	
Calculated By: Ed Snook		Checked By: Ed Snook	

Copy to S F

REQUEST FOR THE EXTENSION OF AN EXISTING POOL

OR

THE CREATION OF A NEW POOL

TO: The Oil Conservation Commission
State of New Mexico

Date 2-10- 1972

The Amoco Production Company BOX 68, HOBBS, N. M. 88240 MALCO S Federal
Name of Operator Name of Lease

1 Well No. Located 1650 feet from the NORTH line and 1653 feet

from the WEST line of 11 Section 18-S Township 27-E Range

is outside the boundaries of any pool producing from the same formation. On the basis of the information submitted here-
with on form C-105, we hereby request that the
pool be extended to include the following described area

or that a new pool be created to include the following described area W/2 SEC. 11, T-18-S, R-27-E

Suggested name: SCOGGIN DRAW-PENN

Amoco Production Company
Operator

Name of Producing Formation:

(MORROW)-PENN

[Signature]
AREA SUPERINTENDENT

Representative

001 NMOC-ART R-4291
1-DIV Scoggin Draw Morrow
1-WF S-1-72
1-HONDO

RECEIVED

FEB 14 1972

O. C. C.
ARTESIA, OFFICE

Amoco Production Company
-2-

COMMINGLING ORDER PLC-43 (conf'd)

DONE at Santa Fe, New Mexico, on this 6th day of April,
1972.



A. L. PORTER, Jr.
Secretary-Director

ALP/DSN/dr

cc: Oil Conservation Commission - Artesia
Oil & Gas Engineering Committee - Hobbs
United States Geological Survey - Roswell



OIL CONSERVATION COMMISSION

STATE OF NEW MEXICO
P. O. BOX 2088 - SANTA FE
87501

RECEIVED

April 6, 1972

APR 7 1972

Amoco Production Company
P. O. Box 68
Hobbs, New Mexico 88240

O. C. C.
ARTESIA, OFFICE

Attention: Mr. V. E. Staley

GOVERNOR
BRUCE KANE
CHAIRMAN
LAND COMMISSIONER
ALEX J. ARMijo
MEMBER
STATE GEOLOGIST
A. L. PORTER, JR.
SECRETARY - DIRECTOR

COMMINGLING ORDER PLC-43

Gentlemen:

The above-named company is hereby authorized to commingle Empire Abo oil and undesignated Morrow gas pool distillate pool production from the following leases:

<u>Lease Name</u>	<u>Acreage Description</u>
Malco H Federal R/A A	NE/4 SE/4 Sec. 3-18-27
Malco D Federal R/A A	N/2 NE/4 Sec. 10-18-27
Malco D Federal R/A B	S/2 NE/4 Sec. 10-18-27
Malco E Federal R/A A	SE/4 SE/4 Sec. 3-18-27
Malco E Federal R/A B	SW/4 SE/4 Sec. 3-18-27
Malco A Federal	E/2 NW/4 Sec. 11-18-27
Malco B Federal	W/2 NW/4 Sec. 11-18-27
Malco C Federal	W/2 NE/4 Sec. 11-18-27
Malco J Federal	E/2 NE/4 Sec. 11-18-27

Production shall be allocated by separately metering the oil production from each of the above leases and separately metering the distillate production from the Malco "S" Federal Well No. 1 prior to commingling.

This installation shall be installed and operated in accordance with the applicable provisions of Rule 309-B of the Commission Rules and Regulations and the Commission "Manual for the Installation and Operation of Commingling Facilities." It is the responsibility of the producer to notify the transporter of this commingling authority.

Commission Order No. R-1399, which authorized commingling of all of the above production except the Morrow distillate, is hereby put in abeyance.

NEW MEXICO OIL CONSERVATION COMMISSION

Artesia, New Mexico

May 9, 1972

Amoco Production Company
P. O. Box 68
Hobbs, New Mexico 88240

Re: Wells placed in pools

Gentlemen:

As the result of Commission Order P-4291 the following described well (a) (~~has-have~~) been placed in the pool (a) shown below. This change in nomenclature has been made in our files. Please change your records to reflect the proper pool name. All subsequent reports must show this nomenclature until further notice.

Scoggin Draw Morrow
Malco "S" Federal #1-F, 11-18-27

Transporters are advised, by copy of this letter, to change their records to reflect the pool name as established by this order.

Very truly yours,

OIL CONSERVATION COMMISSION

Dist.
Orig. Operator
cc: Each transporter



Amoco Production Company

Post Office Box 68
Hobbs, New Mexico, 88240

March 19, 1973

File: VES-86-680 x WF

RECEIVED

Re: Back Pressure Test
Amoco's Malco "S" Federal No. 1
F-11-18-27
Eddy County, New Mexico

MAR 20 1973

ARTESIA OFFICE

New Mexico Oil Conservation Commission
P. O. Drawer DD
Artesia, New Mexico, 88210

Gentlemen:

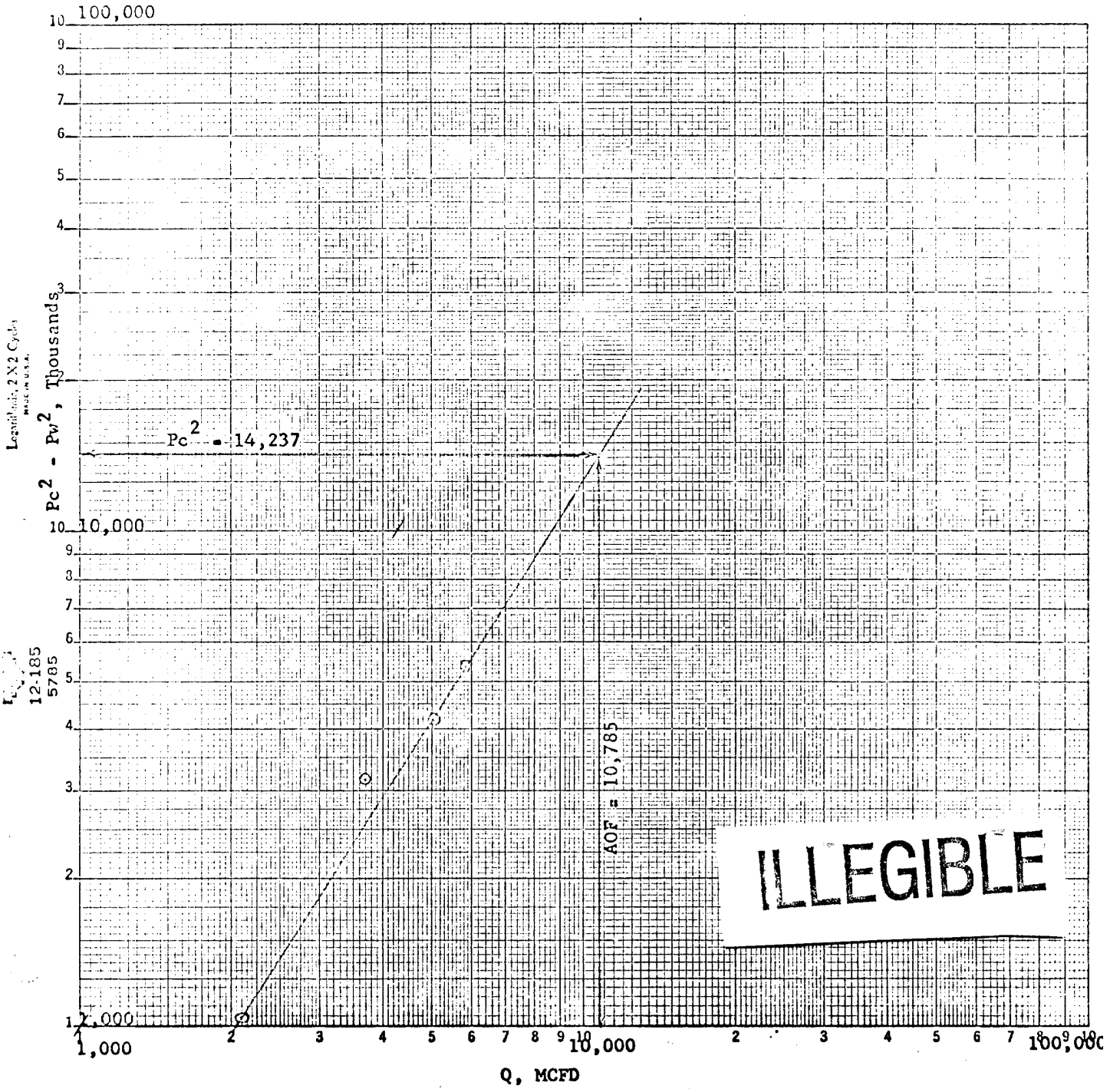
Attached herewith is a One Point Back Pressure Test on Amoco's Malco "S" Federal No. 1, F-11-18-27, Eddy County, New Mexico. Due to a drastic decline in reservoir pressure and low producing rates, it was not feasible to take a Four Point test on this well and the One Point test submitted is based on the maximum flow rate at existing sales line pressures and the slope of the original Four Point test submitted December 28, 1971. As can be seen from the reservoir pressure and cumulative production of 104 MMCF to the last test period, the well is on a rapid decline. We trust these data will fill your requirements for a back pressure test.

Yours very truly,


V. E. STALEY
Area Superintendent

Attachments

moco Production Company
alco "S" Federal No. 1
F-11-18S-27E
12/22/71



NEW MEXICO OIL CONSERVATION COMMISSION
MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Form C-122
Revised 9-1-69

RECEIVED

Type Test <input checked="" type="checkbox"/> Initial <input type="checkbox"/> Annual <input type="checkbox"/> Special				Test Date 12/22/71		MAR 20 1973				
Company A. C. O. Production Company			Connection None			O. C. O. ARTESIA OFFICE				
Pool Willbeat			Formation Morrow Penn			Unit API No. 30-15-2-510				
Completion Date 12/11/71		Total Depth 10,168		Plug Back TD 10,000		Elevation 3587 KDB				
Casing Size 5-1/2"		Wt. 17#		Set At 4,892		Perforations: From 9621 To 9929				
Tub. Size 2-3/8"		Wt. 4.7		Set At 1,995		Perforations: From Open End To				
Type Well - Single - Brdenhead - G.O. or G.O. Multiple Single				Packer Set At 9491'		County Eddy				
Producing Thru 2-3/8" Top		Reservoir Temp. °F 145 @ 9775		Mean Annual Temp. °F 60		Baro. Press. - P _a 13.2				
L 9504		H 9504		G _g 0.630		% CO ₂ 0.39				
				% N ₂ 0.31		% H ₂ S 0				
				Prover -		Meter Run 6"				
						Tape Blanco				
FLOW DATA				TUBING DATA		CASING DATA		Duration of Flow		
NO.	Prover Line Size	X Orifice Size	Press. p.s.i.g.	Diff. hw	Temp. °F	Press. p.s.i.g.	Temp. °F	Press. p.s.i.g.	Temp. °F	Duration of Flow
SI						2862		Pkr	-	40 hrs
1.	6.005 x 2.500		565	5.3	110	2639	60	Pkr	-	1 hr
2.	6.005 x 2.500		560	16.0	97	2453	60	Pkr	-	1 hr
3.	6.005 x 2.500		500	27.5	87	2220	60	Pkr	-	1 hr
4.	6.005 x 2.500		660	36.0	81	2035	60	Pkr	-	1 hr
5.										
RATE OF FLOW CALCULATIONS										
NO.	Coefficient (24 Hour)	$\sqrt{h_w P_m}$	Pressure P _m	Flow Temp. Factor Ft.	Gravity Factor F _g	Super Compress. Factor, F _{pv}	Rate of Flow Q, Mcfd			
1	30.31	55.34	573.2	0.9551	1.260	1.033	2,096			
2	30.31	95.76	573.2	0.9662	1.260	1.041	2,678			
3	30.31	128.79	603.2	0.9750	1.260	1.048	5,026			
4	30.31	143.56	613.2	0.9804	1.260	1.049	5,836			
5.										
NO.	R _w	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio $\frac{76,130}{56.0}$ Mcf/bbl.					
1	0.95	570	1.57	0.928	A.P.I. Gravity of Liquid Hydrocarbons					
2.	0.95	557	1.53	0.922	Specific Gravity Separator Gas 0.630		XXXXXXXXXX			
3.	0.95	567	1.50	0.911	Specific Gravity Flowing Fluid XXXXX		0.670			
4.	0.95	541	1.49	0.903	Critical Pressure 673 P.S.I.A.		670 P.S.I.A.			
5					Critical Temperature 364		381			
$P_c = 5773.2$ $P_c^2 = 10,237$										
NO.	P ₁ ²	P _w	R _w ²	P ₁ ² - R _w ²	(1) $\frac{P_c^2}{P_1^2 - R_w^2} = 2.661$		(2) $\left[\frac{R_w^2}{P_1^2 - R_w^2} \right]^n = 1.348$			
1		3632.8	13,197	1,040						
2		3330.2	11,090	3,147						
3		3173.2	10,069	4,168						
4		2981.1	8,857	5,350	AOF = Q		$\left[\frac{R_w^2}{P_1^2 - R_w^2} \right]^n = 10,785$			
5										
Absolute Open Flow <u>10,785</u> Mcfd @ 15.025							Angle of Slope θ _____		Slope, n <u>0.626</u>	
Remarks: <u>Wt. measured with bottom hole pressure recorder</u>										
Approved By Commission:			Conducted By: Al Klear			Calculated By: Ed Snook			Checked By: Ed Snook	

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NEW MEXICO OIL CONSERVATION COMMISSION
 REQUEST FOR ALLOWABLE
 AND
 AUTHORIZATION TO TRANSPORT OIL AND NATURAL GAS

Form C-104
 Supersedes Old C-104 and C-110
 Effective 1-1-65

RECEIVED

SEP 13 1976

I. Operator **AMOCO PRODUCTION COMPANY** ✓

Address **P.O. DRAWER A, LEVELLAND, TEXAS 79336**
O. C. C. ARTESIA, OFFICE

Reason(s) for filing (Check proper box)
 New Well Change in Transporter of: Oil Dry Gas Condensate
 Recompletion Casinghead Gas

Other (Please explain) **EFF 8-1-76**
FROM: Amoco PRODUCTION COMPANY
TO: GAS COMPANY OF NEW MEXICO

If change of ownership give name and address of previous owner _____

II. DESCRIPTION OF WELL AND LEASE

Lease Name	Well No.	Pool Name, including Formation	Kind of Lease	Lease No.
MALCO "S" FEDERAL	1	SCOBAIN DRAW-MORROW	State, Federal or Fee FEDERAL	LC-067858
Location				
Unit Letter		Feet From The	Line and	Feet From The
F	1650	NORTH	1653	WEST
Line of Section	Township	Range	NMPM,	County
11	18-S	27-E	EDDY	

III. DESIGNATION OF TRANSPORTER OF OIL AND NATURAL GAS

Name of Authorized Transporter of Oil <input type="checkbox"/> or Condensate <input checked="" type="checkbox"/>	Address (Give address to which approved copy of this form is to be sent)			
AMOCO PRODUCTION COMPANY - TRUCKS	Box 1183 - HOUSTON, TEXAS 77001			
Name of Authorized Transporter of Casinghead Gas <input type="checkbox"/> or Dry Gas <input type="checkbox"/>	Address (Give address to which approved copy of this form is to be sent)			
GAS COMPANY OF NEW MEXICO	FIRST INTERNATIONAL BLDG. SUITE 1800 DALLAS, TX 75270			
If well produces oil or liquids, give location of tanks.	Unit	Sec.	Twp.	Rge.
	F	11	18	27
				Is gas actually connected? YES
				When 12-27-72

If this production is commingled with that from any other lease or pool, give commingling order number: _____

IV. COMPLETION DATA

Designate Type of Completion - (X)	Oil Well	Gas Well	New Well	Workover	Deepen	Plug Back	Same Restv.	Diff. Restv.
Date Spudded	Date Compl. Ready to Prod.		Total Depth			P.B.T.D.		
Elevations (DF, RKB, RT, GR, etc.)	Name of Producing Formation		Top Oil/Gas Pay			Tubing Depth		
Perforations						Depth Casing Shoe		
TUBING, CASING, AND CEMENTING RECORD								
HOLE SIZE	CASING & TUBING SIZE		DEPTH SET			SACKS CEMENT		

V. TEST DATA AND REQUEST FOR ALLOWABLE OIL WELL

(Test must be after recovery of total volume of load oil and must be equal to or exceed top allowable for this depth or be for full 24 hours)

Date First New Oil Run To Tanks	Date of Test	Producing Method (Flow, pump, gas lift, etc.)	
Length of Test	Tubing Pressure	Casing Pressure	Choke Size
Actual Prod. During Test	Oil - Bbls.	Water - Bbls.	Gas - MCF

GAS WELL

Actual Prod. Test-MCF/D	Length of Test	Bbls. Condensate/MMCF	Gravity of Condensate
Testing Method (pilot, back pr.)	Tubing Pressure (Shut-in)	Casing Pressure (Shut-in)	Choke Size

VI. CERTIFICATE OF COMPLIANCE

I hereby certify that the rules and regulations of the Oil Conservation Commission have been complied with and that the information given above is true and complete to the best of my knowledge and belief.

OIL CONSERVATION COMMISSION
 APPROVED **SEP 14 1976**, 19____
 BY **W.A. Grasset**
 TITLE **SUPERVISOR, DISTRICT II**

0:4-NMOC-ART

1- Div

1- JMG

1- Howdo

1- Susp

1- RL

Ray W. Cox

(Signature)

Administrative Assistant

(Title)

9-3-76

(Date)

This form is to be filed in compliance with RULE 1104.

If this is a request for allowable for a newly drilled or deepened well, this form must be accompanied by a tabulation of the deviation tests taken on the well in accordance with RULE 111.

All sections of this form must be filled out completely for allowable on new and recompleted wells.

Fill out only Sections I, II, III, and VI for changes of owner, well name or number, or transporter, or other such change of condition.

Separate Forms C-104 must be filed for each pool in multiply completed wells.

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NEW MEXICO OIL CONSERVATION COMMISSION
REQUEST FOR ALLOWABLE
AND
AUTHORIZATION TO TRANSPORT OIL AND NATURAL GAS

Form C-104
 Supersedes Old C-104 and C-110
 Effective 1-1-65

RECEIVED

JAN 28 1977

Operator
AMOCO PRODUCTION COMPANY ✓
 Address
P.O. Drawer A, Levelland, Texas 79336
 Reason(s) for filing (Check proper box)
 New Well Change in Transporter of:
 Recompletion Oil Dry Gas From: Gas Company of New Mexico
 Change in Ownership Casinghead Gas Condensate To: Amoco Production Company
 Other (Please explain) Eff. 8-1-76
 Artesia Office

DESCRIPTION OF WELL AND LEASE
 Lease Name: **Malco "S" Federal** Well No.: **1** Pool Name, including Formation: **Scoggin Draw-Morrow** Kind of Lease: **Federal** Lease No.: **LC-067858**
 Location
 Unit Letter: **F**; **1650** Feet From The **North** Line and **1653** Feet From The **West**
 Line of Section: **11** Township: **18-S** Range: **27-E**, NMPM, **Eddy** County

DESIGNATION OF TRANSPORTER OF OIL AND NATURAL GAS
 Name of Authorized Transporter of Oil or Condensate
Amoco Production Company - Trucks Address (Give address to which approved copy of this form is to be sent)
Box 1183, Houston, Texas 77001
 Name of Authorized Transporter of Casinghead Gas or Dry Gas
Amoco Production Company Address (Give address to which approved copy of this form is to be sent)
P.O. Drawer A, Levelland, Texas 79336
 If well produces oil or liquids, give location of tanks. Unit: **F** Sec.: **11** Twp.: **18** Rge.: **27** Is gas actually connected? **Yes** When: **12-27-72**

If this production is commingled with that from any other lease or pool, give commingling order number:
COMPLETION DATA
 Designate Type of Completion - (X) Oil Well Gas Well New Well Workover Deepen Plug Back Same Res'v. Diff. Res'v.
 Date Spudded Date Compl. Ready to Prod. Total Depth P.B.T.D.
 Elevations (DF, RKB, RT, GR, etc.) Name of Producing Formation Top Oil/Gas Pay Tubing Depth
 Perforations Depth Casing Shoe

TUBING, CASING, AND CEMENTING RECORD			
HOLE SIZE	CASING & TUBING SIZE	DEPTH SET	SACKS CEMENT

TEST DATA AND REQUEST FOR ALLOWABLE OIL WELL (Test must be after recovery of total volume of load oil and must be equal to or exceed top allowable for this depth or be for full 24 hours)
 Date First New Oil Run To Tanks Date of Test Producing Method (Flow, pump, gas lift, etc.)
 Length of Test Tubing Pressure Casing Pressure Choke Size
 Actual Prod. During Test Oil-Bbls. Water-Bbls. Gas-MCF
 POSTED ID-3 changed 2-4-77

GAS WELL
 Actual Prod. Test-MCF/D Length of Test Bbls. Condensate/MMCF Gravity of Condensate
 Testing Method (pilot, back pr.) Tubing Pressure (shut-in) Casing Pressure (shut-in) Choke Size

CERTIFICATE OF COMPLIANCE
 I hereby certify that the rules and regulations of the Oil Conservation Commission have been complied with and that the information given above is true and complete to the best of my knowledge and belief.
 OIL CONSERVATION COMMISSION
 APPROVED JAN 31 1977, 19____
 BY W.A. Gressett
 TITLE _____

Ray W Cox

(Signature)

Administrative Assistant

(Title)

1-26-77

(Date)

O&4 NMOCC-Art

1-Div
1-JMG

1-Hondo
1-Susp
1-RC

This form is to be filed in compliance with RULE 1104.

If this is a request for allowable for a newly drilled or deepened well, this form must be accompanied by a tabulation of the deviation tests taken on the well in accordance with RULE 111.

All sections of this form must be filled out completely for allowable on new and recompleted wells.

Fill out only Sections I, II, III, and VI for changes of owner, well name or number, or transporter, or other such change of condition.

Separate Forms C-104 must be filed for each pool in multiply completed wells.

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir. Use Form 9-331-C for such proposals.)

1. oil well gas well other

2. NAME OF OPERATOR
Amoco Production Company ✓

3. ADDRESS OF OPERATOR
P. O. Box 68, Hobbs, NM 88240

4. LOCATION OF WELL (REPORT LOCATION CLEARLY. See space 17 below.)
AT SURFACE: 1650' FNL X 1653' FWL, Unit F
AT TOP PROD. INTERVAL: Sec. 11, T-18-S, R-27-E
AT TOTAL DEPTH:

16. CHECK APPROPRIATE BOX TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

REQUEST FOR APPROVAL TO:

TEST WATER SHUT-OFF

FRACTURE TREAT

SHOOT OR ACIDIZE

REPAIR WELL

PULL OR ALTER CASING

MULTIPLE COMPLETE

CHANGE ZONES

ABANDON*

(other)

SUBSEQUENT REPORT OF:

5. LEASE
LC-067858

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME
DEC 29 1981

8. FARM OR LEASE NAME
Malco "S" Federal

9. WELL NO.
1

10. FIELD OR WILDCAT NAME
Scoggin Draw - Morrow Gas

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA
11-18-27

12. COUNTY OR PARISH
Eddy

13. STATE
NM

14. API NO.

15. ELEVATIONS (SHOW DF, KDB, AND WD)
3587' RDB

DEC 24 1981

OIL & GAS
U.S. GEOLOGICAL SURVEY
ROSWELL, NEW MEXICO

NOTE: Report results of multiple completion or zone change on Form 9-330.)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

Propose to acidize to increase production as follows: Install Tree Saver. Acidize with 8000 gal. 7-1/2% HCL NEFE acid staged with 150 ball sealers at a rate of 3-5 BPM as follows: (a) Run gamma ray-temp base log; (b) Pump 2000 gal. of acid; (c) inject 25 ball sealers; (d) Pump 1000 gall of acid (e) Repeat (c) and (d) until all acid is pumped; (f) Flush with 37 bbl. of treated 2% KCL water; (g) Run after job gamma ray-temp. treatment evaluation log; and (h) Swab back to recover load. Place well back on production.

0+4- USGS, A 1-Hou 1-Susp 1-CLF

Subsurface Safety Valve: Manu. and Type _____ Set @ _____ Ft.

18. I hereby certify that the foregoing is true and correct

SIGNED Cathy L. Ferman TITLE Ast. Adm. Analyst DATE 12-21-81

(This space for Federal or State office use)

APPROVED BY _____ TITLE _____ DATE _____
CONDITIONS OF APPROVAL, IF ANY:

APPROVED

DEC 28 1981

Jr. JAMES A. GILLHAM
DISTRICT SUPERVISOR

*See Instructions on Reverse Side

C/SF

Form 9-331
 Dec. 1973

Form Approved.
 Budget Bureau No. 42-R1424

UNITED STATES RECEIVED
 DEPARTMENT OF THE INTERIOR
 GEOLOGICAL SURVEY DEC 9 1982

SUNDRY NOTICES AND REPORTS ON WELLS
 (Do not use this form for proposals to drill or to deepen or plug back to a different reservoir. Use Form 9-331-C for such proposals.)

1. oil well gas well other

2. NAME OF OPERATOR
 Amoco Production Company ✓

3. ADDRESS OF OPERATOR
 P. O. Box 68, Hobbs, NM 88240

4. LOCATION OF WELL (REPORT LOCATION CLEARLY. See space 17 below.)
 AT SURFACE: 1650' FNL X 1653' FWL, Unit F
 AT TOP PROD. INTERVAL: Sec. 11, T-18-S, R-27-E
 AT TOTAL DEPTH:

16. CHECK APPROPRIATE BOX TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

5. LEASE
 LC-067858

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME
 Malco "S" Federal

9. WELL NO.
 1

10. FIELD OR WILDCAT NAME
 Scoggin Draw Morrow Gas

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA
 11-18-27

12. COUNTY OR PARISH
 Eddy

13. STATE
 NM

14. API NO.

15. ELEVATIONS (SHOW DF, KDB, AND WD)
 3587' RDB

REQUEST FOR APPROVAL TO:

TEST WATER SHUT-OFF

FRACTURE TREAT

SHOOT OR ACIDIZE

REPAIR WELL

PULL OR ALTER CASING

MULTIPLE COMPLETE

CHANGE ZONES

ABANDON*

(other)

SUBSEQUENT REPORT OF

RECEIVED
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(NOTE: Report results of multiple completion or zone change on Form 9-330.)

OIL & GAS
 MINERALS MGMT. SERVICE
 ROSWELL, NEW MEXICO

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

Propose to fracture stimulate Morrow interval 9621'-9929' (non-continuous) as follows: Pull tubing and packer. Set a packer at apx. 9520'. Fracture stimulate with 20000 gal 40# gelled 2% KCl water commingled with 10000 gal CO2 carrying 20500# 20/40 sand. Flush with 3000 gal 2% KCl brine water and 1000 gal CO2. Flow and kick off well. If well won't flow, pull packer and run 3 joints tubing as tailpipe with 1.81" profile nipple 1 joint off bottom, landing tubing at apx. 9530'. Set a packer in 5 1/2" liner at apx. 9430'. Run on-off tool with 1.875" profile nipple in seal mandrel. Run 2-3/8" tubing to surface and hydro test tubing. Flow test and return well to production.

0+4-MMS,A 1-HOU 1-SUSP 1-CLF

Subsurface Safety Valve: Manu. and Type _____ Set @ _____ Ft.

18. I hereby certify that the foregoing is true and correct

SIGNED Cathy L. German TITLE Ast. Adm. Analyst DATE 11-30-82

APPROVED (This space for Federal or State office use)

(Orig. Sgd.) PETER W. CHESTER

APPROVED BY _____ TITLE _____ DATE _____

CONDITIONS OF APPROVAL, IF ANY:

DEC 8 1982

FOR
 JAMES A. GILLHAM
 DISTRICT SUPERVISOR

*See Instructions on Reverse Side

9/5F

RECEIVED BY
3160-3
(November 1983)
JAN 11 1985
O. C. D.
ARTESIA, NM 88210

UNITED STATES DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT
APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

Form approved.
Budget Bureau No. 1004-0136
Expires August 31, 1985

1a. TYPE OF WORK
 DRILL DEEPEN PLUG BACK

b. TYPE OF WELL
 OIL WELL GAS WELL OTHER *Recomplete* SINGLE ZONE MULTIPLE ZONE

2. NAME OF OPERATOR
Amoco Production Company

3. ADDRESS OF OPERATOR
P.O. Box 68, Hobbs NM 88240

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.)
 At surface *1650' FNL X 1653' FWL*
 At proposed prod. zone *(SE 1/4 NW 1/4 Unit F)*

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE*

15. DISTANCE FROM PROPOSED* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drlg. unit line, if any)

16. NO. OF ACRES IN LEASE

17. NO. OF ACRES ASSIGNED TO THIS WELL

18. DISTANCE FROM PROPOSED LOCATION* TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT.

19. PROPOSED DEPTH

20. ROTARY OR CABLE TOOLS

21. ELEVATIONS (Show whether DF, RT, GR, etc.)

22. APPROX. DATE WORK WILL START*

5. LEASE DESIGNATION AND SERIAL NO.
LC-067858

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME
Moloo S' Federal

9. WELL NO.
1

10. FIELD AND POOL OR WILDCAT
Chalk Bluff Wolfcamp

11. SEC., T., R., OR BLK. AND SURVEY OR AREA
11-18-27

12. COUNTY OR PARISH
Eddy

13. STATE
NM

23. PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
15"	11 3/4"	47#	1000'	570 lbs
11"	8 5/8"	32#	6378'	300 lbs
7 7/8"	5 1/2" liner	17#	6277-10138'	855 lbs

Propose to abandon the Morrow and recomplete to the Wolfcamp as follows:

- 1) POH with production equipment
- 2) RIH and set CIBP at 9500' and cap with 35' (5000) class H' neat cmt. Top of Morrow is at 9490'.
- 3) Spot a 250' (2500) class H' neat plug from 7860-7610. x Place mud between plugs
- 4) Run CBL from 7500-6500'.
- 5) If there is not a good cmt. bond between 7000'-7400' a supplemental procedure to

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen or plug back, give data on present productive zone and proposed new productive zone. If proposal is to drill or deepen directionally, give pertinent data on subsurface locations and measured and true vertical depths. Give blowout preventer program, if any.

24. SIGNED *Harry C. Clark* TITLE *Asst. Admin. Analyst* DATE *1-7-84*

PERMIT NO. _____ APPROVAL DATE _____

APPROVED BY *L. Mark Spitzer* TITLE *Asst. Dir.* DATE *1-9-85*

CONDITIONS OF APPROVAL, IF ANY:
0+5 BLM, C 1-JRB 1-FJN 1-GCC 2-NMOC, A

*See Instructions On Reverse Side

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

place cmt. behind pipe will be issued.

- ⑥ Perforate Wolfcamp intervals 7046-62, 7090-7100, and 7382-88 w/4 DPTS PF using a 3 1/8" gun.
- ⑦ RIH with RBP, thg, and pkr. Set RBP at 7450', pkr. at 7280'.
- ⑧ Swab and flow test well
- ⑨ Stimulate Wolfcamp 7382-88' with 1000 gals 15% NEFE HCl gelled acid w/add. and 1000 gals nongelled 15% NEFE HCl w/add. Flush with 30 bbls fresh water.
- ⑩ Swab and flow test well
- ⑪ Release pkr, lower and latch onto RBP. Pull up RBP to 7200' and spot 10' sand on top. Set pkr at 6850'.
- ⑫ Swab and flow test gross interval 7046'-7100'.
- ⑬ Stimulate Wolfcamp 7046-62' and 7090-7100' as follows:
 - * Tag all acid w/RA material
 - a) Run before treatment GA Temp survey 7170'-6800'
 - b) Pump 4000 gals 15% NEFE HCl gelled acid w/add in 2 equal stages
 - c) Pump 1000 gals 15% NEFE HCl acid w/add
 - d) flush acid with 29 bbls fresh water
 - e) Run after treatment survey 7170'-6800'
- ⑭ Swab and flow test well
- ⑮ Release pkr and POH with RBP, pkr, and thg.
- ⑯ RIH with 2 3/8" thg with seating nipple on bottom. Land thg at 7450' and anchor at 7350'
- ⑰ Run rods and pump and return well to production.

W MEXICO OIL CONSERVATION COMMISSION
WELL LOCATION AND ACREAGE DEDICATION PLAT

Form C-102
Supersedes C-128
Effective 1-1-65

All distances must be from the outer boundaries of the Section.

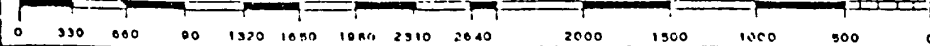
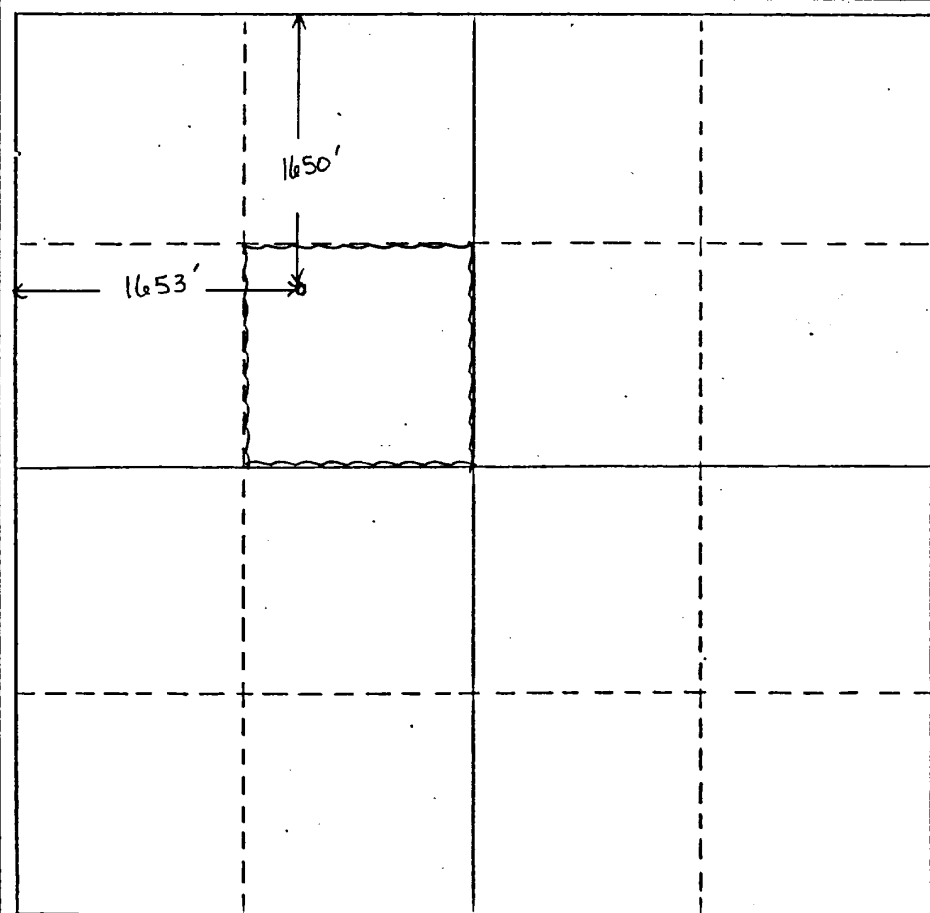
Operator <i>Amoco Production Company</i>		Lease <i>Malco "S" Federal</i>		Well No. <i>1</i>
Unit Letter <i>F</i>	Section <i>11</i>	Township <i>18-S</i>	Range <i>27-E</i>	County <i>Eddy</i>
Actual Footage Location of Well: <i>1650</i> feet from the <i>North</i> line and <i>1653</i> feet from the <i>West</i> line				
Ground Level Elev. <i>3587 RDB</i>	Producing Formation <i>Wolfcamp</i>	Pool <i>Chalk Bluff Wolfcamp</i>	Dedicated Acreage: <i>40</i> Acres	

1. Outline the acreage dedicated to the subject well by colored pencil or hatchure marks on the plat below.
2. If more than one lease is dedicated to the well, outline each and identify the ownership thereof (both as to working interest and royalty).
3. If more than one lease of different ownership is dedicated to the well, have the interests of all owners been consolidated by communitization, unitization, force-pooling, etc?

Yes No If answer is "yes," type of consolidation _____

If answer is "no," list the owners and tract descriptions which have actually been consolidated. (Use reverse side of this form if necessary.) _____

No allowable will be assigned to the well until all interests have been consolidated (by communitization, unitization, forced-pooling, or otherwise) or until a non-standard unit, eliminating such interests, has been approved by the Commission.



CERTIFICATION

I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief.

Name	<i>Harry C. Clark</i>
Position	<i>Asst. Admin. Analyst</i>
Company	<i>Amoco Production Company</i>
Date	<i>1-7-85</i>

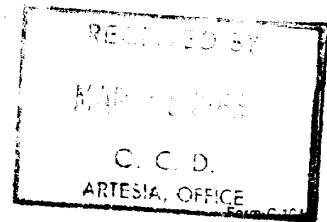
I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my knowledge and belief.

Date Surveyed	
Registered Professional Engineer and/or Land Surveyor	
Certificate No.	

STATE OF NEW MEXICO
ENERGY AND MINERALS DEPARTMENT

NO. OF COPIES RECEIVED	
DISTRIBUTION	
SANTA FE	✓
FILE	✓
U.S.G.S.	
LAND OFFICE	
TRANSPORTER	OIL ✓ GAS ✓
OPERATOR	✓
PRODUCTION OFFICE	

OIL CONSERVATION DIVISION
P. O. BOX 2088
SANTA FE, NEW MEXICO 87501



Revised 10-01-78
Format 06-01-83
Page 1

REQUEST FOR ALLOWABLE
AND
AUTHORIZATION TO TRANSPORT OIL AND NATURAL GAS

I.

Operator: Amoco Production Company ✓

Address: P.O. Box 13, Hobbs NM 88240

Reason(s) for filing (Check proper box):

<input type="checkbox"/> New Well	Change in Transporter of:	Other (Please explain)
<input checked="" type="checkbox"/> Recompletion	<input type="checkbox"/> Oil	<u>Request 1000 bbl testing allowable</u>
<input type="checkbox"/> Change in Ownership	<input type="checkbox"/> Casinghead Gas	<u>7090 - 7388 (Wolfecamp perf)</u>
	<input type="checkbox"/> Dry Gas	<u>FOR MARCA</u>
	<input type="checkbox"/> Condensate	

If change of ownership give name and address of previous owner: _____

II. DESCRIPTION OF WELL AND LEASE

Lease Name <u>Makes S' Federal</u>	Well No. <u>1</u>	Pool Name, including Formation <u>Chalk Bluff Wolfecamp</u>	Kind of Lease State <u>(Federal)</u> or Fee	Lease No. <u>LC-067858</u>
Location Unit Letter <u>F</u> : <u>1650</u> Feet From The <u>North</u> Line and <u>1653</u> Feet From The <u>West</u>	Line of Section <u>11</u>	Township <u>18-S</u>	Range <u>27-E</u>	NMPLA, <u>Eddy</u> County

III. DESIGNATION OF TRANSPORTER OF OIL AND NATURAL GAS

Name of Authorized Transporter of Oil <input checked="" type="checkbox"/> or Condensate <input type="checkbox"/> <u>The Permian Corporation</u> Permitted <u>9/1/87</u>	Address (Give address to which approved copy of this form is to be sent) <u>P.O. Box 1183, Houston TX 77001</u>
Name of Authorized Transporter of Casinghead Gas <input type="checkbox"/> or Dry Gas <input type="checkbox"/>	Address (Give address to which approved copy of this form is to be sent)
If well produces oil or liquids, give location of tanks.	Unit | Sec. | Twp. | Rge. | Is gas actually connected? <u>1/0</u> | When

If this production is commingled with that from any other lease or pool, give commingling order number: _____

NOTE: Complete Parts IV and V on reverse side if necessary.

VI. CERTIFICATE OF COMPLIANCE

I hereby certify that the rules and regulations of the Oil Conservation Division have been complied with and that the information given is true and complete to the best of my knowledge and belief.

Mary C. Clark
(Signature)
Asst. Admin. Analyst
(Title)
3-1-85
(Date)
015 NM00D, A 1-JRB 1-FJN 1-600

OIL CONSERVATION DIVISION
APPROVED MAR 6 1985, 151
BY Leslie A. Clements
TITLE Supervisor District II

This form is to be filed in compliance with RULE 1104.
If this is a request for allowable for a newly drilled or deepened well, this form must be accompanied by a tabulation of the deviation route taken on the well in accordance with RULE 111.
All sections of this form must be filled out completely for allowable on new and recompleted wells.
Fill out only Sections I, II, III, and VI for changes of owner, well name or number, or transporter or other such change of condition.
Separate Forms C-104 must be filled for each pool in multiply completed wells.

IV. COMPLETION DATA

Designate Type of Completion - (X)		Oil well	Gas well	New well	Workover	Deepen	Plug back	Same Res'v.	Dill. Res'
Date Spudded	Date Compl. Ready to Prod.		Total Depth			P.B.T.D.			
Elevations (DF, RKB, RT, GR, etc.)	Name of Producing Formation		Top Oil/Gas Pay			Tubing Depth			
Perforations						Depth Casing Shoe			
TUBING, CASING, AND CEMENTING RECORD									
HOLE SIZE	CASING & TUBING SIZE		DEPTH SET			SACKS CEMENT			

V. TEST DATA AND REQUEST FOR ALLOWABLE (Test must be after recovery of total volume of load oil and must be equal to or exceed top allowable for this depth or be for full 24 hours)

Date First New Oil Run To Tanks	Date of Test	Producing Method (Flow, pump, gas lift, etc.)		
Length of Test	Tubing Pressure	Casing Pressure	Casing Size	
Actual Prod. During Test	Oil - Bbls.	Water - Bbls.	Gas - MCF	

GAS WELL

Actual Prod. Test - MCF/D	Length of Test	Bbls. Condensate/MMCF	Gravity of Condensate
Testing Method (pilot, back pr.)	Tubing Pressure (Ghst-in)	Casing Pressure (Ehst-in)	Casing Size

OIL CONSERVATION DIVISION

Drawer DD Artesia, NM.

DISTRICT OFFICE #2

Jan. thru Apr. 1985
NO. 2159 T

SUPPLEMENT TO THE OIL PRORATION SCHEDULE

DATE March 6, 1985

PURPOSE ALLOWABLE ASSIGNMENT - TESTING

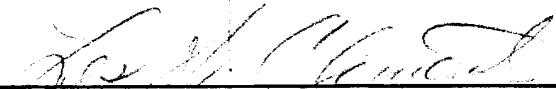
Effective March 1, 1985 a testing allowable of 1000 barrels of oil is hereby assigned to Amoco Production Company, Malco "S" Federal #1-F-11-18-27 in the Chalk Bluff Wolfcamp Pool for the month of March, 1985.

LAC:fc

Amoco Prod. Co.

PER

OIL CONSERVATION DIVISION



DISTRICT SUPERVISOR



Amoco Production Company

ENGINEERING CHART

SHEET NO. _____ OF _____

FILE _____

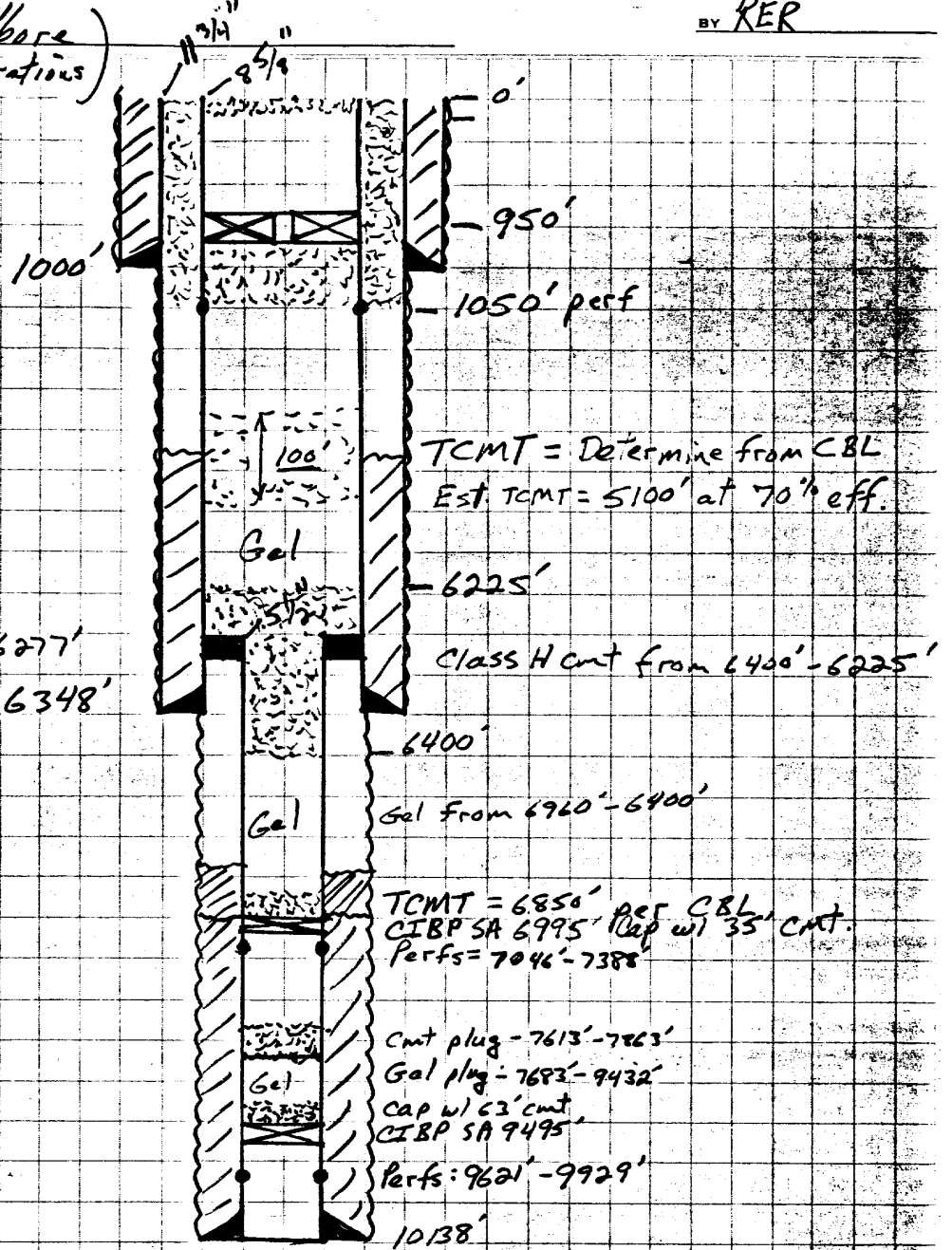
APPN _____

DATE 9/27/85

BY RER

SUBJECT Malco's Federal No 1

(Proposed Wellbore after P&A operations)



UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

SUBMIT IN TRIPL
(Other instructions
verse side)

Budget Bureau No. 1004-0135
Expires August 31, 1985

clsp

Artesia, NM 88210

SUNDRY NOTICES AND REPORTS ON WELLS
(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir.
Use "APPLICATION FOR PERMIT TO DRILL" for such proposals)

RECEIVED
NOV 15 1985
O. C. D.
ARTESIA OFFICE

5. LEASE DESIGNATION AND SERIAL NO. LC-067858

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME Malco "S" Federal

9. WELL NO. 1

10. FIELD AND POOL, OR WILDCAT Chalk Bluff Wolfcamp

11. SEC., T., E., M., OR BLK. AND SURVEY OR AREA 11-18-27

12. COUNTY OR PARISH Eddy 13. STATE NM

1. OIL WELL GAS WELL OTHER

2. NAME OF OPERATOR AMOCO PRODUCTION COMPANY

3. ADDRESS OF OPERATOR P.O. BOX 68 HOBBS, NEW MEXICO 88240

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.*
See also space 17 below.)
At surface 1650' FNL x 1653' FWL
(UNIT F, SE14, NW14)

14. PERMIT NO. 3001520510 15. ELEVATIONS (Show whether DF, RT, GR, etc.) 3587' RDB

16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:		SUBSEQUENT REPORT OF:	
TEST WATER SHUT-OFF <input type="checkbox"/>	PULL OR ALTER CASING <input type="checkbox"/>	WATER SHUT-OFF <input type="checkbox"/>	REPAIRING WELL <input type="checkbox"/>
FRACTURE TREAT <input type="checkbox"/>	MULTIPLE COMPLETE <input type="checkbox"/>	FRACTURE TREATMENT <input type="checkbox"/>	ALTERING CASING <input type="checkbox"/>
SHOOT OR ACIDIZE <input type="checkbox"/>	ABANDON* <input checked="" type="checkbox"/>	SHOOTING OR ACIDIZING <input type="checkbox"/>	ABANDONMENT* <input type="checkbox"/>
REPAIR WELL <input type="checkbox"/>	CHANGE PLANS <input type="checkbox"/>	(Other) <input type="checkbox"/>	(Other) <input type="checkbox"/>

(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

Propose to permanently Plug & Abandon as follows: Notify BLM prior commencing operations.

1. MISU and POH with rods, pump, and tubing.
2. RIH with CIBP and set at 6995'. Cap CIBP with 35' class H cement. Run CBL from 6000' to TCMT.
3. Displace hole from 6960' to surface with .9# gal gelled brine (at least 25 SX gel/100 BB brine).
4. Spot 32 SX class H ^{Neat} cement from 6400'-6225'. (Cover 8 7/8" csg. shoe and top of 5 1/2" liner.)
5. Spot 26 SX class C Neat cement (±100') across the TCMT found in step 2 above.
6. Perforate 8 7/8" casing from 1050'-1049' with 4 JSDF.
7. RIH with 8 7/8" cement retainer. Set retainer at ±950'. String into retainer and pump 300 SX class C Neat cement and circulate to surface thru 8 7/8" and 11 7/8" bradhead outlet.
8. Spot 10 SX Class C Neat cement from 40' to surface. Remove well head and install P&A Marker.

0 + 5 BLM, 1 - JRB, 1 - FJN, 1 - CMH

18. I hereby certify that the foregoing is true and correct

SIGNED Charles M. Lanning TITLE Administrative Analyst (SG) DATE 9/30/85

(This space for Federal or State office use)

APPROVED BY _____ TITLE _____ DATE 11-14-85

CONDITIONS OF APPROVAL, IF ANY:

*See Instructions on Reverse Side

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUBMIT IN TRIPLICATE
(Other instructions on reverse side)

Form approved.
Budget Bureau No. 42-R1424.

5. LEASE DESIGNATION AND SERIAL NO.

LC-067858

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir. Use "APPLICATION FOR PERMIT—" for such proposals.)

1. OIL WELL GAS WELL OTHER **DRILLING**

7. UNIT AGREEMENT NAME

2. NAME OF OPERATOR
Hondo Production Company ✓

8. FARM OR LEASE NAME

MAICO "A" Federal

3. ADDRESS OF OPERATOR
Box 17, Hobbs, N. M. 88240

9. WELL NO.

3

4. LOCATION OF WELL. (Report location clearly and in accordance with any State requirements.* See also space 17 below.)
At surface

10. FIELD AND POOL, OR WILDCAT

WILDCAT

1650' FNL x 1653' FWL Sec 11 (Unit F. SE 1/4 NW 1/4)

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA

11-18-27 NMPM

14. PERMIT NO. 15. ELEVATIONS (Show whether DF, RT, GR, etc.)

12. COUNTY OR PARISH

EDDY

13. STATE

NM

16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:

TEST WATER SHUT-OFF	<input type="checkbox"/>	PULL OR ALTER CASING	<input type="checkbox"/>
FRACTURE TREAT	<input type="checkbox"/>	MULTIPLE COMPLETE	<input type="checkbox"/>
SHOOT OR ACIDIZE	<input type="checkbox"/>	ABANDON*	<input type="checkbox"/>
REPAIR WELL	<input type="checkbox"/>	CHANGE PLANS	<input type="checkbox"/>
(Other)	<input type="checkbox"/>		

SUBSEQUENT REPORT OF:

WATER SHUT-OFF	<input checked="" type="checkbox"/>	REPAIRING WELL	<input type="checkbox"/>
FRACTURE TREATMENT	<input type="checkbox"/>	ALTERING CASING	<input type="checkbox"/>
SHOOTING OR ACIDIZING	<input type="checkbox"/>	ABANDONMENT*	<input type="checkbox"/>
(Other) Squadding	<input checked="" type="checkbox"/>		

(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)

**Noble Dring Co squadded 15" hole 2:30 PM 10-16-71.
On 2-18-71, 11 3/4" OD 47# K-55 casing was set @ 1000' w/ 970 Sx Incon + 2% CACL + 570# Top plug. Cement circ. After WOC 18 hours. Tested (opg) w/ 2000 psi for 30 min. Test O.K.
Reduced hole to 11" @ 1000' and resumed drilling.**

RECEIVED

OCT 22 1971

O. C. C.
ARTESIA, OFFICE

18. I hereby certify that the foregoing is true and correct

SIGNED

TITLE

AREA SUPERINTENDENT

DATE

OCT 20 1971

(This space for Federal or State office use)

APPROVED BY

CONDITIONS OF APPROVAL IF ANY

TITLE

DATE

- 4- USGS
- 1- ACJ
- 1- SUSP
- 2- HONDO-Roswell

APPROVED
OCT 21 1971
H. L. BEEKMAN
ACTING DISTRICT ENGINEER

*See Instructions on Reverse Side

UNITED STATES DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUBMIT IN TRIPLICATE*
(Other instructions on reverse side)

Form approved.
Budget Bureau No. 42-R1424.

5. LEASE DESIGNATION AND SERIAL NO.

LC-057858

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

1

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME

MALCO A Federal

9. WELL NO.

3

10. FIELD AND POOL, OR WILDCAT

WILDCAT

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA

11-18-27 NMPM

12. COUNTY OR PARISH

EDDY

NM

SUNDRY NOTICES AND REPORTS ON WELLS
(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir. Use "APPLICATION FOR PERMIT—" for such proposals.)

1. CIL. WELL GAS WELL OTHER DRILLING

2. NAME OF OPERATOR
Amoco Production Company

3. ADDRESS OF OPERATOR
BOX 63, HOBBS, N. M. 88240

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements. See also space 17 below.)
At surface

1650' FNL x 1653' FNL Sec. 11 (F, SE 1/4 NW 1/4)

14. PERMIT NO. 15. ELEVATIONS (Show whether DF, RT, GR, etc.)
3587' R. D. B.

16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:

TEST WATER SHUT-OFF
FRACTURE TREAT
SHOOT OR ACIDIZE
REPAIR WELL
(Other)
PULL OR ALTER CASING
MULTIPLE COMPLETE
ABANDON*
CHANGE PLANS

SUBSEQUENT REPORT OF:

WATER SHUT-OFF
FRACTURE TREATMENT
SHOOTING OR ACIDIZING
(Other)
REPAIRING WELL
ALTERING CASING
ABANDONMENT*

(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)

On 11-9-71, 8 5/8" OD 24-36" casing was set @ 6348' w/ 300 sq. class H. neat. after 7:00. 18 hours, tested casing w/ 1500 psi for 30 min. Test O.K.

Reduced hole to 7 7/8" @ 6348' and resumed drilling.

RECEIVED

NOV 16 1971

D. C. C.
ARTESIA, OFFICE

RECEIVED

NOV 15 1971

U. S. GEOLOGICAL SURVEY
ARTESIA, NEW MEXICO

18. I hereby certify that the foregoing is true and correct

SIGNED _____

TITLE AREA SUPERINTENDENT

DATE NOV 14 1971

(This space for Federal or State office use)

APPROVED BY _____
CONDITIONS OF APPROVAL _____

TITLE _____

DATE _____

01 4 USGS-AR
1- DIV
1- SUSP
1- RRY
2- HONDO-Roswell
NOV 15 1971
L. BEEKMAN
ACTING DISTRICT ENGINEER

*See Instructions on Reverse Side

N. M. O. C. C. COPY
UNITED STATES DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUBMIT IN TR (Other instructions
verse side)

DATE on re

Form approved. Budget Bureau No. 42-R1424

5. LEASE DESIGNATION AND SERIAL NO.

10-10-27

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir. Use "APPLICATION FOR PERMIT—" for such proposals.)

1. OIL WELL GAS WELL OTHER

2. NAME OF OPERATOR
1000 Production Company /

JAN 1972

3. ADDRESS OF OPERATOR
1000, ROSS, N. M. 88240

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements. See also space 17 below.)
At surface

1000 P.M. & 1000 F.W. Sec. 11 (E, SE/4 NW/4)

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME

9. WELL NO.

3

10. FIELD AND POOL, OR WILDCAT

MILSOB

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA

11-10-27 NMPM

14. PERMIT NO.

15. ELEVATIONS (Show whether DP, RT, GR, etc.)

3587' R. D. B.

12. COUNTY OR PARISH

13. STATE

EDDY N.M.

16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:

TEST WATER SHUT-OFF

FRACTURE TREAT

SHOOT OR ACIDIZE

REPAIR WELL

(Other)

PULL OR ALTER CASING

MULTIPLE COMPLETE

ABANDON*

CHANGE PLANS

SUBSEQUENT REPORT OF:

WATER SHUT-OFF

FRACTURE TREATMENT

SHOOTING OR ACIDIZING

(Other)

REPAIRING WELL

ALTERING CASING

ABANDONMENT*

(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

17. DESCRIBE PROMISED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)

On 12-7-71, 5 1/2" casing liner set from 6277' to 10138'.
Cemented w/ 5005x. Class H 4 1/2 Jct. 24 1/2 CFR-2
class 23504. Class H w/ 24 1/2 Jct. CFR-2. Ret. 45 cu.
TEMP 7125-TEMP SURVEY. Cased casing w/ 2000 psi
Jct 20 min. Test O.K. d/o. Tap lines w/ 1255x
class C & 24 1/2 CFR-2. Prod Coy 2000 psi. OK.
Prod 3621-27, 67-72, 82, 86 w/ RSPF.

Evaluating.

RECEIVED
DEC 29 1971
U. S. GEOLOGICAL SURVEY
ARTESIA, NEW MEXICO

TD-10103

~~Well 1000 changes from: Malco A. Turner Well No.~~

18. I hereby certify that the foregoing is true and correct

SIGNED _____ TITLE AREA SUPERINTENDENT DATE _____

(This space for Federal or State office use)

APPROVED BY Janta Kraft TITLE DISTRICT ENGINEER DATE DEC 29 1971

CONDITIONS OF APPROVAL, IF ANY:

Copy UCCS-117
1-01V
1-355P
1-111
2-11012

*See Instructions on Reverse Side

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUBMIT IN DUP. ATE*

(See other instructions on reverse side)

Form approved.
Budget Bureau No. 42-R355.5.

copy 1/2

WELL COMPLETION OR RECOMPLETION REPORT AND LOG *

5. LEASE DESIGNATION AND SERIAL NO.
LC-067858

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME

MALCO FEDERAL

9. WELL NO.

3

10. FIELD AND POOL, OR WILDCAT

Scoggin Draw - Menard Gas
WILDCAT R-4291

11. SEC. T., R., M., OR BLOCK AND SURVEY OR AREA

5-1-72

11-18-27 NMPM

12. COUNTY OR PARISH

EDDY

13. STATE

N.M.

1a. TYPE OF WELL:

OIL WELL GAS WELL DRY

RECEIVED

b. TYPE OF COMPLETION:

NEW WELL WORK OVER DEEP-EN PLUG BACK DIFF. RESVR Other

2. NAME OF OPERATOR

Amoco Production Company

JAN 7 1972

3. ADDRESS OF OPERATOR

BOX 68, HOBBS, N. M. 88240

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements)*

At surface
1650 FNLV 1653 FWL Sec. 11 (7. SW/4 NW/4)

At total depth

14. PERMIT NO. DATE ISSUED

15. DATE SPUDDED 10-16-71 16. DATE T.D. REACHED 12-5-71 17. DATE COMPL. (Ready to prod.) 12-20-71 18. ELEVATIONS (DF, REB, RT, GR, ETC.)* 3587 R.D.B. 19. ELEV. CASINGHEAD -

20. TOTAL DEPTH, MD & TVD 10,168 21. PLUG, BACK T.D., MD & TVD 10,000 22. IF MULTIPLE COMPL., HOW MANY? - 23. INTERVALS DRILLED BY - 24. ROTARY TOOLS O-TD 25. CABLE TOOLS -

24. PRODUCING INTERVAL(S), OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD)* 9621-9929' 25. WAS DIRECTIONAL SURVEY MADE No

26. TYPE ELECTRIC AND OTHER LOGS RUN GR-N, PROX, POROSITY, ETC. 27. WAS WELL CORED No

28. CASING RECORD (Report all strings set in well)

CASING SIZE	WEIGHT, LB./FT.	DEPTH SET (MD)	HOLE SIZE	CEMENTING RECORD	AMOUNT PULLED
11 3/4"	47#	1000'	15"	970 Sx	
8 5/8"	32#	6348'	11"	300 "	
5 1/2" LINER	17#	6277-10138'	7 7/8"	855 "	

29. LINER RECORD					30. TUBING RECORD		
SIZE	TOP (MD)	BOTTOM (MD)	SACKS CEMENT*	SCREEN (MD)	SIZE	DEPTH SET (MD)	PACKER SET (MD)
					2 3/8	9504	9491

31. PERFORATION RECORD (Interval, size and number)		32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.	
INTERVAL	SIZE	DEPTH INTERVAL (MD)	AMOUNT AND KIND OF MATERIAL USED
9621-27, 67-72, 82, 86'		9735-9929'	300 gal 10% HCF x 3% HCL
9735, 39, 42, 42, 75-84, 91-95'			
9851-56, 58, 64, 66, 9929'			

33.* PRODUCTION							
DATE FIRST PRODUCTION		PRODUCTION METHOD (Flowing, gas lift, pumping—size and type of pump)			WELL STATUS (Producing or shut-in)		
12-16-71		FLW			shut-in		
DATE OF TEST	HOURS TESTED	CHOKE SIZE	PROD'N FOR TEST PERIOD	OIL—BBL.	GAS—MCF.	WATER—BBL.	GAS-OIL RATIO
1-2-72	4	VARIOUS	→	9.3	708	0	76 1/36
FLOW. TUBING PRESS.	CASING PRESSURE	CALCULATED 24-HOUR RATE	OIL—BBL.	GAS—MCF.	WATER—BBL.	OIL GRAVITY-API (CORR.)	
2035-2689	PKR	→	56	10785	0	54°	

34. DISPOSITION OF GAS (Sold, used for fuel, vented, etc.)
TO BE SOLD - MARKET PENDING

TEST WITNESSED BY
RECEIVED

35. LIST OF ATTACHMENTS
NONE

36. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records.

SIGNED _____ TITLE AREA SUPERINTENDENT

JAN - 6 1972
U.S. GEOLOGICAL SURVEY
ARTESIAN NEW MEXICO

3- USGS-ART
1-Div
1-well file
1-RRT
2-HOWDO

*(See Instructions and Spaces for Additional Data on Reverse Side)

INSTRUCTIONS

General: This form is designed for submitting a complete and correct well completion report and log on all types of lands and leases to either a Federal agency or a State agency, or both, pursuant to applicable Federal and/or State laws and regulations. Any necessary special instructions concerning the use of this form and the number of copies to be submitted, particularly with regard to local, area, or regional procedures and practices, either are shown below or will be issued by, or may be obtained from, the local Federal and/or State office. See instructions on items 22 and 24, and 33, below regarding separate reports for separate completions.

Item 1: If not filed prior to the time this summary record is submitted, copies of all currently available logs (drillers, geologists, sample and core analysis, all types electric, etc.), formations and pressure tests, and directional surveys, should be attached hereto, to the extent required by applicable Federal and/or State laws and regulations. All attachments should be listed on this form, see item 35.

Item 2: If there are no applicable State requirements, locations on Federal or Indian land should be described in accordance with Federal requirements. Consult local State or Federal office for specific instructions.

Item 3: Indicate which elevation is used as reference (where not otherwise shown) for depth measurements given in other spaces on this form and in any attachments.

Items 22 and 24: If this well is completed for separate production from more than one interval zone (multiple completion), so state in item 22, and in item 24 show the producing interval, or intervals, top(s) and name(s) (if any) for the interval reported in item 33. Submit a separate report (page) on this form, adequately identified, for each additional interval to be separately produced, showing the additional data pertinent to such interval.

Item 23: "Sacks/Cement": Attached supplemental records for this well should show the details of any multiple stage cementing and the location of the cementing tool.

Item 33: Submit a separate completion report on this form for each interval to be separately produced. (See instruction for items 22 and 24 above.)

INFORMATION	TOP	BOTTOM	DESCRIPTION, CONTENTS, ETC.	GEOLOGIC MARKERS	TOP
<p>37. SUMMARY OF POROUS ZONES: SHOW ALL IMPORTANT ZONES OF POROSITY AND CONTENTS THEREOF; CORED INTERVALS; AND ALL DRILL-STEM TESTS, INCLUDING DEPTH INTERVAL TESTED, CUSHION USED, TIME TOOL OPEN, FLOWING AND SHUT-IN PRESSURES, AND RECOVERIES</p>	<p>12621 Ann Morrow</p>	<p>9929</p>	<p>Gas and Dirt Zone</p>	<p>Queen Lynch And Liso Wolfcamp Liso Canyon Oroka Chester</p>	<p>MEAS. DEPTH 1020 1516 1887 3457 5087 5840 7745 8365 8927 9960</p>

UNITED STATES DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUBMIT IN TRIP DATE
(Other instruction reverse side)

Form approved.
Budget Bureau No. 42-R1424.

5. LEASE DESIGNATION AND SERIAL NO.
LC-007050

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME
MALCO'S Federal

9. WELL NO.
1

10. FIELD AND POOL OR WILDCAT
WILDCAT E-4291

11. SEC., T., R., M., OR BLDG. AND SURVEY OR AREA
8-1-72

12. COUNTY OR PARISH
EDDY

13. STATE
N.M.

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir. Use "APPLICATION FOR PERMIT—" for such proposals.)

RECEIVED

FEB 3 1972

1. OIL WELL GAS WELL OTHER

2. NAME OF OPERATOR
Production Company

3. ADDRESS OF OPERATOR
D. C. C. ARTESIA, OFFICE

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements. See also space 17 below.)
At surface
1650' FNL x 1653' FWL Sec. 11 (Unit F, SE/4 NW/4)

14. PERMIT NO. 15. ELEVATIONS (Show whether DF, RT, CR, etc.)
3587' RDB

16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:		SUBSEQUENT REPORT OF:	
TEST WATER SHUT-OFF <input type="checkbox"/>	PULL OR ALTER CASING <input type="checkbox"/>	WATER SHUT-OFF <input type="checkbox"/>	REPAIRING WELL <input type="checkbox"/>
FRACTURE TREAT <input type="checkbox"/>	MULTIPLE COMPLETE <input type="checkbox"/>	FRACTURE TREATMENT <input type="checkbox"/>	ALTERING CASING <input type="checkbox"/>
SHOOT OR ACIDIZE <input type="checkbox"/>	ABANDON* <input type="checkbox"/>	SHOOTING OR ACIDIZING <input type="checkbox"/>	ABANDONMENT* <input type="checkbox"/>
REPAIR WELL <input type="checkbox"/>	CHANGE PLANS <input type="checkbox"/>	(Other) <input type="checkbox"/>	(Other) <input type="checkbox"/>

(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

*Well name and number changed
From: MALCO "A" Federal Well No. 3
To: MALCO S Federal Well No. 1*

Completion horizon and type well occasioned changes.

RECEIVED
JAN 21 1972
U. S. GEOLOGICAL SURVEY

18. I hereby certify that the foregoing is true and correct
SIGNED _____ TITLE **AREA SUPERINTENDENT** DATE **JAN 19 1972**

(This space for Federal or State office use)
APPROVED BY *[Signature]* TITLE **DISTRICT ENGINEER** DATE **FEB 2 1972**

*04-UEGS-NLT
1-DIV
1-SUP
1-RK
2-HONDO*

*See Instructions on Reverse Side

NO. OF COPIES RECEIVED	5
DISTRIBUTION	
SANTA FE	1
FILE	1
U.S.G.S.	
LAND OFFICE	
TRANSPORTER	OIL 1 GAS
OPERATOR	
PRORATION OFFICE	

NEW MEXICO OIL CONSERVATION COMMISSION
REQUEST FOR ALLOWABLE
AND
RECEIVED
AUTHORIZATION TO TRANSPORT OIL AND NATURAL GAS
(DEVIATION SURVEYS - BACK SIDE)
DEC 29 1972

Form C-104
Supersedes Old C-104 and C-110
Effective 1-1-65

O. C. C.

API-30-015-20510

I. Operating **Amoco Production Company** **ARTESIA, OFFICE**

Address
BOX 68, HOBBS, N. M. 88240

Reason(s) for filing (Check proper box) Other (Please explain)

New Well Change in Transporter of:
Recompletion Oil Dry Gas
Change in Ownership Casinghead Gas Condensate

If change of ownership give name and address of previous owner _____

II. DESCRIPTION OF WELL AND LEASE

Lease Name MALCO "S" FEDERAL	Well No. 1	Pool Name, Including Formation SCOGGIN DRAW-MORROW	Kind of Lease State, Federal or Fee FED	Lease No. LC-067858
Location Unit Letter F ; 1650 Feet From The NORTH Line and 1653 Feet From The WEST Line of Section 11 Township 18-S Range 27-E , NMPM, EDDY County				

III. DESIGNATION OF TRANSPORTER OF OIL AND NATURAL GAS

Name of Authorized Transporter of Oil <input type="checkbox"/> or Condensate <input checked="" type="checkbox"/> Amoco Production Company (Trucks)	Address (Give address to which approved copy of this form is to be sent) P. O. Box 3119, Midland, Texas 79701			
Name of Authorized Transporter of Casinghead Gas <input type="checkbox"/> or Dry Gas <input checked="" type="checkbox"/> Amoco Production Company (DAU)	Address (Give address to which approved copy of this form is to be sent) P. O. Box 68, Hobbs, New Mexico 88240			
If well produces oil or liquids, give location of tanks.	Unit F	Sec. 11	Twp. 18-S	Rge. 27-E
Is gas actually connected? When				Yes 12-27-72

If this production is commingled with that from any other lease or pool, give commingling order number: _____

IV. COMPLETION DATA

Designate Type of Completion - (X)	Oil Well	Gas Well	New Well	Workover	Deepen	Plug Back	Same Res'v.	Diff. Res'v.
		X	X					
Date Spudded 10-16-71	Date Compl. Ready to Prod. 12-20-71	Total Depth 10,168'	P.B.T.D. 10,000'					
Elevations (DF, RKB, RT, GR, etc.) 3587' RDB	Name of Producing Formation Penn-Morrow	Top Oil/Gas Pay 9,621	Tubing Depth 9,504'					
Performances 9621'-27', 67'-72', 82', 86', 9735', 39', 42', 72', 75'-84', 91'-95', 9851'-56', 10,138'							10,138'	
TUBING, CASING, AND CEMENTING RECORD								
HOLE SIZE	CASING & TUBING SIZE		DEPTH SET			SACKS CEMENT		
15"	11-3/4"		1000'			970 SX		
11"	8-5/8"		6348'			300 SX		
7-7/8"	5-1/2"		6277'-10138'			855 SX		
2 3/8" 9504 pp. C-9491								

V. TEST DATA AND REQUEST FOR ALLOWABLE OIL WELL

(Test must be after recovery of total volume of load oil and must be equal to or exceed top allowable for this depth or be for full 24 hours)

Date First New Oil Run To Tanks	Date of Test	Producing Method (Flow, pump, gas lift, etc.)	
Length of Test	Tubing Pressure	Casing Pressure	Choke Size
Actual Prod. During Test	Oil - Bbls.	Water - Bbls.	Gas - MCF

GAS WELL

Actual Prod. Test - MCF/D AAOF - 10785	Length of Test 4 Hr.	Bbls. Condensate/MMCF 12	Gravity of Condensate 54°
Testing Method (pitot, back pr.) 4 - Pt	Tubing Pressure (shut-in) 2862	Casing Pressure (shut-in) PKR	Choke Size VARIOUS

VI. CERTIFICATE OF COMPLIANCE

I hereby certify that the rules and regulations of the Oil Conservation Commission have been complied with and that the information given above is true and complete to the best of my knowledge and belief.

OIL CONSERVATION COMMISSION

APPROVED **DEC 29 1972**, 19 _____

BY **W. A. Gressett**

- 0 & 4 - NMOCC-Art.
- 1 - Div
- 1 - JEL
- 1 - OBP
- 1 - Susp
- 1 - RRY
- 2 - Hondo

James E. J. [unclear]

(Signature) AREA SUPERINTENDENT

Engineer

(Title)

12-27-72

(Date)

TITLE OIL AND GAS INSPECTOR

This form is to be filed in compliance with RULE 1104.

If this is a request for allowable for a newly drilled or deepened well, this form must be accompanied by a tabulation of the deviation tests taken on the well in accordance with RULE 111.

All sections of this form must be filled out completely for allowable on new and recompleted wells.

Fill out only Sections I, II, III, and VI for changes of owner, well name or number, or transporter, or other such change of condition.

Separate Forms C-104 must be filed for each pool in multiply completed wells.

DEVIATION SURVEYS

<u>DEPTH</u>	<u>DEGREES OFF</u>
740	1/2
1300	1/4
1670	1/4
2040	1/4
2460	1/2
2790	1/2
2970	1-1/4
3500	3/4
4000	3/4
4560	1°
4890	1°
5100	1-1/4
5610	1
6020	2-1/2
6195	2-1/2
6345	2
6970	2-1/4
7510	1
8152	1-3/4
9430	3/4
10165	1

The above are true to the best of my knowledge.

James E. Smith

AREA SUPERINTENDENT

Engineer

Sworn to this date. *December 27, 1972*

Dr. Marked

NOTARY PUBLIC IN & FOR LEA COUNTY, NEW MEXICO

MY COMMISSION EXPIRES

6-15-76

NEW MEXICO COMMISSION
 ARTESIA, NM 88210

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUNDRY NOTICES AND REPORTS ON WELLS
(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir. Use Form 9-331-C for such proposals.)

1. oil well gas well other

2. NAME OF OPERATOR
Amoco Production Company ✓

3. ADDRESS OF OPERATOR
P. O. Box 68, Hobbs, New Mexico 88240

4. LOCATION OF WELL (REPORT LOCATION CLEARLY. See space 17 below.)
 AT SURFACE: 1650' FNL x 1653' FWL, Unit F
 AT TOP PROD. INTERVAL: Sec. 11, T-18-S, R-27-E
 AT TOTAL DEPTH:

5. LEASE
LC-067858 **RECEIVED**

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME **MAY - 6 1982**

8. FARM OR LEASE NAME
Malco "S" Federal **O. C. D. ARTESIA, OFFICE**

9. WELL NO.
1

10. FIELD OR WILDCAT NAME
Scoggin Draw-Morrow Gas

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA
11-18-27

12. COUNTY OR PARISH | 13. STATE
Eddy | NM

14. API NO.

15. ELEVATIONS (SHOW DF, KDB, AND WD)
3587' RDB

16. CHECK APPROPRIATE BOX TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

REQUEST FOR APPROVAL TO:	SUBSEQUENT REPORT OF:
TEST WATER SHUT-OFF <input type="checkbox"/>	<input type="checkbox"/>
FRACTURE TREAT <input type="checkbox"/>	<input type="checkbox"/>
SHOOT OR ACIDIZE <input type="checkbox"/>	<input checked="" type="checkbox"/>
REPAIR WELL <input type="checkbox"/>	<input type="checkbox"/>
PULL OR ALTER CASING <input type="checkbox"/>	<input type="checkbox"/>
MULTIPLE COMPLETE <input type="checkbox"/>	<input type="checkbox"/>
CHANGE ZONES <input type="checkbox"/>	<input type="checkbox"/>
ABANDON* <input type="checkbox"/>	<input type="checkbox"/>
(other) <input type="checkbox"/>	<input type="checkbox"/>

(NOTE: Report results of multiple completion or zone change on Form 9-330.)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

Moved in service unit 3-2-82. Ran swab for 8 hrs. with initial fluid level 2100 ft. from surface. Final fluid level 9400 ft. from surface. Ran gamma ray temp. log. Pumped 8000 gal 7-1/2% HCL NEFE acid with additives staged with 150 ball sealers. Ran after gamma ray and temp. treatment log. Ran swab with light show of gas. Moved out service unit 3-8-82. Flow tested for 48 hrs. and flowed 342 MCF. Returned well to production.

0+4-USGS, A 1-Hou 1-Susp 1-CLF

Subsurface Safety Valve: Manu. and Type _____

18. I hereby certify that the foregoing is true and correct

SIGNED Cathy L. Ferman TITLE Ast. Adm. Analyst DATE 3-16-82

(This space for Federal or State office use)

APPROVED BY _____ TITLE _____
CONDITIONS OF APPROVAL, IF ANY:

ACCEPTED FOR RECORD
[Signature]
APR 27 1982
 U.S. GEOLOGICAL SURVEY
 ROSWELL, NEW MEXICO

RECEIVED
MAR 22 1982
 OIL & GAS
 U.S. GEOLOGICAL SURVEY
 ROSWELL, NEW MEXICO

*See Instructions on Reverse Side

NM OIL & GAS CO. - ROSWELL
 Denver 80
 Artesia, NM 88210

UNITED STATES
 DEPARTMENT OF THE INTERIOR
 GEOLOGICAL SURVEY

C/SF

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir. Use Form 9-331-C for such proposals.)

1. oil well gas well other

2. NAME OF OPERATOR
Amoco Production Company /

3. ADDRESS OF OPERATOR
P. O. Box 68, Hobbs, New Mexico 88240

4. LOCATION OF WELL (REPORT LOCATION CLEARLY. See space 17 below.)
 AT SURFACE: 1650' FNL x 1653' FWL, Unit F
 AT TOP PROD. INTERVAL: Sec. 11, T-18-S, R-27-E
 AT TOTAL DEPTH:

16. CHECK APPROPRIATE BOX TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

REQUEST FOR APPROVAL TO:	SUBSEQUENT REPORT OF:
TEST WATER SHUT-OFF <input type="checkbox"/>	<input type="checkbox"/>
FRACTURE TREAT <input type="checkbox"/>	<input type="checkbox"/>
SHOOT OR ACIDIZE <input type="checkbox"/>	<input checked="" type="checkbox"/>
REPAIR WELL <input type="checkbox"/>	<input type="checkbox"/>
PULL OR ALTER CASING <input type="checkbox"/>	<input type="checkbox"/>
MULTIPLE COMPLETE <input type="checkbox"/>	<input type="checkbox"/>
CHANGE ZONES <input type="checkbox"/>	<input type="checkbox"/>
ABANDON* <input type="checkbox"/>	<input type="checkbox"/>
(other) <input type="checkbox"/>	

5. LEASE LC-067858	
6. IF INDIAN, ALLOTTEE OR TRIBAL RECEIVED	
7. UNIT AGREEMENT NAME MAY - 4 1982	
8. FARM OR LEASE NAME Malco "S" Federal O. C. D.	
9. WELL NO. 1 ARTESIA, OFFICE	
10. FIELD OR WILDCAT NAME Scoggin Draw-Morrow Gas	
11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA 11-18-27	
12. COUNTY OR PARISH Eddy	13. STATE NM
14. API NO.	
15. ELEVATIONS (SHOW DF, KDB, AND WD) 3587' RDB	

RECEIVED
 (NOTE: Report results of multiple completion or zone change on Form 9-330.)
 APR 23 1982

OIL & GAS
 U.S. GEOLOGICAL SURVEY
 ROSWELL, NEW MEXICO

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

Moved in service unit 4-5-82. Swabbed 6 hrs. with initial fluid level 5000 ft. from surface. Final fluid level 9000 ft. from surface. Pumped 5500 gal XL-4 gel, 2750 gal CO2, and 2310# 20/40 sand. Pumped 2500 gal XL-4 gel, 1-1/4 gal CO2, and 2310# 20/40 sand. Flushed with 48 bbls 10# gel. Flow tested for 96 hrs. and flowed 12 BC, 12 BLW, 4 BW, and 3108 MCF. Returned well to production.

0+4-USGS, A 1-Hou 1-Susp 1-CLF

Subsurface Safety Valve: Manu. and Type _____ Set @ _____ Ft.

18. I hereby certify that the foregoing is true and correct

SIGNED *Cathy L. Gorman* TITLE Ast. Adm. Analyst DATE 4-19-82

(This space for Federal or State office use)

APPROVED BY CONDITIONS OF APPROVAL, IF ANY:	TITLE _____ DATE _____
ACCEPTED FOR RECORD PETER W. CHESTER MAY 3 1982 U.S. GEOLOGICAL SURVEY ROSWELL, NEW MEXICO	

See Instructions on Reverse Side

C/SF

Form 9-331
 Dec. 1973

Form Approved.
 Budget Bureau No. 42-R1424

UNITED STATES
 DEPARTMENT OF THE INTERIOR
 GEOLOGICAL SURVEY

5. LEASE LC-067858	
6. IF INDIAN, ALLOTTEE OR TRIBE NAME	
7. UNIT AGREEMENT NAME	
8. FARM OR LEASE NAME Malco "S" Federal	
9. WELL NO. 1	
10. FIELD OR WILDCAT NAME Scoggin Draw Morrow Gas	
11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA 11-18-27	
12. COUNTY OR PARISH Eddy	13. STATE NM
14. API NO.	
15. ELEVATIONS (SHOW DF, KDB, AND WD) 3587' RDB	

RECEIVED
SUNDRY NOTICES AND REPORTS ON WELLS
 (Do not use this form for proposals to drill or to deepen or plug back to a different reservoir. Use Form 9-331-C for such proposals.)
JUN 11 1983

1. oil well gas well other **O.C.D.**

2. NAME OF OPERATOR
Amoco Production Company **ARTESIA, OFFICE**

3. ADDRESS OF OPERATOR
P. O. Box 68, Hobbs, New Mexico 88240

4. LOCATION OF WELL (REPORT LOCATION CLEARLY. See space 17 below.)
 AT SURFACE: 1650' FNL X 1653' FWL, Unit F
 AT TOP PROD. INTERVAL:
 AT TOTAL DEPTH:

16. CHECK APPROPRIATE BOX TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

REQUEST FOR APPROVAL TO:		SUBSEQUENT REPORT OF:	
TEST WATER SHUT-OFF	<input type="checkbox"/>		<input type="checkbox"/>
FRACTURE TREAT	<input type="checkbox"/>		<input checked="" type="checkbox"/>
SHOOT OR ACIDIZE	<input type="checkbox"/>		<input type="checkbox"/>
REPAIR WELL	<input type="checkbox"/>		<input type="checkbox"/>
PULL OR ALTER CASING	<input type="checkbox"/>		<input type="checkbox"/>
MULTIPLE COMPLETE	<input type="checkbox"/>		<input type="checkbox"/>
CHANGE ZONES	<input type="checkbox"/>		<input type="checkbox"/>
ABANDON*	<input type="checkbox"/>		<input type="checkbox"/>
(other)	<input type="checkbox"/>		<input type="checkbox"/>

(NOTE: Report results of multiple completion or zone change on Form 9-330.)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

Moved in service unit 1-11-83. Killed well with 50 bbls 10# 2% KCL water. Pulled tubing and packer. Ran packer and 2-7/8" tubing and tested to 8000 psi. Packer set at 9515'. Fractured with 20,000 gal 40# gelled 2% KCL water and 10,000 gals. CO2 carrying 20,500# sand. Flushed with 71 bbl 10# 2% KCL water. Flowed well on 32/64" choke for 1/2 hrs. at 75 psi. Flowed 3 hrs. on 48/64" choke at 50 psi. Well died. Pulled tubing and packer. Ran 2-3/8" tubing, F-nipple, 2-3/8" tubing, packer, on-off tool and 2-3/8" tubing. Packer set at 9432' and tailpipe landed at 9527'. Swabbed 8 hrs. and recovered 60 BLW with Strong show of gas. Moved out service unit 1-16-83. Moved in and rigged up Swab unit 1-16-83. Swabbed 12 days. Moved out Swab unit 2-1-83. Connected well to gas sales line 2-2-83. Flowed 144 hrs. and produced 0 BF and 701 MCF. Last 24 hrs flowed 0 BF and 120 MCF. Returned well to production.

Subsurface Safety Valve: Mark and Type 0-4-BLM-R-1-HOU 1-SUSP 1-CMH 1-W. Stafford, HOU Set @ _____ Ft.

18. I hereby certify that the foregoing is true and correct
 SIGNED Charles M. Leary TITLE Ast. Adm. Analyst

ACCEPTED FOR RECORD

RECEIVED

APPROVED BY _____ TITLE RSP DATE FEB 16 1983
 CONDITIONS OF APPROVAL, IF ANY:

JUL 7 1983

MINERAL SERVICE
 ROSWELL, NEW MEXICO

*See Instructions on Reverse Side
 ROSWELL, NEW MEXICO

UNITED STATES DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

RECEIVED BY
FEB 28 1985
SUNDRY NOTICES AND REPORTS ON WELLS

Use this form for proposals to drill or to deepen or plug back to a different reservoir.
Use "APPLICATION FOR PERMIT—" for such proposals.)

5. LEASE DESIGNATION AND SERIAL NO.
LC-067858

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME
Malco S Federal

9. WELL NO.
1

10. FIELD AND POOL OR WILDCAT
Chalk Bluff Holcamp

11. SEC., T., E., M., OR 1/4 AND SURVEY OR AREA
11-18-27

12. COUNTY OR PARISH
Eddy

13. STATE
NM

1. OIL GAS OTHER **Recompletion**

2. OPERATOR
Amoco Production Company

3. ADDRESS OF OPERATOR
P.O. Box 68, Hobbs, NM 88240

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.)
At surface
**1650' FNL X 1653' FWL
(SE/4, NW/4, Unit F)**

14. PERMIT NO.

15. ELEVATIONS (Show whether DF, RT, GR, etc.)
3587' RDB

16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:		SUBSEQUENT REPORT OF:	
TEST WATER SHUT-OFF <input type="checkbox"/>	PULL OR ALTER CASING <input type="checkbox"/>	WATER SHUT-OFF <input type="checkbox"/>	REPAIRING WELL <input type="checkbox"/>
FRACTURE TREAT <input type="checkbox"/>	MULTIPLE COMPLETE <input type="checkbox"/>	FRACTURE TREATMENT <input type="checkbox"/>	ALTERING CASING <input type="checkbox"/>
SHOOT OR ACIDIZE <input type="checkbox"/>	ABANDON* <input type="checkbox"/>	SHOOTING OR ACIDIZING <input type="checkbox"/>	ABANDONMENT* <input type="checkbox"/>
REPAIR WELL <input type="checkbox"/>	CHANGE PLANS <input type="checkbox"/>	(Other) <input type="checkbox"/>	

(NOTE: Report results of multiple completion on Well Completion or Recombination Report and Log form.)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)

MISU 1-21-85. Released pks. and pulled tbg. Ran cast iron bridge plug and set at 9495'. Pumped 5 sx Class H cmr. Spotted gel plug 9432'-9683'. Spotted 25 sx Class H plug 7863'-7613'. Pulled tbg. Perf'd 7046'-7662', 7090'-7100', 7382'-7388' with 4 SPF. Ran tbg., pks. and set retrievable bridge plug at 7444'. Pulled tbg. and set pks. at 7280'. Swbd. Acidized with 1000 gals. 15% NEFE HCL and 1000 gals. 5% HCL. Swbd. Released pks. and reset at 6842'. Tested pks. to 500 PSI and OK. Set retrievable bridge plug at 7200'. Tested VRBP to 500 PSI and OK. Swbd. Ran before-treatment survey and acidized with 5000 gals. gelled 15% NEFE HCL. Jagged radio active material. Ran after-treatment survey. Swbd. Released pks. and pulled tbg. and ran retrievable head, seating nipple and tbg. to 7188'. Cleaned out sand to 7200'. Ran seating nipple,

0+5-BEM, C 1-JRB 1-FJN 1-GCC 2-NMOC, A

18. I hereby certify that the foregoing is true and correct

SIGNED **Bonita Coble** TITLE **Administrative Analyst** DATE **2-22-85**

(This space for Federal or State office use)

APPROVED BY **[Signature]** TITLE _____ DATE _____

CONDITIONS OF APPROVAL IF ANY:
[Signature]
FEB 26 1985

**Post FD 2
3-8-85
P+H Marrow**

*See Instructions on Reverse Side

tail-pipe, tbg., and tbg. anchor. Seating nipple landed at 7441',
and set tbg. anchor at 7005'. Ran rods and pump. MOSU
1-30-85. Built wellhead and connected to flow line on 1-31-85.
Began pump testing 2-1-85. Pump tested approx. 8 days. Last
24 hrs. pumped 10 BX 180 BW X 0 MCF. MISU 2-VI-85.
Pulled rods and pump. Pulled tbg. and ran pks., seating
nipple and tbg. Retrivable bridge plug set at 7150'. Tested
RBP to 1000 PSI and OK. Set pks. bar 7073'. Swld. Released pks.,
ran tbg. and latched on to RBP. Pulled tbg. Ran Cast iron
bridge plug and set at 7080'. Ran cmb. ret. and set at 6962'.
Pumped 75 sx Class H Neat. Reversed out 5 sx cmb. POOH.
Bulled out cmb. to 7070'. Ran tbg. and tagged cast iron bridge
plug at 7080'. Pulled tbg., drill collar and bit. Ran cmb.
retainer and set at 6955'. Squeezed 125 sx Class H cmb and
10 sx below retainer and 103 sx information. Reversed out 12 sx
and pulled tbg.

C/S

Form 3160-25
New Mexico, NM 88101

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

SUBMIT IN TRIPLICATE*
(Other instructions on reverse side)

Form approved
Budget Bureau No. 1004-0135
Expires August 31, 1985

RECEIVED BY
MAR 13 1985
O. C. D.
ARTESIA, OFFICE

5. LEASE DESIGNATION AND SERIAL NO.
LC-067858
6. IF INDIAN, ALLOTTEE OR TRIBE NAME
7. UNIT AGREEMENT NAME
8. FARM OR LEASE NAME
Malco's Federal
9. WELL NO.
1
10. FIELD AND POOL, OR WILDCAT
Chalk Bluff Wolfcamp
11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA
11-18-27
12. COUNTY OR PARISH
Eddy
13. STATE
NM

1. OFFICE
ARTESIA, OFFICE
2. NAME OF OPERATOR
Amoco Production Company ✓
3. ADDRESS OF OPERATOR
P.O. Box 68, Hobbs NM 88240
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.*
See also space 17 below.)
At surface
1650' FNL X 1653' FWL
(Unit F, SE/4 NW/4)

14. PERMIT NO.
15. ELEVATIONS (Show whether DF, RT, GR, etc.)
3587' RDB

16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:
TEST WATER SHUT-OFF
FRACTURE TREAT
SHOOT OR ACIDIZE
REPAIR WELL
(Other)
PULL OR ALTER CASING
MULTIPLE COMPLETE
ABANDON*
CHANGE PLANS

SUBSEQUENT REPORT OF:
WATER SHUT-OFF
FRACTURE TREATMENT
SHOOTING OR ACIDIZING
(Other) Production start-up
REPAIRING WELL
ALTERING CASING
ABANDONMENT*

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

This is to inform you that production from pump testing began on the Malco's Federal No. 1 2-26-85. Produced 9 BO, 150 bbl w, and 0 gas. The subject well is currently being recompleted from the morrow to the Wolfcamp.

0+5 BLM,R 1-JRB 1-FJN 1-GCC cc-BLM,C

18. I hereby certify that the foregoing is true and correct
SIGNED Larry C. Clark TITLE Asst. Admin. Analyst DATE 2-27-85

(This space for Federal or State office use)
APPROVED BY ACCEPTED FOR RECORD TITLE _____ DATE _____
CONDITIONS OF APPROVAL, IF ANY:
None

MAR 12 1985

*See Instructions on Reverse Side

Title 18 U.S.C. Section 1001 makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

SUBMIT IN TR
CATE*

Form approved.
Budget Bureau No. 1004-0135
Expires August 31, 1985

dst

RECEIVED BY
O. C. D.
ARTESIA, OFFICE

LEASE DESIGNATION AND SERIAL NO.
LC-067858
IF INDIAN, ALLOTTEE OR TRIBE NAME
UNIT AGREEMENT NAME

SUNDRY NOTICES AND REPORTS ON WAPPS 12 1985

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir.
Use "APPLICATION FOR PERMIT—" for such proposals.)

1. OIL WELL GAS WELL OTHER

2. NAME OF OPERATOR **Amoco Production Company**

3. ADDRESS OF OPERATOR **P.O. Box 68, Hobbs NM 88240**

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.*
See also space 17 below.)
At surface **1650' FNL X 1653' FWL
(Unit F, SE 1/4 NW 1/4)**

5. DRAWER NO. **Drawn DD**
6. COUNTY **Artesia, NM** 7. ZIP CODE **88210**

8. FARM OR LEASE NAME **Malco S Federal**

9. WELL NO. **1**

10. FIELD AND POOL, OR WILDCAT **Chalk Bluff Wolfcamp**

11. SEC., T., R., M. OR BLK. AND SURVEY OR AREA **11-18-27**

12. COUNTY OR PARISH **Eddy** 13. STATE **NM**

14. PERMIT NO. 15. ELEVATIONS (Show whether OF, HT, GR, etc.) **3587' RDB**

16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:		SUBSEQUENT REPORT OF:	
TEST WATER SHUT-OFF <input type="checkbox"/>	PULL OR ALTER CASING <input type="checkbox"/>	WATER SHUT-OFF <input type="checkbox"/>	REPAIRING WELL <input type="checkbox"/>
FRACTURE TREAT <input type="checkbox"/>	MULTIPLE COMPLETE <input type="checkbox"/>	FRACTURE TREATMENT <input type="checkbox"/>	ALTERING CASING <input type="checkbox"/>
SHOOT OR ACIDIZE <input type="checkbox"/>	ABANDON* <input type="checkbox"/>	SHOOTING OR ACIDIZING <input type="checkbox"/>	ABANDONMENT* <input type="checkbox"/>
REPAIR WELL <input type="checkbox"/>	CHANGE PLANS <input type="checkbox"/>	(Other) Status Update <input checked="" type="checkbox"/>	

(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

Drilled out cmt retainer to 7071 and pressure tested to 1000 psi for 30 min, OK. Drilled out and cleaned out to 7504. Circulated clean and POH. Ran production equipment, tail pipe landed at 7432. Began pump testing 2-23-85 Pump tested apx 20 days, last 24 hrs pumped 0 BO, 110 BW, and 0 MCF. Well is currently shut in for evaluation.

045 BLM, C 1-JRB 1-FJN 1-GCC

18. I hereby certify that the foregoing is true and correct
SIGNED **Mary C. Clark** TITLE **Asst. Admin. Analyst** DATE **4-2-85**

(This space for Federal or State office use)
ACCEPTED FOR RECORD
APPROVED BY _____ TITLE _____ DATE _____
CONDITIONS OF APPROVAL, IF ANY:

APR 11 1985

*See Instructions on Reverse Side

Section 1001, Title 18 U.S.C. makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

c15f

RECEIVED BY MAY 13 1985

UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT

LC-067858

WELL COMPLETION OR RECOMPLETION REPORT AND LOG*

1a. TYPE OF WELL: ARTESIA, OFFICE

1b. TYPE OF COMPLETION: NEW WELL, WORK OVER, DEEP-EN, PLUG BACK, DIFF. RESERV.

2. NAME OF OPERATOR: AMOCO PRODUCTION COMPANY

3. ADDRESS OF OPERATOR: P.O. Box 68 HOBBS, NM 88240

4. LOCATION OF WELL: 1650' FNL X 1653' FWL (Unit F, SE/4 NW/4)

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME: MALCO "S" FEDERAL

9. WELL NO.: 1

10. FIELD AND POOL, OR WILDCAT: Chalk Bluff Wolfcamp

11. SEC., T., R., M., OR BLOCK AND SURVEY OR AREA

12. COUNTY OR PARISH: EDDY

13. STATE: N.M.

14. PERMIT NO. DATE ISSUED

15. DATE STARTED: 1-21-85

16. DATE T.D. REACHED

17. DATE COMPL. (Ready to prod.)

18. ELEVATIONS (OF RKB, RT, GR, ETC.): 3587' RDB

19. ELEV. CASINGHEAD

20. TOTAL DEPTH, MD & TVD: 10,168'

21. PLUG, BACK T.D., MD & TVD: 7613'

22. IF MULTIPLE COMPL., HOW MANY*

23. INTERVALS DRILLED BY

24. PRODUCING INTERVAL(S), OF THIS COMPLETION—TOP, BOTTOM, SAME (MD AND TVD)*

25. WAS DIRECTIONAL SURVEY MADE

26. TYPE ELECTRIC AND OTHER LOGS RUN: CBL

27. WAS WELL CORED

28. CASING RECORD (Report all strings set in well)

Table with columns: CASING SIZE, WEIGHT, LB./FT., DEPTH SET (MD), HOLE SIZE, CEMENTING RECORD, AMOUNT PULLED

29. LINER RECORD

30. TUBING RECORD

31. PERFORATION RECORD (Interval, size and number)

32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.

33. PRODUCTION

34. DISPOSITION OF GAS (Sold, used for fuel, vented, etc.)

35. LIST OF ATTACHMENTS: Logs Mailed 1-31-85

36. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records

SIGNED: [Signature] TITLE: Administrative Analyst DATE: 6 MAY 1985

*(See Instructions and Spaces for Additional Data on Reverse Side)

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

ATE RIM-C, I-TRR, I-FSN, I-NIG

37. SUMMARY OF POROUS ZONES: (Show all important zones of porosity and contents thereof; cored intervals; and all drill-stem tests, including depth interval tested, cushion used, time tool open, flowing and shut-in pressures, and recoveries):

38. GEOLOGIC MARKERS

FORMATION	TOP	BOTTOM	DESCRIPTION, CONTENTS, ETC.	NAME	TOP	
					MEAS. DEPTH	TRUE VERT. DEPTH

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

SUBMIT IN TRIPlicate
(Other instruction
verse side)

Budget Bureau No. 1004-0135
Expires August 31, 1985

c/sf

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to re-enter a well. Use "APPLICATION FOR PERMIT TO DRILL" for proposals to drill or to re-enter a well. Use "APPLICATION FOR PERMIT TO RE-ENTER A WELL" for proposals to re-enter a well. Use "APPLICATION FOR PERMIT TO RE-ENTER A WELL" for proposals to re-enter a well.)

5. LEASE DESIGNATION AND SERIAL NO.
LC-067858

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME
Malco "5" Federal

9. WELL NO.

10. FIELD AND POOL, OR WILDCAT
Chalk Bluff Wolfcamp

11. SEC., T., R., M., BULK, AND SURVEY OR AREA
11-18-27

12. COUNTY OR TERRITORY
Eddy

13. STATE
NM

1. OIL WELL GAS WELL OTHER PxA

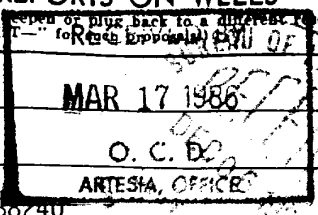
2. NAME OF OPERATOR
AMOCO PRODUCTION COMPANY

3. ADDRESS OF OPERATOR
P.O. BOX 68 HOBBS, NEW MEXICO 88240

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements. See also space 17 below.)
At surface
1650' FAL x 1653' FWL
(UNIT F, SE14, NW14)

14. PERMIT NO.
3001520510

15. ELEVATIONS (Show whether DF, RT, GR, etc.)
3587' RDB



16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:		SUBSEQUENT REPORT OF:	
TEST WATER SHUT-OFF <input type="checkbox"/>	PULL OR ALTER CASING <input type="checkbox"/>	WATER SHUT-OFF <input type="checkbox"/>	REPAIRING WELL <input type="checkbox"/>
FRACTURE TREAT <input type="checkbox"/>	MULTIPLE COMPLETE <input type="checkbox"/>	FRACTURE TREATMENT <input type="checkbox"/>	ALTERING CASING <input type="checkbox"/>
SHOOT OR ACIDIZE <input type="checkbox"/>	ABANDON* <input type="checkbox"/>	SHOOTING OR ACIDIZING <input type="checkbox"/>	ABANDONMENT* <input checked="" type="checkbox"/>
REPAIR WELL <input type="checkbox"/>	CHANGE PLANS <input type="checkbox"/>	(Other) <input type="checkbox"/>	

(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

1. MISU 11-25-85 and 10H with rods, pump, and tubing.
2. Ran CIBP and set at 6995'.
3. Ran free point log.
4. RIHW/tubing to 6950' and pumped 80 BBLs brine gel. Capped CIBP with 15 SX Class H cement.
5. Displaced hole with 150 BBL brine gel
6. Spotted 40 SX class H cement from 6400-6225' WOC. Tagged cement at 6211'.
7. Pulled tubing to 5350' and pumped 26 SX class C cement. Displaced w/ brine gel.
8. Perforated 1049-50' w/ 4 DRISPF. Established circulation out 11 3/4" casing.
9. Set Cement retainer at 950'. Squeezed w/ 350 SX class C cement. Circulated 17 SX out 11 3/4" casing.

0 + 5 BLM-CJ, 1 - JRB, 1 - FJN, 1 - CMH

18. I hereby certify that the foregoing is true and correct

SIGNED Charles M. Herring TITLE Administrative Analyst (SG) DATE 12/5/85

(This space for Federal or State office use)

APPROVED BY [Signature] TITLE _____ DATE 3-14-86

CONDITIONS OF APPROVAL, IF ANY:

Post FD-2
3-21-86
P4A

*See Instructions on Reverse Side

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

10. Spotted 105X class C cement surface plug.
11. Installed dry hole marker and MDSU 12-3-85.

NEW MEXICO
OIL CONSERVATION DIVISION
P. O. DRAWER DD
ARTESIA, NM 88210

DATE December 15, 1986

NOTICE OF GCNM'S GAS DISCONNECTION:

OPERATOR: Amoco Production Company

LEASE: Malco "S" Federal

WELL NUMBER: #1 WELL UNIT LETTER: F

SECTION: 11 TOWNSHIP: 18 RANGE: 27

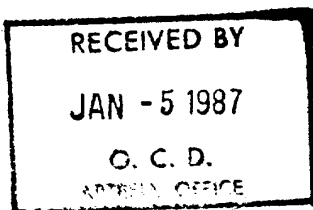
POOL: ~~Scroggin Draw Morrow~~ Chalk Bluff Wolfcamp

DATE WELL DISCONNECTED: 12/15/86

GCNM'S STATION NUMBER: 1890-00

GAS COMPANY OF NEW MEXICO
TRANSPORTER

Grady L. Gist
GRADY L. GIST
GAS CONTROL SUPERVISOR



cc: Oil Conservation Division
P. O. Box 2088
Santa Fe, NM 87501

Tom Sanders - Albuquerque
Carolyn Titus - Albuquerque
Merle Dennis - Kutz Canyon
Oil Conservation file
Grady Gist file

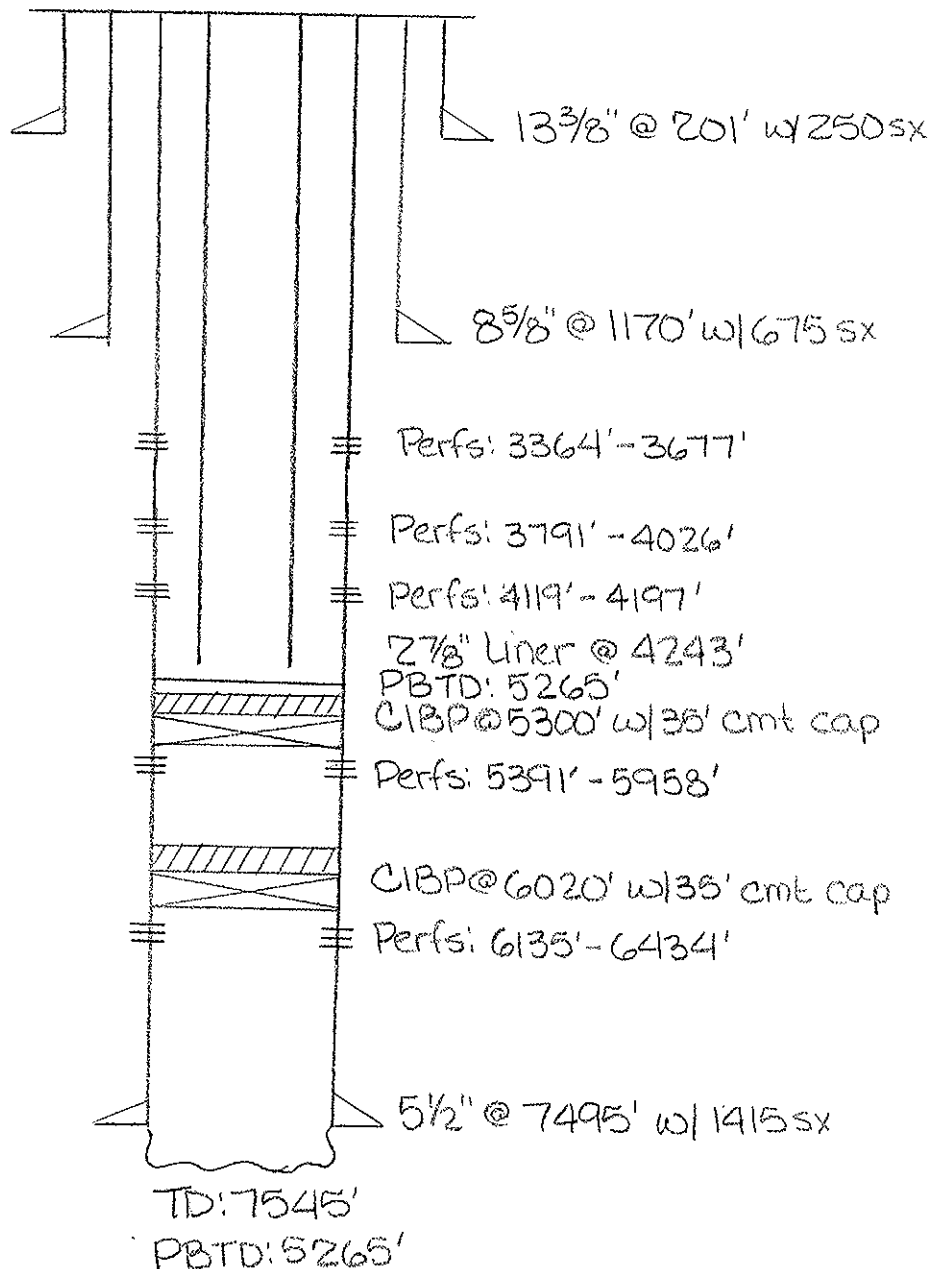
SUBSURFACE

NAVAJO REFINING COMPANY
Map ID No. 65
Artificial Penetration Review

OPERATOR Mack Energy Corp
LEASE State H
WELL NUMBER 2
DRILLED 10-31-07
PLUGGED NA

STATUS Active Oil
LOCATION Sec. 2 -T18S-R27E
MUD FILLED BOREHOLE NA
TOP OF INJECTION ZONE ~7215
API NO. 30-015-35814

REMARKS: Calc. Top of Cement behind 5 1/2" @ surface.



District II
1301 W. Grand Ave., Artesia, NM 88210
Phone:(505) 748-1283 Fax:(505) 748-9720

Form C-101
Permit 60506

State of New Mexico
Energy, Minerals and Natural Resources
Oil Conservation Division
1220 S. St Francis Dr.
Santa Fe, NM 87505

APPLICATION FOR PERMIT TO DRILL, RE-ENTER, DEEPEN, PLUGBACK, OR ADD A ZONE

1. Operator Name and Address MACK ENERGY CORP PO BOX 960 ARTESIA, NM 88211		2. OGRID Number 13837
		3. API Number 30-015-35814
4. Property Code 303847	5. Property Name STATE H	6. Well No. 002

7. Surface Location

UL - Lot	Section	Township	Range	Lot Idn	Feet From	N/S Line	Feet From	E/W Line	County
H	2	18S	27E	H	2063	N	441	E	EDDY

8. Pool Information

CHALK BLUFF, WOLFCAMP GAS	96963
---------------------------	-------

Additional Well Information

9. Work Type New Well	10. Well Type OIL	11. Cable/Rotary	12. Lease Type State	13. Ground Level Elevation 3590
14. Multiple N	15. Proposed Depth	16. Formation Wolfcamp	17. Contractor	18. Spud Date 9/20/2007
Depth to Ground water 50	Distance from nearest fresh water well		Distance to nearest surface water	
Pit: Liner: Synthetic <input type="checkbox"/> miles thick Clay <input type="checkbox"/> Pit Volume: bbls Drilling Method: Closed Loop System <input checked="" type="checkbox"/> Fresh Water <input type="checkbox"/> Brine <input type="checkbox"/> Diesel/Oil-based <input type="checkbox"/> Gas/Air <input type="checkbox"/>				

19. Proposed Casing and Cement Program

Type	Hole Size	Casing Type	Casing Weight/ft	Setting Depth	Sacks of Cement	Estimated TOC
Surf	12.25	8.625	24	360	400	0
Prod	7.875	5.5	17	7313	1300	0

Casing/Cement Program: Additional Comments

Mack Energy proposes to drill a 12 1/4 hole to 360', run 8 5/8 casing and cement. Drill a 7 7/8 hole to 7313', run 5 1/2 casing and cement. Note: On production string a fluid caliper will be run and will figure cement with 25% excess, attempt to circ.

Proposed Blowout Prevention Program

Type	Working Pressure	Test Pressure	Manufacturer
DoubleRam	2000	2000	

I hereby certify that the information given above is true and complete to the best of my knowledge and belief. I further certify that the drilling pit will be constructed according to NMOCB guidelines <input type="checkbox"/> , a general permit <input type="checkbox"/> , or an (attached) alternative OCD-approved plan <input type="checkbox"/> .	OIL CONSERVATION DIVISION	
	Approved By: Bryan Arant	
	Title: Geologist	
	Approved Date: 9/19/2007	Expiration Date: 9/19/2008
	Conditions of Approval Attached	
Printed Name: Electronically filed by Jerry Sherrill		
Title: Production Clerk		
Email Address: jerrys@mackenergycorp.com		
Date: 9/11/2007	Phone: 505-748-1288	

District I

1625 N. French Dr., Hobbs, NM 88240
Phone:(505) 393-6161 Fax:(505) 393-0720

District II

1301 W. Grand Ave., Artesia, NM 88210
Phone:(505) 748-1283 Fax:(505) 748-9720

District III

1000 Rio Brazos Rd., Aztec, NM 87410
Phone:(505) 334-6178 Fax:(505) 334-6170

District IV

1220 S. St Francis Dr., Santa Fe, NM 87505
Phone:(505) 476-3470 Fax:(505) 476-3462

Form C-102
Permit 60506

State of New Mexico
Energy, Minerals and Natural Resources

Oil Conservation Division
1220 S. St Francis Dr.
Santa Fe, NM 87505

WELL LOCATION AND ACREAGE DEDICATION PLAT

1. API Number 30-015-35814	2. Pool Code 96963	3. Pool Name CHALK BLUFF; WOLFCAMP GAS
4. Property Code 303847	5. Property Name STATE H	
6. Well No. 002	7. OGRID No. 13837	
8. Operator Name MACK ENERGY CORP		9. Elevation 3590

10. Surface Location

UL - Lot	Section	Township	Range	Lot Idn	Feet From	N/S Line	Feet From	E/W Line	County
H	2	18S	27E		2063	N	441	E	EDDY

11. Bottom Hole Location If Different From Surface

UL - Lot	Section	Township	Range	Lot Idn	Feet From	N/S Line	Feet From	E/W Line	County
H	2	18S	27E	H	2300	N	340	E	EDDY
12. Dedicated Acres 40.00		13. Joint or Infill		14. Consolidation Code			15. Order No.		

NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION

	OPERATOR CERTIFICATION	
	<p><i>I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location(s) or has a right to drill this well at this location pursuant to a contract with an owner of such a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.</i></p>	
	<p>E-Signed By: Jerry Sherrell Title: Production Clerk Date: 9/11/2007</p>	
	SURVEYOR CERTIFICATION	
<p><i>I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief.</i></p>		
<p>Surveyed By: Ronald Eidson Date of Survey: 8/28/2007 Certificate Number: 3239</p>		

Permit Comments

Operator: MACK ENERGY CORP , 13837

Well: STATE H #002

API: 30-015-35814

Created By	Comment	Comment Date
JWSHERRELL	H2S concentrations of wells in this area from surface to TD are low enough that a contingency plan is not required.	9/11/2007

Permit Conditions of Approval

Operator: MACK ENERGY CORP , 13837

Well: STATE H #002

API: 30-015-35814

OCD Reviewer	Condition
BArrant	Pit construction and closure must satisfy all requirements of your approved plan, O.C.D. Rule 19.15.2.50, and the Pit and Below-Grade Tank Guidelines
BArrant	As noted, operator to drill surface hole w/fresh water mud.
BArrant	Cement to cover all oil, gas and water bearing zones.

1 SEP 12 2007
OCD-ARTESIA



30-015-35814

Mack Energy Corp.

Eddy County, NM (NAD 27 NME)

State H #2

State H #2

Wellbore #1

Plan: Plan #1

Standard Planning Report

11 September, 2007







**Scientific Drilling
Planning Report**



Database:	EDM 2003.16 Single User Db	Local Co-ordinate Reference:	Well State H #2
Company:	Mack Energy Corp.	TVD Reference:	WELL @ 3606.00ft (KB Elev)
Project:	Eddy County, NM (NAD 27 NME)	MD Reference:	WELL @ 3606.00ft (KB Elev)
Site:	State H #2	North Reference:	Grid
Well:	State H #2	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Plan #1		

Project:	Eddy County, NM (NAD 27 NME)		
Map System:	US State Plane 1927 (Exact solution)	System Datum:	Mean Sea Level
Geo Datum:	NAD 1927 (NADCON CONUS)		
Map Zone:	New Mexico East 3001		

Site:	State H #2		
Site Position:	Northing:	646,629.20 ft	Latitude: 32° 46' 39.510 N
From: Map	Easting:	528,184.50 ft	Longitude: 104° 14' 29.874 W
Position Uncertainty:	0.00 ft	Slot Radius:	ft
		Grid Convergence:	0.05 °

Well:	State H #2		
Well Position	+N/-S	0.00 ft	Northing: 646,629.20 ft
	+E/-W	0.00 ft	Easting: 528,184.50 ft
			Latitude: 32° 46' 39.510 N
			Longitude: 104° 14' 29.874 W
Position Uncertainty	0.00 ft	Wellhead Elevation:	3,606.00 ft
			Ground Level: 0.00 ft

Wellbore:	Wellbore #1				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF200510	9/11/2007	8.37	60.68	49,269

Design:	Plan #1			
Audit Notes:				
Version:	Phase:	PLAN	Tie On Depth: 0.00	
Vertical Section:	Depth From (TVD)	+N/-S	+E/-W	Direction
	(ft)	(ft)	(ft)	(°)
	0.00	0.00	0.00	156.92

Plan Sections:										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	TFO (°)	Target
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
460.00	0.00	0.00	460.00	0.00	0.00	0.00	0.00	0.00	0.00	
768.78	6.18	156.92	768.18	-15.29	6.52	2.00	2.00	0.00	156.92	
2,854.52	6.18	156.92	2,841.82	-221.71	94.48	0.00	0.00	0.00	0.00	
3,163.30	0.00	0.00	3,150.00	-237.00	101.00	2.00	-2.00	0.00	180.00	
7,313.30	0.00	0.00	7,300.00	-237.00	101.00	0.00	0.00	0.00	0.00	PBHL-State H #1



Scientific Drilling
Planning Report



Database:	EDM 2003.16 Single User.Db	Local Co-ordinate Reference:	Well State H #2
Company:	Mack Energy Corp.	TVD Reference:	WELL @ 3606.00R (KB Elev)
Project:	Eddy County, NM (NAD 27 NME)	MD Reference:	WELL @ 3606.00R (KB Elev)
Site:	State H #2	North Reference:	Grid
Well:	State H #2	Survey Calculation Method:	Minimum Curvature
Wellbore Design:	Wellbore #1 Plan #1		

Planned Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
100.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00
200.00	0.00	0.00	200.00	0.00	0.00	0.00	0.00	0.00	0.00
300.00	0.00	0.00	300.00	0.00	0.00	0.00	0.00	0.00	0.00
400.00	0.00	0.00	400.00	0.00	0.00	0.00	0.00	0.00	0.00
460.00	0.00	0.00	460.00	0.00	0.00	0.00	0.00	0.00	0.00
KOP 460' Start 2.0°/100'									
500.00	0.80	156.92	500.00	-0.26	0.11	0.28	2.00	2.00	0.00
600.00	2.80	156.92	599.94	-3.15	1.34	3.42	2.00	2.00	0.00
700.00	4.80	156.92	699.72	-9.24	3.94	10.05	2.00	2.00	0.00
768.78	6.18	156.92	768.18	-15.29	6.52	16.62	2.00	2.00	0.00
EOC hold 6.18°									
800.00	6.18	156.92	799.22	-18.38	7.83	19.98	0.00	0.00	0.00
900.00	6.18	156.92	898.64	-28.28	12.05	30.74	0.00	0.00	0.00
1,000.00	6.18	156.92	998.06	-38.18	16.27	41.50	0.00	0.00	0.00
1,100.00	6.18	156.92	1,097.48	-48.07	20.49	52.26	0.00	0.00	0.00
1,200.00	6.18	156.92	1,196.90	-57.97	24.70	63.01	0.00	0.00	0.00
1,300.00	6.18	156.92	1,296.32	-67.87	28.92	73.77	0.00	0.00	0.00
1,400.00	6.18	156.92	1,395.74	-77.76	33.14	84.53	0.00	0.00	0.00
1,500.00	6.18	156.92	1,495.16	-87.66	37.36	95.29	0.00	0.00	0.00
1,600.00	6.18	156.92	1,594.58	-97.55	41.57	106.04	0.00	0.00	0.00
1,700.00	6.18	156.92	1,694.00	-107.45	45.79	116.80	0.00	0.00	0.00
1,800.00	6.18	156.92	1,793.42	-117.35	50.01	127.56	0.00	0.00	0.00
1,900.00	6.18	156.92	1,892.84	-127.24	54.23	138.32	0.00	0.00	0.00
2,000.00	6.18	156.92	1,992.26	-137.14	58.44	149.07	0.00	0.00	0.00
2,100.00	6.18	156.92	2,091.68	-147.04	62.66	159.83	0.00	0.00	0.00
2,200.00	6.18	156.92	2,191.10	-156.93	66.88	170.59	0.00	0.00	0.00
2,300.00	6.18	156.92	2,290.52	-166.83	71.10	181.35	0.00	0.00	0.00
2,400.00	6.18	156.92	2,389.94	-176.73	75.31	192.10	0.00	0.00	0.00
2,500.00	6.18	156.92	2,489.36	-186.62	79.53	202.86	0.00	0.00	0.00
2,600.00	6.18	156.92	2,588.78	-196.52	83.75	213.62	0.00	0.00	0.00
2,700.00	6.18	156.92	2,688.20	-206.41	87.97	224.38	0.00	0.00	0.00
2,800.00	6.18	156.92	2,787.62	-216.31	92.18	235.13	0.00	0.00	0.00
2,854.52	6.18	156.92	2,841.82	-221.71	94.48	241.00	0.00	0.00	0.00
Start Drop: 2.0°/100'									
2,900.00	5.27	156.92	2,887.07	-225.88	96.26	245.53	2.00	-2.00	0.00
3,000.00	3.27	156.92	2,986.79	-232.72	99.18	252.97	2.00	-2.00	0.00
3,100.00	1.27	156.92	3,086.71	-236.36	100.73	256.92	2.00	-2.00	0.00
3,163.30	0.00	0.00	3,150.00	-237.00	101.00	257.62	2.00	-2.00	0.00
EOC hold 0.0°									
3,200.00	0.00	0.00	3,186.70	-237.00	101.00	257.62	0.00	0.00	0.00
3,300.00	0.00	0.00	3,286.70	-237.00	101.00	257.62	0.00	0.00	0.00
3,400.00	0.00	0.00	3,386.70	-237.00	101.00	257.62	0.00	0.00	0.00
3,500.00	0.00	0.00	3,486.70	-237.00	101.00	257.62	0.00	0.00	0.00
3,600.00	0.00	0.00	3,586.70	-237.00	101.00	257.62	0.00	0.00	0.00
3,700.00	0.00	0.00	3,686.70	-237.00	101.00	257.62	0.00	0.00	0.00
3,800.00	0.00	0.00	3,786.70	-237.00	101.00	257.62	0.00	0.00	0.00
3,900.00	0.00	0.00	3,886.70	-237.00	101.00	257.62	0.00	0.00	0.00
4,000.00	0.00	0.00	3,986.70	-237.00	101.00	257.62	0.00	0.00	0.00
4,100.00	0.00	0.00	4,086.70	-237.00	101.00	257.62	0.00	0.00	0.00
4,200.00	0.00	0.00	4,186.70	-237.00	101.00	257.62	0.00	0.00	0.00
4,300.00	0.00	0.00	4,286.70	-237.00	101.00	257.62	0.00	0.00	0.00
4,400.00	0.00	0.00	4,386.70	-237.00	101.00	257.62	0.00	0.00	0.00



Scientific Drilling
Planning Report



Database:	EDM 2003.16 Single User Db	Local Co-ordinate Reference:	Well State H #2
Company:	Mack Energy Corp.	TVD Reference:	WELL @ 3606.00ft (KB Elev)
Project:	Eddy County, NM (NAD 27, NME)	MD Reference:	WELL @ 3606.00ft (KB Elev)
Site:	State H #2	North Reference:	Grid
Well:	State H #2	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Plan #1		

Planned Survey										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/S (ft)	+E/W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	
4,500.00	0.00	0.00	4,486.70	-237.00	101.00	257.62	0.00	0.00	0.00	
4,600.00	0.00	0.00	4,586.70	-237.00	101.00	257.62	0.00	0.00	0.00	
4,700.00	0.00	0.00	4,686.70	-237.00	101.00	257.62	0.00	0.00	0.00	
4,800.00	0.00	0.00	4,786.70	-237.00	101.00	257.62	0.00	0.00	0.00	
4,900.00	0.00	0.00	4,886.70	-237.00	101.00	257.62	0.00	0.00	0.00	
5,000.00	0.00	0.00	4,986.70	-237.00	101.00	257.62	0.00	0.00	0.00	
5,100.00	0.00	0.00	5,086.70	-237.00	101.00	257.62	0.00	0.00	0.00	
5,200.00	0.00	0.00	5,186.70	-237.00	101.00	257.62	0.00	0.00	0.00	
5,300.00	0.00	0.00	5,286.70	-237.00	101.00	257.62	0.00	0.00	0.00	
5,400.00	0.00	0.00	5,386.70	-237.00	101.00	257.62	0.00	0.00	0.00	
5,500.00	0.00	0.00	5,486.70	-237.00	101.00	257.62	0.00	0.00	0.00	
5,600.00	0.00	0.00	5,586.70	-237.00	101.00	257.62	0.00	0.00	0.00	
5,700.00	0.00	0.00	5,686.70	-237.00	101.00	257.62	0.00	0.00	0.00	
5,800.00	0.00	0.00	5,786.70	-237.00	101.00	257.62	0.00	0.00	0.00	
5,900.00	0.00	0.00	5,886.70	-237.00	101.00	257.62	0.00	0.00	0.00	
6,000.00	0.00	0.00	5,986.70	-237.00	101.00	257.62	0.00	0.00	0.00	
6,100.00	0.00	0.00	6,086.70	-237.00	101.00	257.62	0.00	0.00	0.00	
6,200.00	0.00	0.00	6,186.70	-237.00	101.00	257.62	0.00	0.00	0.00	
6,300.00	0.00	0.00	6,286.70	-237.00	101.00	257.62	0.00	0.00	0.00	
6,400.00	0.00	0.00	6,386.70	-237.00	101.00	257.62	0.00	0.00	0.00	
6,500.00	0.00	0.00	6,486.70	-237.00	101.00	257.62	0.00	0.00	0.00	
6,600.00	0.00	0.00	6,586.70	-237.00	101.00	257.62	0.00	0.00	0.00	
6,700.00	0.00	0.00	6,686.70	-237.00	101.00	257.62	0.00	0.00	0.00	
6,800.00	0.00	0.00	6,786.70	-237.00	101.00	257.62	0.00	0.00	0.00	
6,900.00	0.00	0.00	6,886.70	-237.00	101.00	257.62	0.00	0.00	0.00	
7,000.00	0.00	0.00	6,986.70	-237.00	101.00	257.62	0.00	0.00	0.00	
7,100.00	0.00	0.00	7,086.70	-237.00	101.00	257.62	0.00	0.00	0.00	
7,200.00	0.00	0.00	7,186.70	-237.00	101.00	257.62	0.00	0.00	0.00	
7,300.00	0.00	0.00	7,286.70	-237.00	101.00	257.62	0.00	0.00	0.00	
7,313.30	0.00	0.00	7,300.00	-237.00	101.00	257.62	0.00	0.00	0.00	

East HL-State H #1 - PBHL-State H #1 - South HL-State H #1

Targets										
Target Name	hit/miss target	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/S (ft)	+E/W (ft)	Northing (ft)	Easting (ft)	Latitude	Longitude
PBHL-State H #1	- plan hits target - Circle (radius 10.00)	0.00	0.00	7,300.00	-237.00	101.00	646,392.20	528,285.50	32° 46' 37.164 N	104° 14' 28.693 W
South HL-State H #1	- plan misses by 14.14ft at 7313.30ft MD (7300.00 TVD, -237.00 N, 101.00 E) - Rectangle (sides W0.00 H200.00 D0.00)	0.00	0.00	7,300.00	-247.00	111.00	646,382.20	528,295.50	32° 46' 37.065 N	104° 14' 28.576 W
East HL-State H #1	- plan misses by 14.14ft at 7313.30ft MD (7300.00 TVD, -237.00 N, 101.00 E) - Rectangle (sides W800.00 H0.00 D0.00)	0.00	0.00	7,300.00	-247.00	111.00	646,382.20	528,295.50	32° 46' 37.065 N	104° 14' 28.576 W



Scientific Drilling
Planning Report

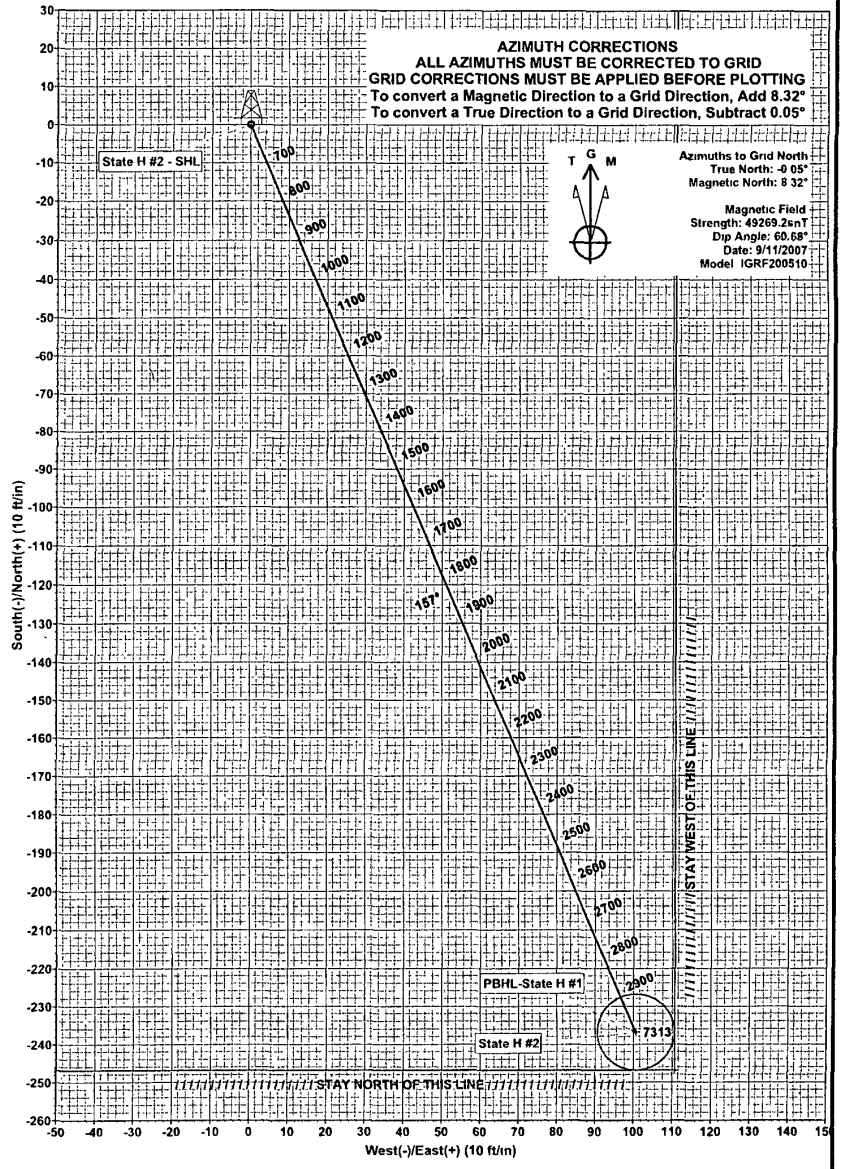
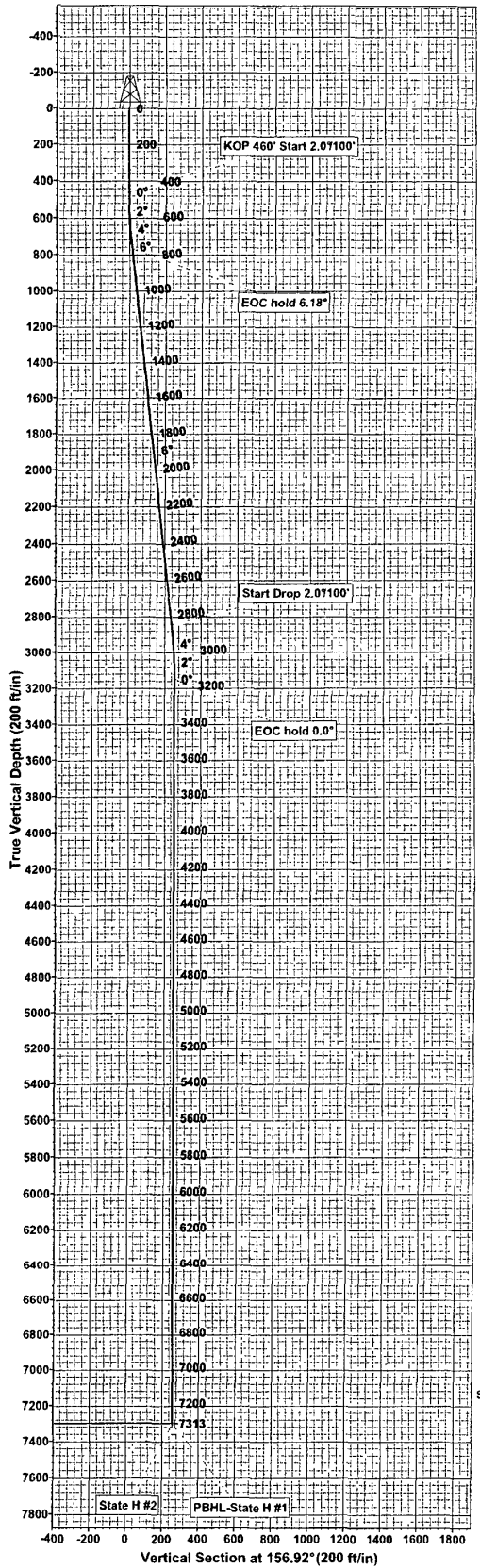


Database:	EDM 2003.16 Single User Db	Local Co-ordinate Reference:	Well State H #2
Company:	Mack Energy Corp.	TVD Reference:	WELL @ 3606.00ft (KB Elev)
Project:	Eddy County, NM (NAD 27 NME)	MD Reference:	WELL @ 3606.00ft (KB Elev)
Site:	State H #2	North Reference:	Grd
Well:	State H #2	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Plan #1		

Plan Annotations				
Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates		Comment
		+N/-S (ft)	+E/-W (ft)	
460.00	460.00	0.00	0.00	KOP 460' Start 2.0°/100'
768.78	768.18	-15.29	6.52	EOC hold 6.18°
2,854.52	2,841.82	-221.71	94.48	Start Drop 2.0°/100'
3,163.30	3,150.00	-237.00	101.00	EOC hold 0.0°



Scientific Drilling for Mack Energy Corp.
 Site: Eddy County, NM (NAD 27 NME)
 Well: State H #2
 Wellbore: Wellbore #1
 Design: Plan #1



SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	DLeg	TFace	VSec	Target
1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2	460.00	0.00	0.00	460.00	0.00	0.00	0.00	0.00	0.00	
3	768.78	6.18	156.92	768.18	-15.29	6.52	2.00	156.92	16.62	
4	2854.52	6.18	156.92	2841.82	-221.71	94.48	0.00	0.00	241.00	
5	3163.30	0.00	0.00	3150.00	-237.00	101.00	2.00	180.00	257.62	
6	7313.30	0.00	0.00	7300.00	-237.00	101.00	0.00	0.00	257.62	PBHL-State H #1

WELL DETAILS: State H #2

+N/-S	+E/-W	Northing	Easting	Ground Level	Latitude	Longitude	Slot
0.00	0.00	646629.20	528184.50	0.00	32°46' 39.510 N 104°14' 28.576 W	29.874 W	

WELLBORE TARGET DETAILS (MAP CO-ORDINATES)

Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Shape
East HL-State H #1	7300.00	-247.00	111.00	646382.20	528295.50	32°46' 37.065 N 104°14' 28.576 W	28.576 W	Rectangle (Si des. L800.00 W0.00)
PBHL-State H #1	7300.00	-237.00	101.00	646392.20	528285.50	32°46' 37.164 N 104°14' 28.893 W	28.893 W	Circle (Radius: 10.00)
South HL-State H #1	7300.00	-247.00	111.00	646382.20	528295.50	32°46' 37.065 N 104°14' 28.576 W	28.576 W	Rectangle (S des. L0.00 W200.00)

PROJECT DETAILS: Eddy County, NM (NAD 27 NME)

Geodetic System: US State Plane 1927 (Exact solution)
 Datum: NAD 1927 (NADCON CONUS)
 Ellipsoid: Clarke 1866
 Zone: New Mexico East 3001
 System Datum: Mean Sea Level

Plan: Plan #1 (State H #2/Wellbore #1)

Created By: Julio Pina Date: 11-Sep-07
 Checked: _____ Date: _____
 Reviewed: _____ Date: _____
 Approved: _____ Date: _____

Submit 3 Copies To Appropriate District Office
 District I
 1625 N French Dr, Hobbs, NM 88240
 District II
 1301 W Grand Ave, Artesia, NM 88210
 District III
 1000 Rio Brazos Rd, Aztec, NM 87410
 District IV
 1220 S St Francis Dr, Santa Fe, NM 87505

State of New Mexico
 Energy, Minerals and Natural Resources

Form C-103
 May 27, 2004

OIL CONSERVATION DIVISION
 1220 South St. Francis Dr.
 Santa Fe, NM 87505

SUNDRY NOTICES AND REPORTS ON WELLS (DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO DEEPEN OR PLUG BACK TO A DIFFERENT RESERVOIR USE "APPLICATION FOR PERMIT" (FORM C-101) FOR SUCH PROPOSALS) 1. Type of Well: Oil Well <input type="checkbox"/> Gas Well <input checked="" type="checkbox"/> Other		WELL API NO. 30-015-35814
2. Name of Operator Mack Energy Corporation		5. Indicate Type of Lease STATE <input checked="" type="checkbox"/> FEE <input type="checkbox"/>
3. Address of Operator P. O. Box 960 Artesia, NM 88211-0960		6. State Oil & Gas Lease No. B-9391
4. Well Location Unit Letter <u>H</u> <u>2063</u> feet from the <u>North</u> line and <u>441</u> feet from the <u>East</u> line Section <u>2</u> Township <u>18S</u> Range <u>27E</u> NMPM County <u>Eddy</u>		7. Lease Name or Unit Agreement Name State H
11. Elevation (Show whether DR, RKB, RT, GR, etc.) 3590' GR		8. Well Number <u>2</u>
Pit or Below-grade Tank Application <input type="checkbox"/> or Closure <input type="checkbox"/>		9. OGRID Number 013837
Pit type _____ Depth Groundwater _____ Distance from nearest fresh water well _____ Distance from nearest surface water _____		10. Pool name or Wildcat Chalk Bluff Wolfcamp
Pit Liner Thickness: _____ mil Below-Grade Tank: Volume _____ bbls; Construction Material _____		

12. Check Appropriate Box to Indicate Nature of Notice, Report or Other Data

NOTICE OF INTENTION TO: PERFORM REMEDIAL WORK <input type="checkbox"/> PLUG AND ABANDON <input type="checkbox"/> TEMPORARILY ABANDON <input type="checkbox"/> CHANGE PLANS <input type="checkbox"/> PULL OR ALTER CASING <input type="checkbox"/> MULTIPLE COMPL <input type="checkbox"/>		SUBSEQUENT REPORT OF: REMEDIAL WORK <input type="checkbox"/> ALTERING CASING <input type="checkbox"/> COMMENCE DRILLING OPNS. <input type="checkbox"/> P AND A <input type="checkbox"/> CASING/CEMENT JOB <input type="checkbox"/>	
OTHER: <u>Change casing</u> <input checked="" type="checkbox"/>		OTHER: _____ <input type="checkbox"/>	

13. Describe proposed or completed operations. (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work). SEE RULE 1103. For Multiple Completions: Attach wellbore diagram of proposed completion or recompletion.

Mack Energy would like to change the casing string approved on this APD.

- Drill a 17 1/2" hole to 200', run 13 3/8" 48# H-40 casing and cement.
- Drill a 12 1/4" hole to 1150', run 8 5/8" 24# J-55 casing and cement.
- Drill a 7 7/8" hole to approximately 7300', run 5 1/2" 17# L-80 casing and cement.

OCT 22 2007
 OCD-ARTESIA

I hereby certify that the information above is true and complete to the best of my knowledge and belief. I further certify that any pit or below-grade tank has been/will be constructed or closed according to NMOCD guidelines , a general permit or an (attached) alternative OCD-approved plan

SIGNATURE Jerry W. Sherrell TITLE Production Clerk DATE 10/19/07

Type or print name Jerry W. Sherrell E-mail address: jerrys@mackenergycorp.com Telephone No (505)748-1288

For State Use Only

APPROVED BY: BRYAN G. ARRANT TITLE DISTRICT II GEOLOGIST DATE OCT 22 2007
 Conditions of Approval (if any): _____



Mack Energy Corp.

Eddy County, NM (NAD 27 NME)

State H #2

State H #2

Wellbore #1

OCT 22 2007

OCD-ARTESIA

Plan: Plan #2

Standard Planning Report

19 October, 2007





Scientific Drilling
Planning Report



Database:	EDM 2003 16 Single User Db	Local Co-ordinate Reference:	Well State H #2
Company:	Mack Energy Corp	TVD Reference:	WELL @ 3606 00ft (KB Elev)
Project:	Eddy County, NM (NAD 27 NME)	MD Reference:	WELL @ 3606 00ft (KB Elev)
Site:	State H #2	North Reference:	Grid
Well:	State H #2	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Plan #2		

Project	Eddy County, NM (NAD 27 NME)		
Map System:	US State Plane 1927 (Exact solution)	System Datum:	Mean Sea Level
Geo Datum:	NAD 1927 (NADCON CONUS)		
Map Zone:	New Mexico East 3001		

Site	State H #2		
Site Position:	Northing:	646,629 20ft	Latitude: 32° 46' 39 510 N
From: Map	Easting:	528,184 50ft	Longitude: 104° 14' 29 874 W
Position Uncertainty:	0 00 ft	Slot Radius:	ft
			Grid Convergence: 0 05 °

Well	State H #2		
Well Position	+N/-S	0 00 ft	Northing: 646,629 20 ft
	+E/-W	0 00 ft	Easting: 528,184 50 ft
			Latitude: 32° 46' 39 510 N
			Longitude: 104° 14' 29 874 W
Position Uncertainty	0 00 ft	Wellhead Elevation:	3,606 00 ft
			Ground Level: 0 00 ft

Wellbore	Wellbore #1				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF200510	10/19/2007	8 36	60 68	49,259

Design	Plan #2			
Audit Notes:				
Version:	Phase:	PLAN	Tie On Depth:	0 00
Vertical Section:	Depth From (TVD) (ft)	+N/-S (ft)	+E/-W (ft)	Direction (°)
	0.00	0 00	0 00	156 92

Plan Sections										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	TFO (°)	Target
0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00
1,250 00	0 00	0 00	1,250 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00
1,785 00	10 70	156.92	1,781.89	-45.82	19 53	2 00	2 00	0 00	156 92	
2,636 01	10 70	156.92	2,618 11	-191 18	81 47	0 00	0 00	0 00	0 00	
3,171 01	0 00	0 00	3,150 00	-237 00	101 00	2 00	-2 00	0 00	180 00	
7,321 01	0 00	0 00	7,300 00	-237.00	101 00	0 00	0 00	0 00	0 00	PBHL-State H #1



Scientific Drilling
Planning Report



Database:	EDM 2003 16 Single User Db	Local Co-ordinate Reference:	Well State H #2
Company:	Mack Energy Corp	TVD Reference:	WELL @ 3606.00ft (KB Elev)
Project:	Eddy County, NM (NAD 27 NME)	MD Reference:	WELL @ 3606 00ft (KB Elev)
Site:	State H #2	North Reference:	Grid
Well:	State H #2	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Plan #2		

Planned Survey										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	
0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00
1,150 00	0 00	0 00	1,150 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00
8 5/8" Casing										
1,250 00	0 00	0 00	1,250 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00
KOP 1250' Start 2.0°/100'										
1,300 00	1 00	156 92	1,299 99	-0 40	0 17	0 44	2 00	2 00	2 00	0 00
1,400 00	3 00	156 92	1,399 93	-3 61	1 54	3 93	2 00	2 00	2 00	0 00
1,500 00	5 00	156 92	1,499 68	-10 03	4 27	10 90	2 00	2 00	2 00	0 00
1,600 00	7 00	156 92	1,599 13	-19 64	8 37	21 35	2 00	2 00	2 00	0 00
1,700 00	9 00	156 92	1,698 15	-32 45	13 83	35 27	2 00	2 00	2 00	0 00
1,785 00	10 70	156 92	1,781 90	-45 82	19 53	49 81	2 00	2 00	2 00	0 00
EOC hold 10.70°										
1,800 00	10 70	156 92	1,796.63	-48 38	20 62	52 59	0 00	0 00	0 00	0 00
1,900 00	10 70	156 92	1,894 89	-65 46	27 90	71 16	0 00	0 00	0 00	0 00
2,000 00	10 70	156 92	1,993 15	-82 54	35 18	89 73	0 00	0 00	0 00	0 00
2,100 00	10 70	156 92	2,091 41	-99 63	42 46	108.29	0 00	0 00	0 00	0 00
2,200 00	10 70	156 92	2,189 68	-116 71	49.74	126 86	0 00	0 00	0 00	0 00
2,300.00	10 70	156.92	2,287 94	-133 79	57.01	145 43	0 00	0 00	0 00	0 00
2,400 00	10 70	156.92	2,386 20	-150 87	64.29	163 99	0 00	0 00	0 00	0 00
2,500 00	10 70	156 92	2,484 46	-167 95	71.57	182 56	0 00	0 00	0 00	0 00
2,599 99	10 70	156 92	2,582 72	-185 03	78 85	201 13	0 00	0 00	0 00	0 00
2,636 01	10 70	156 92	2,618 11	-191 18	81 47	207 81	0 00	0 00	0 00	0 00
Start Drop 2.0°/100'										
2,699 99	9.42	156.92	2,681 11	-201 46	85 85	218 99	2 00	-2 00	0 00	0 00
2,799 99	7 42	156 92	2,780 03	-214 93	91 59	233 63	2 00	-2 00	0 00	0 00
2,899 99	5.42	156.92	2,879 39	-225 22	95.98	244 81	2 00	-2 00	0 00	0 00
2,999 99	3 42	156 92	2,979 09	-232 31	99 00	252 52	2 00	-2 00	0 00	0 00
3,099 99	1 42	156 92	3,079 00	-236 19	100 65	256 74	2 00	-2 00	0 00	0 00
3,171.01	0 00	0 00	3,150 00	-237 00	101 00	257.62	2 00	-2 00	0 00	0 00
EOC hold 0.0°										
7,321 01	0 00	0 00	7,300.00	-237 00	101 00	257 62	0 00	0 00	0 00	0 00
East HL-State H #1 - PBHL-State H #1 - South HL-State H #1										

Targets										
Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (ft)	Easting (ft)	Latitude	Longitude	
PBHL-State H #1 - hit/miss target - Shape	0 00	0 00	7,300 00	-237 00	101.00	646,392 20	528,285 50	32° 46' 37 164 N	104° 14' 28.693 W	
- plan hits target - Circle (radius 10 00)										
South HL-State H #1 - plan misses by 14 14ft at 7321.01ft MD (7300.00 TVD, -237 00 N, 101.00 E) - Rectangle (sides W0 00 H200.00 D0.00)	0 00	0 00	7,300 00	-247 00	111 00	646,382 20	528,295 50	32° 46' 37 065 N	104° 14' 28 576 W	
East HL-State H #1 - plan misses by 14 14ft at 7321 01ft MD (7300 00 TVD, -237.00 N, 101.00 E) - Rectangle (sides W800 00 H0 00 D0 00)	0 00	0 00	7,300 00	-247 00	111 00	646,382.20	528,295 50	32° 46' 37 065 N	104° 14' 28.576 W	



Scientific Drilling
Planning Report



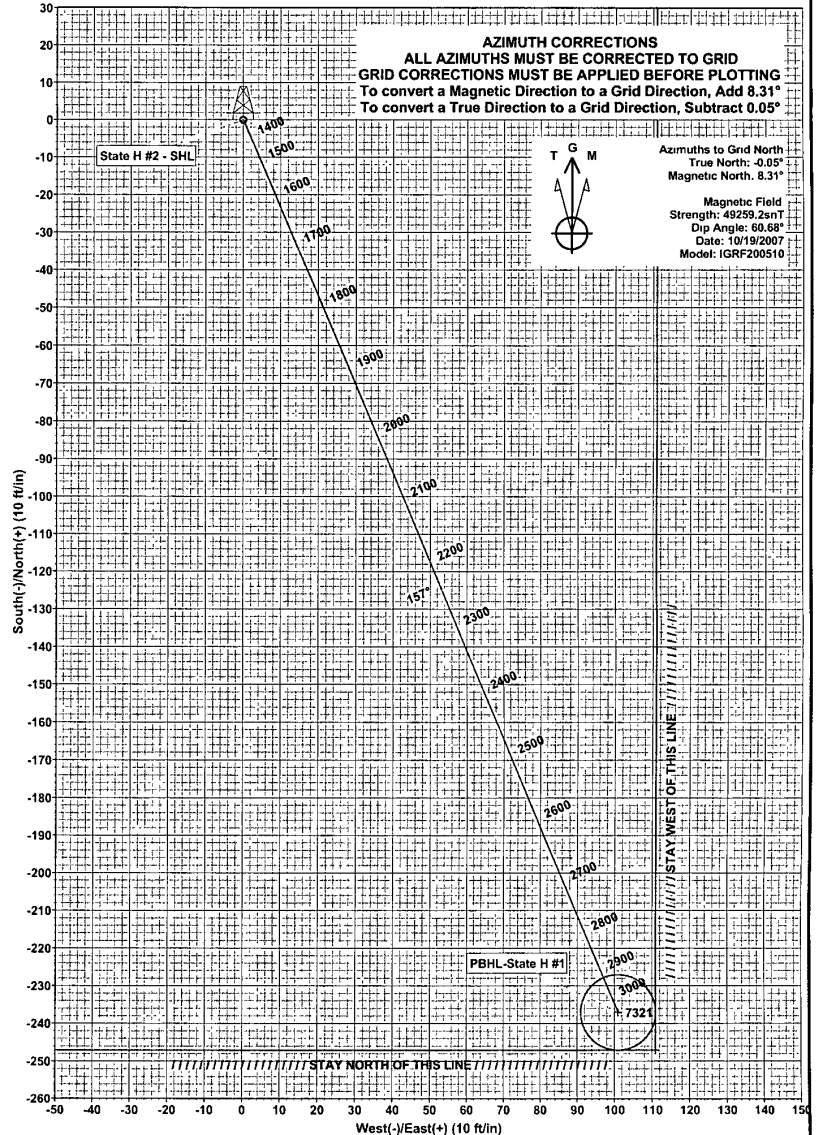
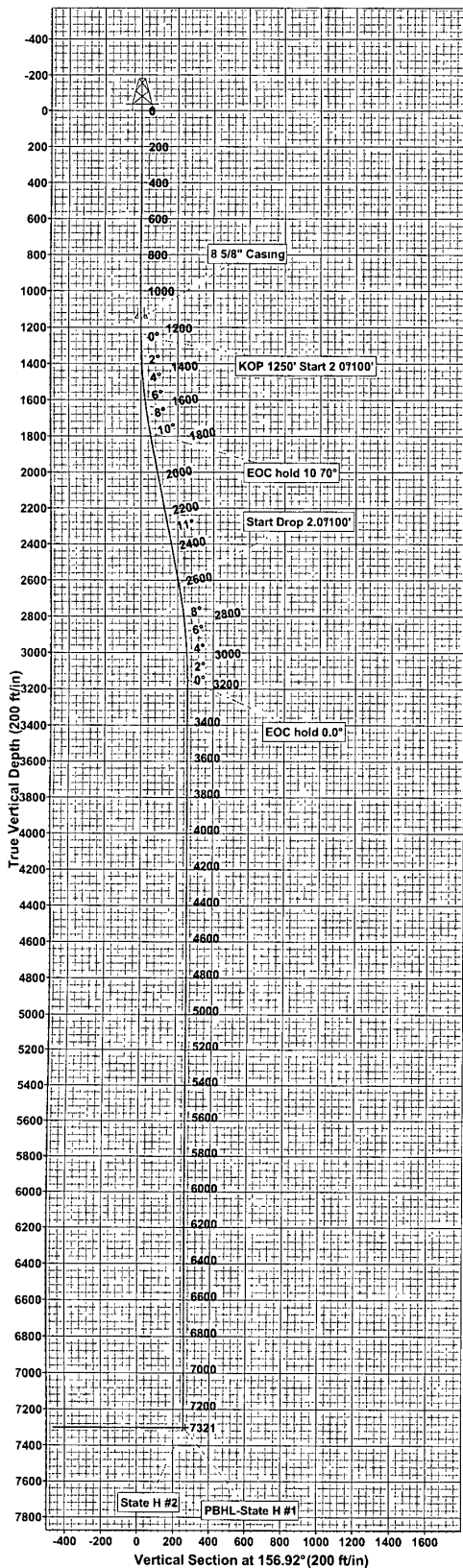
Database:	EDM 2003.16 Single User Db	Local Co-ordinate Reference:	Well State H #2
Company:	Mack Energy Corp	TVD Reference:	WELL @ 3606 00ft (KB Elev)
Project:	Eddy County, NM (NAD 27 NME)	MD Reference:	WELL @ 3606 00ft (KB Elev)
Site:	State H #2	North Reference:	Grid
Well:	State H #2	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Plan #2		

Casing Points				
Measured Depth (ft)	Vertical Depth (ft)	Name	Casing Diameter (ft)	Hole Diameter (ft)
1,150 00	1,150 00	8 5/8" Casing	8 62500	12.25000

Plan Annotations					
Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates		Comment	
		+N/-S (ft)	+E/-W (ft)		
1,250 00	1,250 00	0 00	0 00	KOP 1250' Start 2 0°/100'	
1,785 00	1,781 90	-45 82	19 53	EOC hold 10.70°	
2,636 01	2,618 11	-191 18	81 47	Start Drop 2 0°/100'	
3,171 01	3,150 00	-237 00	101 00	EOC hold 0 0°	



Scientific Drilling for Mack Energy Corp.
 Site: Eddy County, NM (NAD 27 NME)
 Well: State H #2
 Wellbore: Wellbore #1
 Design: Plan #2



SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	DLeg	TFace	VSec	Target
1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2	1250.00	0.00	0.00	1250.00	0.00	0.00	0.00	0.00	0.00	
3	1785.00	10.70	156.92	1781.89	-45.82	19.53	2.00	156.92	49.81	
4	2636.01	10.70	156.92	2618.11	-191.18	81.47	0.00	0.00	207.81	
5	3171.01	0.00	0.00	3150.00	-237.00	101.00	2.00	180.00	257.62	
6	7321.01	0.00	0.00	7300.00	-237.00	101.00	0.00	0.00	257.62	PBHL-State H #1

WELL DETAILS: State H #2

Ground Level		Easting		Latitude		Longitude		Slot	
+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Slot			
0.00	0.00	646629.20	528184.50	32°46'39.510 N	104°14'28.576 W	29.874 W			

WELLBORE TARGET DETAILS (MAP CO-ORDINATES)

Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Shape
East HL-State H #1	7300.00	-247.00	111.00	646382.20	528295.50	32°46'37.065 N	104°14'28.576 W	Rectangle (S _i des: L800 00 W0.00)
PBHL-State H #1	7300.00	-237.00	101.00	646392.20	528285.50	32°46'37.164 N	104°14'28.693 W	Circle (Radius: 10.00)
South HL-State H #1	7300.00	-247.00	111.00	646382.20	528295.50	32°46'37.065 N	104°14'28.576 W	Rectangle (S _i des: L0 00 W200 00)

PROJECT DETAILS: Eddy County, NM (NAD 27 NME) Plan: Plan #2 (State H #2/Wellbore #1)

Geodetic System: US State Plane 1927 (Exact solution) Created By: Julio Pina Date: 19-Oct-07
 Datum: NAD 1927 (NADCON CONUS) Checked: _____ Date: _____
 Ellipsoid: Clarke 1866 Reviewed: _____ Date: _____
 Zone: New Mexico East 3001 Approved: _____ Date: _____
 System Datum: Mean Sea Level

District I

1625 N. French Dr., Hobbs, NM 88240
Phone:(505) 393-6161 Fax:(505) 393-0720

District II

1301 W. Grand Ave., Artesia, NM 88210
Phone:(505) 748-1283 Fax:(505) 748-9720

District III

1000 Rio Brazos Rd., Aztec, NM 87410
Phone:(505) 334-6178 Fax:(505) 334-6170

District IV

1220 S. St Francis Dr., Santa Fe, NM 87505
Phone:(505) 476-3470 Fax:(505) 476-3462

State of New Mexico

Energy, Minerals and Natural Resources

Form C-103
Permit 65781

Oil Conservation Division
1220 S. St Francis Dr.
Santa Fe, NM 87505

SUNDRY NOTICES AND REPORTS ON WELLS (DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO DEEPEN OR PLUG BACK TO A DIFFERENT RESERVIOR. USE "APPLICATION FOR PERMIT" (FORM C-101) FOR SUCH PROPOSALS.)		WELL API NUMBER 30-015-35814
1. Type of Well: <input type="radio"/>		5. Indicate Type of Lease S
2. Name of Operator MACK ENERGY CORP		6. State Oil & Gas Lease No.
3. Address of Operator PO BOX 960 , , 11352 LOVINGTON HWY ARTESIA , NM 88211		7. Lease Name or Unit Agreement Name STATE H
4. Well Location Unit Letter <u>H</u> : <u>2063</u> feet from the <u>N</u> line and <u>441</u> feet from the <u>E</u> line Section <u>2</u> Township <u>18S</u> Range <u>27E</u> NMPM <u>Eddy</u> County		8. Well Number 002
11. Elevation (Show whether DR, KB, B T, GR, etc.) 3590 GR		9. OGRID Number 13837
Pit or Below-grade Tank Application <input type="checkbox"/> or Closure <input type="checkbox"/>		10. Pool name or Wildcat
Pit Type _____ Depth to Groundwater _____ Distance from nearest fresh water well _____ Distance from nearest surface water _____ Pit Liner Thickness: _____ mil Below-Grade Tank: Volume _____ bbls; Construction Material _____		

12. Check Appropriate Box to Indicate Nature of Notice, Report or Other Data

NOTICE OF INTENTION TO:

PERFORM REMEDIAL WORK PLUG AND ABANDON TEMPORARILY ABANDON CHANGE OF PLANS PULL OR ALTER CASING MULTIPLE COMPL

Other:

SUBSEQUENT REPORT OF:

REMEDIAL WORK ALTER CASING COMMENCE DRILLING OPNS. PLUG AND ABANDON CASING/CEMENT JOB Other: **Drilling/Cement**

13. Describe proposed or completed operations. (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work.) SEE RULE 1103. For Multiple Completions: Attach wellbore diagram of proposed completion or recompletion.

10/31/2007 Spud 17 1/2 hole @ 10:00pm.

11/1/2007 TD @ 201. Ran 5jts 13 3/8 H-40 43# @ 201', Cmt w/250sx C+2%CC, circ 104sx, plug down 12:20pm. WOC 18hrs test to 1800# 30min, OK.

11/4/2007 TD 12 1/4 hole @ 1165'.

11/5/2007 Ran 27jts 8 5/8 J-55 32# @ 1170'. Cmt w/475sx C, 200sx C+2%CC, circ 218sx, plug down 3:00am. WOC 12hrs test to 600# 30min, OK.

11/20/2007 TD @ 7545'.

11/22/2007 Ran 177jts 5 1/2 J-55 17# @ 7495', Cmt w/530sx C, circ 217sx. 2nd stage 365sx C, 520sx C, plug down 6:55pm, circ 200sx. WOC 12hrs test to 600# 20min, OK.

10/31/2007 Spudded well.

Casing and Cement Program

Date	String	Fluid Type	Hole Size	Csg Size	Weight lb/ft	Grade	Est TOC	Dpth Set	Sacks	Yield	Class	1" Dpth	Pres Held	Pres Drop	Open Hole
11/01/07	Surf	FreshWater	17.5	13.375	48	H-40	0	201	250		C		1800	0	Y
11/05/07	Int1	FreshWater	12.25	8.625	32	J-55	0	1170	675		C		600	0	Y
11/22/07	Prod	CutBrine	7.875	5.5	17	J-55	0	7495	1415		C		600	0	Y

I hereby certify that the information above is true and complete to the best of my knowledge and belief. I further certify that any pit or below-grade tank has been/will be constructed or closed according to NMOCD guidelines , a general permit or an (attached) alternative OCD-approved plan .

SIGNATURE Electronically Signed

TITLE Production Clerk

DATE 12/11/2007

Type or print name Jerry Sherrill

E-mail address jerrys@mackenergycorp.com Telephone No. 505-748-1288

For State Use Only:

APPROVED BY: Bryan Arrant

TITLE Geologist

DATE 12/12/2007 7:46:02 AM

Submit 3 Copies To Appropriate District Office
 District I
 1625 N French Dr, Hobbs, NM 88240
 District II
 1301 W Grand Ave, Artesia, NM 88210
 District III
 1000 Rio Brazos Rd, Aztec, NM 87410
 District IV
 1220 S St Francis Dr, Santa Fe, NM 87505

State of New Mexico
 Energy, Minerals and Natural Resources

Form C-103
 May 27, 2004

OIL CONSERVATION DIVISION
 1220 South St. Francis Dr.
 Santa Fe, NM 87505

WELL API NO. 30-015-35814	
5. Indicate Type of Lease STATE <input checked="" type="checkbox"/> FEE <input type="checkbox"/>	
6. State Oil & Gas Lease No. B-9391	
7. Lease Name or Unit Agreement Name State H	
8. Well Number 2	
9. OGRID Number 013837	
10. Pool name or Wildcat Red Lake; Glorieta-Yeso NE	
SUNDRY NOTICES AND REPORTS ON WELLS (DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO DEEPEN OR PLUG BACK TO A DIFFERENT RESERVOIR USE "APPLICATION FOR PERMIT" (FORM C-101) FOR SUCH PROPOSALS)	
1. Type of Well: Oil Well <input checked="" type="checkbox"/> Gas Well <input type="checkbox"/> Other <input type="checkbox"/> FEB 26 2008	
2. Name of Operator Mack Energy Corporation OCD-ARTESIA	
3. Address of Operator P. O. Box 960 Artesia, NM 88211-0960	
4. Well Location Unit Letter <u>H</u> <u>2063</u> feet from the <u>North</u> line and <u>441</u> feet from the <u>East</u> line Section <u>2</u> Township <u>18S</u> Range <u>27E</u> NMPM County <u>Eddy</u>	
11. Elevation (Show whether DR, RKB, RT, GR, etc.) 3590' GR	
Pit or Below-grade Tank Application <input type="checkbox"/> or Closure <input type="checkbox"/>	
Pit type _____ Depth Groundwater _____ Distance from nearest fresh water well _____ Distance from nearest surface water _____	
Pit Liner Thickness: _____ mil Below-Grade Tank: Volume _____ bbls; Construction Material _____	

12. Check Appropriate Box to Indicate Nature of Notice, Report or Other Data

NOTICE OF INTENTION TO:		SUBSEQUENT REPORT OF:	
PERFORM REMEDIAL WORK <input type="checkbox"/>	PLUG AND ABANDON <input type="checkbox"/>	REMEDIAL WORK <input type="checkbox"/>	ALTERING CASING <input type="checkbox"/>
TEMPORARILY ABANDON <input type="checkbox"/>	CHANGE PLANS <input type="checkbox"/>	COMMENCE DRILLING OPNS <input type="checkbox"/>	P AND A <input type="checkbox"/>
PULL OR ALTER CASING <input type="checkbox"/>	MULTIPLE COMPL <input type="checkbox"/>	CASING/CEMENT JOB <input type="checkbox"/>	
OTHER: _____ <input type="checkbox"/>		OTHER: <u>Completion</u> <input checked="" type="checkbox"/>	

13. Describe proposed or completed operations. (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work). SEE RULE 1103. For Multiple Completions: Attach wellbore diagram of proposed completion or recompletion.

- 12/15/2007 Perforated from 6134.5-6434' 57 holes.
- 12/17/2007 Acidized w/4500 gals 15%.
- 12/18/2007 RIH w/203 joints 2 7/8 tubing SN @ 6439'. RIH w/2 1/2"x2"x20' pump.
- 12/26/2007 Set CIBP @ 6020' w/35' cement cap. Perforated from 5789.5-5957.5' 52 holes.
- 12/27/2007 Acidized w/4500 gals 15%.
- 12/28/2007 Perforated from 5391-5700.5' 83 holes. Acidized w/5000 gals 15%.
- 12/29/2007 RIH w/188 joints 2 7/8 tubing SN @ 5965'. RIH w/2 1/2"x2"x20' pump.
- 1/7/2008 Set CIBP @ 5300' w/35' cement cap. Perforated from 4118.5-4197' 40 holes.
- 1/8/2008 Acidized w/2000 gals 15%.
- 1/9/2008 Frac w/8130# liteprop, 68,890# 16/30 sand, 14,046# siberprop, 91,292 gals 30/40# gel.
- 1/11/2008 RIH w/134 joints 2 7/8" tubing SN @ 4243'. RIH 2 1/2 x 2 x 20' Pump.

I hereby certify that the information above is true and complete to the best of my knowledge and belief. I further certify that any pit or below-grade tank has been/will be constructed or closed according to NMOCD guidelines , a general permit or an (attached) alternative OCD-approved plan

SIGNATURE Jerry W. Sherrell TITLE Production Clerk DATE 2/25/08

Type or print name Jerry W. Sherrell E-mail address: jerrys@mackenergycorp.com Telephone No. (575)748-1288
 For State Use Only

FOR RECORDS ONLY

APPROVED BY: _____ TITLE _____ DATE 2-28-08
 Conditions of Approval (if any): _____

District I
1625 N. French Dr., Hobbs, NM 88240
District II
1301 W Grand Avenue, Artesia, NM 88210
District III
1000 Rio Brazos Rd., Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy, Minerals & Natural Resources
Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

Form C-104
Revised Feb. 26, 2007
Submit to Appropriate District Office
5 Copies

FEB 26 2008
OCD-ARTESIA

AMENDED REPORT

1. REQUEST FOR ALLOWABLE AND AUTHORIZATION TO TRANSPORT

1 Operator name and Address Mack Energy Corporation P.O. Box 960 Artesia, NM 88211-0960		2 OGRID Number 013837
4 API Number 30-015-35814		3 Reason for Filing Code/ Effective Date NW
5 Pool Name Red Lake; Glorieta-Yeso, NE	6 Pool Code 51120 96836	
7 Property Code 303847	8 Property Name State H	9 Well Number 2

H. Surface Location

UL or lot no	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
H	2	18S	27E		2063	North	441	East	Eddy

Bottom Hole Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
H	2	18S	27E		2300	North	340	East	Eddy
12 Lse Code S	13 Producing Method Code P	14 Gas Connection Date 1/11/08	15 C-129 Permit Number	16 C-129 Effective Date	17 C-129 Expiration Date				

III. Oil and Gas Transporters

18 Transporter OGRID	19 Transporter Name and Address	20 O/G/W
015694	Navajo Refining PO Box 159 Artesia, NM 88211-0159	O
036785	DCP Midstream LP 4001 Penbrook Odessa, TX 79762	G

IV. Well Completion Data

21 Spud Date 10/31/2007	22 Ready Date 11/23/2007	23 TD 7545'	24 PBDT 5265'	25 Perforations 4118.5-4197'	26 DHC, MC
27 Hole Size	28 Casing & Tubing Size	29 Depth Set		30 Sacks Cement	
17 1/2	13 3/8	201		250	
12 1/4	8 5/8	1170		675	
7 7/8	5 1/2	7495		1415	
	2 7/8	4243			

V. Well Test Data

31 Date New Oil 1/14/2008	32 Gas Delivery Date 1/14/2008	33 Test Date 1/30/08	34 Test Length 24 hours	35 Tbg. Pressure	36 Csg. Pressure
37 Choke Size	38 Oil	39 Water	40 Gas	41 Test Method	
	8	30	30	P	

42 I hereby certify that the rules of the Oil Conservation Division have been complied with and that the information given above is true and complete to the best of my knowledge and belief

Signature: *Jerry W. Sherrell*

Printed name: Jerry W. Sherrell

Title: Production Clerk

E-mail Address: jerrys@mackenergycorp.com

OIL CONSERVATION DIVISION

Approved by: *Kimberly M. Wilson*

Title: *Compliance Officer*

Approval Date: *3-5-08*

Date:
2/25/08

Phone:
(575)748-1288

Submit to Appropriate District Office
 State Lease - 6 copies
 Fee Lease - 5 copies
DISTRICT I
 P O Box 1980, Hobbs, NM 88240

DISTRICT II
 811 South First, Artesia, NM 88210

DISTRICT III
 1000 Rio Brazos Rd, Aztec, NM 87410

State of New Mexico
 Energy, Minerals and Natural Resources Department

Form C-105
 Revised 1-1-89

OIL CONSERVATION DIVISION
 2040 South Pacheco
 Santa Fe, New Mexico 87505

WELL API NO 30-015-35814
5 Indicate Type of Lease STATE <input checked="" type="checkbox"/> FEE <input type="checkbox"/>
6 State Oil & Gas Lease No B-9391

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

1 Type of Well OIL WELL <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> DRY <input type="checkbox"/> OTHER _____	7 Lease Name or Unit Agreement Name State H
b Type of Completion NEW WELL <input checked="" type="checkbox"/> WORK OVER <input type="checkbox"/> Deepen <input type="checkbox"/> PLUG BACK <input type="checkbox"/> DIFF RESVR <input type="checkbox"/> OTHER _____	8 Well No 2

2 Name of Operator Mack Energy Corporation	FEB 26 2008 OCD-ARTESIA	9 Pool name or Wildcat Red Lake; Glorieta-Yeso, NE
3 Address of Operator P.O. Box 960, Artesia, NM 88211-0960		

4. Well Location
 Unit Letter H : 2063 Feet From The North Line and 441 Feet From The East Line
 Section 2 Township 18S Range 27E NMPM Eddy County

10 Date Spudded 10/31/2007	11 Date TD Reached 11/21/2007	12 Date Compl (Ready to Prod.) 1/11/08	13 Elevations (DF & RKB, RT, GR, etc) 3590' GR	14 Elev Casinghead
-------------------------------	----------------------------------	---	---	--------------------

15 Total Depth 7545'	16. Plug Back TD 5265'	17 If Multiple Compl How Many Zones? _____	18 Intervals Drilled By _____	Rotary Tools Yes	Cable Tools _____
-------------------------	---------------------------	---	----------------------------------	---------------------	----------------------

19 Producing Interval(s), of this completion - Top, Bottom, Name 4118.5-4197'	20 Was Directional Survey Made Yes
--	---------------------------------------

21 Type Electric and Other Logs Run Gamma Ray, Neutron, Density, Lateralog, Spectral Gamma Ray	22 Was Well Cored No
---	-------------------------

23 **CASING RECORD (Report all strings set in well)**

CASING SIZE	WEIGHT LB./FT.	DEPTH SET	HOLE SIZE	CEMENTING RECORD	AMOUNT PULLED
13 3/8	48	201	17 1/2	250 sx	None
8 5/8	32	1170	12 1/4	675 sx	None
5 1/2	17	7495	7 7/8	1415 sx	None

24 LINER RECORD					25 TUBING RECORD		
SIZE	TOP	BOTTOM	SACKS CEMENT	SCREEN	SIZE	DEPTH SET	PACKER SET
					2 7/8	4243'	

26 Perforation record (interval, size, and number) 6134.5-6434', .42, 57 CIBP @ 6020 w/35' cmt cap 5391-5957.5', .42, 92 CIBP @ 5300' w/35' cmt cap 4118.5-4197', .42, 40	27 ACID, SHOT, FRACTURE, CEMENT, SQUEEZE, ETC.	
	DEPTH INTERVAL	AMOUNT AND KIND MATERIAL USED
		See C-103 for detail

28 **PRODUCTION**

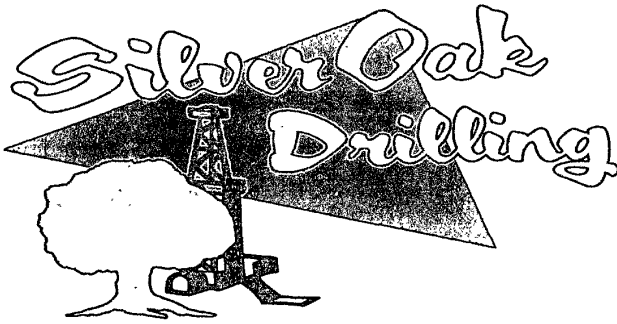
Date First Production 1/14/2008	Production Method (Flowing, gas lift, pumping - Size and type pump) 2 1/2x2x20' Pump	Well Status (Prod. or Shut-in) Producing					
Date of Test 1/30/08	Hours Tested 24 hours	Choke Size _____	Prod'n For Test Period 8	Oil - Bbl 30	Gas - MCF 30	Water - Bbl 30	Gas - Oil Ratio 3750
Flow Tubing Press	Casing Pressure	Calculated 24-Hour Rate	Oil - Bbl 8	Gas - MCF 30	Water - Bbl. 30	Oil Gravity - API - (Corr.)	

29 Disposition of Gas (Sold, used for fuel, vented, etc.) Sold	Test Witnessed By Robert C. Chase
---	--------------------------------------

30 List Attachments
 Deviation Survey and Logs

31. I hereby certify that the information shown on both sides of this form is true and complete to the best of my knowledge and belief

Signature Jerry W. Sherrell Printed Name Jerry W. Sherrell Title Production Clerk Date 2/25/08



PO Box 1370
Artesia, NM 88211-1370
(505) 748-1288

FEB 26 2008
OCD-ARTESIA

November 30, 2007


Mack Energy Corporation
PO Box 960
Artesia, NM 88211-0960

RE: State H #2
2310' FNL & 990' FEL
Sec. 2, T18S, R27E
Eddy County, New Mexico

Dear Sir,

The attached is the Deviation Survey for the above captioned re-entered well.

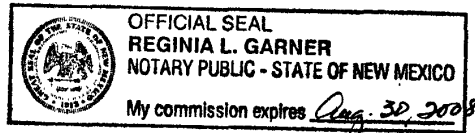
Very truly yours,


Leroy Curry
Drilling Superintendent

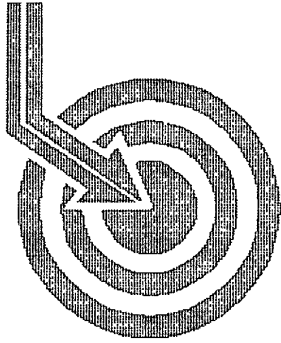
State of New Mexico }
County of Eddy }

The foregoing was acknowledged before me this 30th day of November, 2007.


Notary Public



Date	Depth	Dev	Dir
11/01/2007	133.00	0.50	0.00
11/02/2007	431.00	0.75	0.00
11/03/2007	700.00	0.50	0.00
11/04/2007	975.00	1.00	0.00
11/04/2007	1134.00	0.50	0.00
11/06/2007	1301.00	1.66	164.90
11/06/2007	1396.00	3.41	161.90
11/07/2007	1492.00	5.19	159.10
11/07/2007	1587.00	7.21	156.40
11/07/2007	1683.00	8.51	155.20
11/07/2007	1778.00	9.94	158.10
11/07/2007	1873.00	9.56	157.60
11/08/2007	1968.00	10.53	159.60
11/08/2007	2064.00	9.83	160.00
11/08/2007	2159.00	9.69	160.50
11/08/2007	2350.00	10.78	156.20
11/08/2007	2445.00	10.67	156.40
11/08/2007	2540.00	10.54	155.40
11/08/2007	2604.00	10.43	156.30
11/09/2007	2699.00	8.58	156.50
11/09/2007	2794.00	7.39	158.60
11/09/2007	2984.00	4.30	162.00
11/09/2007	3080.00	2.86	157.10
11/09/2007	3175.00	1.50	150.00
11/09/2007	3270.00	0.67	256.70
11/09/2007	3365.00	0.82	280.50
11/10/2007	3460.00	0.48	176.00
11/10/2007	3556.00	0.51	181.00
11/10/2007	3651.00	0.65	173.10
11/10/2007	3746.00	0.67	157.20
11/10/2007	3841.00	0.59	154.20
11/10/2007	3936.00	0.24	309.30
11/11/2007	4031.00	0.30	302.30
11/11/2007	4126.00	0.45	322.60
11/11/2007	4222.00	1.06	337.40
11/11/2007	4602.00	1.01	348.10
11/12/2007	4666.00	1.10	18.68
11/12/2007	4729.00	0.53	71.05
11/12/2007	4824.00	0.27	38.14
11/12/2007	4920.00	0.71	12.94
11/12/2007	5015.00	1.19	5.48
11/12/2007	5110.00	0.82	20.33
11/12/2007	5206.00	0.28	132.80
11/13/2007	5301.00	0.54	23.07
11/13/2007	5396.00	0.34	49.15
11/13/2007	5491.00	1.12	153.70
11/13/2007	5586.00	2.14	189.30
11/13/2007	5660.00	1.31	189.40
11/13/2007	5681.00	1.09	194.70
11/13/2007	5745.00	0.67	318.40
11/13/2007	5839.00	0.24	221.30
11/14/2007	5935.00	1.41	161.10
11/15/2007	5998.00	1.01	182.35
11/16/2007	6188.00	0.34	306.90
11/16/2007	6474.00	0.11	334.80
11/16/2007	6570.00	0.15	314.50
11/17/2007	6664.00	0.27	304.50
11/17/2007	6759.00	0.45	295.50
11/17/2007	6854.00	0.46	296.60
11/17/2007	6949.00	0.59	290.10
11/17/2007	7044.00	1.09	134.40
11/18/2007	7140.00	0.38	89.52
11/18/2007	7235.00	0.57	122.40
11/18/2007	7382.00	0.81	125.40



Scientific Drilling

FEB 26 2008
OCD-ARTESIA

MACK ENERGY

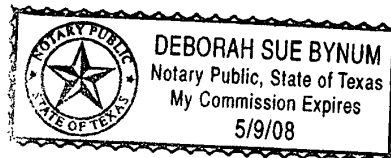
Field: Chalk Bluff
Site: Eddy County, NM
Well: State H #2
Wellpath: DH - Job #32D11071006
Survey: 11/05/07-11/14/07

This survey is correct to the best of my knowledge
and is supported by actual field data.

.....*L. Wharton*.....Company Representative

Notorized this date 19th of December, 2007.

Deborah Sue Bynum
Notary Signature
County of Midland
State of Texas





Scientific Drilling International Survey Report

Company: MACK ENERGY	Date: 12/16/2007	Time: 18:34.47	Page: 1
Field: Chalk Bluff	Co-ordinate(NE) Reference:	Site: Eddy County, NM, Grid North	
Site: Eddy County, NM	Vertical (TVD) Reference:	SITE 0.0	
Well: State H #2	Section (VS) Reference:	Well (0.00N,0.00E,156.92Azi)	
Wellpath: VH - Job #32K11071013	Survey Calculation Method:	Minimum Curvature	Db: Sybase

Survey: 11/06/07	Start Date:	11/06/2007
KSRG 0'-1143'		
Company: Scientific Drilling Internatio	Engineer:	Madrid w/P&M
Tool: Keeper;Keeper Gyro	Tied-to:	From Surface

Survey

MD ft	Incl deg	Azim deg	TVD ft	VS ft	N/S ft	E/W ft	DLS deg/100ft	ClsD ft	ClsA deg
0.00	0.00	359.95	0.00	0.00	0.00	0.00	0.00	0.00	0.00
100.00	0.62	77.45	100.00	0.10	0.12	0.53	0.62	0.54	77.45
200.00	0.42	110.33	199.99	0.45	0.11	1.40	0.35	1.40	85.60
300.00	0.37	96.72	299.99	0.86	-0.06	2.06	0.11	2.07	91.59
400.00	0.38	143.78	399.99	1.35	-0.36	2.58	0.30	2.61	98.00
500.00	0.26	212.14	499.99	1.80	-0.82	2.66	0.37	2.78	107.20
600.00	0.28	250.72	599.99	1.91	-1.10	2.30	0.18	2.55	115.41
700.00	0.44	271.18	699.99	1.74	-1.17	1.69	0.20	2.05	124.64
800.00	0.40	74.03	799.98	1.62	-1.06	1.64	0.83	1.96	122.94
900.00	1.01	96.02	899.98	2.09	-1.06	2.85	0.66	3.04	110.38
1000.00	0.95	87.15	999.96	2.81	-1.11	4.56	0.16	4.69	103.70
1100.00	0.56	76.15	1099.95	3.17	-0.95	5.86	0.41	5.94	99.24
1143.00	0.26	86.43	1142.95	3.24	-0.90	6.16	0.72	6.23	98.28



Scientific Drilling International Survey Report

Company: MACK ENERGY	Date: 12/16/2007	Time: 19:33:59	Page: 1
Field: Chalk Bluff	Co-ordinate(NE) Reference:	Site: Eddy County, NM, Grid North	
Site: Eddy County, NM	Vertical (TVD) Reference:	SITE 0.0	
Well: State H #2	Section (VS) Reference:	Well (0.00N,0.00E,156.92Azi)	
Wellpath: DH - Job #32D11071006	Survey Calculation Method:	Minimum Curvature	Db: Sybase

Survey: 11/05/07-11/14/07 MWD 1206'-7367'	Start Date: 11/05/2007
Company: Scientific Drilling Internatio	Engineer: Hernandez/Biggs/Elger
Tool: MWD;MWD	Tied-to: From: Definitive Path

Survey

MD ft	Incl deg	Azim deg	TVD ft	VS ft	N/S ft	E/W ft	DLS deg/100ft	ClsD ft	ClsA deg
1143.00	0.26	86.43	1142.95	3.24	-0.90	6.16	0.00	6.23	98.28
1206.00	0.17	46.81	1205.95	3.26	-0.82	6.37	0.27	6.43	97.37
1301.00	1.66	164.91	1300.94	4.57	-2.06	6.83	1.84	7.14	106.75
1396.00	3.41	161.92	1395.84	8.75	-6.07	8.07	1.85	10.10	126.96
1492.00	5.19	159.14	1491.57	15.93	-12.84	10.50	1.87	16.59	140.73
1587.00	7.21	156.46	1586.01	26.19	-22.32	14.41	2.15	26.57	147.15
1682.00	8.51	155.25	1680.11	39.18	-34.17	19.74	1.38	39.46	149.99
1778.00	9.94	158.14	1774.87	54.56	-48.32	25.80	1.57	54.77	151.90
1873.00	9.56	157.67	1868.50	70.65	-63.22	31.85	0.41	70.79	153.26
1968.00	10.53	159.64	1962.04	87.21	-78.66	37.86	1.08	87.30	154.30
2064.00	9.83	160.07	2056.53	104.15	-94.59	43.71	0.73	104.20	155.20
2159.00	9.69	160.58	2150.15	120.23	-109.75	49.13	0.17	120.25	155.88
2255.00	10.79	160.25	2244.62	137.26	-125.83	54.86	1.15	137.27	156.45
2350.00	10.78	156.23	2337.95	155.02	-142.33	61.44	0.79	155.02	156.65
2445.00	10.67	156.45	2431.29	172.70	-158.52	68.54	0.12	172.70	156.62
2540.00	10.54	155.44	2524.66	190.18	-174.49	75.66	0.24	190.18	156.56
2604.00	10.43	156.37	2587.60	201.82	-185.12	80.42	0.32	201.83	156.52
2699.00	8.58	156.51	2681.29	217.51	-199.50	86.69	1.95	217.52	156.51
2794.00	7.39	158.65	2775.36	230.71	-211.69	91.74	1.29	230.71	156.57
2889.00	5.58	158.12	2869.75	241.43	-221.66	95.68	1.91	241.43	156.65
2984.00	4.30	167.04	2964.40	249.55	-229.42	98.20	1.57	249.55	156.83
3080.00	2.86	157.16	3060.21	255.49	-235.14	99.94	1.63	255.49	156.97
3175.00	1.50	150.04	3155.14	259.10	-238.40	101.48	1.46	259.10	156.94
3270.00	0.67	256.00	3250.13	260.24	-239.61	101.56	1.90	260.24	157.03
3365.00	0.82	280.00	3345.12	259.79	-239.63	100.35	0.36	259.79	157.28
3460.00	0.48	176.03	3440.12	259.79	-239.90	99.71	1.10	259.80	157.43
3556.00	0.51	181.08	3536.11	260.56	-240.73	99.73	0.06	260.57	157.50
3651.00	0.65	173.19	3631.11	261.46	-241.69	99.79	0.17	261.48	157.57
3746.00	0.67	157.21	3726.10	262.54	-242.74	100.07	0.19	262.55	157.60
3841.00	0.59	154.21	3821.10	263.58	-243.69	100.50	0.09	263.60	157.59
3936.00	0.24	309.36	3916.09	263.89	-244.00	100.55	0.86	263.91	157.60
4031.00	0.30	302.31	4011.09	263.51	-243.74	100.19	0.07	263.53	157.66
4126.00	0.45	322.60	4106.09	262.95	-243.32	99.75	0.21	262.97	157.71
4222.00	1.06	337.45	4202.08	261.69	-242.20	99.18	0.66	261.72	157.73
4317.00	0.86	37.93	4297.07	260.47	-240.82	99.29	1.03	260.49	157.59
4412.00	0.59	7.90	4392.06	259.70	-239.78	99.79	0.48	259.71	157.40
4507.00	1.14	0.19	4487.05	258.42	-238.35	99.86	0.59	258.42	157.27
4602.00	1.01	346.16	4582.04	256.72	-236.59	99.66	0.31	256.72	157.16
4667.00	1.10	18.68	4647.03	255.69	-235.44	99.73	0.92	255.69	157.04
4729.00	0.53	71.05	4709.02	255.27	-234.78	100.19	1.42	255.27	156.89
4824.00	0.28	38.14	4804.02	255.19	-234.46	100.75	0.35	255.19	156.75
4920.00	0.71	12.94	4900.01	254.59	-233.69	101.03	0.49	254.60	156.62
5015.00	1.19	5.48	4995.00	253.25	-232.14	101.25	0.52	253.26	156.43
5110.00	0.82	20.33	5089.99	251.89	-230.52	101.58	0.47	251.91	156.22
5206.00	0.28	132.80	5185.98	251.60	-230.03	101.99	1.00	251.63	156.09
5301.00	0.54	23.07	5280.98	251.51	-229.78	102.34	0.72	251.54	155.99
5396.00	0.34	49.15	5375.98	251.11	-229.18	102.73	0.29	251.15	155.86
5491.00	1.12	153.76	5470.97	251.95	-229.83	103.35	1.32	252.00	155.79
5586.00	2.14	189.33	5565.94	254.38	-232.42	103.47	1.46	254.41	156.00



Scientific Drilling International Survey Report

Company: MACK ENERGY Field: Chalk Bluff Site: Eddy County, NM Well: State H #2 Wellpath: DH - Job #32D11071006	Date: 12/16/2007 Time: 19:33:59 Page: 2 Co-ordinate(NE) Reference: Site: Eddy County, NM, Grid North Vertical (TVD) Reference: SITE 0.0 Section (VS) Reference: Well (0 00N,0.00E, 156.92Azi) Survey Calculation Method: Minimum Curvature Db: Sybase
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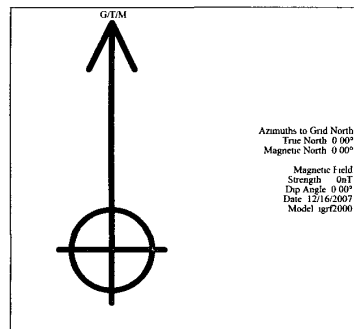
Survey

MD ft	Incl deg	Azim deg	TVD ft	VS ft	N/S ft	E/W ft	DLS deg/100ft	CIsD ft	CIsA deg
5681.00	1.09	194.79	5660.90	256.59	-235.04	102.96	1.12	256.60	156.34
5745.00	0.67	318.43	5724.89	256.71	-235.35	102.55	2.44	256.72	156.45
5839.00	0.24	221.30	5818.89	256.28	-235.08	102.06	0.79	256.28	156.53
5935.00	1.41	161.10	5914.88	257.54	-236.35	102.31	1.36	257.55	156.59
5998.00	1.01	182.35	5977.87	258.82	-237.64	102.54	0.94	258.82	156.66
6093.00	0.20	294.46	6072.86	259.45	-238.41	102.35	1.16	259.45	156.77
6189.00	0.34	306.99	6168.86	259.08	-238.17	101.97	0.16	259.08	156.82
6284.00	0.45	287.60	6263.86	258.59	-237.89	101.39	0.18	258.59	156.92
6379.00	1.01	331.75	6358.85	257.51	-237.04	100.64	0.79	257.51	157.00
6474.00	0.11	334.85	6453.84	256.59	-236.22	100.20	0.95	256.59	157.01
6570.00	0.15	314.50	6549.84	256.38	-236.04	100.07	0.06	256.38	157.02
6665.00	0.27	304.58	6644.84	256.08	-235.83	99.80	0.13	256.08	157.06
6760.00	0.45	295.56	6739.84	255.61	-235.54	99.28	0.20	255.61	157.14
6855.00	0.46	296.68	6834.84	255.04	-235.21	98.60	0.01	255.04	157.26
6950.00	0.51	281.73	6929.83	254.50	-234.95	97.85	0.14	254.51	157.39
7046.00	1.09	134.41	7025.83	255.10	-235.50	98.08	1.61	255.11	157.39
7140.00	0.38	89.52	7119.82	256.05	-236.13	99.03	0.92	256.05	157.25
7235.00	0.57	122.42	7214.82	256.56	-236.38	99.75	0.34	256.56	157.12
7330.00	0.81	125.40	7309.81	257.52	-237.02	100.69	0.26	257.52	156.98
7367.00	0.87	128.12	7346.81	257.99	-237.35	101.13	0.19	257.99	156.92

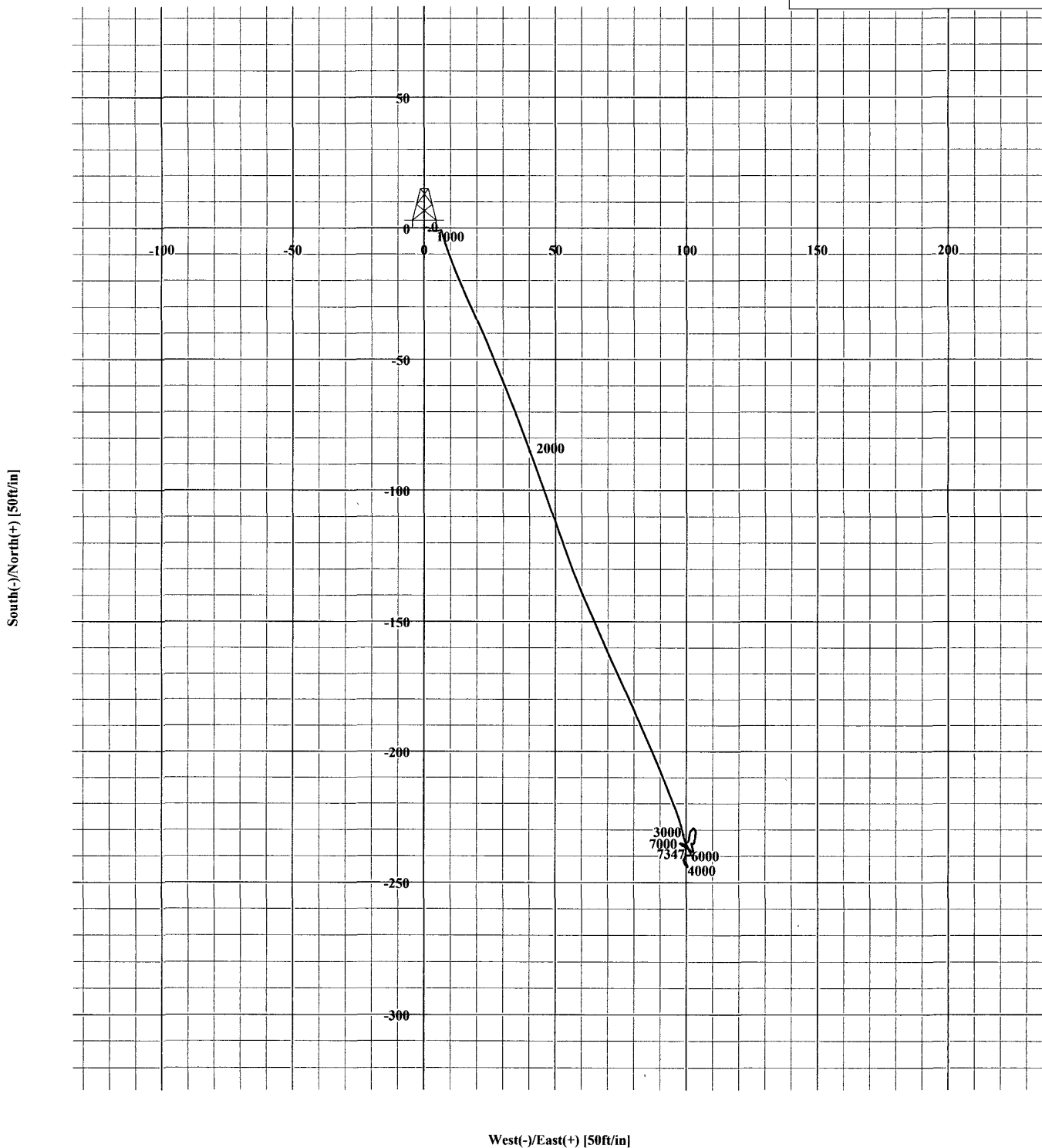


**Scientific
Drilling**

**Field: Chalk Bluff
Site: Eddy County, NM
Well: State H #2
Wellpath: DH - Job #32D11071006
Survey: 11/05/07-11/14/07**



Azimuths to Grid North
True North 0.00°
Magnetic North 0.00°
Magnetic Field
Strength 0.07
Dip Angle 0.00°
Date 12/16/2007
Model grf2000



Wilson, Kimberly M, EMNRD

From: Jerry Sherrell [jerrys@mackenergycorp.com]
Sent: Wednesday, March 05, 2008 3:37 PM
To: Wilson, Kimberly M, EMNRD
Subject: FW: Financial Assurance/Rule 40- Mack
Importance: High

From: Altomare, Mikal, EMNRD [mailto:Mikal.Altomare@state.nm.us]
Sent: Tuesday, March 04, 2008 11:03 AM
To: Mull, Donna, EMNRD
Cc: Rebecca Groh; Jerry Sherrell; Phillips, Dorothy, EMNRD
Subject: Financial Assurance/Rule 40- Mack
Importance: High

Donna –

I have received a pdf version of what appears to be a properly and fully executed single well bond for the state h no. 001, 03-015-00745, which Mack has assured me that they are over-nighting to our office. Everything appears to be in order, and I expect that, upon receipt of the original in our office, it will be reviewed and accepted and Mack will no longer be listed as being out of compliance with financial assurance requirements. That being said, and given that Mack has posted all other necessary financial assurances for all other properties, if there are no other violations or issues with approval of pending Mack applications, consider them to be in compliance for purposes of pending permit applications with your office.

Please contact me if you have any questions.

Thanks,

Mikal



Mikal M. Altomare

Assistant General Counsel
Oil Conservation Division
Energy, Minerals & Natural Resources Department
1220 South St. Francis Drive
Santa Fe, NM 87505
Tel 505.476.3480 ~ Fax 505.476.3462
mikal.altomare@state.nm.us

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3/5/2008

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3/5/2008

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 District II
 1301 W Grand Ave, Artesia, NM 88210
 District III
 1000 Rio Brazos Rd, Aztec, NM 87410
 District IV
 1220 S. St. Francis Dr, Santa Fe, NM 87505

State of New Mexico
 Energy, Minerals and Natural Resources

Form C-103
 June 19, 2008

OIL CONSERVATION DIVISION
 1220 South St. Francis Dr.
 Santa Fe, NM 87505

Record Clean up

SUNDRY NOTICES AND REPORTS ON WELLS (DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO DEEPEN OR PLUG BACK TO A DIFFERENT RESERVOIR, USE "APPLICATION FOR PERMIT" (FORM C-101) FOR SUCH PROPOSALS)		WELL API NO. 30-015-35814
1. Type of Well: Oil Well <input checked="" type="checkbox"/> Gas Well <input type="checkbox"/> Other <input type="checkbox"/>		5. Indicate Type of Lease STATE <input checked="" type="checkbox"/> FEE <input type="checkbox"/>
2. Name of Operator Mack Energy Corporation		6. State Oil & Gas Lease No. B-9391
3. Address of Operator P.O. Box 960 Artesia, NM 88210		7. Lease Name or Unit Agreement Name State H
4. Well Location Unit Letter <u>H</u> <u>2063</u> feet from the <u>North</u> line and <u>441</u> feet from the <u>East</u> line Section <u>2</u> Township <u>18S</u> Range <u>27E</u> NMPM County <u>Eddy</u>		8. Well Number 2
11. Elevation (Show whether DR, RKB, RT, GR etc) 3590' GR		9. OGRID Number 013837
		10. Pool Name or Wildcat Red Lake; Glorieta-Yeso NE

12. Check Appropriate Box to Indicate Nature of Notice, Report or Other Data

NOTICE OF INTENTION TO: PERFORM REMEDIAL WORK <input type="checkbox"/> PLUG AND ABANDON <input type="checkbox"/> TEMPORARILY ABANDON <input type="checkbox"/> CHANGE PLANS <input type="checkbox"/> PULL OR ALTER CASING <input type="checkbox"/> MULTIPLE COMPL <input type="checkbox"/> DOWNHOLE COMMINGLE <input type="checkbox"/>		SUBSEQUENT REPORT OF: REMEDIALWORK <input type="checkbox"/> ALTERING CASING <input type="checkbox"/> COMMENCE DRILLING OPNS. <input type="checkbox"/> P AND A <input type="checkbox"/> CASING/CEMENT JOB <input type="checkbox"/>	
OTHER: <input type="checkbox"/>		OTHER: Workover <input checked="" type="checkbox"/>	

13. Describe proposed or completed operations. (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work). SEE RULE 1103. For Multiple Completions: Attach wellbore diagram of proposed completion or recompletion.

- 2/12/2008 Perforated 3790.5-4025.5', 54 holes.
- 2/13/2008 Acidized w/ 2,500 gals 15% NEFE Acid.
- 2/20/2008 Frac w/ 20,156# White Sand 16/30, 13,828# Siber Prop 16/30, 36,414 gals 40# gel.
- 2/21/2008 Perforated 3364-3677', 72 holes.
- 2/22/2008 Acidized w/ 2,500 gals 15% NEFE Acid.
- 2/25/2008 Frac w/ 8,000# LiteProp 125 14/30, 73,600# White Sand 16/30, 15,380# Siber Prop 16/30, 85,000 gals 40# Linear Gel.
- 2/27/2008 RIH w/ 134jts 2 7/8" J-55 6.5# tubing, SN @ 4243', 2 1/2 x 2 x 20' pump.

RECEIVED
 SEP 20 2012
 NMOC D ARTESIA

Spud Date: 10/31/2007 Rig Release Date: 11/22/2007

I hereby certify that the information above is true and complete to the best of my knowledge and belief.

SIGNATURE Deana Weaver TITLE Production Clerk DATE 9.18.12

Type or print name Deana Weaver E-mail address: dweaver@mec.com PHONE: (575)748-1288

For State Use Only

APPROVED BY: [Signature] TITLE Dist. Supervisor DATE 9/26/12
 Conditions of Approval (if any):

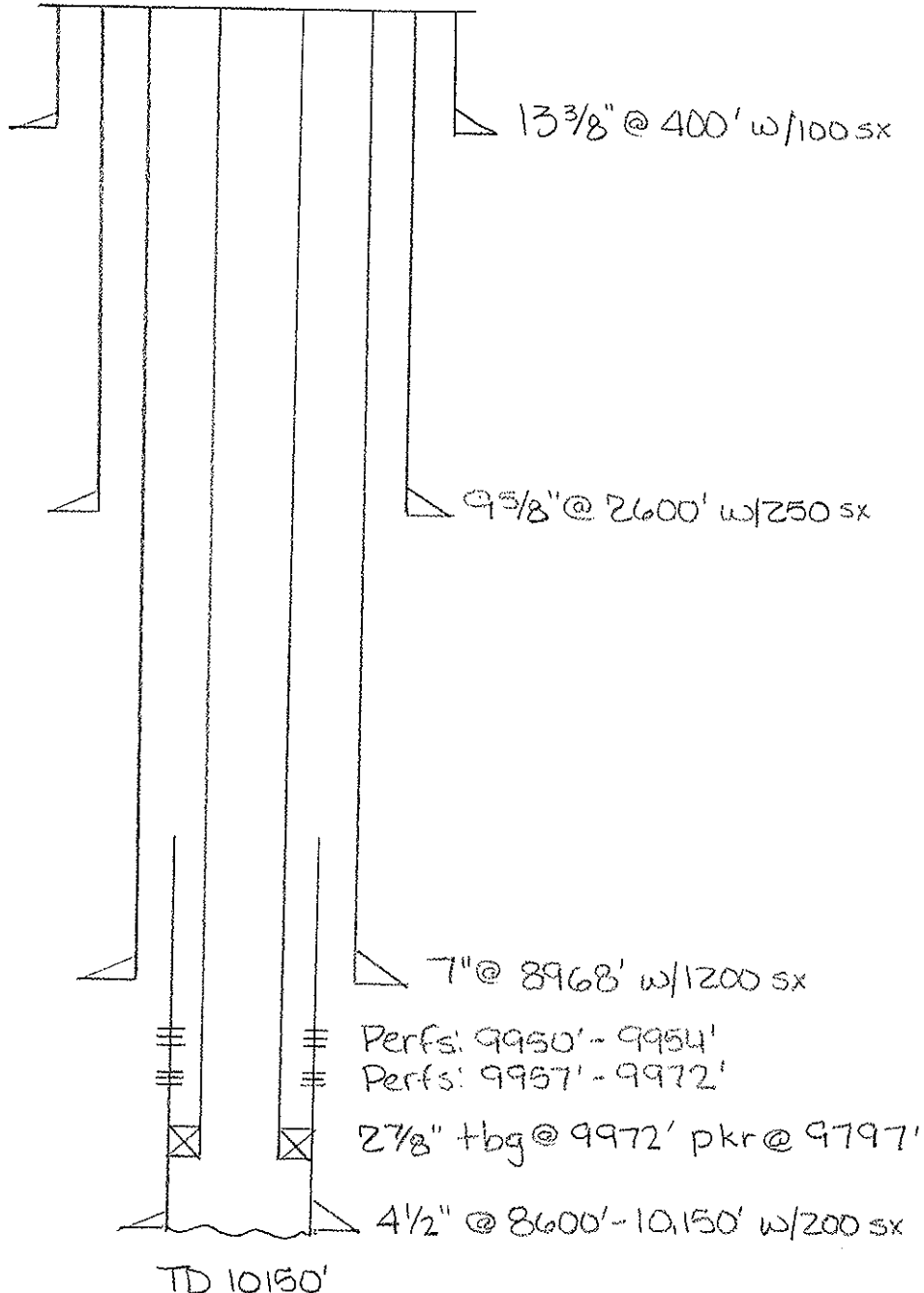
SUBSURFACE

NAVAJO REFINING COMPANY
Map ID No. 74
Artificial Penetration Review

OPERATOR Newbourne Oil Co.
LEASE Chalk Bluff Fed
WELL NUMBER Com 003
DRILLED 11-24-92
PLUGGED NA

STATUS Active Gas
LOCATION Sec. 1 -T18S-R27E
MUD FILLED BOREHOLE NA
TOP OF INJECTION ZONE 7345'
API NO. 30-015-27163

REMARKS: Calc. Top of Cement behind 7" @ 910'



SUBSURFACE

NAVAJO REFINING COMPANY, L.L.C.

Map ID No. 99

Artificial Penetration Review

OPERATOR Mewbourne Oil

STATUS Active

LEASE Chalk Bluff Federal

LOCATION Sec. 1 -T18S-R27E

WELL NUMBER 3

MUD FILLED BOREHOLE NA

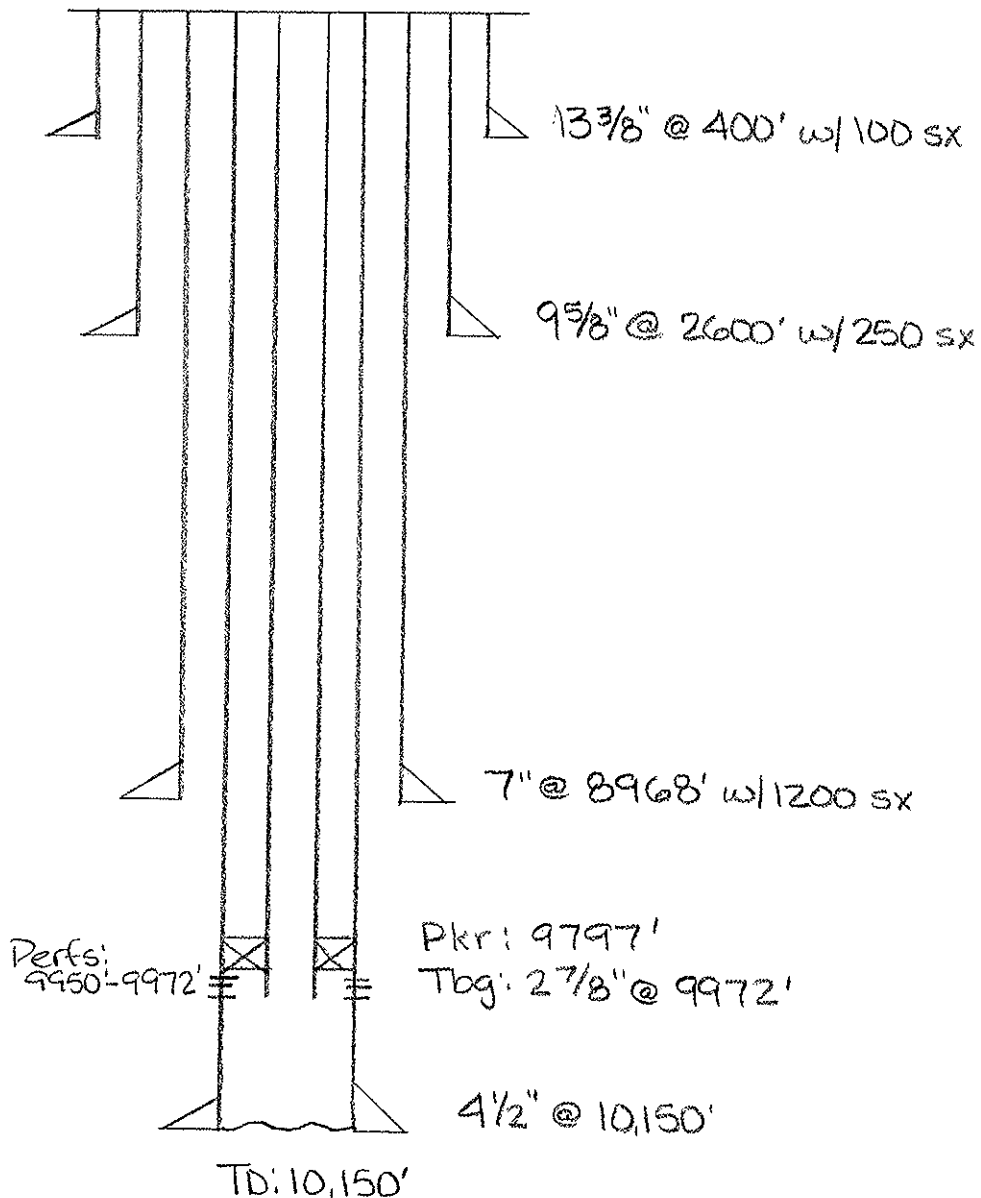
DRILLED 1/16/93

TOP INJECTION ZONE -3702'

PLUGGED NA

API NO. 30-015-27163

REMARKS:



MAP ID NO. 99

**MEWBOURNE OIL CO.
CHALK BLUFF FEDERAL COM NO. 003**

API NO. 30-015-27163

APD ATTACHMENT

Mewbourne Oil Company Chalk Bluff Federal Comm. #3 NM-016788
1980' FSL & 990' FEL Sec. 1-T18S-R27E Eddy County, NM.

- 1.) Casing Design and Safety Factors (See schedule 1 for used casing design program.)

- 2.) Cement Program for Casing Strings.
Surface Casing:
250 sacks of Class "C" containing 2% CaCL₂ + 1/4#/sack of cellophane flakes followed by 200 sacks of Class "C" containing 3% CaCL₂.

Intermediate Casing:
700 sacks of Class "C" containing 6% gel + 2% CaCL₂ + 1/2#/sack of cellophane flakes + 5#/sack of Gilsonite followed by 200 sacks of Class "C" containing 3% CaCL₂.

Production Casing:
A cement diverter tool (D. V. Tool) will be run at a depth of approximately 7500' from surface.
1st Stage:
850 sacks of Class "H" containing 5#/sack KCL + .7% fluid loss additive + 5#/sack compressive strength extender.
2nd Stage:
900 sacks of Class "C" Lite containing 1/2#/sack cellophane flakes + 5#/sack Gilsonite + .4% fluid loss extender followed by 100 sacks of Class "H" containing .4% fluid loss additive + 5#/sack compressive strength extender.

- 3.) Drilling time will require approximately 35 - 40 days and drilling operations should begin approximately November 1, 1992.

- 4.) The possibility of encountering H₂S gas in this area remote. Mewbourne Oil Company has drilled offset wells to this proposed location and none of these wells have encountered any H₂S gas in the Pennsylvanian. In the event H₂S is encountered, the necessary H₂S safety equipment will be installed on location to provide for a safe working environment.

- 5.) Anticipated formation temperature and pressure in the Morrow zone will be approximately 155 degrees fahrenheit and 3,000# psi.

- 6.) This location is a non-standard location. A hearing is scheduled for October 15, 1992 in Santa Fe, New Mexico before the New Mexico Oil Conservation Division for an unorthodox location exception.

- 7.) The pressure rating on the BOP STACK (see exhibit "D" of the APD) is 3,000# psi. The correct pressure rating of ANSI 900 series is noted in the APD. The API standard for pressure ratings for flanged equipment is in ANSI series. ANSI 600 series is 2,000# psi working pressure test, ANSI 900 series is 3,000# psi working pressure, ANSI 1500 series is 5,000# psi work-pressure.

SCHEDULE ONE

LEASE NAME: CHALK BLUFF FEDERAL #3 TYPE OF CSG STRING: PRODUCTION
 LEGALS: SEC 1-18S-27E DEPTH OF CSG: 10,300

CASING MINIMUM PERFORMANCE PROPERTIES

CSG TYPE	K-FACTOR	COLLAPSE	BURST	TENSION
1 5 1/2" 20# N-80 LT&C	991,000	8830	9190	428000
2 5 1/2" 17# N-80 LT&C	844,000	6380	7740	348000
3 5 1/2" 20# N-80 LT&C	991,000	8830	9190	428000
4				
5				

GRADE OF CASING: 85 % OF NEW

CSG TYPE	COLLAPSE	BURST	TENSION
1 5 1/2" 20# N-80 LT&C	7506	7812	363800
2 5 1/2" 17# N-80 LT&C	5423	6579	295800
3 5 1/2" 20# N-80 LT&C	7506	7812	363800
4 0	0	0	0
5 0	0	0	0

SETTING DEPTH (WT. OF CSG IN AIR)		CASING	INTERVAL	INTERVAL	CUMMULATIVE
FROM	TO	WT. (LB/FT)	LGTH (FT.)	WT. (LBS)	WT. (LBS)
1 0	1,000	20	1000	20,000	181,100
2 1,000	9,300	17	8300	141,100	161,100
3 9,300	10,300	20	1000	20,000	20,000
4 0			0	0	0
5 0			0	0	0

WELLBORE CONDITIONS

MUD WEIGHT: 9.6 PPG
 BOUYANCY FACTOR 0.853 (AIR = 1)
 DISPLACEMENT FLUID WT: 8.5 PPG

DEPTH	ANNULAR	COLLAPSE	HOLE	TENSION
	HYDROSTATIC	W/AXIAL	HYDROSTATIC	
	PRESSURE	LOADING	PRESSURE	
0	0		0	154,478
1 1000	499	5982	442	137,418
2 9300	4643	5290	4111	17,060
3 10300	5142	7506	4553	0
4 0	0	ERR	0	0
5 0	0	ERR	0	0

FINIAL CASING DESIGN

SAFTEY FACTORS

				COLLAPSE	BURST	TENSION
	FROM	TO	LENGTH	>1.125	>1.00	>2.00
0	0	0	0	ERR	ERR	ERR
0	0	0	0	ERR	ERR	ERR
5 1/2" 20# N-80 LT&C	10,300	9,300	1000	1.460	1.716	21.325
5 1/2" 17# N-80 LT&C	9,300	1,000	8300	1.139	1.600	2.153
5 1/2" 20# N-80 LT&C	1,000	0	1000	11.983	17.673	2.355

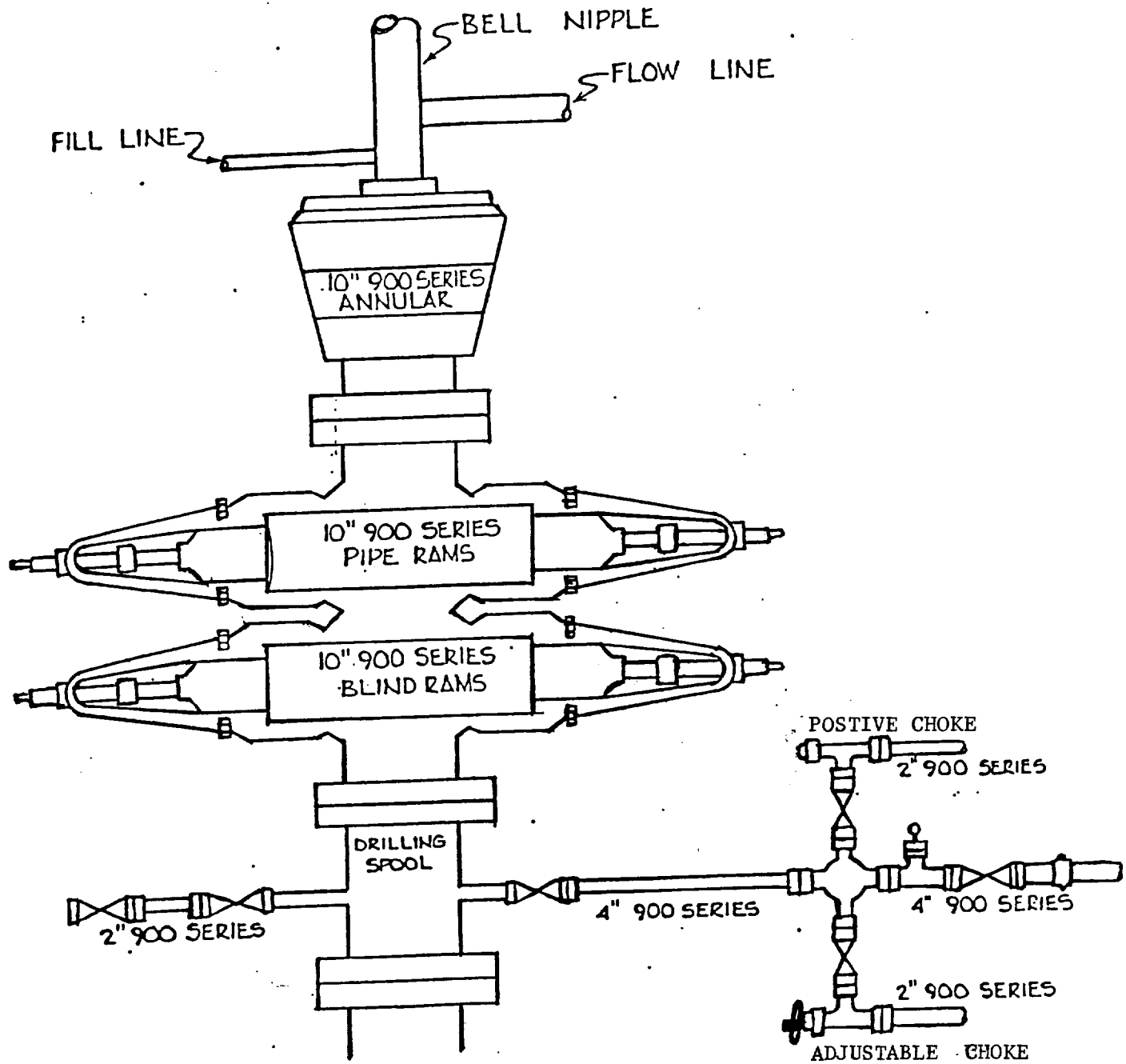
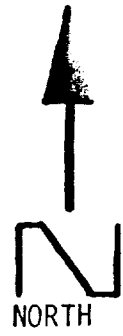
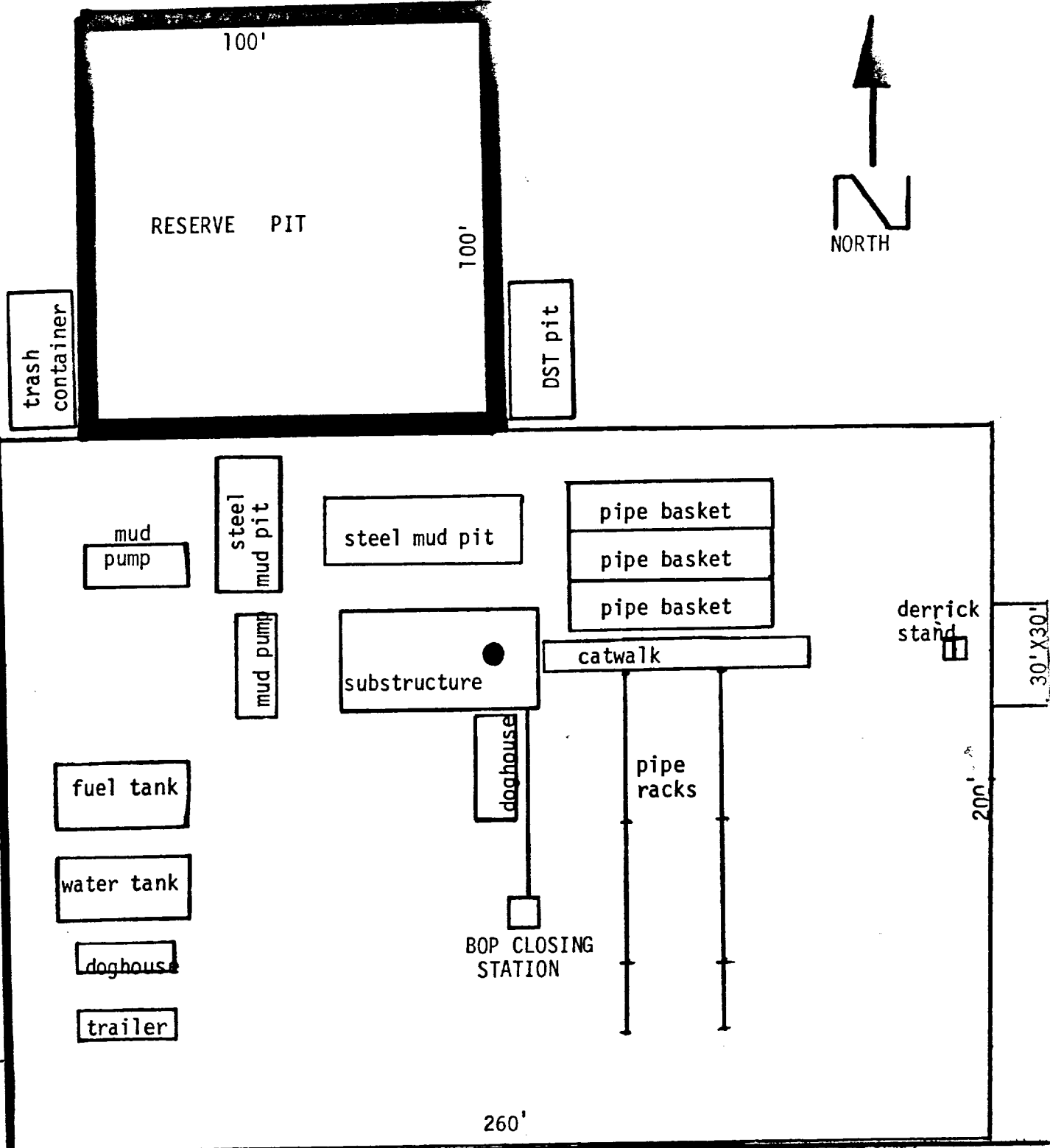


EXHIBIT "D"

Mewbourne Oil Company
 Chalk Bluff Federal #3
 1980' FSL & 990' FEL
 Section 1-T17S-R29E
 Eddy County, New Mexico

Existing Lease Road

200'



30' X 30'

200'

Existing lease road

Mewbourne Oil Company
 Chalk Bluff Federal #3
 1980' FSL & 990' FEL
 Section 1-T17S-R29E
 Eddy County, New Mexico
 Proposed location with
 dimensions.

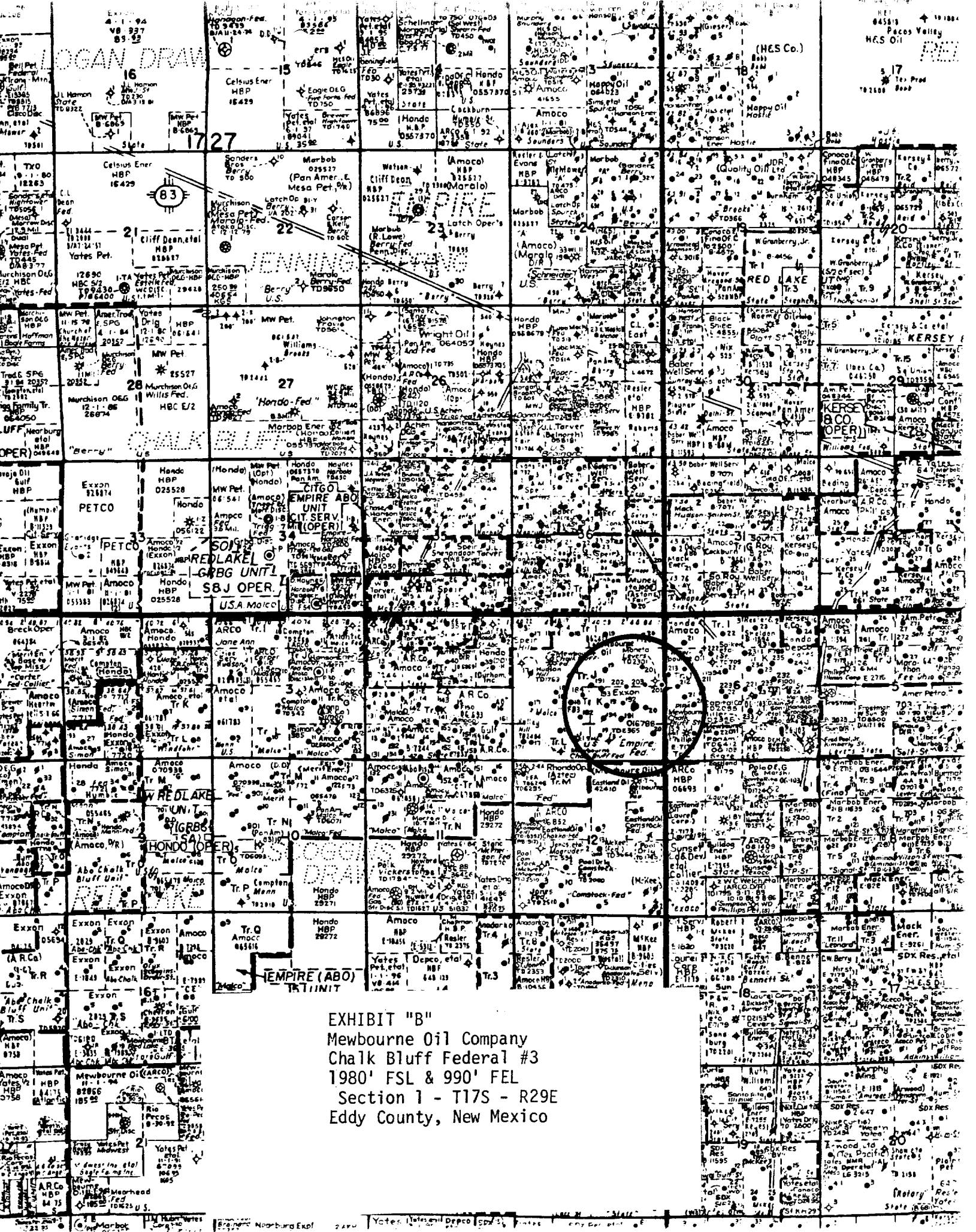
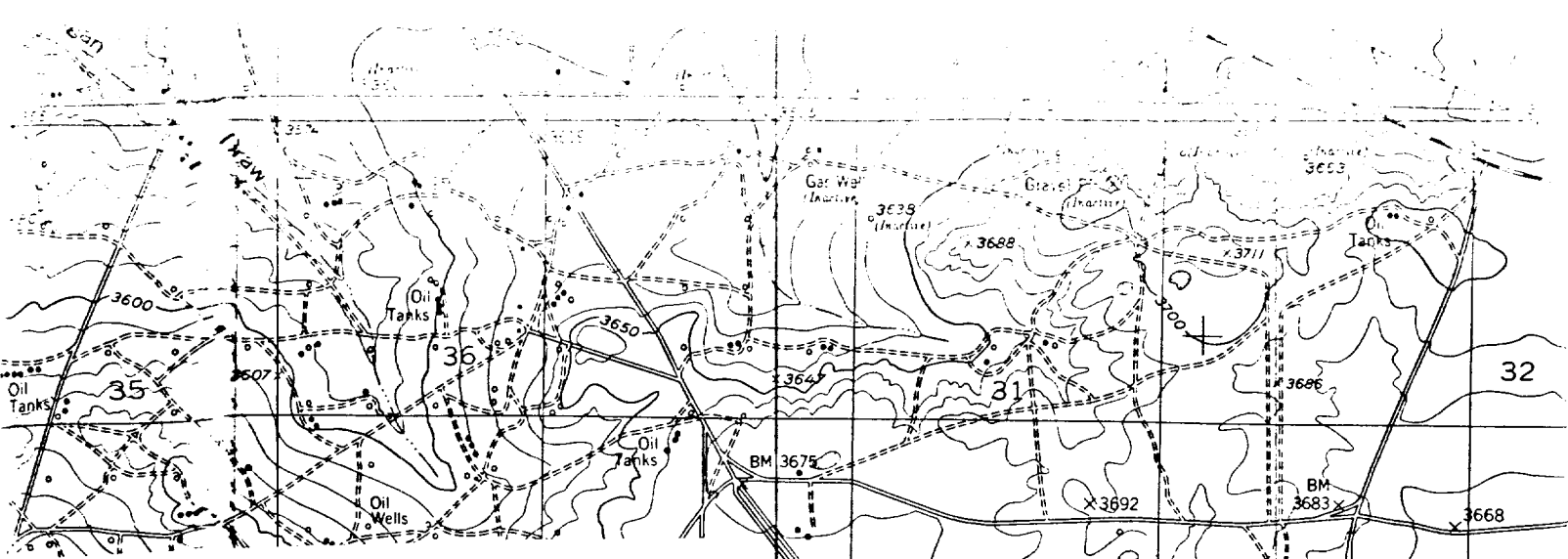


EXHIBIT "B"
 Mewbourne Oil Company
 Chalk Bluff Federal #3
 1980' FSL & 990' FEL
 Section 1 - T17S - R29E
 Eddy County, New Mexico



Proposed location and existing access roads.

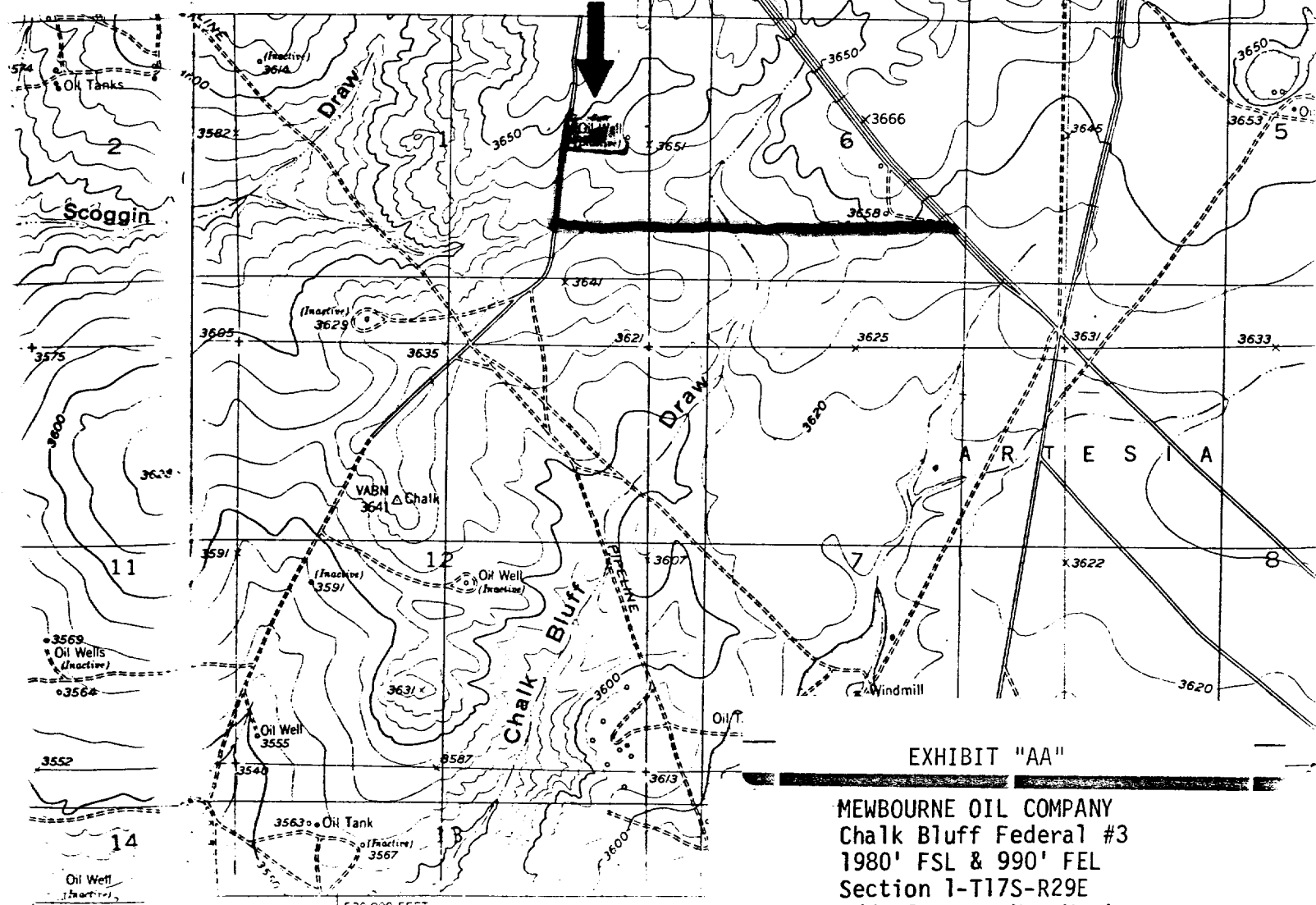


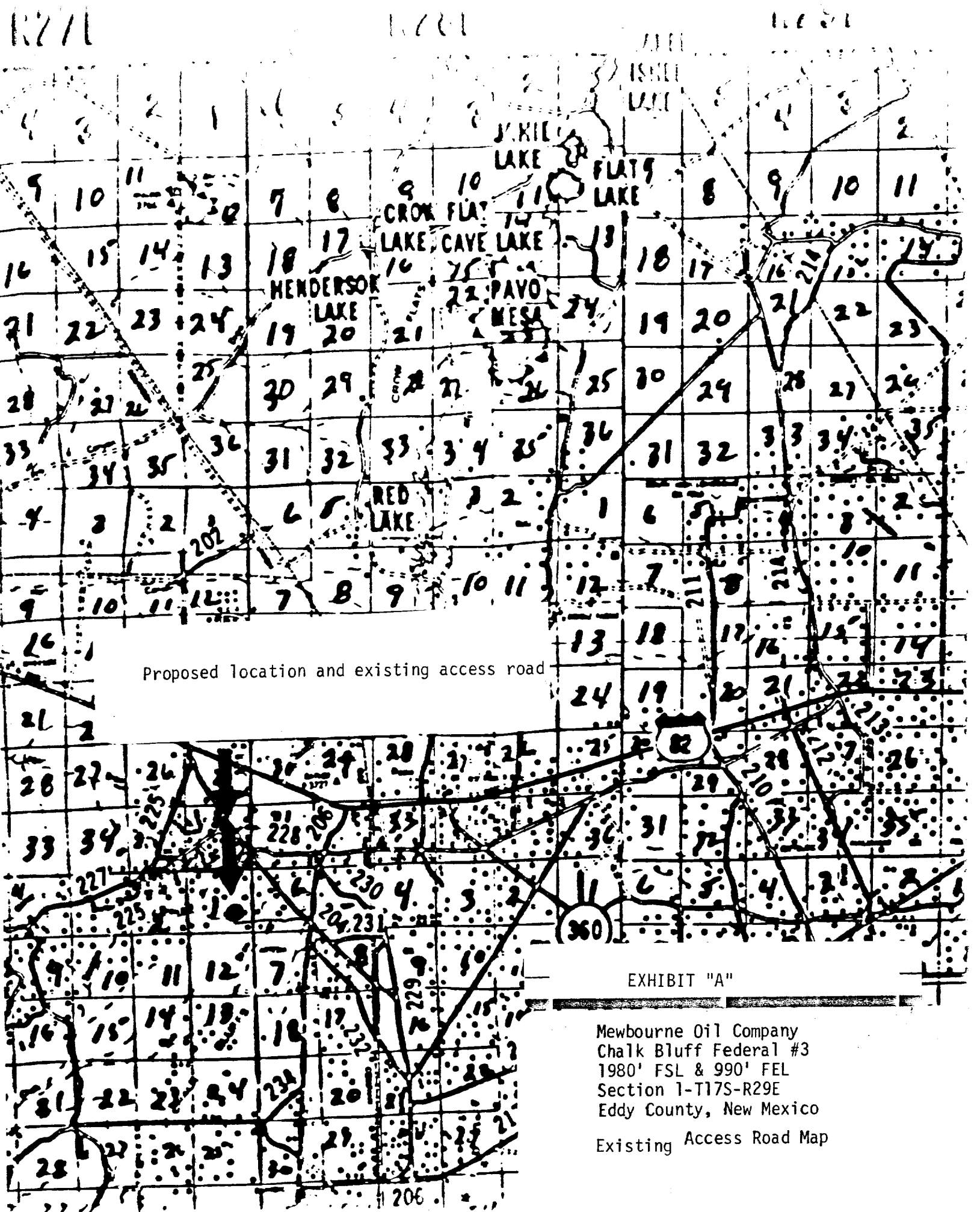
EXHIBIT "AA"

MEWBOURNE OIL COMPANY
 Chalk Bluff Federal #3
 1980' FSL & 990' FEL
 Section 1-T17S-R29E
 Eddy County, New Mexico
 Detail Map for road and location.

Existing Roads

Proposed Location

Map, edited, and published by the Geological Survey
 Control by USGS
 and drainage...
 1946. Topographic... surveys 1955



Submit to Appropriate District Office
 State Lease - 4 copies
 Fee Lease - 3 copies

State of New Mexico
 Energy, Minerals and Natural Resources Department

Form C-102
 Revised 1-1-89

OIL CONSERVATION DIVISION
 P.O. Box 2088
 Santa Fe, New Mexico 87504-2088

DISTRICT I
 P.O. Box 1980, Hobbs, NM 88240

DISTRICT II
 P.O. Drawer DD, Artesia, NM 88210

DISTRICT III
 1000 Rio Brazos Rd., Aztec, NM 87410

WELL LOCATION AND ACREAGE DEDICATION PLAT
 All Distances must be from the outer boundaries of the section

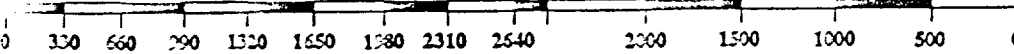
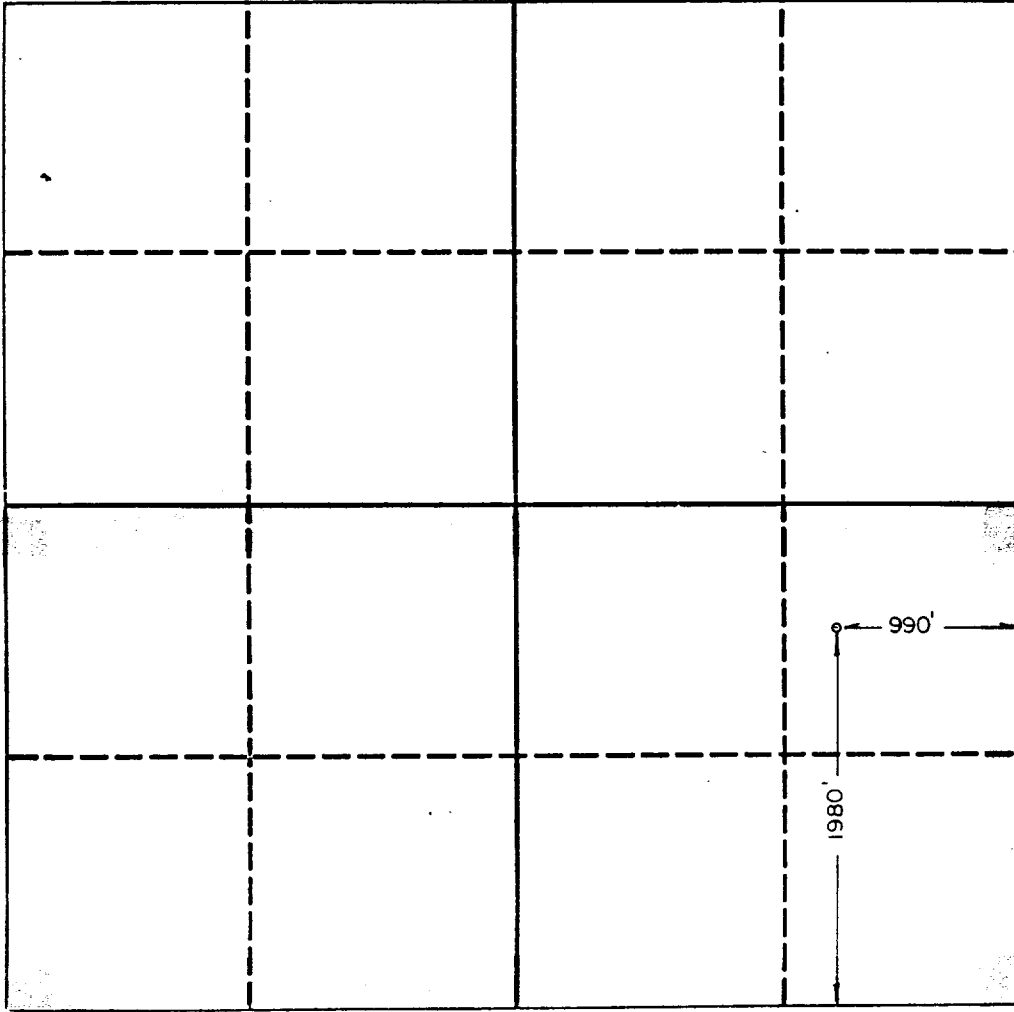
Operator MEWBOURNE OIL COMPANY		Lease CHALK BLUFF FEDERAL		Well No. 3
Unit Letter I	Section 1	Township 18 SOUTH	Range 27 EAST	County EDDY
Actual Footage Location of Well: 1980 feet from the SOUTH line and 990 feet from the EAST line				
Ground level Elev. 3628	Producing Formation Morrow	Pool North Illinois Camp Morrow	Dedicated Acreage: 320 Acres	

- Outline the acreage dedicated to the subject well by colored pencil or hachure marks on the plat below.
- If more than one lease is dedicated to the well, outline each and identify the ownership thereof (both as to working interest and royalty).
- If more than one lease of different ownership is dedicated to the well, have the interest of all owners been consolidated by communitization, unitization, force-pooling, etc.?

Yes No If answer is "yes" type of consolidation Communitization

If answer is "no" list the owners and tract descriptions which have actually been consolidated. (Use reverse side of this form if necessary.)

No allowable will be assigned to the well until all interests have been consolidated (by communitization, unitization, forced-pooling, or otherwise) or until a non-standard unit, eliminating such interest, has been approved by the Division.



OPERATOR CERTIFICATION
 I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief.

Signature: *Bill Pierce*
 Printed Name: **Bill Pierce**
 Position: **Drilling Superintendent**
 Company: **Mewbourne Oil Company**
 Date: **August 31, 1992**

SURVEYOR CERTIFICATION
 I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my knowledge and belief.

Date Surveyed: **8/26/92**

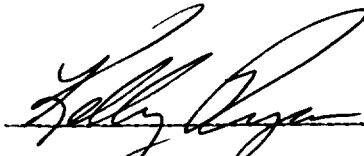
Signature & Seal of Professional Surveyor

Certificate No. **3640**

12. CERTIFICATION:

I hereby certify that I, or persons under my direct supervision, have inspected the proposed drilling site and necessary access route; that I am familiar with the conditions which presently exist; that the statements made in this plan are, to the best of my knowledge, true and correct; and that the work associated with the operations proposed herein will be performed by MEWBOURNE OIL COMPANY and its' contractors and subcontractors in conformity with this plan and the terms and conditions under which it is approved.

September 9, 1992



Kelly Ryan
District Superintendent
MEWBOURNE OIL COMPANY

- C. The estimated depths at which anticipated water, oil or natural gas can be expected are:
- Water: Possible surface water between 100' - 300'.
Oil: Penrose @ 1520'
Gas: Wolfcamp @ 6900'
- D. Proposed Casing Program: See Form 3160-3
- E. Pressure Control Equipment: See Form 3160-3 and Exhibit "D".
- F. Mud Program: See Form 3160-3.
- G. Auxiliary Equipment: Mud-gas separator, PVT system, and Hydraulic choke from 6,000' to T.D.
- H. Testing and Coring Program: Possibility of 4 DST's in the following zones: Wolfcamp, Cisco, Strawn, Morrow. No cores are planned at this time.
- I. Logging: Gamma Ray - Spectral Density Dual Spaced Neutron Log from T.D. to surface.
Gamma Ray - Dual LaterLog - Micro Guard Log from T. D. to Intermediate casing.
- J. No abnormal pressures or temperatures are anticipated. In the event abnormal pressures are encountered the proposed mud program will be modified to accomodate the increased pressures.
- K. Anticipated Starting Date: As soon as possible after BLM approval.

11. OPERATOR'S REPRESENTATIVES:

The field representatives responsible for assuring compliance with the approved surface use and operations plan are as follows:

Kelly Ryan	(505) 393-5905	Box 5270
Bill Pierce	24. hour aswering	Hobbs, NM
Greg Milner	service.	88241

7. ANCILLARY FACILITIES:

A. None required.

8. WELLSITE LAYOUT:

A. Exhibit "C" shows the relative location and dimensions of the well pad, mud pits, reserve pits, trash container and location of major rig components.

B. A 400' X 400' area has been flagged surround-
the staked well.

9. PLANS AND RESTORATION OF THE SURFACE:

A. After completion of drilling and/or completion operations, all equipment not needed for producing operations will be removed. Pits will be filled in after all fluids have evaporated and the location cleaned of all trash and junk to leave the wellsite in an asthetically pleasing condition as reasonably possible. All production facilities left on location will be painted to conform with BLM painting regulations within 120 days of completion.

10. OTHER INFORMATION:

A. The geologic surface formation is hard clay interspersed with sand and chert outcroppings. Vegetative covering is generally sparse except in low-lying areas where grass is prevelant. Other vegetative covering consists mostly of greasewood and bear grass.

B. The estimated tops of geologic markers are as follows:

Queen	1260'	Cisco	7740'
✓ San Andres	2100'	Canyon	8350'
Glorieta	3720'	Strawn	8900'
✓ Tubb	4930'	Atoka	9500'
✓ Abo	5900'	✓ Morrow	9600'
✓ Wolfcamp	6900'	Miss.	10,100'

4. LOCATION AND TYPE OF WATER SUPPLY:

- A. Water will be purchased from trucking companies servicing this area and will be trucked to the wellsite over existing and/or proposed roads shown on Exhibits "A" and "AA".

5. LOCATION OF CONSTRUCTION MATERIALS:

- A. Caliche for construction of the location and any needed road repairs hopefully will come from the location itself. If this is not possible, caliche will be taken from a BLM pit located in the NE4/NW4 of Sec. 12-T18S-R27E which is BLM pit #18271203. This pit also extends into the SE4/SW4 of Sec. 1-T18S-R27E which is BLM pit #18270114. An alternative pit which may be used in the event BLM pit #18271203 contains unsuitable material is a BLM pit located in the SW4/NE4 of Sec. 1-T18S-R27E which is BLM pit #18270107.

6. METHODS OF HANDLING WASTE DISPOSAL:

- A. Drill cuttings will be disposed of in the drilling pits.
- B. Drilling fluids will be allowed to evaporate in the drilling pits until pits are dry.
- C. Water used and produced during stimulation, production testing, squeezing operations etc. will be disposed of in the drilling pits. Oil produced during tests will be stored on site in steel test tanks until sold.
- D. Current laws and regulations pertaining to the disposal of human waste will be complied with.
- E. All trash, junk and other waste material will be contained in an appropriate container to prevent scattering and will be removed and deposited in an approved sanitary landfill.
- F. All trash and debris will be buried or removed from the wellsite within 90 days after drilling and/or completion operations have ceased.

MULTI-POINT SURFACE USE AND OPERATING PLAN
MEWBOURNE OIL COMPANY
CHALK BLUFF FEDERAL WELL NO. 3
1980' FSL & 990' FEL OF SEC. 1-T18S-R30E
EDDY COUNTY, NEW MEXICO
NEW MEXICO LEASE NO. NM-016788

This plan is submitted with the Application for Permit to Drill (APD) the above captioned well. The purpose of the plan is to describe the location of the proposed well, the proposed construction activities, operations plan and the magnitude of necessary surface disturbance involved, so that a complete, comprehensive appraisal can be made as to the environmental effects associated with this operation. The surface is owned by the Federal Government and is managed by the Bureau of Land Management.

1. **EXISTING ROADS:**

- A. From the junction of U. S. 82 and U. S. 285 Highways in Artesia, proceed east on U. S. 82 12 miles. Turn right (south) on Eddy County Road #206 (Illinois Camp Road) and proceed south for 1.75 miles. Turn right (northwest) on Eddy County Road #204 and proceed .75 miles. Turn left (west) on caliche lease road and proceed 1 mile. Turn right (north) 100 yards on caliche lease road and location will be on the right hand side of the lease road. (Exhibit "A" & "AA")
- B. Culverts: None required
- C. Cuts and Fills: A two foot cut will be required to construct the location.
- D. Turn-Outs: None required.
- E. Gates or Cattleguards: None required.

2. **LOCATION OF EXISTING WELLS**

- A. Existing wells in a 1 mile radius are shown on Exhibit "B".

3. **LOCATION OF PROPOSED ACTIVITIES:**

- A. If the well is productive, all production facilities will be constructed on the existing pad.

DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

SUBMIT IN TRIPPLICATE*
(Other ins' tions on
revera e)

Form approved.
Budget Bureau No. 1004-0136
Expires August 31, 1985

31-115-27163
5. LEASE DESIGNATION AND SERIAL NO.
NM-016788 0557371

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME
Chalk Bluff Fed. Comm.

9. WELL NO.
3

10. FIELD AND POOL, OR WILDCAT
North Illinois Camp Morrow

11. SEC., T., R., M., OR BLK.
AND SURVEY OR AREA
18S 27E
1-T17S-R29E

12. COUNTY OR PARISH 13. STATE
Eddy NM

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. TYPE OF WORK
DRILL DEEPEN PLUG BACK

b. TYPE OF WELL
OIL WELL GAS WELL OTHER SINGLE ZONE MULTIPLE ZONE

2. NAME OF OPERATOR
Mewbourne Oil Company

3. ADDRESS OF OPERATOR
Box 5270 Hobbs, New Mexico 88241

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements)
At surface
1980' FSL and 990' FEL
At proposed prod. zone
Same

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE*
12 miles southeast of Artesia, New Mexico

16. NO. OF ACRES IN LEASE
320

18. DISTANCE FROM PROPOSED LOCATION* TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT.
2040'

21. ELEVATIONS (Show whether DF, RT, GR, etc.)
3628' GR

RECEIVED
OCT 13 1992
C. D. ARTESIA OFFICE

17. NO. OF ACRES ASSIGNED TO THIS WELL
320

20. ROTARY OR CABLE TOOLS
Rotary

22. APPROX. DATE WORK WILL START*
Upon BLM approval

23. PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
17 1/2"	13 3/8"	61#	400' ±	450 sks. Class C circulated
12 1/4"	9 5/8"	36#	2,600' ±	800 sks. Tie back into surface.
8 3/4"	5 1/2"	17 & 20#	10,300' ±	600 sks. of Class "H" SEE strips.

Mud Program:
0-400' Spud mud with fresh water gel and lime. LCM as needed.
400' - 2600' Fresh water gel and lime. LCM as needed.
2,600' - 8500' Cut brine with lime for pH control. Wt. 9.2 - 9.6# ppg, WL - NC. LCM as needed.
8,500 - 10.300' Cut brine with Drispac, salt gel, lime, soda ash, and starch. Wt. 9.2 - 9.6 ppg. WL 10 CC or less. Raise weight accordingly if abnormal pressures are encountered.

BOP PROGRAM:
900 series BOP and Hydrill on 13 3/8" surface casing and on 9 5/8" intermediate casing.

Gas is not dedicated.
IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen or plug back, give data on present productive zone and proposed new productive zone. If proposal is to drill or deepen directionally, give pertinent data on subsurface locations and measured and true vertical depths. Give blowout preventer program, if any.

24. SIGNED [Signature] TITLE District Superintendent DATE 09/09/1992

(This space for Federal or State office use)

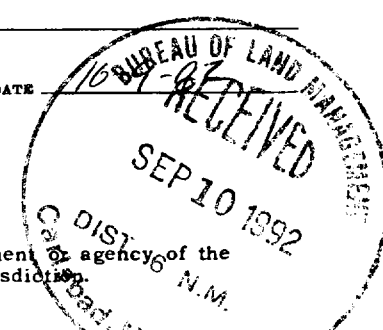
PERMIT NO. _____ APPROVAL DATE _____

APPROVED BY _____ TITLE _____ DATE _____

CONDITIONS OF APPROVAL, IF ANY:
APPROVAL SUBJECT TO
GENERAL REQUIREMENTS AND
SPECIAL STIPULATIONS
ATTACHED

*See Instructions On Reverse Side

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.



INSTRUCTIONS

GENERAL: This form is designed for submitting proposals to perform certain well operations, as indicated, on all types of lands and leases for appropriate action by either a Federal or a State agency, or both, pursuant to applicable Federal and/or State laws and regulations. Any necessary special instructions concerning the use of this form and the number of copies to be submitted, particularly with regard to local, area, or regional procedures and practices, either are shown below or will be issued by, or may be obtained from, the local Federal and/or State office.

ITEM 1: If the proposal is to redrill to the same reservoir at a different subsurface location or to a new reservoir, use this form with appropriate notations. Consult applicable State or Federal regulations concerning subsequent work proposals or reports on the well.

ITEM 4: If there are no applicable State requirements, locations on Federal or Indian land should be described in accordance with Federal requirements. Consult local State or Federal office for specific instructions.

ITEM 14: Needed only when location of well cannot readily be found by road from the land or lease description. A plat, or plats, separate or on this reverse side, showing the roads to, and the surveyed location of, the well, and any other required information, should be furnished when required by Federal or State agency offices.

ITEMS 15 AND 18: If well is to be, or has been directionally drilled, give distances for subsurface location of hole in any present or objective production zone.

ITEM 22: Consult applicable Federal or State regulations, or appropriate officials, concerning approval of the proposal before operations are started.

NOTICE

The Privacy Act of 1974 and the regulation in 43 CFR 2.48(d) provide that you be furnished the following information in connection with information required by this application.

AUTHORITY: 30 U.S.C. 181 et seq., 25 U.S.C. 396; 43 CFR Part 3160.

PRINCIPAL PURPOSE: The information is to be used to process and evaluate your application for permit to drill, deepen, or plug back an oil or gas well.

ROUTINE USES: (1) The analysis of the applicant's proposal to discover and extract the Federal or Indian resources encountered. (2) The review of procedures and equipment and the projected impact on the land involved. (3) The evaluation of the effects of proposed operation on surface and subsurface water and other environmental impacts. (4)(5) Information from the record and/or the record will be transferred to appropriate Federal, State, local or foreign agencies, when relevant to civil, criminal or regulatory investigations or prosecutions, as well as routine regulatory responsibility.

EFFECT OF NOT PROVIDING INFORMATION: Filing of this application and disclosure of the information is mandatory only if the lessee elects to initiate drilling operations on an oil and gas lease.

The Paperwork Reduction Act of 1980 (44 U.S.C. 3501 et seq) requires us to inform you that:

This information is being collected to allow evaluation of the technical, safety, and environmental factors involved with drilling for oil and/or gas on Federal and Indian oil and gas leases.

This information will be used to analyze and approve applications.

Response to this request is mandatory only if the lessee elects to initiate drilling operations on an oil and gas lease.

dsf

RECEIVED

JAN 04 1993

Form 3160-5
(June 1990)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

O. C. D.
ADDITIONAL SERVICE

FORM APPROVED
Budget Bureau No. 1004-0135
Expires: March 31, 1993

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or to deepen or reentry to a different reservoir.
Use "APPLICATION FOR PERMIT—" for such proposals

SUBMIT IN TRIPLICATE

1. Type of Well

Oil Well Gas Well Other

2. Name of Operator

Mewbourne Oil Company

3. Address and Telephone No.

P.O. Box 5270 Hobbs, New Mexico 88241 (505) 393-5905

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)

1980' FSL & 990' FEL
Sec. 1-T18S-R27E

5. Lease Designation and Serial No.

NM-0557377

6. If Indian, Allottee or Tribe Name

7. If Unit or CA, Agreement Designation

8. Well Name and No.

Chalk Bluff Federal
Comm. #3

9. API Well No.

3001527163

10. Field and Pool, or Exploratory Area

North Illinois Camp

11. County or Parish, State

Morrow

Eddy Co., N.M.

12. CHECK APPROPRIATE BOX(S) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION

Notice of Intent
 Subsequent Report
 Final Abandonment Notice

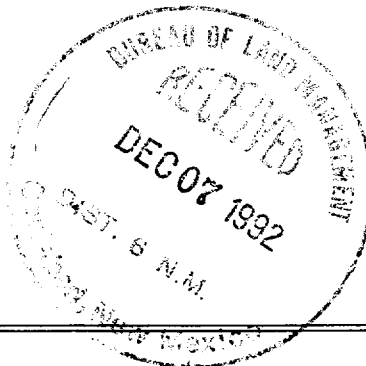
TYPE OF ACTION

Abandonment
 Recompletion
 Plugging Back
 Casing Repair
 Altering Casing
 Other Spud well & cemented
13-3/8" surf. csg.
 Change of Plans
 New Construction
 Non-Routine Fracturing
 Water Shut-Off
 Conversion to Injection
 Dispose Water

(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

13. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

Spudded well @ 4:00 p.m. MST 11/24/92. Drilled 17-1/2" surface hole to 400' KB. Ran 10 joints of 13-3/8", 54.50#, New LS, ST&C casing and set @ 400' KB. Western cemented w/100 sks. Class "H" cement containing 12% Thixad + 3% CaCl2 followed by 265 sks. of Class "C" containing 6% Gel + 3% CaCl2 + 1/4 pps celloseal + 5 pps gilsonite followed by 150 sks. of Class "C" neet containing 3% CaCl2. Circulated 50 sks. of cement to the pit. Job complete @ 5:30 a.m. 11/25/92.



14. I hereby certify that the foregoing is true and correct

Signed Bill Pierce

Title Drilling Supt.

Date 12/02/92

(This space for Federal or State office use)

Approved by [Signature]

Title _____

Date _____

Conditions of approval, if any:

1992

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

GENERAL INSTRUCTIONS

This form is designed for submitting proposals to perform certain well operations, and reports of such operations when completed, as indicated, on Federal and Indian lands pursuant to applicable Federal law and regulations, and, if approved or accepted by any State, on all lands in such State, pursuant to applicable State law and regulations. Any necessary special instructions concerning the use of this form and the number of copies to be submitted, particularly with regard to local area, or regional procedures and practices, either are shown below or will be issued by, or may be obtained from, the local Federal and/or State office.

SPECIFIC INSTRUCTIONS

Item 4—If there are no applicable State requirements, locations on Federal or Indian land should be described in accordance with Federal requirements. Consult local State or Federal office for specific instructions.

Item 3—Proposals to abandon a well and subsequent reports of abandonment should include such special information as is required by local Federal and/or State offices. In addition, such proposals and reports should include reasons for the abandonment; data on any former or present productive zones, or other zones with present significant fluid contents not sealed off by cement or otherwise; depths (top and bottom) and method of placement of cement plugs; mud or other material placed below, between and above plugs; amount, size, method of parting of any casing, liner or tubing pulled and the depth to top of any left in the hole; method of closing top of well; and date well site conditioned for final inspection looking to approval of the abandonment.

The Privacy Act of 1974 and the regulation in 43 CFR 2.48(d) provide that you be furnished the following information in connection with information required by this application.

AUTHORITY: 30 U.S.C. 181 et. seq., 351 et. seq., 25 U.S.C. et. seq.; 43 CFR 3160.

PRINCIPAL PURPOSE — The information is to be used to evaluate, when appropriate, approve applications, and report completion of secondary well operations, on a Federal or Indian lease.

ROUTINE USES:

(1) Evaluate the equipment and procedures used during the proposed or completed subsequent well operations.

(2) Request and grant approval to perform those actions covered by 43 CFR 3162.3-2(2).

(3) Analyze future applications to drill or modify operations in light of data obtained and methods used.

(4)(5) Information from the record and/or the record will be transferred to appropriate Federal, State, local or foreign agencies, when relevant to civil, criminal or regulatory investigations or prosecutions.

EFFECT OF NOT PROVIDING INFORMATION — Filing of this notice and report and disclosure of the information is mandatory once an oil or gas well is drilled.

The Paperwork Reduction Act of 1980 (44 U.S.C. 3501, et. seq.) requires us to inform you that: This information is being collected in order to evaluate proposed and/or completed subsequent well operations on Federal or Indian oil and gas leases.

This information will be used to report subsequent operations once work is completed and when requested, to obtain approval for subsequent operations not previously authorized. Response to this request is mandatory for the specific types of activities specified in 43 CFR Part 3160.

BURDEN HOURS STATEMENT

Public reporting burden for this form is estimated to average 25 minutes per response, including the time for reviewing instructions, gathering and maintaining data, and completing and reviewing the form. Direct comments regarding the burden estimate or any other aspect of this form to U.S. Department of the Interior, Bureau of Land Management, (Alternate) Bureau Clearance Officer, (WO-771), 18 and C Streets, N.W., Washington, D.C. 20240, and the Office of Management and Budget, Paperwork Reduction Project (1004-0135), Washington, D.C. 20503.

CISF

RECEIVED

Form 3160-5
(June 1990)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

JAN 04 1993

O. C. D.
APPROPRIATE OFFICE

FORM APPROVED
Budget Bureau No. 1004-0135
Expires: March 31, 1993

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or to deepen or reentry to a different reservoir.
Use "APPLICATION FOR PERMIT—" for such proposals

SUBMIT IN TRIPLICATE

1. Type of Well
 Oil Well Gas Well Other

2. Name of Operator
 Mewbourne Oil Company

3. Address and Telephone No.
 P.O. Box 5270 Hobbs, New Mexico 88241 (505) 393-5905

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)
 1980' FSL & 1980' FEL
 Sec. 1-T18S-R27E

5. Lease Designation and Serial No.
 NM-0557371

6. If Indian, Allottee or Tribe Name

7. If Unit or CA, Agreement Designation

8. Well Name and No.
 Chalk Bluff Federal

9. API Well No. Comm. #3

3001527163

10. Field and Pool, or Exploratory Area
 N. Illinois Camp Morrow

11. County or Parish, State
 Eddy Co., New Mexico

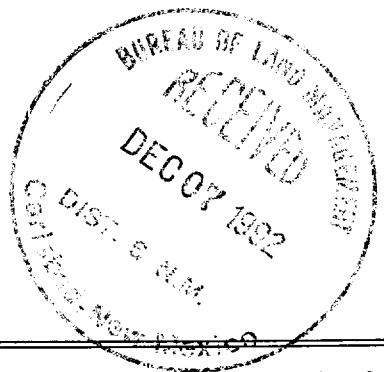
12. CHECK APPROPRIATE BOX(S) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION
<input type="checkbox"/> Notice of Intent	<input type="checkbox"/> Abandonment
<input checked="" type="checkbox"/> Subsequent Report	<input type="checkbox"/> Recompletion
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Plugging Back
	<input type="checkbox"/> Casing Repair
	<input type="checkbox"/> Altering Casing
	<input checked="" type="checkbox"/> Other <u>Cement 9-5/8" Inter. Casing</u>
	<input type="checkbox"/> Change of Plans
	<input type="checkbox"/> New Construction
	<input type="checkbox"/> Non-Routine Fracturing
	<input type="checkbox"/> Water Shut-Off
	<input type="checkbox"/> Conversion to Injection
	<input type="checkbox"/> Dispose Water

(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

13. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

Drilled 12-1/4" Intermediate hole to 2600' KB. Ran 59 joints of 9-5/8", 36#, New LS, ST&C casing and set @ 2600' KB. Western cemented with 590 sacks of Class "C" lite containing 6% gel + 10 pps NaCl + 1/4 pps celloseal followed by 250 sacks of Class "C" containing 2% CaCl2. Circulated 50 sacks of cement to the pit. Job complete @ 11: 50 p.m. 11/29/92.



14. I hereby certify that the foregoing is true and correct

Signed Bill Pierce Title Drilling Supt. Date 12-02-92

(This space for Federal or State office use)

Approved by David H. Glass Title _____ Date _____

Conditions of approval, if any:

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AUTHORITY: 30 U.S.C. 181 et. seq., 351 et. seq., 25 U.S.C. et. seq.; 43 CFR 3160.

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(2) Request and grant approval to perform those actions covered by 43 CFR 3162.3-2(2).

(3) Analyze future applications to drill or modify operations in light of data obtained and methods used.

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The Paperwork Reduction Act of 1980 (44 U.S.C. 3501, et. seq.) requires us to inform you that: This information is being collected in order to evaluate proposed and/or completed subsequent well operations on Federal or Indian oil and gas leases.

This information will be used to report subsequent operations once work is completed and when requested, to obtain approval for subsequent operations not previously authorized.

Response to this request is mandatory for the specific types of activities specified in 43 CFR Part 3160.

BURDEN HOURS STATEMENT

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UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM APPROVED
Budget Bureau No. 1004-0135
Expires: March 31, 1993

95F

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or to deepen or reentry to a different reservoir.
Use "APPLICATION FOR PERMIT—" for such proposals

SUBMIT IN TRIPLICATE

1. Type of Well <input type="checkbox"/> Oil Well <input checked="" type="checkbox"/> Gas Well <input type="checkbox"/> Other	5. Lease Designation and Serial No. NM-0557371
2. Name of Operator Mewbourne Oil Company	6. If Indian, Allottee or Tribe Name
3. Address and Telephone No. P.O. Box 5270 Hobbs, New Mexico 88241	7. If Unit or CA, Agreement Designation
4. Location of Well (Footage, Sec., T., R., M., or Survey Description) 1980' FSL & 1980' FEL Sec. 1-T18S-R27E	8. Well Name and No. Chalk Bluff Fed. Comm. 3
	9. API Well No. 30-015-27163
	10. Field and Pool, or Exploratory Area N. Illinois Camp Morrow
	11. County or Parish, State Eddy

12. CHECK APPROPRIATE BOX(S) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION
<input type="checkbox"/> Notice of Intent	<input type="checkbox"/> Abandonment
<input checked="" type="checkbox"/> Subsequent Report	<input type="checkbox"/> Recompletion
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Plugging Back
	<input type="checkbox"/> Casing Repair
	<input type="checkbox"/> Altering Casing
	<input checked="" type="checkbox"/> Other <u>Cement 7" casing</u>
	<input type="checkbox"/> Change of Plans
	<input type="checkbox"/> New Construction
	<input type="checkbox"/> Non-Routine Fracturing
	<input type="checkbox"/> Water Shut-Off
	<input type="checkbox"/> Conversion to Injection
	<input type="checkbox"/> Dispose Water

(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

13. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

Lost complete returns @ 7683'. Dry drilled 8-3/4" hole to 8968'. Ran 226 Jts. of 7", 26# & 29#, N-80 & S-95 grade used API casing and set @ 8968'. Multiple stage cementer @ 6997' and external casing packer @ 7026'. Western cemented the first stage w/350 sks. of Class "H" containing 8 pps CSE + .75% CF-14 + 5 pps Gilsonite + .35% Thrifty Lite. Set ECP and opened DV tool. Cemented 2nd stage w/750 sks. of Class "C" containing 1 pps celloseal + 5 pps gilsonite + 3% salt followed by 100 sks. of Class "H" Neet. Plug down to 6997' @ 2:45 a.m. 12/26/92

ACCEPTED FOR RECORD
(OR G. SGD.) DAVID R. GLASS
FEB 4 1993
CARLSBAD, NEW MEXICO

CARLSBAD DISTRICT OFFICE
AREA ENGINEERS
JAN 25 9 40 AM '93

RECEIVED

14. I hereby certify that the foregoing is true and correct

Signed Bill Pierce Title Drilling Superintendent Date 01/20/93

(This space for Federal or State office use)

Approved by _____ Title _____ Date _____
Conditions of approval, if any:

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM APPROVED
Budget Bureau No. 1004-0135
Expires March 31, 1993

QSF

SUNDRY NOTICES AND REPORTS ON WELLS

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Use "APPLICATION FOR PERMIT—" for such proposals

SUBMIT IN TRIPLICATE

1. Type of Well

Oil Well Gas Well Other

2. Name of Operator

Mewbourne Oil Company

3. Address and Telephone No.

P.O. Box 5270 Hobbs, New Mexico 88241

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)

1980' FSL & ~~1980'~~ FEL
Sec. 1-T18S-R27E

5. Lease Designation and Serial No.

NM-0557371

6. If Indian, Allottee or Tribe Name

7. If Unit or CA, Agreement Designation

8. Well Name and No.

Chalk Bluff Fed. Comm. #3

9. API Well No.

30-015-27163

10. Field and Pool, or Exploratory Area

N. Illinois Camp Morrow

11. County or Parish, State

Eddy

12. CHECK APPROPRIATE BOX(S) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION
<input type="checkbox"/> Notice of Intent	<input type="checkbox"/> Abandonment
<input checked="" type="checkbox"/> Subsequent Report	<input type="checkbox"/> Recompletion
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Plugging Back
	<input type="checkbox"/> Casing Repair
	<input type="checkbox"/> Altering Casing
	<input checked="" type="checkbox"/> Other <u>Run 4-1/2" liner</u>
	<input type="checkbox"/> Change of Plans
	<input type="checkbox"/> New Construction
	<input type="checkbox"/> Non-Routine Fracturing
	<input type="checkbox"/> Water Shut-Off
	<input type="checkbox"/> Conversion to Injection
	<input type="checkbox"/> Dispose Water

(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

13. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

Drilled well to a total depth of 10,150' w/6" hole, ran 45 jts. of 4-1/2", 11.6#, N-80, used API casing and hung liner from 8599' to 10,150'. Western cemented w/200 sks. of Class "H" containing 5 pps CSE + 20 pps SF-3 + .9% CF-14 + 1 gal./100 sacks of Klay-Treat. Plug down to 10,113' @ 5:00 a.m. 01/06/93. Released rig and moved off location. 01/08/93

ACCEPTED FOR RECORD
(ORIG. SGD.) DAVID R. GLASS
FEB 4 1993
CLARK COUNTY, NEW MEXICO

RECEIVED
JAN 25 9 40 AM '93
CLARK COUNTY RECORDS AREA

14. I hereby certify that the foregoing is true and correct

Signed Bill Pierce

Title Drilling Superintendent

Date 01/21/93

(This space for Federal or State office use)

Approved by _____

Title _____

Date _____

Conditions of approval, if any:

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

SEC 1 TWN 18 RGE 27

API # 30-015-27163

OPERATOR MEWBOURNE OIL CO

WELL NAME CHALK BLUFF FEO Com #3

STATE OCD TOPS AS PER MARK ASHLEY

DATE 1-25-93

Southeastern New Mexico

Northwestern New Mexico

Anhy _____	T. Canyon _____	T. Ojo Alamo _____	T. Perm "B" _____
Salt _____	T. Strawn _____ 8932	T. Kirtland-Fruitland _____	T. Perm "C" _____
Salt _____	T. Atoka _____ 9490	T. Picured Cliffs _____	T. Perm "D" _____
Yates _____ 450	T. Miss _____	T. Cliff House _____	T. Leadville _____
7 Rivers _____ 565	T. Devonian _____	T. Menefee _____	T. Madison _____
Queen _____ 1159	T. Silurian _____	T. Point Lookout _____	T. Elbert _____
Grayburg _____ 1494	T. Momoya _____	T. Mancos _____	T. McCracken _____
San Andres _____ 1485	T. Simpson _____	T. Gallup _____	T. Ignacio Otzie _____
Glorieta _____ 3535	T. McKee _____	Base Greenhorn _____	T. Granite _____
Paddock _____	T. Ellenburger _____	T. Dakota _____	T. _____
Blincbry _____	T. Gr. Wash _____	T. Morrison _____	T. _____
Tubb _____ 4760	T. Delaware Sand _____	T. Todilto _____	T. _____
Drinkard _____	T. Bone Springs _____	T. Enrada _____	T. _____
Abo _____ 5745	T. <u>Morrow LS</u> _____ 9710	T. Wingate _____	T. _____
Wolfcamp _____ 6475	T. _____	T. Chinle _____	T. _____
T. Perm _____ 7970	T. _____	T. Permian _____	T. _____
T. Cisco (Bough C) _____	T. _____	T. Perm "A" _____	T. _____

OIL OR GAS SANDS OR ZONES

No. 1, from.....to..... No. 3, from.....to.....
No. 2, from.....to..... No. 4, from.....to.....

IMPORTANT WATER SANDS

Include data on rate of water inflow and elevation to which water rose in hole.

No. 1, from.....to..... feet
No. 2, from.....to..... feet
No. 3, from.....to..... feet

REMARKS:

CISF
H
GT
DP

Submit 5 Copies
Appropriate District Office
DISTRICT I
P.O. Box 1980, Hobbs, NM 88240

DISTRICT II
P.O. Drawer DD, Artesia, NM 88210

DISTRICT III
1000 Rio Brazos Rd., Aztec, NM 87410

State of New Mexico
Energy, Minerals and Natural Resources Department

Form C-104
Revised 1-1-89
See Instructions
at Bottom of Page

OIL CONSERVATION DIVISION
P.O. Box 2088
Santa Fe, New Mexico 87504-2088

RECEIVED
JAN 29 1993

**REQUEST FOR ALLOWABLE AND AUTHORIZATION
TO TRANSPORT OIL AND NATURAL GAS**

O. C. D.
ARTEC 10 4526

I.

Operator Mewbourne Oil Company	Well API No. 30-015-27163
Address P.O. Box 5270 Hobbs, New Mexico 88241	
Reason(s) for Filing (Check proper box) <input type="checkbox"/> Other (Please explain)	
New Well <input checked="" type="checkbox"/>	Change in Transporter of:
Recompletion <input type="checkbox"/>	Oil <input type="checkbox"/> Dry Gas <input type="checkbox"/>
Change in Operator <input type="checkbox"/>	Casinghead Gas <input type="checkbox"/> Condensate <input type="checkbox"/>

If change of operator give name and address of previous operator _____

II. DESCRIPTION OF WELL AND LEASE

Lease Name Chalk Bluff Federal Comm.	Well No. 3	Pool Name, Including Formation North Illinois Camp Morrow	Kind of Lease Oil , Federal or Gas	Lease No. NM-0557371
Location Unit Letter <u>I</u> : <u>1980</u> Feet From The <u>South</u> Line and <u>990</u> Feet From The <u>East</u> Line Section <u>1</u> Township <u>18S</u> Range <u>27E</u> , <u>NMPM</u> , <u>Eddy</u> County				

III. DESIGNATION OF TRANSPORTER OF OIL AND NATURAL GAS

Name of Authorized Transporter of Oil <input type="checkbox"/> or Condensate <input checked="" type="checkbox"/>	Address (Give address to which approved copy of this form is to be sent)
Amoco Pipeline IPC	502 N. West Ave. Levelland, Tx. 79336-3914
Name of Authorized Transporter of Casinghead Gas <input type="checkbox"/> or Dry Gas <input checked="" type="checkbox"/>	Address (Give address to which approved copy of this form is to be sent)
Transwestern Pipeline Company	P.O. Box 1188 Houston, Texas 77251
If well produces oil or liquids, give location of tanks.	Unit | Sec. | Twp. | Rge. | Is gas actually connected? | When ?
	I | 1 | 18S | 27E | Yes | 01/15/93

If this production is commingled with that from any other lease or pool, give commingling order number: None

IV. COMPLETION DATA

Designate Type of Completion - (X)	Oil Well	Gas Well	New Well	Workover	Deepen	Plug Back	Same Res'v	Diff Res'v
		X	X					
Date Spudded 11/24/92	Date Compl. Ready to Prod. 01/16/93	Total Depth 10,150'		P.B.T.D. 10,102'				
Elevations (DF, RKB, RT, GR, etc.) KB 3643' DF 3641' GL 3628' Lower Morrow		Name of Producing Formation		Top Oil/Gas Pay 9950'		Tubing Depth 9972'		
Perforations 9950'-9954' 9957'-9972'				Depth Casing Shoe 10,150'				

TUBING, CASING AND CEMENTING RECORD

HOLE SIZE	CASING & TUBING SIZE	DEPTH SET	SACKS CEMENT
17-1/2"	13-3/8" 54.5#	400'±	100 sacks <u>PORTED-2</u>
12-1/4"	9-5/8" 36#	2,600'	250 sacks <u>2-12-93</u>
8-3/4"	7" 26#	8,968'	1200 sacks <u>comp 4 BLS</u>
6"	4-1/2" Liner 11.6#	8,600' to 10,150'	200 sacks

V. TEST DATA AND REQUEST FOR ALLOWABLE 2-3/8" & 2-7/8"

OIL WELL (Test must be after recovery of total volume of load oil and must be equal to or exceed top allowable for this depth or be for full 24 hours.)

Date First New Oil Run To Tank	Date of Test	Producing Method (Flow, pump, gas lift, etc.)	
Length of Test	Tubing Pressure	Casing Pressure	Choke Size
Actual Prod. During Test	Oil - Bbls.	Water - Bbls.	Gas- MCF

GAS WELL

Actual Prod. Test - MCF/D 2000 MCF/D	Length of Test 24 Hrs.	Bbls. Condensate/MMCF 30 : 1	Gravity of Condensate N/A
Testing Method (pilot, back pr.) Back Pressure	Tubing Pressure (Shut-in) 2850	Casing Pressure (Shut-in) 0	Choke Size 10/64"

VI. OPERATOR CERTIFICATE OF COMPLIANCE

I hereby certify that the rules and regulations of the Oil Conservation Division have been complied with and that the information given above is true and complete to the best of my knowledge and belief.

R. A. Jones
Signature
Robert A Jones Engineer
Printed Name
01/19/93 Date
(505) 393-5905 Telephone No.

OIL CONSERVATION DIVISION
JAN 29 1993
Date Approved _____
By ORIGINAL SIGNED BY
MIKE WILLIAMS
Title SUPERVISOR, DISTRICT II

INSTRUCTIONS: This form is to be filed in compliance with Rule 1104

- 1) Request for allowable for newly drilled or deepened well must be accompanied by tabulation of deviation tests taken in accordance with Rule 111.
- 2) All sections of this form must be filled out for allowable on new and recompleted wells.
- 3) Fill out only Sections I, II, III, and VI for changes of operator, well name or number, transporter, or other such changes.
- 4) Separate Form C-104 must be filed for each pool in multiply completed wells.



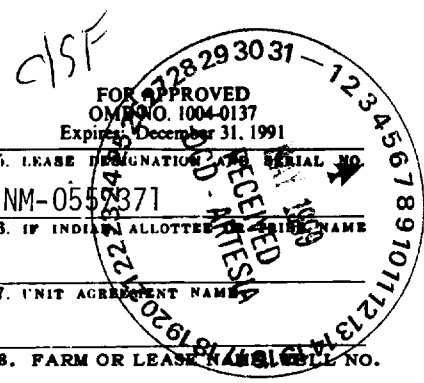
LTR



Job separation sheet

**UNITED STATES DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT**

SUBMIT IN DUPLICATE
See other instructions on reverse side



5. LEASE DESIGNATION AND SERIAL NO.
NM-0558371

6. IF INDIAN ALLOTTEE, NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NO.
Chalk Bluff Fed. Comm. #3

9. API WELL NO.
30-015-27163

10. FIELD AND POOL, OR WILDCAT
N. Illinois Camp Morrow

11. SEC., T., R., M., OR BLOCK AND SURVEY OR AREA
Sec. 1-T18S-R27E

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

1a. TYPE OF WELL: OIL WELL GAS WELL DRY Other

b. TYPE OF COMPLETION: NEW WELL WORK OVER DEEP-EN PLUG BACK Other

CONFIDENTIAL

2. NAME OF OPERATOR
Mewbourne Oil Company

3. ADDRESS AND TELEPHONE NO.
P.O. Box 5270 Hobbs, New Mexico 88241 (505) 393-5905

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements)*
At surface 1980' FSL & 990' FEL
At top prod. interval reported below
At total depth Same

14. PERMIT NO. _____ DATE ISSUED _____

12. COUNTY OR PARISH
Eddy

13. STATE
N.M.

15. DATE SPUDDED 11/24/92 16. DATE T.D. REACHED 01/06/93 17. DATE COMPL. (Ready to prod.) 01/16/93 18. ELEVATIONS (DF, RKB, RT, GR, ETC.)* KB 3643' DF 3641' GL 3628' 19. ELEV. CASINGHEAD 3628'

20. TOTAL DEPTH, MD & TVD 10,150' 21. PLUG, BACK T.D., MD & TVD 10,102' 22. IF MULTIPLE COMPL., HOW MANY* _____ 23. INTERVALS DRILLED BY ROTARY TOOLS X CABLE TOOLS _____

24. PRODUCING INTERVAL(S), OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD)*
9950'-9954', 9957'-9972' Lower Morrow Orange Sand

25. WAS DIRECTIONAL SURVEY MADE
Yes

26. TYPE ELECTRIC AND OTHER LOGS RUN
SDL-DSN Dual-Latero-MFSL-GR Sonic CBL

27. WAS WELL CORRD
No

28. CASING RECORD (Report all strings set in well)

CASING SIZE/GRADE	WEIGHT, LB./FT.	DEPTH SET (MD)	HOLE SIZE	TOP OF CEMENT, CEMENTING RECORD	AMOUNT PULLED
13-3/8"	54.5#	400'±	17-1/2"	100 sx. Class "H"	None
9-5/8"	36#	2,600'±	12-1/4"	250 sx. Class "C"	None
7"	26 & 29#	8,968'	8-3/4"	1200 sx. Class "C & H"	None

29. LINER RECORD

SIZE	TOP (MD)	BOTTOM (MD)	SACKS CEMENT*	SCREEN (MD)
4-1/2"	8600'	10,150'	200 sxs.	None

30. TUBING RECORD

SIZE	DEPTH SET (MD)	PACKER SET (MD)
2-7/8"	9972'	9797'
2-3/8"		

31. PERFORATION RECORD (Interval, size and number)
9950'-9954' 9957'-9972'
4 SPF 19' 76 holes

32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.

DEPTH INTERVAL (MD)	AMOUNT AND KIND OF MATERIAL USED
9950'-9954'	None
9957'-9972'	None

33. PRODUCTION

DATE FIRST PRODUCTION 01/16/93 PRODUCTION METHOD (Flowing, gas lift, pumping—size and type of pump) Flowing WELL STATUS (Producing or shut-in) Producing

DATE OF TEST	HOURS TESTED	CHOKS SIZE	PROD'N. FOR TEST PERIOD	OIL—BBL.	GAS—MCF.	WATER—BBL.	GAS-OIL RATIO
01/16/93	24	10/64"	→	50	2000	0	40 MCF/BBL

FLOW. TUBING PRSS.	CASING PRESSURE	CALCULATED 24-HOUR RATE	OIL—BBL.	GAS—MCF.	WATER—BBL.	OIL GRAVITY-API (CORR.)
2720	0	→	60	2000	0	

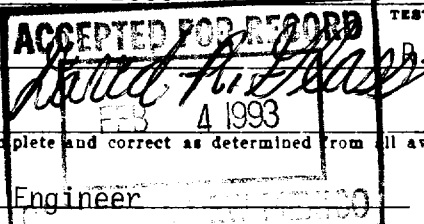
34. DISPOSITION OF GAS (Sold, used for fuel, vented, etc.)
Sold

TEST WITNESSED BY
R. Jones

35. LIST OF ATTACHMENTS
Logs- * Please hold in confidence

36. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records

SIGNED [Signature] TITLE Engineer DATE 01/21/93

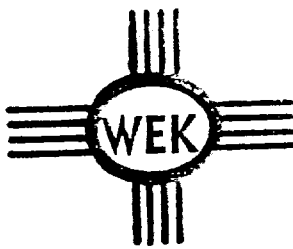


*(See Instructions and Spaces for Additional Data on Reverse Side)

38. SUMMARY OF POROUS ZONES: (Show all important zones of porosity and contents thereof; cored intervals; and all drill-stem tests, including depth interval tested, cushion used, flowing and shut-in pressures, and recoveries):

38. GEOLOGIC MARKERS

FORMATION	TOP	BOTTOM	DESCRIPTION, CONTENTS, ETC.	NAME	TOP	
					MEAS. DEPTH	TRUE VERT. DEPTH
M. Morrow	9950'	9972'	Sandstone	Yates	450'	
				7 Rivers	564'	
				Queen	1159'	
				Grayburg	1492'	
				San Andres	1985'	
				Glorieta	3536'	
				Tubb	4760'	
				Drinkard	5524'	
				Abo	5744'	
				Wolfcamp	6474'	
				Cisco	7686'	
				Canyon	8440'	
				Strawn	8932'	
				Atoka	9490'	
				Morrow	9594'	
				Morrow Clastic	9800'	
				L. Morrow	9911'	



DRILLING CO., INC. - OIL WELL DRILLING CONTRACTORS

KEN REYNOLDS-PRESIDENT
ARNIE NEWKIRK-VICE-PRESIDENT

RECEIVED

P. O. Box 1498 ROSWELL, NEW MEXICO 88202-1498
505/623-5070 ROSWELL, NM
505/746-2719 ARTESIA, NM

JAN 27 10 52 AM '93

CARD...
AREA...

January 06, 1993

Mewbourne Oil Company
P.O. Box 5270
Hobbs, N.M. 88240

RE: Chalk Bluff Federal #3

The following is a Deviation Survey on the above referenced well located in Eddy County, New Mexico.

400' - 3/4°	5033' - 2 3/4°	5813' - 4°
887' - 1°	5096' - 3°	5875' - 4°
1359' - 1°	5158' - 3°	5967' - 3 3/4°
1864' - 2°	5222' - 3 1/4°	6094' - 3 3/4°
2336' - 1 1/2°	5283' - 3 3/4°	6217' - 3 1/4°
2600' - 3/4°	5346' - 3 3/4°	6720' - 3 1/2°
2792' - 1 1/4°	5409' - 4°	7213' - 3°
3086' - 1°	5464' - 4 1/4°	7685' - 2 1/2°
3580' - 1 1/3°	5555' - 4 1/4°	8155' - 2 1/4°
4079' - 1°	5587' - 4 1/4°	8654' - 2°
4358' - 1 3/4°	5650' - 4 1/4°	9003' - 2°
4846' - 2 3/4°	5719' - 4 1/2°	9509' - 1/4°
		9837' - 3/4°
		10150' - 1 3/4° TD

Sincerely,

Gary W. Chappell
Contracts Manager

STATE OF NEW MEXICO)
COUNTY OF CHAVES }

The foregoing was acknowledged before me this 06th day of January 1993 by Gary W. Chappell.

MY COMMISSION EXPIRES
October 07, 1996

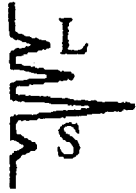
NOTARY PUBLIC

RECEIVED JAN 07 1993

COMPANY : MEWBOURNE OIL LEASE : CHALK BLUFF FED. COMMWELL NO. : 3 Pc = 2273.2 Pc2 = 5167.4 *
 UNIT : I SECTION : 1 TOWNSHIP : 18 *
 L : 9961 H : 9961 L/H : 1 G/GMIX : 0.849 Pt2 = 5031.9 Pw = 2244.7 *
 %CO2 : 0.42 %N2 : 0.33 H2S : DATE : 4810.1 2199.5 *
 d : 2.278 Fr : 0.012892 GH : 8456.9 RANGE : 27 4465.6 2132.7 *
 4053.0 2055.4 *

VOL 1 : 655 PSIA 1 : 2243.2 RESV. TEMP 173.6 Pc2-Pw2= 128.6 Pw2 = 5033.8 *
 VOL 2 : 1310 PSIA 2 : 2193.2 329.8 4837.6 *
 VOL 3 : 2283 PSIA 3 : 2113.2 SHUT-IN PR= 2273.2 618.9 4548.6 *
 VOL 4 : 3294 PSIA 4 : 2013.2 942.6 4224.8 *
 PCR : 668 n = 0.884 *
 TCR : 401 *

LINE	RATE 1		RATE 2		RATE 3		RATE 4		
	'1ST	'2ND	'1ST	'2ND	'1ST	'2ND	'1ST	'2ND	
1 GM	0.655	0.655	1.310	1.310	2.283	2.283	3.294	3.294	
2 TW	534	534	534	534	534	534	534	534	
3 Ts	633.6	633.6	633.6	633.6	633.6	633.6	633.6	633.6	[Pc2/Pc2-Pw2]n = 26.181
4 T	583.8	583.8	583.8	583.8	583.8	583.8	583.8	583.8	11.386
PR (est)	3.36		3.28		3.16		3.01		6.528
5 Z (est)	0.727	0.738	0.727	0.736	0.723	0.733	0.731	0.730	4.500
6 TZ	424.5	430.8	424.6	429.5	425.2	427.7	426.5	426.0	AOF= Q 17.148
7 GH/TZ	19.924	19.629	19.918	19.691	19.891	19.774	19.829	19.852	14.915
8 eS	2.111	2.088	2.110	2.093	2.108	2.099	2.104	2.105	14.903
9 l-e-S	0.526	0.521	0.526	0.522	0.526	0.524	0.525	0.525	14.823
10 Pt	2243.2	2243.2	2193.2	2193.2	2113.2	2113.2	2013.2	2013.2	
11 Pt2 /1000	5031.9	5031.9	4810.1	4810.1	4465.6	4465.6	4053.0	4053.0	
12 Fr	0.012892	0.012892	0.012892	0.012892	0.012892	0.012892	0.012892	0.012892	
13 Fc=FrTZ	5.472	5.555	5.474	5.537	5.481	5.514	5.498	5.492	
14 FcQn	3.58	3.64	7.17	7.25	12.51	12.59	13.11	18.09	
15 L/H(FcQn)	12.8	13.2	51.4	52.6	156.6	158.5	328.0	327.3	
16 Fw	6.761363	6.896568	27.05758	27.47157	82.32401	82.97298	172.0865	171.83059	
17 Pw2	5038.7	5038.8	4837.2	4837.6	4547.9	4548.6	4225.1	4224.8	
18 Ps2	10636.7	10519.8	10208.7	10123.1	9588.7	9547.9	8897.4	8894.3	
19 Ps	3261.4	3243.4	3195.1	3181.7	3096.6	3090.0	2981.2	2982.3	
20 P	2752.3	2743.3	2694.2	2687.4	2604.9	2601.6	2497.2	2497.8	
21 Pr	4.12	4.11	4.03	4.02	3.90	3.89	3.74	3.74	
22 Tr	1.46	1.46	1.46	1.46	1.46	1.46	1.46	1.46	
23 Z	0.733	0.733	0.736	0.735	0.733	0.732	0.730	0.730	



Laboratory Services

1331 Tasker Drive
Hobbs, New Mexico 88240

Telephone: (505) 397-3713

FOR: Mewbourne Oil Co.
Attention: Mr. R. Jones
P. O. Box 5270
Hobbs, New Mexico 88240

SAMPLE IDENTIFICATION: Chalk bluff #3
COMPANY: Mewbourne Oil Co.
LEASE:
PLANT:

SAMPLE DATA:	DATE SAMPLED:	3/4/93 12:30PM	GAS (XX)	LIQUID ()
	ANALYSIS DATE:	03-05-93	SAMPLED BY:	R. Jones
	PRESSURE - PSIG	530.0	ANALYSIS BY:	Rolland Perry
	SAMPLE TEMP. °F			
	ATMOS. TEMP. °F			

REMARKS:

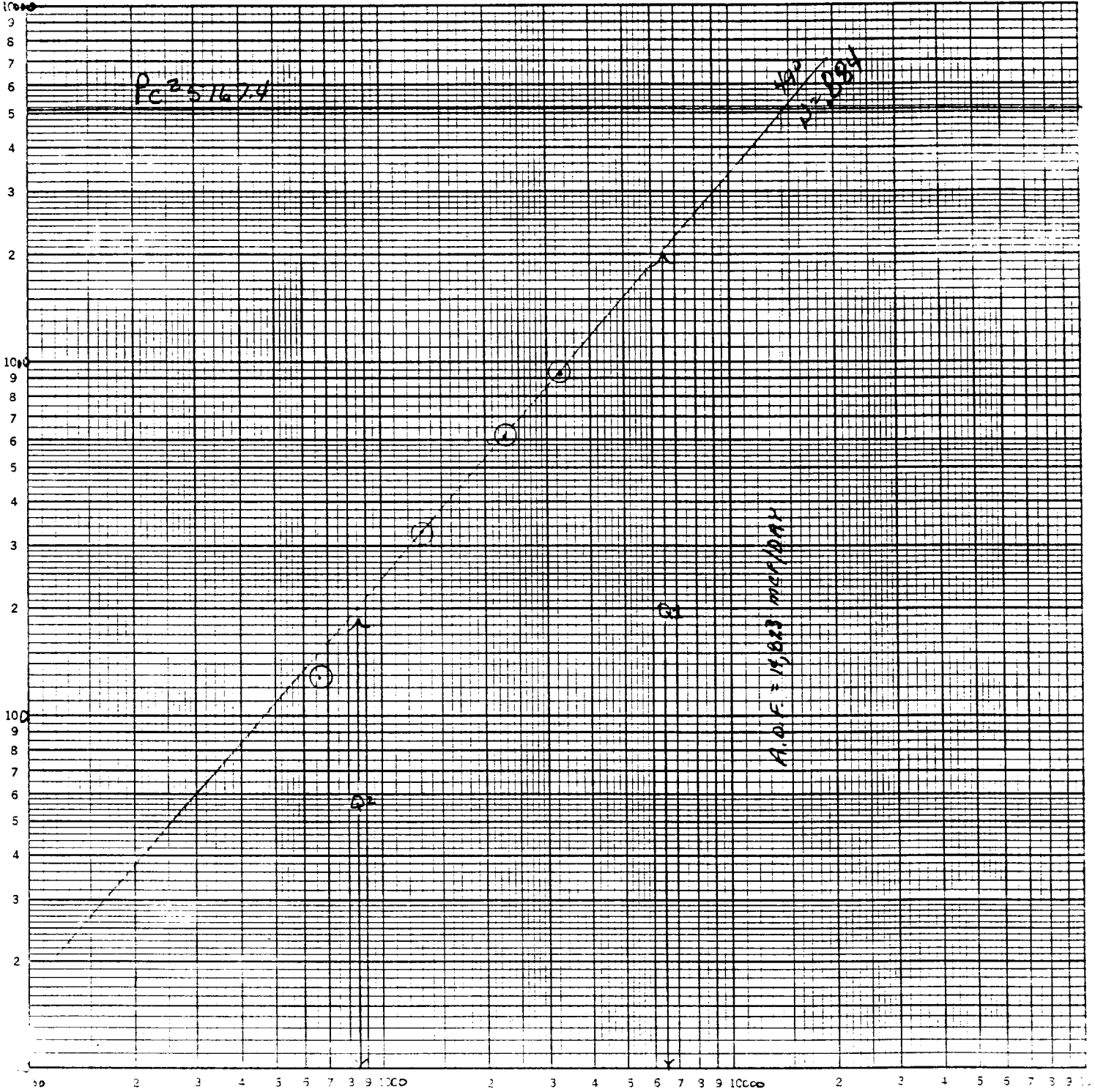
COMPONENT ANALYSIS

COMPONENT	MOL PERCENT	GPM		
Hydrogen Sulfide (H2S)				
Nitrogen (N2)	0.33			
Carbon Dioxide (CO2)	0.42			
Methane (C1)	83.10			
Ethane (C2)	8.14	2.164		
Propane (C3)	3.14	0.862		
I-Butane (IC4)	0.40	0.130		
N-Butane (NC4)	0.86	0.270		
I-Pentane (IC5)	0.39	0.140		
N-Pentane (NC5)	0.41	0.147		
Hexane (C6)	2.81	1.214		
Heptanes Plus (C7+)	0.00	0.000		
	100.00	4.927		
BTU/CU.FT. - DRY	1269	MOLECULAR WT.		21.1701
AT 14.650 DRY	1265			
AT 14.650 WET	1239	26# GASOLINE -		1.591
AT 15.025 DRY	1298			
AT 15.025 WET	1304			
SPECIFIC GRAVITY -				
CALCULATED	0.731			
MEASURED				

MEWBOURNE OIL COMPANY
 Chalk Bluff Federal Com. Well #3
 1-18S-27E
 Eddy County, New Mexico
 3/4/93

$P_c^2 - P_w^2$ (ISMS) 67400

LOGARITHMIC 3 X 3 CYCLES
 KEUFFEL & ESSER CO. MADE IN U.S.A.



Q mcf/day

$\log Q = 3.31291$

$\log (P_c^2 - P_w^2) = 2.92942$

OLSF
File

State of New Mexico
Energy, Minerals and Natural Resources Department

Form C-122
Revised 4-1-91

RECEIVED
Submit in duplicate to appropriate district office
See Rule 401 & Rule 1122
APR 93

OIL CONSERVATION DIVISION
P.O. Box 2088
Santa Fe, New Mexico 87504-2088

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Operator MEWVOURNE OIL COMPANY				Lease or Unit Name CHALK BLUFF FEDERAL COM.			
Type Test <input checked="" type="checkbox"/> Initial <input type="checkbox"/> Annual <input type="checkbox"/> Special				Test Date 3/4/93		Well No. 3	
Completion Date 1/16/93		Total Depth 10150		Plug Back TD 10102		Elevation GL 3628'	
Unit Ltr. - Sec. - TWP - Rge. I 1 18S 27E		County EDDY		Pool MORROW		Formation MORROW	
Csg. Size 4 1/2		Wt. 10.5		d 4.052		Set At 8600 10150	
Tbg. Size 2 7/8 & 2 3/8		Wt. 4.7 & 6.5		d 1.91 & 2.441		Set At 9972	
Type Well - Single - Bradenhead - G.G. or G.O. Multiple subgke				Packer Set At 9797		Formation MORROW	
Producing Thru tbg. 9950		Reservoir Temp. °F 133		Mean Annual Temp. °F 60		Baro. Press - P _a 13.2	
H 9950		Gg .731		% CO ₂ .42		% N ₂ .33	
Prover		Meter Run 3.068		Taps flg.			

FLOW DATA				TUBING DATA			CASING DATA		Duration of Flow	
NO.	Prover Line Size	Orifice Size	Press. p.s.i.g.	Diff. h _w	Temp. °F	Press. p.s.i.g.	Temp. °F	Press. p.s.i.g.		Temp. °F
SI						2260		Pkr.		48 hr.
1.	3 X 1.500		530	5	148	2230		"		1 hr.
2.	3 X 1.500		530	19	124	2180		"		1 hr.
3.	3 X 1.500		535	52	88	2100		"		1 hr.
4.	3 X 1.500		540	102	70	2000		"		1 hr.
5.										

RATE OF FLOW CALCULATIONS

NO.	COEFFICIENT (24 HOUR)	$h_w P_m$	Pressure P _m	Flow Temp. Factor Ft.	Gravity Factor Fg.	Super Compress. Factor, F _{pv} .	Rate of Flow Q, Mcfd
1.	11.13	52.12	543.2	.9248	1.170	1.043	655
2.	11.13	101.59	543.2	.9436	1.170	1.049	1310
3.	11.13	168.84	548.2	.9741	1.170	1.066	2283
4.	11.13	237.54	553.2	.9905	1.170	1.075	3294
5.							

NO.	P _r	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio	Mcf/bbl.
1.	.81	608	1.52	.919	23.63	
2.	.81	584	1.46	.909	57.0	
3.	.82	548	1.37	.880	.731	XXXXXXXXXX
4.	.83	530	1.32	.865	668	G Mix .849
5.					401	664 P.S.I.A.

P _c 2273.2 P _c ² 5167.4				$1) \frac{P_c^2}{P_c^2 - P_w^2} = \frac{5.4821}{\quad}$		$(2) \left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = \frac{4.500}{\quad}$	
NO.	P _i ²	P _w	P _w ²	P _c ² - P _w ²	AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = \frac{14,823}{\quad}$		
1.	5031.9	2244.7	5038.8	128.6			
2.	4810.1	2199.5	4837.6	329.8			
3.	4465.6	2132.7	4548.6	618.9			
4.	4053.9	2055.4	4224.8	942.6			
5.							

Absolute Open Flow	14,823	Mcf @ 15.025	Angle of Slope θ	49	Slope, n	.884
Remarks:	13.3 BBLs CONDENSATE PRODUCED DURING TEST					

THE WESTERN COMPANY OF NORTH AMERICA
WATER ANALYSIS

HOBBS, NEW MEXICO LAB ANALYSIS #: HE010251

GENERAL INFORMATION

OPERATOR: Mewbourne Oil Company	DEPTH: 0
WELL: Chalk Bluff Fed #3	DATE SAMPLED:
FIELD:	DATE RECEIVED: 02/24/93
FORMATION:	SUBMITTED BY: Leonard Pounds
COUNTY: Eddy	WORKED BY: M Keith
STATE: NM	PHONE #: 505-392-5556

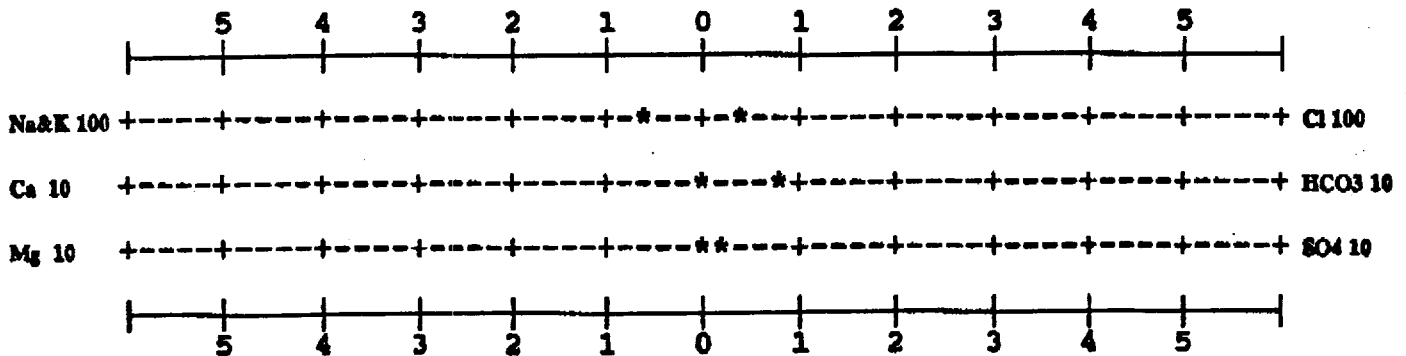
SAMPLE DESCRIPTION: all water

PHYSICAL AND CHEMICAL DETERMINATIONS

SPECIFIC GRAVITY: 1.003 @ 70 °F	PH: 6.75	
RESISTIVITY (MEASURED): 3 OHMS @ 0 °F		
IRON (FE++): 150 PPM	SULFATE: 100 PPM	
CALCIUM: 10 PPM	TOTAL HARDNESS: 50 PPM	
MAGNESIUM: 6 PPM	BICARBONATE: 487 PPM	
CHLORIDE: 1595 PPM	SODIUM CHLORIDE (CALC): 2624 PPM	
SODIUM+POTASS: 1243 PPM	TOT. DISSOLVED SOLIDS: 3474 PPM	
KCL :no trace	OIL :none	

REMARKS:

STIFF TYPE PLOT (IN MEQ/L)



ANALYST MK
M Keith

057

Form 3160-5
(June 1990)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

OIL CONS. COMMISSION
Drawer DD
Artesia, NM BORTO

FORM APPROVED
Budget Bureau No. 1004-0101
Expires: March 31, 1993

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or to deepen or reentry to a different reservoir.
Use "APPLICATION FOR PERMIT—" for such proposals

SUBMIT IN TRIPLICATE

1. Type of Well

Oil Well Gas Well Other

2. Name of Operator

Mewbourne Oil Company

3. Address and Telephone No.

P.O. Box 5270 Hobbs, New Mexico 88241

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)

1980' FSL & ~~1980'~~ FEL
Sec. 1-T18S-R27E

5. Lease Designation and Serial No.

NM-0557371

6. If Indian, Allottee or Tribe Name

7. If Unit or CA, Agreement Designation

8. Well Name and No.

Chalk Bluff Fed. Com. #3

9. API Well No.

30-015-27163

10. Field and Pool, or Exploratory Area

N. Illinois Camp Morrow

11. County or Parish, State

Eddy Co., N.M.

12. CHECK APPROPRIATE BOX(S) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION
<input type="checkbox"/> Notice of Intent	<input type="checkbox"/> Abandonment
<input checked="" type="checkbox"/> Subsequent Report	<input type="checkbox"/> Recompletion
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Plugging Back
	<input type="checkbox"/> Casing Repair
	<input type="checkbox"/> Altering Casing
	<input type="checkbox"/> Other
	<input type="checkbox"/> Change of Plans
	<input type="checkbox"/> New Construction
	<input type="checkbox"/> Non-Routine Fracturing
	<input type="checkbox"/> Water Shut-Off
	<input type="checkbox"/> Conversion to Injection
	<input checked="" type="checkbox"/> Dispose Water

(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

13. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

- 1) Formation: Morrow
- 2) Amount of water produced 10 BW/mo.
- 3) Water analysis attached
- 4) Water is stored on lease in fiberglass tank
- 5) Produced water will be trucked by I & W Inc.
- 6) The disposal well is I & W Inc., Walter Solt #1, Unit Letter L, Section 5-T18S-R28E Eddy County, New Mexico

SWD #318

14. I hereby certify that the foregoing is true and correct

Signed David R. Glass

Title Production Engineer

Date March 4, 1993

(This space for Federal or State office use)

Approved by (ORIG. SGD) DAVID R. GLASS

Title PETROLEUM ENGINEER

Date 4/22/93

Conditions of approval, if any:

SEE ATTACHED

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

*See instruction on Reverse Side

COMPANY : MENBOURNE OIL

LEASE : CHALK BLUFF FED.COMWELL NO. : 3

Pc = 2273.2 Pc2 = 5167.4 *

UNIT : I

SECTION : 1

TOWNSHIP : 15

Pt2 = 5031.9 Pw = 2244.7 *

L : 9961

H : 9961

L/H : 1

G/GMIX : 0.849

4810.1 2199.5 *

%CO2 : 0.42

%N2 : 0.33

H2S :

DATE :

4465.6 2132.7 *

a : 2.278

Fr : 0.012892

GH : 8456.9

RANGE : 27

4053.0 2055.4 *

VOL 1 : 655

PSIA 1 : 2243.2

RESV.TEMP 173.6

Pc2-Pw2 = 128.6 Pw2 = 5038.8 *

VOL 2 : 1310

PSIA 2 : 2193.2

329.8 4837.6 *

VOL 3 : 2283

PSIA 3 : 2113.2

SHUT-IN PR = 2273.2

618.9 4548.6 *

VOL 4 : 3294

PSIA 4 : 2013.2

942.6 4224.8 *

PCR : 668

n = 0.884

TCR : 401

Pc2/(Pc2-Pw2) = 40.184

LINE

RATE 1

RATE 2

RATE 3

RATE 4

15.666

'1ST

'2ND

'1ST

'2ND

'1ST

'2ND

'1ST

'2ND

8.350

5.482

1	QM	0.655	0.655	1.310	1.310	2.283	2.283	3.294	3.294
2	TW	534	534	534	534	534	534	534	534
3	Ts	633.6	633.6	633.6	633.6	633.6	633.6	633.6	633.6
4	T	583.8	583.8	583.8	583.8	583.8	583.8	583.8	583.8
	PR (est)	3.36		3.28		3.16		3.01	
5	Z(est)	0.727	0.738	0.727	0.736	0.728	0.733	0.731	0.730
6	TZ	424.5	430.8	424.6	429.5	425.2	427.7	426.5	426.0
7	GH/TZ	19.924	19.629	19.918	19.691	19.891	19.774	19.829	19.852
8	eS	2.111	2.088	2.110	2.093	2.108	2.099	2.104	2.105
9	l-e-S	0.526	0.521	0.526	0.522	0.526	0.524	0.525	0.525
10	Pt	2243.2	2243.2	2193.2	2193.2	2113.2	2113.2	2013.2	2013.2
11	Pt2 /1000	5031.9	5031.9	4810.1	4810.1	4465.6	4465.6	4053.0	4053.0
12	Fr	0.012892	0.012892	0.012892	0.012892	0.012892	0.012892	0.012892	0.012892
13	Fc=FrTZ	5.472	5.555	5.474	5.537	5.481	5.514	5.498	5.492
14	FcQm	3.58	3.64	7.17	7.25	12.51	12.59	18.11	18.09
15	L/H(FcQm)	12.8	13.2	51.4	52.6	156.6	158.5	328.0	327.3
16	Fw	6.761363	6.896568	27.05758	27.47157	82.32401	82.97298	172.0865	171.83059
17	Pw2	5038.7	5038.8	4837.2	4837.6	4547.9	4548.6	4225.1	4224.8
18	Ps2	10636.7	10519.8	10208.7	10123.1	9588.7	9547.9	8887.4	8894.3
19	Ps	3261.4	3243.4	3195.1	3181.7	3096.6	3090.0	2981.2	2982.3
20	P	2752.3	2743.3	2694.2	2687.4	2604.9	2601.6	2497.2	2497.8
21	Pr	4.12	4.11	4.03	4.02	3.90	3.89	3.74	3.74
22	Tr	1.46	1.46	1.46	1.46	1.46	1.46	1.46	1.46
23	Z	0.738	0.738	0.736	0.735	0.733	0.732	0.730	0.730

[Pc2/Pc2-Pw2]n = 26.181

ADF= Q 17.148

FORM C122-D



Laboratory Services

1331 Tasker Drive
Hobbs, New Mexico 88240

Telephone: (505) 397-3713

FOR: Mewbourne Oil Co.
Attention: Mr. R. Jones
P. O. Box 5270
Hobbs, New Mexico 88240

SAMPLE IDENTIFICATION: Chalk bluff #3
COMPANY: Mewbourne Oil Co.
LEASE:
PLANT:

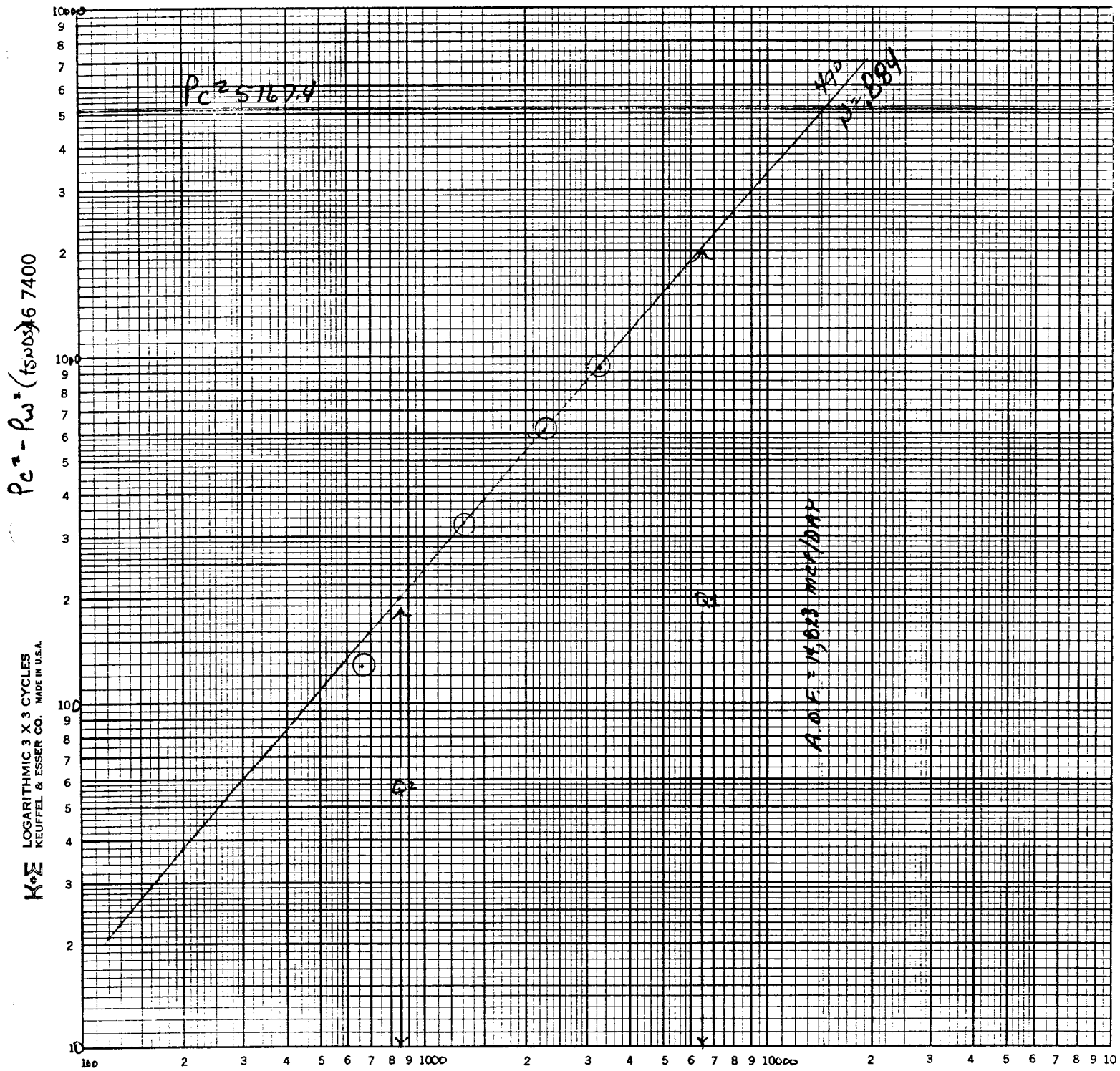
SAMPLE DATA:	DATE SAMPLED:	3/4/93 12:30PM	GAS (XX)	LIQUID ()
	ANALYSIS DATE:	03-05-93	SAMPLED BY:	R. Jones
	PRESSURE - PSIG	530.0	ANALYSIS BY:	Rolland Perry
	SAMPLE TEMP. °F			
	ATMOS. TEMP. °F			

REMARKS:

COMPONENT ANALYSIS

COMPONENT		MOL PERCENT	GPM	
Hydrogen Sulfide	(H2S)			
Nitrogen	(N2)	0.33		
Carbon Dioxide	(CO2)	0.42		
Methane	(C1)	83.10		
Ethane	(C2)	8.14	2.164	
Propane	(C3)	3.14	0.862	
I-Butane	(IC4)	0.40	0.130	
N-Butane	(NC4)	0.86	0.270	
I-Pentane	(IC5)	0.39	0.140	
N-Pentane	(NC5)	0.41	0.147	
Hexane	(C6)	2.81	1.214	
Heptanes Plus	(C7+)	0.00	0.000	
		<u>100.00</u>	<u>4.927</u>	
BTU/CU.FT. - DRY		1269	MOLECULAR WT.	21.1701
AT 14.650 DRY		1265		
AT 14.650 WET		1239	26# GASOLINE -	1.591
AT 15.025 DRY		1298		
AT 15.025 WET		1304		
SPECIFIC GRAVITY -				
CALCULATED		0.731		
MEASURED				

MEWBOURNE OIL COMPANY
 Chalk Bluff Federal Com. Well #3
 1-18S-27E
 Eddy County, New Mexico
 3/4/93



Q MCF/DAY

$\text{Log } Q_1 = 6500 : \text{Log} = 3.81291$

$\text{Log } Q_2 = 850 : \text{Log} = 2.92942$

Slope $N = .88349 = .884$

Submit in duplicate to appropriate district office See Rule 401 & Rule 1122

OIL CONSERVATION DIVISION

P.O. Box 2088 Santa Fe, New Mexico 87504-2088

RECEIVED APR 18 1993

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Operator MEWOURNE OIL COMPANY						Lease or Unit Name CHALK BLUFF FEDERAL COM.											
Type Test <input checked="" type="checkbox"/> Initial <input type="checkbox"/> Annual <input type="checkbox"/> Special						Test Date 3/4/93			Well No. 3								
Completion Date 1/16/93			Total Depth 10150			Plug Back TD 10102			Elevation GL 3628'			Unit Ltr. - Sec. - TWP - Rge. I 1 18S 27E					
Csg. Size 4 1/2		Wt. 10.5		d 4.052		Set At 3600 10150		Perforations: From: 9950 To: 9954			County EDDY						
Tbg. Size 2 7/8 & 2 3/8		Wt. 4.7 & 6.5		d 1.91 & 2.441		Set At 9972		Perforations: From: 9957 To: 9972			Pool MORROW NORTH ILLINOIS CAMP						
Type Well - Single - Bradenhead - G.G. or G.O. Multiple subgke						Packer Set At 9797			Formation MORROW								
Producing Thru tbg. 133		Reservoir Temp. °F 60		Mean Annual Temp. °F 60		Baro. Press - P _a 13.2			Connection Transwestern								
L 9950		H 9950		G _g .731		% CO ₂ .42		% N ₂ .33		% H ₂ S		Prover		Meter Run 3.068		Taps flg.	
FLOW DATA						TUBING DATA				CASING DATA				Duration of Flow			
NO.	Prover Line Size	X	Orifice Size	Press. p.s.i.g.	Diff. h _w	Temp. °F	Press. p.s.i.g.	Temp. °F	Press. p.s.i.g.	Temp. °F	Press. p.s.i.g.	Temp. °F	Duration of Flow				
SI							2260		Pkr.				48 hr.				
1.	3 X 1.500			530	5	148	2230		"				1 hr.				
2.	3 X 1.500			530	19	124	2180		"				1 hr.				
3.	3 X 1.500			535	52	88	2100		"				1 hr.				
4.	3 X 1.500			540	102	70	2000		"				1 hr.				
5.																	
RATE OF FLOW CALCULATIONS																	
NO.	COEFFICIENT (24 HOUR)	$\sqrt{h_w P_m}$	Pressure P _m	Flow Temp. Factor Ft.	Gravity Factor F _g	Super Compress. Factor, F _{pv}	Rate of Flow Q, Mcfd										
1.	11.13	52.12	543.2	.9248	1.170	1.043	655										
2.	11.13	101.59	543.2	.9436	1.170	1.049	1310										
3.	11.13	168.84	548.2	.9741	1.170	1.066	2283										
4.	11.13	237.54	553.2	.9905	1.170	1.075	3294										
5.																	
NO.	P _r	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio 23.63 Mcf/bbl.												
1.	.81	608	1.52	.919	A.P. I Gravity of Liquid Hydrocarbons 57.0 Deg.												
2.	.81	584	1.46	.909	Specific Gravity Separator Gas .731 XXXXXXXXXX												
3.	.82	548	1.37	.880	Specific Gravity Flowing Fluid XXXXX G Mix .849												
4.	.83	530	1.32	.865	Critical Pressure 668 P.S.I.A. 664 P.S.I.A.												
5.					Critical Temperature 401 R 441 R												
P _c 2273.2		P _c ² 5167.4															
NO.	P _c ²	P _w	P _w ²	P _c ² - P _w ²	1) $\frac{P_c^2}{P_c^2 - P_w^2} = 5.4821$												
1.	5031.9	2244.7	5038.8	128.6	(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 4.500$												
2.	4810.1	2199.5	4837.6	329.8													
3.	4465.6	2132.7	4548.6	618.9	AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 14,823$												
4.	4053.9	2055.4	4224.8	942.6													
5.																	
Absolute Open Flow 14,823 Mcfd @ 15.025				Angle of Slope θ 49				Slope, n .884									
Remarks: 13.3 BBLs CONDENSATE PRODUCED DURING TEST																	
Approved By Division				Conducted By: PRO WELL TESTERS				Calculated By: KS				Checked By: KS					

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

N.M. Oil & Gas Division
811 S. 1st St
Artesia, NM 88212

FORM APPROVED
Budget Bureau No. 1004-0135
Expires: March 31, 1993

95F

Designation and Serial No.
NM 0557371

SUNDRY NOTICES AND REPORTS ON WELLS
Do not use this form for proposals to drill or to deepen or reentry to a different reservoir.
Use "APPLICATION FOR PERMIT-" for such proposals

SUBMIT IN TRIPLICATE

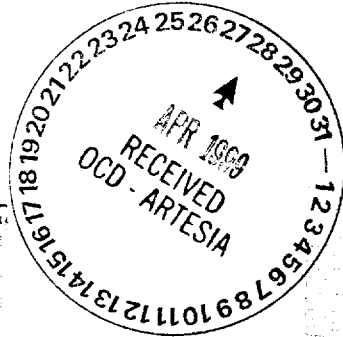
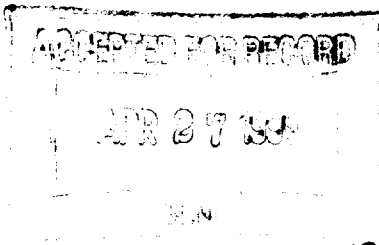
1. Type of Well <input type="checkbox"/> Oil Well <input checked="" type="checkbox"/> Gas Well <input type="checkbox"/> Other	6. If Indian, Allottee or Tribe Name
2. Name of Operator Mewbourne Oil Company	7. If Unit or CA, Agreement Designation
3. Address and Telephone No. P. O. Box 5270, Hobbs, NM 88241 505-393-5905	8. Well Name and No. Chalk Bluff Fed. Comm: #3
4. Location of Well (Footage, Sec., T., R., M., or Survey Description) 1980' FSL & 990' FEL of Section 1, T18S, R27E	9. API Well No. 30-015-27163
	10. Field and Pool, or Exploratory Area N. Illinois Camp Morrow
	11. County or Parish, State Eddy

12. CHECK APPROPRIATE BOX(S) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION
<input checked="" type="checkbox"/> Notice of Intent	<input type="checkbox"/> Abandonment
<input type="checkbox"/> Subsequent Report	<input checked="" type="checkbox"/> Recompletion
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Plugging Back
	<input type="checkbox"/> Casing Repair
	<input type="checkbox"/> Altering Casing
	<input type="checkbox"/> Other
	<input type="checkbox"/> Change of Plans
	<input type="checkbox"/> New Construction
	<input type="checkbox"/> Non-Routine Fracturing
	<input type="checkbox"/> Water Shut-Off
	<input type="checkbox"/> Conversion to Injection
	<input type="checkbox"/> Dispose Water

(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

13. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)
Add Morrow perforations 9860' to 9870'.



RECEIVED
1999 APR 16 A 11:16

(ORIG. SGD.) GARY GOURLEY

14. I hereby certify that the foregoing is true and correct

Signed Jerry Edgar Title District Manager Date 04/15/99
(This space for Federal or State office use)

Approved by _____ Title _____ Date _____
Conditions of approval, if any:

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

Oxford[®]

ESSELTE

MADE IN U.S.A.

NO. R753 1/3

• •

• •

1-21-93

Spectral Density
Dual Spaced Neutron

6365' - 8467'

400' - 10,100'

Comp. Sonic Log.

6365' - 8467'

Dual Induction Laterolog

6365' - 8501'

Dual Lat.

6365' - 8467'

8968' - 10,143'

MSL Gamma Collar

CBL Log

1340' - 10,069'

NSL - R-9760

R-9760

SD + NSL

11-4-92

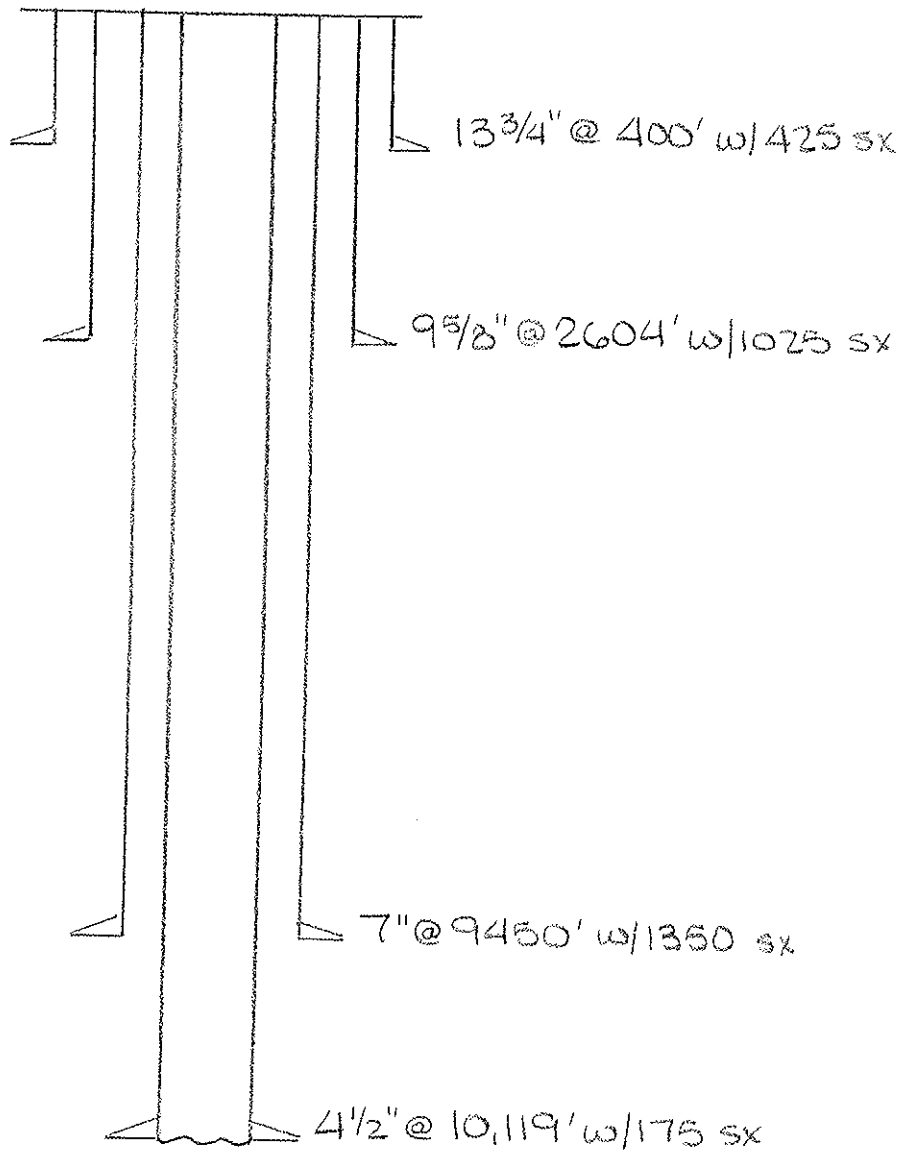
SUBSURFACE

NAVAJO REFINING COMPANY
Map ID No. 83
Artificial Penetration Review

OPERATOR Navajo Refining Co.
LEASE WDW
WELL NUMBER 3
DRILLED 12-22-90
PLUGGED NA

STATUS Active SWD
LOCATION Sec. 6 -T18S-R27E
MUD FILLED BOREHOLE NA
TOP OF INJECTION ZONE 7319'
API NO. 30-015-26575

REMARKS: Calc. Top of Cement behind 7" @ 384'



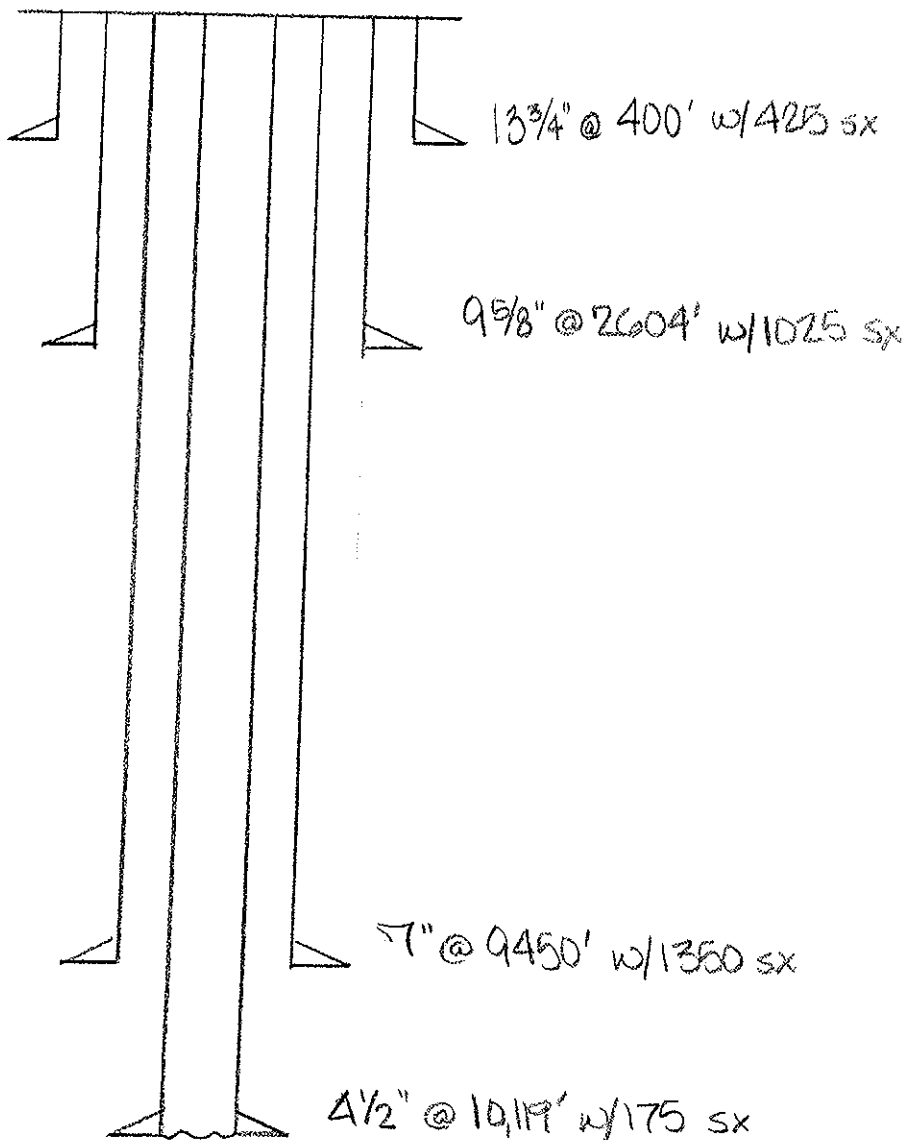
SUBSURFACE

NAVAJO REFINING COMPANY, L.L.C.
Map ID No. 96
Artificial Penetration Review

OPERATOR Navajo Refining Co.
LEASE WDW
WELL NUMBER 3
DRILLED N/A
PLUGGED N/A

STATUS Active
LOCATION Sec. 6-T18S-R27E
MUD FILLED BOREHOLE —
TOP INJECTION ZONE -3694'
API NO. 30-015-26575

REMARKS:



MAP ID NO. 96

**NAVAJO REFINING COMPANY
WASTE DISPOSAL WELL NO. 3**

API NO. 30-015-26575

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

N.M. C. Cons. Division
811 S. 1st Street
Artesia, NM 88210-2834

C/SF

FORM APPROVED
Budget Bureau No. 1004-0135
Expires: March 31, 1993
Bureau Identification and Serial No.
NM-0557371

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or to deepen or reentry to a different reservoir.
Use "APPLICATION FOR PERMIT-" for such proposals

SUBMIT IN TRIPLICATE

1. Type of Well <input type="checkbox"/> Oil Well <input type="checkbox"/> Gas Well <input checked="" type="checkbox"/> Other	6. If Indian, Allottee or Tribe Name
2. Name of Operator Mewbourne Oil Company	7. If Unit or CA, Agreement Designation
3. Address and Telephone No. PO Box 5270, Hobbs, NM 505-393-5905	8. Well Name and No. Chalk Bluff Federal Comm #1
4. Location of Well (Footage, Sec., T., R., M., or Survey Description) 790' FSL & 2250' FWL, Sec.1 T-18S R-27E	9. API Well No. 30-015-26575
	10. Field and Pool, or Exploratory Area N. Illinois Camp Morrow
	11. County or Parish, State Eddy, NM

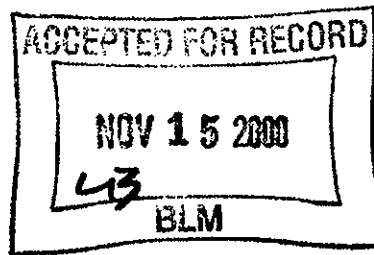
12. CHECK APPROPRIATE BOX(S) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION
<input type="checkbox"/> Notice of Intent	<input type="checkbox"/> Abandonment
<input checked="" type="checkbox"/> Subsequent Report	<input type="checkbox"/> Recompletion
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Plugging Back
	<input type="checkbox"/> Casing Repair
	<input type="checkbox"/> Altering Casing
	<input checked="" type="checkbox"/> Other MIT
	<input type="checkbox"/> Change of Plans
	<input type="checkbox"/> New Construction
	<input type="checkbox"/> Non-Routine Fracturing
	<input type="checkbox"/> Water Shut-Off
	<input type="checkbox"/> Conversion to Injection
	<input type="checkbox"/> Dispose Water

(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

13. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

The above caption well was successfully MIT'ed on 10/25/2000. (500 psi for 30 min.)
The pressure chart is enclosed.
If any question, please call.



14. I hereby certify that the foregoing is true and correct

Signed *N.M. Young* Title N.M. Young District Manager Date 11/01/00
(This space for Federal or State office use)

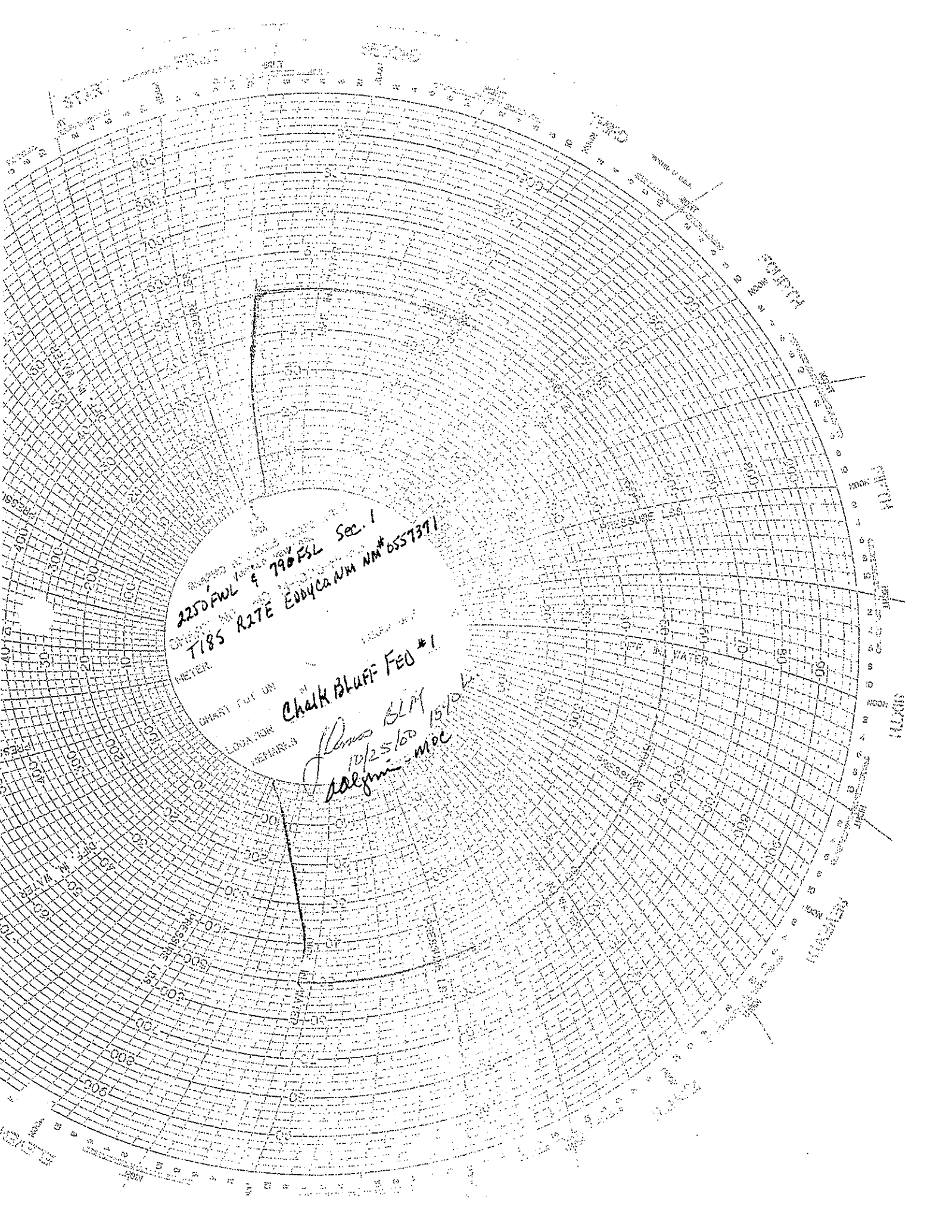
Approved by **Record Only** Title _____ Date _____
Conditions of approval, if any:

*Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

2250 FWL & 790 FSL Sec. 1
T185 R2TE EDDYCA NM NM# 0557371

CHALK BLUFF FEO #1

Johns BLM
10/25/00
ADGym - moc



CISF

Form 3160-5
(June 1990)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

RECEIVED
JUN 20 1991

O. C. U.
ARTESIA, OFFICE

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or to deepen or reentry to a different reservoir.
Use "APPLICATION FOR PERMIT—" for such proposals

SUBMIT IN TRIPLICATE

RECEIVED
MAY 24 1991
DIST. 6 N.M.
Carlsbad, New Mexico

FORM APPROVED
Budget Bureau No. 1004-0135
Expires: March 31, 1993

5. Lease Designation and Serial No.

NM-0557371

6. If Indian, Allottee or Tribe Name

7. If Unit or CA, Agreement Designation

8. Well Name and No.

CHALK BLUFF FED. COM #1

9. API Well No.

30-015-26575

10. Field and Pool, or Exploratory Area

No. Illinois Camp Morrow

11. County or Parish, State

Eddy, New Mexico

12. CHECK APPROPRIATE BOX(S) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION
<input type="checkbox"/> Notice of Intent	<input type="checkbox"/> Abandonment
<input checked="" type="checkbox"/> Subsequent Report	<input type="checkbox"/> Recompletion
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Plugging Back
	<input type="checkbox"/> Casing Repair
	<input type="checkbox"/> Altering Casing
	<input checked="" type="checkbox"/> Other <u>Fracture Treat</u>
	<input type="checkbox"/> Change of Plans
	<input type="checkbox"/> New Construction
	<input type="checkbox"/> Non-Routine Fracturing
	<input type="checkbox"/> Water Shut-Off
	<input type="checkbox"/> Conversion to Injection
	<input type="checkbox"/> Dispose Water

(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form)

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4/24/91 - Western fracture treated Morrow Sand perfs 9936-46', 9964-67' down tubing with 16,000 gals 73 downhole slurry quality Binary Westfoam carrying 16,000# 20/40 mesh ACFRAC Black Westprop-3. Screened out with 545 gals CO₂/N₂ 2% KCL water. Screened out at 10,100# with 1200 gals of 3# stage in formation and 545 gals flush in tubing. Pumped 116 sxs Proppant into formation and left 25 sacks in casing and 19 sacks in tubing. ISDP 8300#, 5 mins 7600#, 10 mins 7200#, 15 mins 6800#. Avg 10.0 BPM at 8200#. Job complete 10:20 AM.

ACCEPTED FOR RECORD
JUN 14 1991
SJS
CARLSBAD, NEW MEXICO

14. I hereby certify that the foregoing is true and correct

Signed [Signature] Title Engr. Oprns. Secretary

Date 5/21/91

(This space for Federal or State office use)

Approved by _____
Conditions of approval, if any: _____

Title _____ Date _____

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make in any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

*See Instruction on Reverse Side

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

NM OIL CONS COMMISSION
Drawer DD
Artesia, NM 88210

C/SF

FORM APPROVED
Budget Bureau No. 1004-0135
Expires: March 31, 1993

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or to deepen or reentry to a different reservoir.
Use "APPLICATION FOR PERMIT—" for such proposals

SUBMIT IN TRIPLICATE

FEB 21 1994

1. Type of Well <input type="checkbox"/> Oil Well <input checked="" type="checkbox"/> Gas Well <input type="checkbox"/> Other	5. Lease Designation and Serial No. NM-0557371
2. Name of Operator Mewbourne Oil Company	6. If Indian, Allottee or Tribe Name
3. Address and Telephone No. P.O. Box 5270 Hobbs, New Mexico 88241 (505) 393-5905	7. If Unit or CA, Agreement Designation
4. Location of Well (Footage, Sec., T., R., M., or Survey Description) 2250' FWL & 790' FSL Sec. 1-T18S-R27E	8. Well Name and No. Chalk Bluff Fed. Com. #1
	9. API Well No. 30-015-26575
	10. Field and Pool, or Exploratory Area N. Illinois Camp
	11. County or Parish, State Eddy Co., N.M.

12. CHECK APPROPRIATE BOX(S) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION
<input checked="" type="checkbox"/> Notice of Intent	<input type="checkbox"/> Abandonment
<input type="checkbox"/> Subsequent Report	<input type="checkbox"/> Recompletion
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Plugging Back
	<input type="checkbox"/> Casing Repair
	<input type="checkbox"/> Altering Casing
	<input checked="" type="checkbox"/> Other <u>Shut-In-Status</u>
	<input type="checkbox"/> Change of Plans
	<input type="checkbox"/> New Construction
	<input type="checkbox"/> Non-Routine Fracturing
	<input type="checkbox"/> Water Shut-Off
	<input type="checkbox"/> Conversion to Injection
	<input type="checkbox"/> Dispose Water

(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

13. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

Mewbourne Oil Company here by requests temporarily abandon status pending further evaluation of the lease for the above well. The well was spudded 12/22/90.

APPROVED FOR 12 MONTH PERIOD
ENDING 1/25/95

JAN 27 10 58 AM '94
RECEIVED

14. I hereby certify that the foregoing is true and correct

Signed *Robert G. Jones* Title Petroleum Engineer Date 01/25/94

(This space for Federal or State office use)

Approved by (ORIG. SGD.) JOE G. LARA Title PETROLEUM ENGINEER Date 2/16/94

Conditions of approval, if any:

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

NEW MEXICO OIL & GAS COMMISSION
Drawer DD
Artesia, NM

PERMIT APPROVED
Budget Bureau No. 1004-0135
Expires: March 31, 1993

dsf

RECEIVED
OCT 15 11 21 AM '93

SUNDRY NOTICES AND REPORTS ON WELLS

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Use "APPLICATION FOR PERMIT—" for such proposals

SUBMIT IN TRIPLICATE

NOV 17 1993

1. Type of Well

Oil Well Gas Well Other

2. Name of Operator

Mewbourne Oil Company

3. Address and Telephone No.

P.O. Box 5270 Hobbs, New Mexico 88241 (505) 393-5905

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)

2250' FWL & 790' FSL of Sec. 1-T18S-R27E

5. Lease Designation and Serial No.

NM-0557371

6. If Indian, Allottee or Tribe Name

7. If Unit or CA, Agreement Designation

8. Well Name and No.

Chalk Bluff Fed. Comm. #1

9. API Well No.

30-015-26575

10. Field and Pool, or Exploratory Area

N. Illinois Camp

11. County or Parish, State

Eddy Co., N.M.

12. CHECK APPROPRIATE BOX(S) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION

- Notice of Intent
- Subsequent Report
- Final Abandonment Notice

TYPE OF ACTION

- Abandonment
- Recompletion
- Plugging Back
- Casing Repair
- Altering Casing
- Other
- Change of Plans
- New Construction
- Non-Routine Fracturing
- Water Shut-Off
- Conversion to Injection
- Dispose Water

(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

13. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

* Verbal from Adam Salameh

- 9/10/93 Abandon Morrow formation. Set CIBP @ 9800' & cover w/35' cement.
- 9/11/93 Perforate Cisco from 7826'-7830'. Test & evaluate.
- 9/12/93 Squeeze Cisco from 7826'-7830' w/600 sx. Class "C".
- 9/15/93 Drill out squeeze perms. to 7792'. Squeeze held 2,000#.
- 9/16/93 Perforate Cisco from 7676'-7678'. Test and evaluate.
- 9/17/93 Abandon Cisco formation, set CIBP @ 7600' & cover w/35' cement.
- 9/18/93 Perforate Wolfcamp 7304'-7314'. Test & evaluate.
- 9/19/93 Acidize Wolfcamp w/1500 gal. 15% NE-FE from 7304'-7314'.
- 9/21/93 Set CIBP @ 7294' & perforate Wolfcamp from 7262'-7278'. Test & evaluate.
- 9/22/93 Acidize Wolfcamp w/2000 gal. 15% NE-FE from 7262'-7278'.
- 9/23/93 Set CIBP @ 7208' & perforate Wolfcamp from 7050'-7102'. Test & evaluate.
- 9/24/93 Acidize Wolfcamp w/2000 gal. 15% NE-FE from 7050'-7102'.
- 9/25/93 Set CIBP @ 7010'.

14. I hereby certify that the foregoing is true and correct

Signed [Signature]

Title Petroleum Engineer

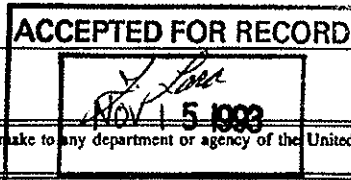
Date 10/05/93

(This space for Federal or State office use)

Approved by _____
Conditions of approval, if any:

Title _____

Date _____



Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

*See Instructions at the back of this form NEW MEXICO

C/SF

3160-5
: 1990)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM APPROVED
Budget Bureau No. 1004-0135
Expires: March 31, 1993

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or to deepen or reentry to a different reservoir.
Use "APPLICATION FOR PERMIT—" for such proposals

SUBMIT IN TRIPLICATE

RECEIVED
OCT 19 1993
C. G. D.

1. Type of Well
 Oil Well Gas Well Other

2. Name of Operator
 Mewbourne Oil Company

3. Address and Telephone No.
 P.O. Box 5270 Hobbs, New Mexico 88241 (505) 393-5905

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)
 2250' FWL & 790' FSL of Sec. 1-T18S-R27E

5. Lease Designation and Serial No.
 NM-0557371

6. If Indian, Allottee or Tribe Name

7. If Unit or CA, Agreement Designation

8. Well Name and No.
 Chalk Bluff Fed. Com. #1

9. API Well No.
 30-015-26575

10. Field and Pool, or Exploratory Area
 N. Illinois Camp

11. County or Parish, State
 Eddy Co., N.M.

12. CHECK APPROPRIATE BOX(S) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION
<input checked="" type="checkbox"/> Notice of Intent	<input type="checkbox"/> Abandonment
<input type="checkbox"/> Subsequent Report	<input checked="" type="checkbox"/> Recompletion
<input type="checkbox"/> Final Abandonment Notice	<input checked="" type="checkbox"/> Plugging Back
	<input type="checkbox"/> Casing Repair
	<input type="checkbox"/> Altering Casing
	<input type="checkbox"/> Other
	<input type="checkbox"/> Change of Plans
	<input type="checkbox"/> New Construction
	<input type="checkbox"/> Non-Routine Fracturing
	<input type="checkbox"/> Water Shut-Off
	<input type="checkbox"/> Conversion to Injection
	<input type="checkbox"/> Dispose Water

(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

13. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

09/08/93 Abandon Morrow Perfs 9861' - 9967'

- Set CIBP @ 9800' - cover w/35' cement.
- Recomplete in Cisco Formation - Test & evaluate.
- If unecomomical recomplete in Wolfcamp - Test & evaluate.

RECEIVED
 SEP 22 10 48 AM '93
 CARL
 AREA

14. I hereby certify that the foregoing is true and correct.

Signed *H. G. Jones* Title Petroleum Engineer Date 09/07/93

(This space for Federal or State office use)

Approved by (ORIG. SGD.) JOE G. LARA Title PETROLEUM ENGINEER Date 10/15/93

Conditions of approval, if any:

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

*See Instruction on Reverse Side

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

RECEIVED
SEP 28 1992

FORM APPROVED
Budget Bureau No. 1004-0135
Expires: March 31, 1993

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or to deepen or reentry to a different reservoir.
Use "APPLICATION FOR PERMIT—" for such proposals

SUBMIT IN TRIPLICATE

1. Type of Well
 Oil Well Gas Well Other

2. Name of Operator
Mewbourne Oil Company

3. Address and Telephone No.
P. O. Box 7698, Tyler, Texas 75711 (903) 561-2900

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)
2250' FWL & 790' FSL Sec. 1, T18S-R27E

5. Lease Designation and Serial No.
NM-0557371

6. If Indian, Allottee or Tribe Name

7. If Unit or CA, Agreement Designation

8. Well Name and No.
Chalk Bluff Fed.Com.#1

9. API Well No.
30-015-26575

10. Field and Pool, or Exploratory Area
N.Illinois Camp-Mor.-Gas

11. County or Parish, State
Eddy

12. CHECK APPROPRIATE BOX(S) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION
<input type="checkbox"/> Notice of Intent	<input type="checkbox"/> Abandonment
<input checked="" type="checkbox"/> Subsequent Report	<input type="checkbox"/> Recompletion
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Plugging Back
	<input type="checkbox"/> Casing Repair
	<input type="checkbox"/> Altering Casing
	<input checked="" type="checkbox"/> Other Additional perms, acidize & frac
	<input type="checkbox"/> Change of Plans
	<input type="checkbox"/> New Construction
	<input type="checkbox"/> Non-Routine Fracturing
	<input type="checkbox"/> Water Shut-Off
	<input type="checkbox"/> Conversion to Injection
	<input type="checkbox"/> Dispose Water

13. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)

- 8/13/92 - Perf Middle Morrow 9861-9882', 2 SPF, 10' Net, 22 holes.
- 8/14/92 - Acidized w/3500 gals 7 1/2% HCL + additives + 1000 SCF/bbl nitrogen carrying 80 ball sealers. Flushed w/2% KCL wtr + 1000 SCF/bbl nitrogen. ISDP 4300#, 5 mins 3800#, 10 mins 3400#, 15 mins 2800#. Avg rate 3.7 BPM, AP 5000#, MP 5600#. Blew well down to pit 8/15 - 8/18/92.
- 8/19/92 - MI swab unit. Pressure tested tbg to 2000#. Held OK. Removed tree. RU BOP. RU swab. Swabbed well down to 5300'.
- 8/20/92 - Swabbed down to 6500'. POOH w/tbg & pkr. TIH w/new pkr assembly & 200 jts tbg. Tested tbg to 8000#. 8/21/92 - Continued testing tbg. Set pkr @ 9740.68' w/15 pts compression. Press annulus to 2000#. Held OK. Started swabbing. Had light blow of gas.
- 8/22/92 - RU Western Co. Acidized perms w/1500 gals 7 1/2% HCL acid + additives + 1000 scf/bbl nitrogen + 35 ball sealers. Flushed w/2% KCL wtr. ISDP 400#. 5 min 3700#, 10 min 3700#, 15 min 3600#. ATP 5100#, MTP 5400#. RD Western. Opened well to pit on 12/64" choke. No show of gas or oil. Recovering load.
- 8/23/92 - RU swab. FL @ 7000'. Swabbed dry in 3 runs. Continued swabbing. Recovering load.

14. I hereby certify that the foregoing is true and correct

Signed *Stephanie Thompson* Title Engr. Oprns. Secretary Date 9/11/92

(This space for Federal or State office use)

Approved by _____ Title *ASR* Date _____

Conditions of approval, if any: _____

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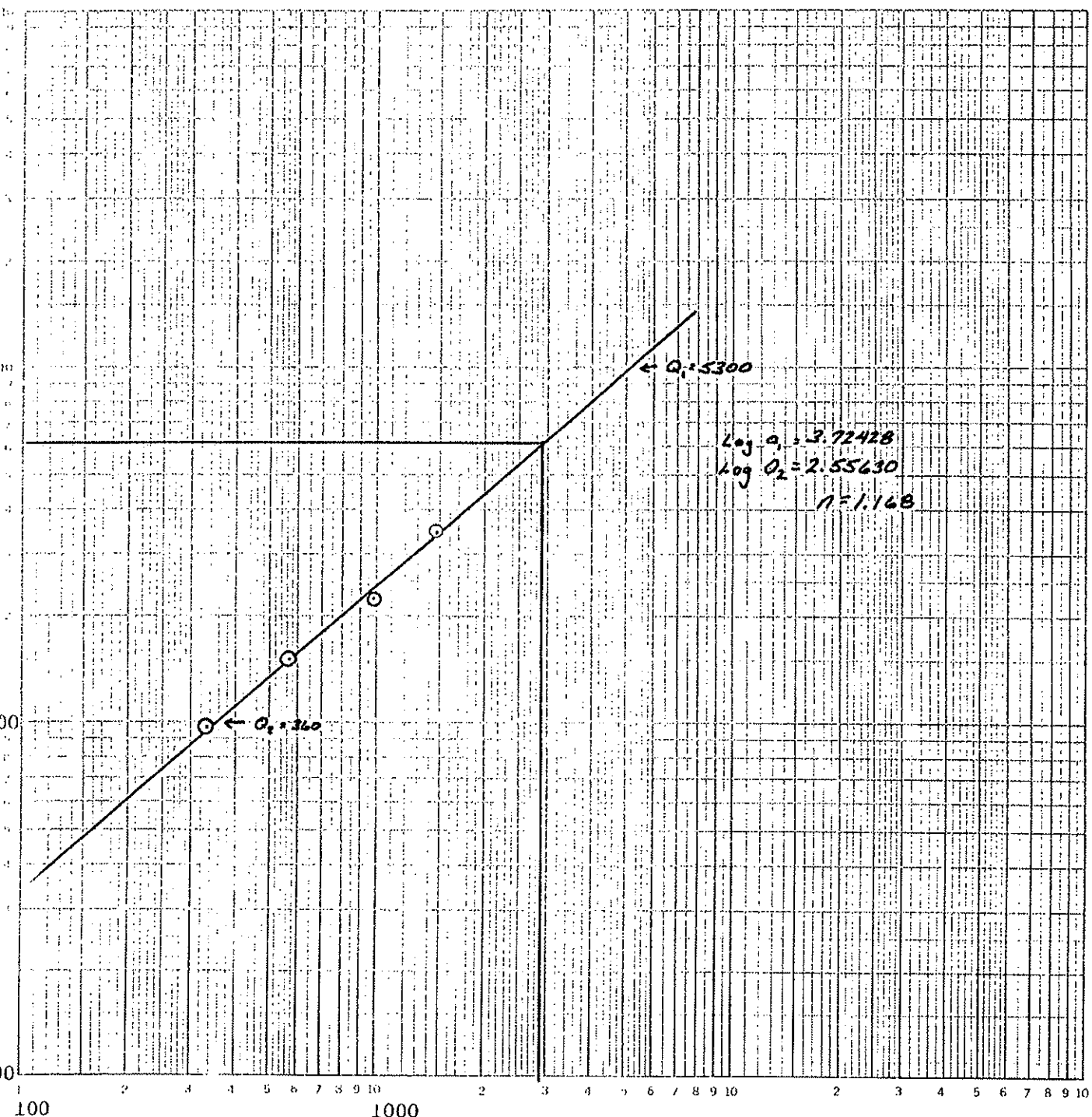
MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL RECEIVED

Type Test <input checked="" type="checkbox"/> Initial <input type="checkbox"/> Annual <input type="checkbox"/> Special		Test Date 03/15/91																																													
Company Mewbourne Oil Company		Connection Transwestern																																													
Pool Undesignated		Formation Morrow																																													
North Illinois Camp Morrow		MAY - 7 1991																																													
Completion Date 03/05/91		Total Depth 10,120'																																													
Casing Size 5 1/2"		Plug Back TD 10,075'																																													
Well No. 1		Farm or Lease Name Chalk Bluff Federal																																													
Casing Weight 11.6#		Perforations From 9936' To 9967'																																													
Tubing Size 2 7/8"		Perforations From Open To End																																													
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Single Gas		Packer Set At 9805'																																													
Producing thru Tbg.		Baro. Press. - P _a 13.2																																													
Reservoir Temp. °F 148 @ 10,120		Mean Annual Temp. °F 72																																													
L 9949		H 9949																																													
C _g .660		% CO ₂ .43																																													
% N ₂ .42		% H ₂ S ---																																													
Prover		Meter Run 3.068																																													
Taps Fig.		State New Mexico																																													
County Eddy		Duration of Flow 72 Hr.																																													
FLOW DATA				TUBING DATA				CASING DATA																																							
NO.	Prover Line Size	X	Orifice Size	Press. p.s.i.g.	Diff. hw	Temp. °F	Press. p.s.i.g.	Temp. °F	Press. p.s.i.g.	Temp. °F	Duration of Flow																																				
1	3 X 1.125			426.8	4	51	2175		Pkr.		1 Hr.																																				
2	3 X 1.125			446.8	11	51	2070		Pkr.		1 Hr.																																				
3	3 X 1.125			446.8	32	51	1900		Pkr.		1 Hr.																																				
4	3 X 1.125			426.8	72	45	1605		Pkr.		1 Hr.																																				
RATE OF FLOW CALCULATIONS																																															
NO.	Coefficient (24 Hour)	$\sqrt{h_w P_m}$	Pressure P _m	Flow Temp. Factor Ft.	Gravity Factor F _g	Super Compress. Factor, F _{pv}	Rate of Flow O, Mcfd																																								
1	6.217	41.952	440	1.009	1.225	1.048	337																																								
2	6.217	71.134	460	1.009	1.225	1.051	574																																								
3	6.217	121.326	460	1.009	1.225	1.051	980																																								
4	6.217	177.989	440	1.015	1.225	1.051	1446																																								
<table border="1" style="width:100%; border-collapse: collapse;"> <tr> <th>NO.</th> <th>T_g</th> <th>Temp. °R</th> <th>T_r</th> <th>Z</th> <th>Gas Liquid Hydrocarbon Ratio</th> <th>Dry Gas</th> <th>Mcf/bbl.</th> </tr> <tr> <td>1</td> <td>.65</td> <td>511</td> <td>1.37</td> <td>.910</td> <td></td> <td></td> <td></td> </tr> <tr> <td>2</td> <td>.68</td> <td>511</td> <td>1.37</td> <td>.906</td> <td></td> <td></td> <td></td> </tr> <tr> <td>3</td> <td>.68</td> <td>511</td> <td>1.37</td> <td>.906</td> <td></td> <td></td> <td></td> </tr> <tr> <td>4</td> <td>.65</td> <td>505</td> <td>1.35</td> <td>.905</td> <td></td> <td></td> <td></td> </tr> </table>								NO.	T _g	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio	Dry Gas	Mcf/bbl.	1	.65	511	1.37	.910				2	.68	511	1.37	.906				3	.68	511	1.37	.906				4	.65	505	1.35	.905			
NO.	T _g	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio	Dry Gas	Mcf/bbl.																																								
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NO.	P ₁ ²	P _w	P ₂ ²	P ₂ ² - P _w ²	(1) $\frac{P_c^2}{P_2^2 - P_w^2} = 1.784$	(2) $\left[\frac{P_c^2}{P_2^2 - P_w^2} \right]^n = 1.967$																																									
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4	1639	2686	3424.7																																												
<table border="1" style="width:100%; border-collapse: collapse;"> <tr> <th>NO.</th> <th>AOR = 0</th> <th>$\left[\frac{P_c^2}{P_2^2 - P_w^2} \right]^n = 2.844$</th> </tr> </table>								NO.	AOR = 0	$\left[\frac{P_c^2}{P_2^2 - P_w^2} \right]^n = 2.844$																																					
NO.	AOR = 0	$\left[\frac{P_c^2}{P_2^2 - P_w^2} \right]^n = 2.844$																																													
Absolute Open Flow 2,844 Mcfd @ 15.025				Angle of Slope 41°		Slope, n 1.168																																									
Remarks: Well made 0 bbl fluid during test																																															
Approved By Division		Conducted By: Greg Milner		Calculated By: Greg Milner		Checked By: Bill Pierce																																									

(Pc² - Pw²) thsds

LOG PERMEABILITY INDEX

100



Q MCF/D

AOF = 2.9 MMCF/D



Laboratory Services

1331 Tasker Drive
Hobbs, New Mexico 88240

Telephone: (505) 397-3713

FOR: Mewbourne Oil Co.
Attention: Mr, Greg Milner
P. O. Box 5270
Hobbs, New Mexico 88241

SAMPLE Chalk Bluff
IDENTIFICATION: Federal #1
COMPANY: Mewbourne Oil Co.
LEASE:
PLANT:

SAMPLE DATA:	DATE SAMPLED: 03-15-91	GAS (XX)	LIQUID ()
	ANALYSIS DATE: 03-18-91	SAMPLED BY:	Gregory Milner
	PRESSURE - PSIG 460.00	ANALYSIS BY:	Rolland Perry
	SAMPLE TEMP. °F 51.00		
	ATMOS. TEMP. °F		

REMARKS:

COMPONENT ANALYSIS

COMPONENT		MOL PERCENT	GPM	
Oxygen	(O2)			
Hydrogen Sulfide	(H2S)			
Nitrogen	(N2)	0.42		
Carbon Dioxide	(CO2)	0.43		
Methane	(C1)	87.54		
Ethane	(C2)	7.07	1.886	
Propane	(C3)	2.38	0.654	
I-Butane	(IC4)	0.31	0.100	
N-Butane	(NC4)	0.54	0.169	
I-Pentane	(IC5)	0.20	0.071	
N-Pentane	(NC5)	0.14	0.052	
Hexane	(C6)	0.97	0.399	
Heptanes Plus	(C7+)	0.00	0.000	
		<u>100.00</u>	<u>3.331</u>	
BTU/CU.FT. - DRY		1156	MOLECULAR WT	19.0972
AT 14.650 DRY		1153		
AT 14.650 WET		1133	26# GASOLINE -	0.578
AT 15.025 DRY		1182		
AT 15.025 WET		1162		
SPECIFIC GRAVITY -				
CALCULATED		0.660		
MEASURED		0.000		

WORK SHEET FOR CALCULATION OF WELL HEAD PRESSURES (P_c or P_e)

Form C-122F
Adopted 9-1-65

FROM KNOWN BOTTOM HOLE PRESSURE (P_f or P_e)

COMPANY Membrane Oil LEASE Chalk Bluff Fed. WELL NO. 1 DATE 3-18-91
 LOCATION: Unit 9949 Section 1 Township 18S Range 27E
 L/H 9949 H 9949 L/H 1.000 G .660 % CO₂ .43 % N₂ .42 % H₂S

GH 6566 P_{ct} 673 T_{ct} 374
TABLE IX & X

LINE	1	2	3	4	5	6	7	8
1	T_w (W.H. °R)	532						
2	T_s (B.H. °R)	608						
3	$T = \frac{T_w + T_s}{2}$	570						
4	Z (Est.)	.800						
5	TZ	456.0						
6	GH/TZ	14.399						
7	e^S (Table XIV)	1.716						
8	P_f or P_e	3249						
9	P_f^2 or P_e^2	10556						
10	$P_c^2 = P_f^2 / e^S$ or P_e^2	6151.7						
11	P_c or P_e	2480.3						
12	$P_w = \frac{P_w + P_s}{2}$ or $\frac{P_c + P_f}{2}$	2864.6						
13	$P_f = (P/P_{ct})$	4.26						
14	$T_f = (T/T_{ct})$	1.52						
15	Z (Table XI)	.790						

One copy to be filed in District Office (Work copy acceptable)

WORK SHEET FOR CALCULATION OF WL (LEAD PRESSURES ~~or~~ P_w)

FROM KNOWN BOTTOM HOLE PRESSURE ~~or~~ P_s)

COMPANY Newbourne LEASE Chalk Bluff Fed. WELL NO. 1 DATE 3-18-91

LOCATION: Unit 9949 Section 1 Township 18S Range 27E
 L 9949 H 9949 L/H 1.00 G .660 % CO₂ .43 % N₂ .42 % H₂S ---

GH 6566 P_{cr} 673 T_{cr} 374
TABLE IX & X

LINE	1	2	3	4	5	6	7	8
T _w (W.H. °R)	532	532	532	532	532	532	532	532
T _s (B.H. °R)	608	608	608	608	608	608	608	608
T = $(\frac{T_w + T_s}{2})$	570	570	570	570	570	570	570	570
Z (Est.)	.835	.783	.783	.781	.781	.780	.780	.792
TZ	476.0	446.5	446.5	445.1	445.2	444.8	444.6	451.7
GH/TZ	13.796	14.704	14.712	14.753	14.749	14.761	14.768	14.537
e ^s (Table XIV)	1.678	1.736	1.736	1.739	1.739	1.739	1.740	1.725
P_w or P _s	2983	2983	2831	2831	2593	2593	2152	2152
P_w or P _s ²	8898.3	8898.3	8014.6	8014.6	6723.6	6723.6	4631.1	4631.1
P_w = P _i ² /e ^s or P _w ² = P _s ² /e ^s	5304.3	5126.6	4616.2	4609.0	3867.2	3865.5	2661.7	2684.9
P_w or P _w	2303.1	2264.2	2148.5	2146.9	1966.5	1966.1	1631.5	1638.6
P _r = $(\frac{P_w + P_s}{2})$ or $(\frac{P_s + P_i}{2})$	2643.1	2623.6	2489.8	2488.9	2279.8	2279.5	1891.7	1895.3
P _r = (P/P _{cr})	3.93	3.90	3.70	3.70	3.39	3.39	2.81	2.82
T _r = (T/T _{cr})	1.52	1.52	1.52	1.52	1.52	1.52	1.52	1.52
Z (Table XI)	.783	.783	.781	.781	.780	.780	.792	.792

COMPANY: PRO WIRELINE
CLIENT: MEWBOURNE OIL
GAUGE NUMBER: 12235
WELL NAME: CHALK BLUFF
WELL NUMBER: 1
TEST NUMBER: 1
LOCATION:
TEST OPERATOR: BURRELL
COMMENTS: 4 POINT FLOW TEST RAN
AFTER 72 HOUR BUILD-UP

POSITION	GAUGE SERIAL NUMBER
----------	---------------------

1	
2	
3	
4	

AGE START DATE: 3/15/91

GAUGE S/N: 12235

DATA FILE: 3

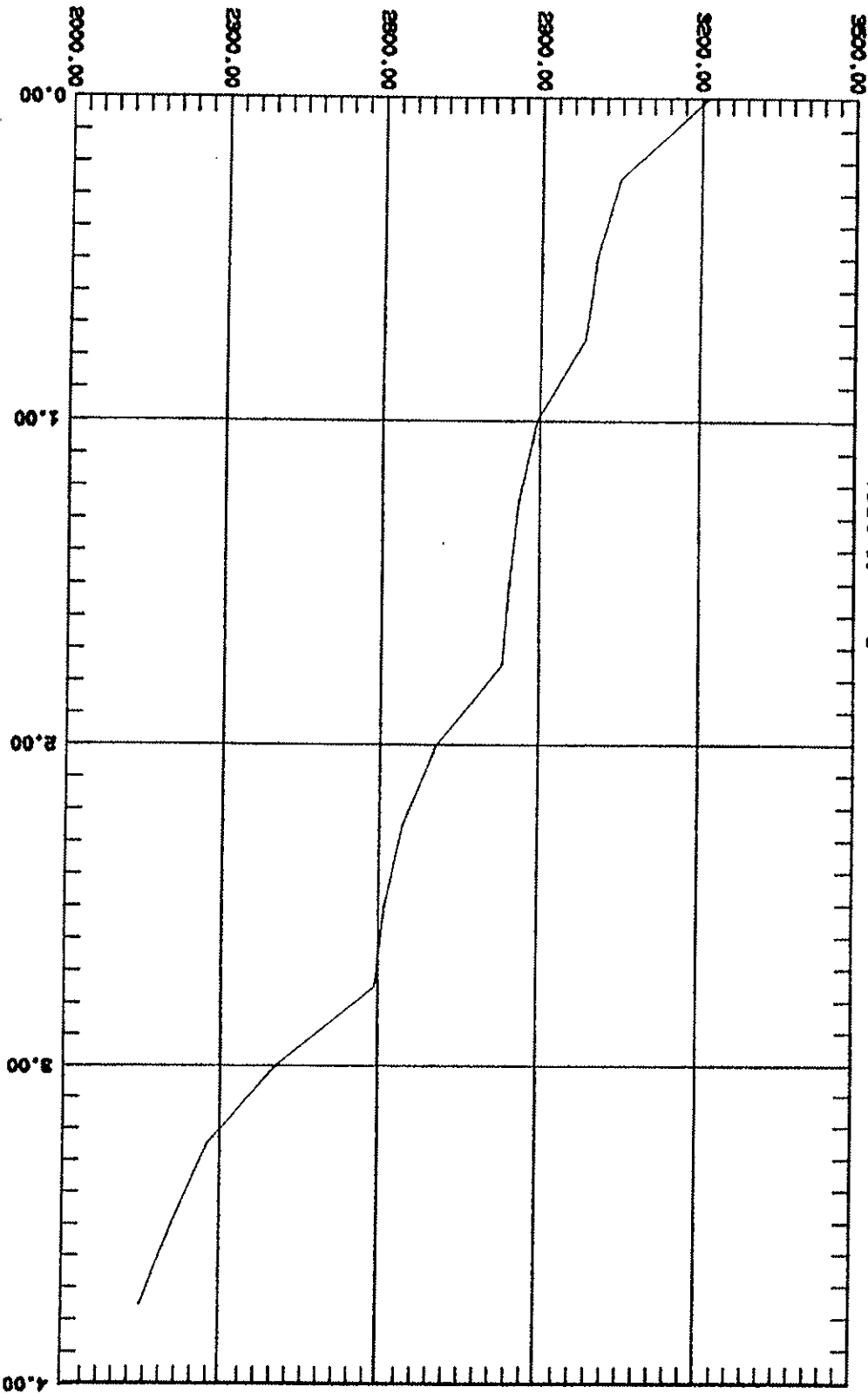
REAL TIME	DELTA TIME HRS	PRESSURE PSIA	TEMPERATURE 'F	COMMENTS
9:45: 0	0.0000	3213.00		
10: 0: 0	0.2500	3046.00		START RATE 1
10:15: 0	0.5000	3003.00		
10:30: 0	0.7500	2983.00		
10:45: 0	1.0000	2894.00		START RATE 2
11: 0: 0	1.2500	2861.00		
11:15: 0	1.5000	2843.00		
11:30: 0	1.7500	2831.00		
11:45: 0	2.0000	2707.00		START RATE 3
12: 0: 0	2.2500	2643.00		
12:15: 0	2.5000	2610.00		
12:30: 0	2.7500	2593.00		
12:45: 0	3.0000	2405.00		START RATE 4
13: 0: 0	3.2500	2276.00		
13:15: 0	3.5000	2210.00		
13:30: 0	3.7500	2152.00		END OF TEST

PRESSURE - PSIA

Plot starting date: 3/15/91
time: 9:45: 0
Gauge S/N

Company: PRO WIRELINE
Client: MEMBOURNE OIL
Well name: CHALK BLUFF
Well #: 1
Test #: 1

Location:
Operator: BURRELL
Comments: 4 POINT FLOW TEST RAN
AFTER 72 HOUR BUILD UP



DELTA TIME - HRS

UNITED STATES COMMISSION
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

Form approved,
Budget Bureau No. 1004-0137
Expires August 31, 1985

5. LEASE DESIGNATION AND SERIAL NO.
NM-0557371

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME
Chalk Bluff Federal Com

9. WELL NO.
1

10. FIELD AND POOL, OR WILDCAT
N. Illinois Camp Morrow

11. SEC., T., R., M., OR BLOCK AND SURVEY OR AREA
Sec. 1-T18S-R27

12. COUNTY OR PARISH
Eddy

13. STATE
N.M.

WELL COMPLETION OR RECOMPLETION REPORT AND LOG *

1a. TYPE OF WELL: OIL WELL GAS WELL DRY Other _____

b. TYPE OF COMPLETION: NEW WELL WORK OVER DEEP-EN PLUG BACK DIFF. REVR. Other _____

2. NAME OF OPERATOR
Mewbourne Oil Company ✓

3. ADDRESS OF OPERATOR
P. O. Box 7698, Tyler, Texas 75711

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements)
At surface 2250' FWL & 790' FSL

At top prod. interval reported below
At total depth Same

14. PERMIT NO. DATE ISSUED
API #30-015-26575

15. DATE SPUNDED 12/22/90 16. DATE T.D. REACHED 1/29/91 17. DATE COMPL. (Ready to prod.) 3/07/91 18. ELEVATIONS (DP, RKB, RT, OR, ETC.)* KB 3625', GM 3609'

20. TOTAL DEPTH, MD & TVD 10,120' 21. PLUG, BACK T.D., MD & TVD 10,079' 22. IF MULTIPLE COMPL. HOW MANY* 23. INTERVALS DRILLED BY ROTARY TOOLS X CABLE TOOLS

24. PRODUCING INTERVAL(S), OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD)* 9936-46', 9964-67' - Morrow 25. WAS DIRECTIONAL SURVEY MADE Yes

26. TYPE ELECTRIC AND OTHER LOGS RUN SDL-DSN, DLL-MSFL, DILL 27. WAS WELL CORED No

28. CASING RECORD (Report all strings set in well)

CASING SIZE	WEIGHT, LB./FT.	DEPTH SET (MD)	HOLE SIZE	CEMENTING RECORD	AMOUNT FILLED
13-3/8"	54.50#	400'	17-1/2"	425 - Circ	None
9-5/8"	36#	2604'	12-1/4"	1025 - Circ	None
7"	26# & 29#	9450'	8-3/4"	1350 - Circ	None

29. LINER RECORD

SIZE	TOP (MD)	BOTTOM (MD)	SACKS CEMENT*	SCREEN (MD)	SIZE	DEPTH SET (MD)	PACKER SET (MD)
4-1/2"	9051'	10119'	175		2-3/8"	9805'	9805'

31. PERFORATION RECORD (Interval, size and number)
9936-46', 9964-67'
13', 2 SPF, Total 28

32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.

DEPTH INTERVAL (MD)	AMOUNT AND KIND OF MATERIAL USED
9936-67'	3000 gals Mod-101 acid + 1000 SCF/bbl N2 + 50 ball sealers. Flushed w/35 bbls 2% KCL water + 1000 SCF/bbl N2.

33. PRODUCTION

DATE FIRST PRODUCTION _____ PRODUCTION METHOD (Flowing, gas lift, pumping—size and type of pump) Flowing

WELL STATUS (Producing or shut-in) Producing

DATE OF TEST	HOURS TESTED	CHOKE SIZE	PROD'N. FOR TEST PERIOD	OIL—BBL.	GAS—MCF.	WATER—BBL.	GAS/OIL RATIO
3/11/91	24 hrs	8/64"	→	1	886	0	886:1

FLOW. TUBING PRESS.	CASING PRESSURE	CALCULATED 24-HOUR RATE	OIL—BBL.	GAS—MCF.	WATER—BBL.	OIL GRAVITY-API (CORR.)
1600#		→	1	886	0	58

34. DISPOSITION OF GAS (Sold, used for fuel, vented, etc.) Sold TEST WITNESSED BY _____

35. LIST OF ATTACHMENTS
Logs

36. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records

SIGNED *Raymond Thompson* TITLE Engr. Opns. Secretary

ACCEPTED FOR RECORD

SJS
APR 1 1991
DATE 3/18/91

CARLSBAD, NEW MEXICO

*(See Instructions and Spaces for Additional Data on Reverse Side)

CONFIDENTIAL
RECEIVED
JUL 23 1992
O. C. D.

37. SUMMARY
drill-stem,
(recoveries)

PROUS ZONES: (Show all important zones of porosity and contents thereof; cored intervals; and all including depth interval tested, cushion used, time tool open, flowing and shut-in pressures, and

38.

38. GEOLOGIC MARKERS

FORMATION	TOP	BOTTOM	DESCRIPTION, CONTENTS, ETC.	NAME	TOP	
					MEAS. DEPTH	TRUE VERT. DEPTH
Lower Morrow	9936'	9967'	Sandstone	Yates	424'	
Middle Morrow	9861'	9881'	Sandstone	Queen	1138'	
				Grayburg	1484'	
				San Andres	1976'	
				Glorietta	3458'	
				Tubb	4451'	
				Drinkard	5376'	
				Abo	5794'	
				Wolfcamp	6420'	
				Cisco	7666'	
				Canyon	8368'	
				Strawn	8844'	
				Morrow	9454'	
				Morrow Clastics	9770'	
				Barnett	10016'	



DRILLING CO., INC. - OIL WELL DRILLING CONTRACTORS

**KEN REYNOLDS—PRESIDENT
ARNIE NEWKIRK—VICE-PRESIDENT**

**P. O. Box 1498 ROSWELL, NEW MEXICO 88202-1498
505/623-5070 ROSWELL, NM
505/746-2719 ARTESIA, NM**

February 05, 1991

Mewbourne Oil Company, Inc.
P.O. Box 5270
Hobbs, N.M. 88241

REF: Chalk Bluff Fed Comm #1

Gentlemen:

The following is a Deviation Survey on the above referenced well located in Eddy County, New Mexico.

400' - 1/4°	4674' - 1 1/4°	6559' - 2 1/2°
905' - 3/4°	5120' - 1 1/2°	6650' - 2 1/4°
1303' - 3/4°	5639' - 1 1/4°	7146' - 1 3/4°
1901' - 1 1/4°	6077' - 3 1/2°	7672' - 3/4°
2399' - 1 3/4°	6126' - 3 3/4°	7800' - 3/4°
2600' - 1 3/4°	6189' - 3 3/4°	8291' - 1°
3098' - 1 1/2°	6250' - 3 3/4°	8815' - 1°
3592' - 1 1/2°	6312' - 3 1/2°	9313' - 3/4°
3682' - 3/4°	6374' - 3 1/4°	9808' - 1 1/4°
4177' - 1°	6467' - 2 3/4°	10,120' 3/4° TD

Sincerely,

Arnold Newkirk
Vice-President

STATE OF NEW MEXICO)

COUNTY OF CHAVES)

The foregoing was acknowledged before me this 05th day of February 1991 by Arnold Newkirk.

MY COMMISSION EXPIRES

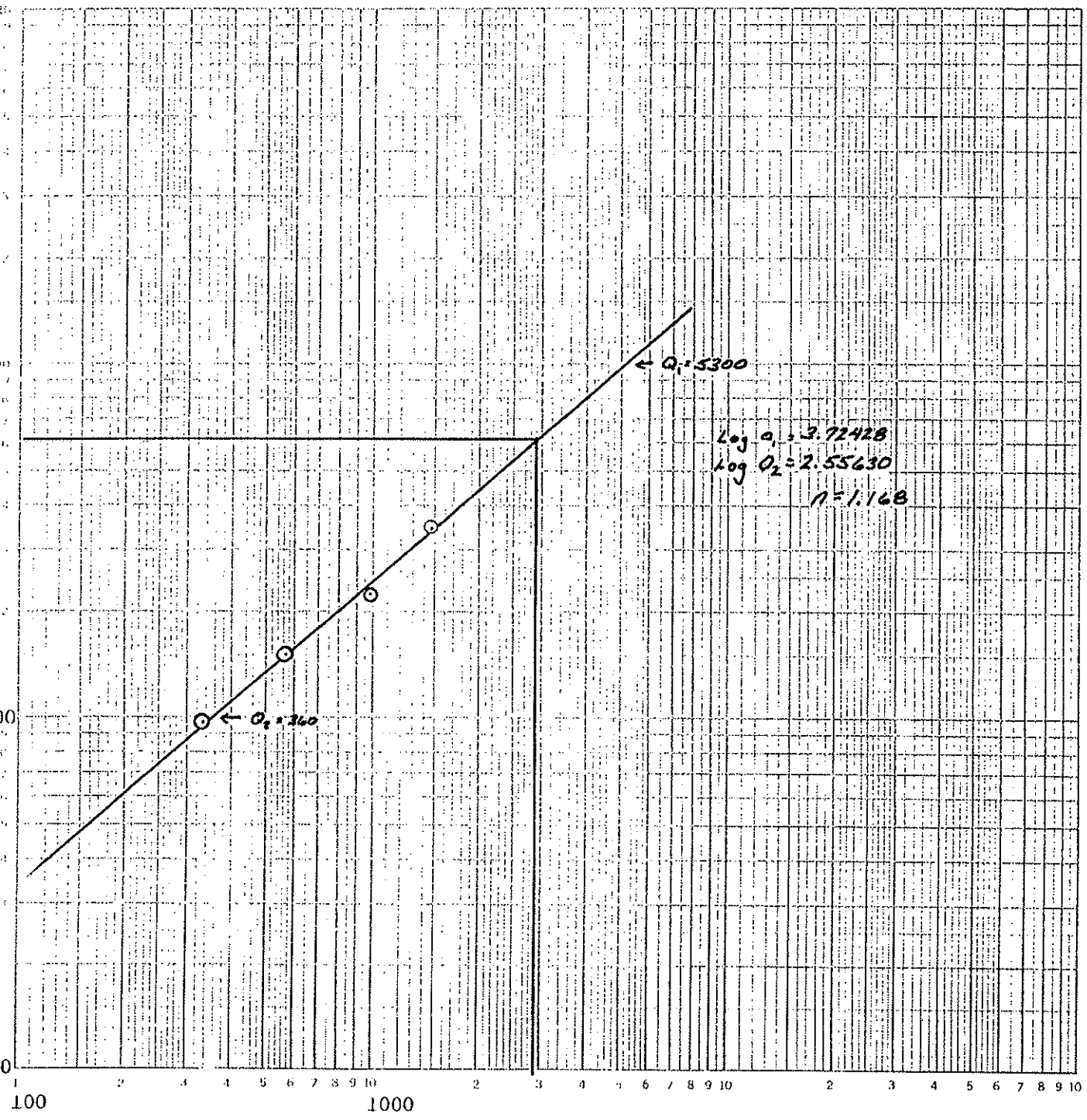
October 07, 1992

NOTARY PUBLIC

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL RECEIVED

Type Test <input checked="" type="checkbox"/> Initial <input type="checkbox"/> Annual <input type="checkbox"/> Special		Test Date 03/15/91									
Company Mewbourne Oil Company		Connection Transwestern									
Pool Undesignated		Formation Morrow									
North Illinois Camp Morrow		MAY - 7 1991									
Completion Date 03/05/91		Total Depth 10,120'									
Plug Back TD 10,075'		O.G. Well No. ARTESIA OFFICE 3609									
Farm or Lease Name Chalk Bluff Federal		Well No. 1									
Csg. Size 4 1/2" 5 1/2" 2 7/8"		Wt. 11.6# 6.5									
Set At 10,120'		Perforations: From 9936' To 9967'									
Set At 9,805'		Perforations: From Open To End									
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Single Gas		Packer Set At 9805'									
Producing Thru Tbg. 148 # 10,120		Mean Annual Temp. °F 72									
Baro. Press. - P _a 13.2		State New Mexico									
L 9949	H 9949	C _g .660	% CO ₂ .43								
		% N ₂ .42	% H ₂ S ---								
Prover		Motor Run 3.068									
Tape Fig.		County Eddy									
FLOW DATA		TUBING DATA									
CASING DATA		Duration of Flow									
NO.	Prover Line Size	X	Orifice Size	Press. p.s.i.g.	Diff. h _w	Temp. °F	Press. p.s.i.g.	Temp. °F	Press. p.s.i.g.	Temp. °F	Duration of Flow
SI	S.I.						2380				72 Hr.
1.	3 X 1.125			426.8	4	51	2175		Pkr.		1 Hr.
2.	3 X 1.125			446.8	11	51	2070		Pkr.		1 Hr.
3.	3 X 1.125			446.8	32	51	1900		Pkr.		1 Hr.
4.	3 X 1.125			426.8	72	45	1605		Pkr.		1 Hr.
5.											
RATE OF FLOW CALCULATIONS											
NO.	Coefficient (24 Hour)	$\sqrt{h_w P_m}$	Pressure P _m	Flow Temp. Factor Ft.	Gravity Factor F _g	Super Compress. Factor, F _{pv}	Rate of Flow O, Mcfd				
1	6.217	41.952	440	1.009	1.225	1.048	337				
2	6.217	71.134	460	1.009	1.225	1.051	574				
3	6.217	121.326	460	1.009	1.225	1.051	980				
4	6.217	177.989	440	1.015	1.225	1.051	1446				
5											
NO.	P ₁	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio	Dry Gas	Mcf/bbl.				
1	.65	511	1.37	.910							
2	.68	511	1.37	.906							
3	.68	511	1.37	.906							
4	.65	505	1.35	.905							
5											
					A.P.I. Gravity of Liquid Hydrocarbons _____ Deg.						
					Specific Gravity Separator Gas _____ .660 XXXXXXXXXX						
					Specific Gravity Flowing Fluid _____ XXXXX						
					Critical Pressure _____ 673 P.S.I.A. P.S.I.A.						
					Critical Temperature _____ 374 R R						
					P _c 2472 P _c ² 6110.7						
NO.	P ₁ ²	P _w ²	P _w ²	P _c ² - P _w ²	(1) $\frac{P_c^2}{P_c^2 - P_w^2} =$	(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n =$					
1		2264	5125	985.7	1.784	1.967					
2		2147	4609	1501.7							
3		1966	3865	2245.7							
4		1639	2686	3424.7							
5											
					AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n =$ 2,844						
Absolute Open Flow				2,844	Mcf @ 15.025	Angle of Slope °	41°				
						Slope, n	1.168				
Remarks: Well made 0 bbl. fluid during test											
Approved By Division		Conducted By: Greg Milner		Calculated By: Greg Milner		Checked By: Bill Pierce					

157400
(Pc² - Pw²) thsds
1000
100



Q MCF/D

AOF = 2.9 MMCF/D



Laboratory Services

1331 Tasker Drive
Hobbs, New Mexico 88240

Telephone: (505) 397-3713

FOR: Mewbourne Oil Co.
Attention: Mr, Greg Milner
P. O. Box 5270
Hobbs, New Mexico 88241

SAMPLE Chalk Bluff
IDENTIFICATION: Federal #1
COMPANY: Mewbourne Oil Co.
LEASE:
PLANT:

SAMPLE DATA: DATE SAMPLED:	03-15-91	GAS (XX)	LIQUID ()
ANALYSIS DATE:	03-18-91	SAMPLED BY:	Gregory Milner
PRESSURE - PSIG	460.00	ANALYSIS BY:	Rolland Perry
SAMPLE TEMP. °F	51.00		
ATMOS. TEMP. °F			

REMARKS:

COMPONENT ANALYSIS

COMPONENT		MOL PERCENT	GPM	
Oxygen	(O2)			
Hydrogen Sulfide	(H2S)			
Nitrogen	(N2)	0.42		
Carbon Dioxide	(CO2)	0.43		
Methane	(C1)	87.54		
Ethane	(C2)	7.07	1.886	
Propane	(C3)	2.38	0.654	
I-Butane	(IC4)	0.31	0.100	
N-Butane	(NC4)	0.54	0.169	
I-Pentane	(IC5)	0.20	0.071	
N-Pentane	(NC5)	0.14	0.052	
Hexane	(C6)	0.97	0.399	
Heptanes Plus	(C7+)	0.00	0.000	
		<u>100.00</u>	<u>3.331</u>	
BTU/CU.FT. - DRY		1156		MOLECULAR WT 19.0972
AT 14.650 DRY		1153		
AT 14.650 WET		1133		26# GASOLINE - 0.578
AT 15.025 DRY		1182		
AT 15.025 WET		1162		
SPECIFIC GRAVITY -				
CALCULATED		0.660		
MEASURED		0.000		

WORK SHEET FOR CALCULATION OF WELL BOPD PRESSURES (P_c or P_e)

FROM KNOWN BOTTOM HOLE PRESSURE (P_f or P_{es})

COMPANY Membrane Oil LEASE Chalk Bluff Fed. WELL NO. 1 DATE 3-18-91
 LOCATION: Unit 1 Section 1 Township 18S Range 27E
9949 H 9949 L/H 1.000 G .660 % CO₂ .43 % N₂ .42 % H₂S ---

GH 6566 P_{ct} 673 T_{ct} 374
TABLE IX & X

LINE	1	2	3	4	5	6	7	8
1	T _w (W.H. °R)	532						
2	T _s (B.H. °R)	608						
3	T = $\frac{T_w + T_s}{2}$	570						
4	Z (Est.)	.790						
5	TZ	456.0						
6	GH/TZ	14.399						
7	e ^s (Table XIV)	1.716						
8	P _f or P_e	3249						
9	P _f ² or P_e²	10556						
10	P _c ² = P _f ² /e ^s or P_e²	6151.7						
11	P _c or P_e	2480.3						
12	P _w = $\frac{P_w + P_s}{2}$ or $\frac{P_c + P_f}{2}$	2864.6						
13	P _t = (P/P _{ct})	4.26						
14	T _r = (T/T _{ct})	1.52						
15	Z (Table XI)	.790						

WORK SHEET FOR CALCULATION OF WELL HEAD PRESSURES (or P_w)
FROM KNOWN BOTTOM HOLE PRESSURE (or P_s)

COMPANY Newbourn LEASE Stalk Bluff Fed. WELL NO. 1 DATE 3-18-91
 LOCATION: Unit 9949 Section 1 Township 18S Range 27E
 L 9949 H 9949 L/H 1.00 G 660 % CO₂ .43 % N₂ .42 % H₂S —
 GH 6566 P_{CT} 673 T_{CT} 374

LINE	1	2	3	4	5	6	7	8
1	T _w (W.H. °R)	532	532	532	532	532	532	532
2	T _s (B.H. °R)	608	608	608	608	608	608	608
3	T = (T _w + T _s) / 2	570	570	570	570	570	570	570
4	Z (Est.)	.835	.783	.783	.781	.780	.780	.792
5	TZ	476.0	446.5	446.5	445.1	444.8	444.6	451.7
6	GH/TZ	13.996	14.704	14.712	14.753	14.761	14.768	14.537
7	e ^s (Table XIV)	1.678	1.736	1.736	1.739	1.739	1.740	1.725
8	P_w or P _s	2983	2983	2831	2831	2593	2152	2152
9	P_w or P _s ²	8898.3	8898.3	8014.6	8014.6	6723.6	4631.1	4631.1
10	P_w = P _s ² /es or P _w ² = P _s ² /es	5304.3	5126.6	4616.2	4609.0	3865.5	2661.7	2684.9
11	P_w or P _w	2303.1	2264.2	2148.5	2146.9	1966.5	1631.5	1638.6
12	P _w = (P _w + P _s) / 2 or (P _s + P _w) / 2	2643.1	2623.6	2489.8	2488.9	2279.8	1891.7	1895.3
13	P _f = (P/P _{CT})	3.93	3.90	3.70	3.70	3.39	2.81	2.82
14	T _f = (T/T _{CT})	1.52	1.52	1.52	1.52	1.52	1.52	1.52
15	Z (Table XI)	.783	.783	.781	.781	.780	.792	.792

COMPANY: PRO WIRELINE
CLIENT: MEWBOURNE OIL
GAUGE NUMBER: 12235
WELL NAME: CHALK BLUFF
WELL NUMBER: 1
TEST NUMBER: 1
LOCATION:
TEST OPERATOR: BURRELL
COMMENTS: 4 POINT FLOW TEST RAN
AFTER 72 HOUR BUILD UP

POSITION	GAUGE SERIAL NUMBER
1	
2	
3	
4	

AGE START DATE: 3/15/91

GAUGE S/N: 12235

DATA FILE: 3

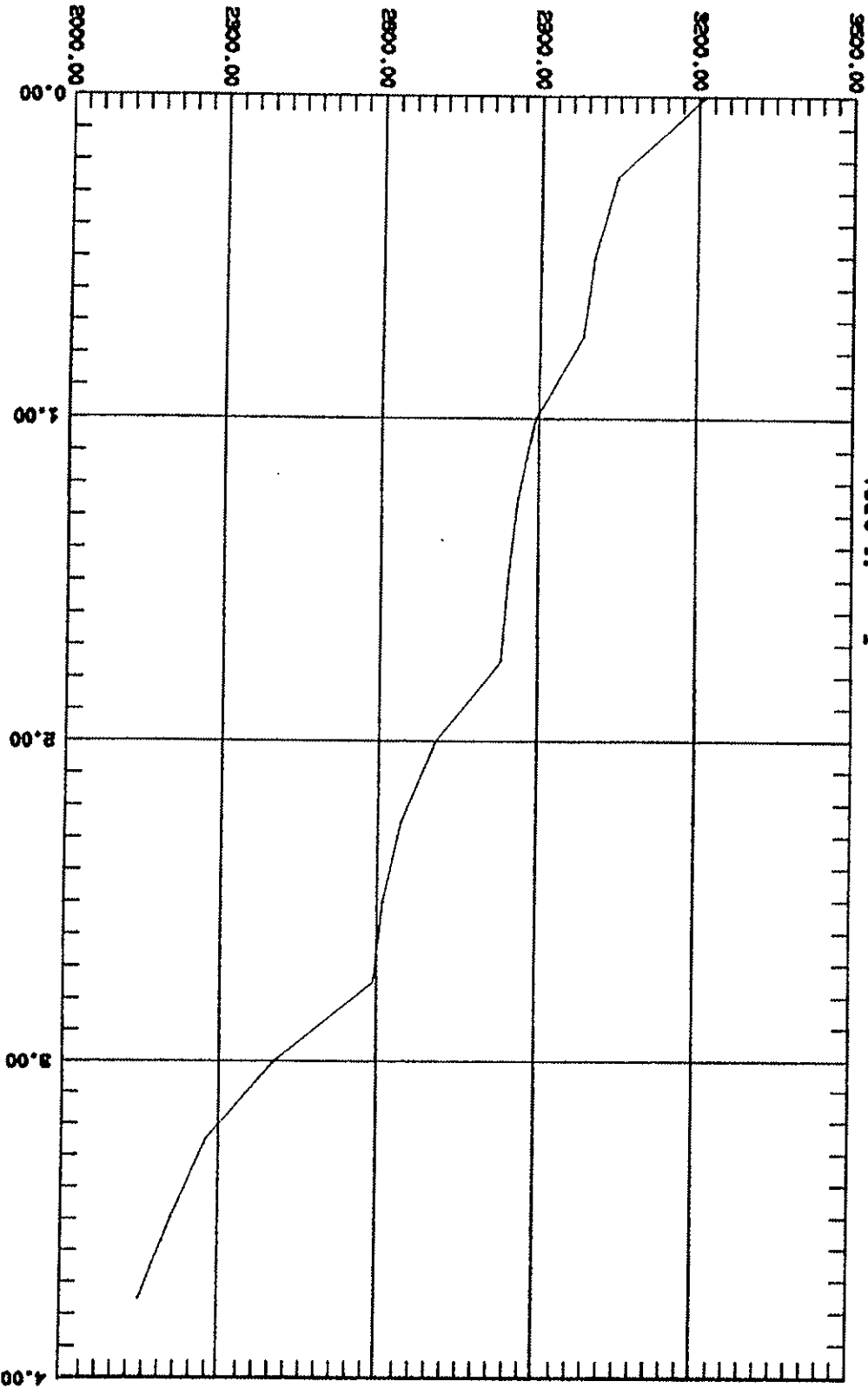
REAL TIME	DELTA TIME HRS	PRESSURE PSIA	TEMPERATURE °F	COMMENTS
9:45: 0	0.0000	3213.00		START RATE 1
10: 0: 0	0.2500	3046.00		
10:15: 0	0.5000	3003.00		
10:30: 0	0.7500	2983.00		START RATE 2
10:45: 0	1.0000	2894.00		
11: 0: 0	1.2500	2861.00		
11:15: 0	1.5000	2843.00		
11:30: 0	1.7500	2831.00		START RATE 3
11:45: 0	2.0000	2707.00		
12: 0: 0	2.2500	2643.00		
12:15: 0	2.5000	2610.00		
12:30: 0	2.7500	2593.00		START RATE 4
12:45: 0	3.0000	2405.00		
13: 0: 0	3.2500	2276.00		
13:15: 0	3.5000	2210.00		
13:30: 0	3.7500	2152.00		END OF TEST

PRESSURE - PSIA

Plot starting date: 3/15/91
time: 9:45: 0
Gauge S/N

Company: PRO WIRELINE
Client: MEMBOURNE OIL
Well name: CHALK BLUFF
Well #: 1
Test #: 1

Location:
Operator: BURRILL
Comments: 4 POINT FLOW TEST RAN
AFTER 72 HOUR BUILD UP



DELTA TIME - HRS

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

RECEIVED
SEP 28 1992

O. C. D.
OIL CONDUIT

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or to deepen or reentry to a different reservoir.
Use "APPLICATION FOR PERMIT—" for such proposals

FORM APPROVED
Budget Bureau No. 1004-0135
Expires: March 31, 1993

5. Lease Designation and Serial No.
NM-0557371

6. If Indian, Allottee or Tribe Name

7. If Unit or CA, Agreement Designation

8. Well Name and No.
Chalk Bluff Fed.Com.#1

9. API Well No.
30-015-26575

10. Field and Pool, or Exploratory Area
N.Illinois Camp-Mor.-Gas

11. County or Parish, State
Eddy

SUBMIT IN TRIPLICATE

1. Type of Well
 Oil Well Gas Well Other

2. Name of Operator
Mewbourne Oil Company

3. Address and Telephone No.
P. O. Box 7698, Tyler, Texas 75711 (903) 561-2900

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)
2250' FWL & 790' FSL Sec. 1, T18S-R27E

12. CHECK APPROPRIATE BOX(S) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION
<input type="checkbox"/> Notice of Intent	<input type="checkbox"/> Abandonment
<input checked="" type="checkbox"/> Subsequent Report	<input type="checkbox"/> Recompletion
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Plugging Back
	<input type="checkbox"/> Casing Repair
	<input type="checkbox"/> Altering Casing
	<input checked="" type="checkbox"/> Other <u>Additional perfs, acidize & frac</u>
	<input type="checkbox"/> Change of Plans
	<input type="checkbox"/> New Construction
	<input type="checkbox"/> Non-Routine Fracturing
	<input type="checkbox"/> Water Shut-Off
	<input type="checkbox"/> Conversion to Injection
	<input type="checkbox"/> Dispose Water

13. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)

- 8/13/92 - Perf Middle Morrow 9861-9882', 2 SPF, 10' Net, 22 holes.
- 8/14/92 - Acidized w/3500 gals 7 1/2% HCL + additives + 1000 SCF/bbl nitrogen carrying 80 ball sealers. Flushed w/2Z KCL wtr + 1000 SCF/bbl nitrogen. ISDP 4300#, 5 mins 3800#, 10 mins 3400#, 15 mins 2800#. Avg rate 3.7 BPM, AP 5000#, MP 5600#. Blew well down to pit 8/15 - 8/18/92.
- 8/19/92 - MI swab unit. Pressure tested tbg to 2000#. Held OK. Removed tree. RU BOP. RU swab. Swabbed well down to 5300'.
- 8/20/92 - Swabbed down to 6500'. POOH w/tbg & pkr. TIH w/new pkr assembly & 200 jts tbg. Tested tbg to 8000#. 8/21/92 - Continued testing tbg. Set pkr @ 9740.68' w/15 pts compression. Press annulus to 2000#. Held OK. Started swabbing. Had light blow of gas.
- 8/22/92 - RU Western Co. Acidized perfs w/1500 gals 7 1/2% HCL acid + additives + 1000 scf/bbl nitrogen + 35 ball sealers. Flushed w/2Z KCL wtr. ISDP 400#. 5 min 3700#, 10 min 3700#, 15 min 3600#. ATP 5100#, MTP 5400#. RD Western. Opened well to pit on 12/64" choke. No show of gas or oil. Recovering load.
- 8/23/92 - RU swab. FL @ 7000'. Swabbed dry in 3 runs. Continued swabbing. Recovering load.

14. I hereby certify that the foregoing is true and correct

Signed [Signature] Title Engr. Oprns. Secretary Date 9/11/92

(This space for Federal or State office use)

Approved by _____ Title _____ Date _____

Conditions of approval, if any: _____

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

UNITED STATES DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT
SUBMIT IN DUPLICATE
(See other instructions on reverse side)

Form approved.
Budget Bureau No. 1004-0137
Expires August 31, 1985

WELL COMPLETION OR RECOMPLETION REPORT AND LOG *

1a. TYPE OF WELL: OIL WELL GAS WELL DRY Other _____

b. TYPE OF COMPLETION: NEW WELL WORK OVER DEEP-EN PLUG BACK DIFF. RESER. Other _____

2. NAME OF OPERATOR
Mewbourne Oil Company ✓

3. ADDRESS OF OPERATOR
P. O. Box 7698, Tyler, Texas 75711 O. C. D.

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements)
At surface 2250' FWL & 790' FSL
At top prod. interval reported below
At total depth Same

5. LEASE DESIGNATION AND SERIAL NO.
NM-0557371

6. IF INDIAN, ALLOTTEE OR TRIBE NAME _____

7. UNIT AGREEMENT NAME _____

8. FARM OR LEASE NAME
Chalk Bluff Federal Com

9. WELL NO.
1

10. FIELD AND POOL, OR WILDCAT
N. Illinois Camp Morrow

11. SEC., T., R., M., OR BLOCK AND SURVEY OR AREA
Sec. 1-T18S-R27

14. PERMIT NO. DATE ISSUED
API #30-015-216575

15. DATE SPUNNERED 16. DATE T.D. REACHED 17. DATE COMPL. (Ready to prod.)
12/22/90 1/29/91 3/07/91

18. ELEVATION (OF, RKB, RT, OR, ETC.)* 19. ELEV. CASING HEAD
KB 3625', GM 3609'

20. TOTAL DEPTH, MD & TVD 21. PLUG, BACK T.D., MD & TVD 22. IF MULTIPLE COMPL., HOW MANY* 23. INTERVALS DRILLED BY ROTARY TOOLS CABLE TOOLS
10,120' 10,079' X

24. PRODUCING INTERVAL(S), OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD)*
9936-46', 9964-67' - Morrow

25. WAS DIRECTIONAL SURVEY MADE
Yes

26. TYPE ELECTRIC AND OTHER LOGS RUN
SDL-DSN, DLL-MSFL, DILL

27. WAS WELL CORRED
No

29. CASING RECORD (Report all strings set in well)

CASING SIZE	WEIGHT, LB./FT.	DEPTH SET (MD)	HOLE SIZE	CEMENTING RECORD	AMOUNT FILLED
13-3/8"	54.50#	400'	17-1/2"	425 - Circ	None
9-5/8"	36#	2604'	12-1/4"	1025 - Circ	None
7"	26# & 29#	9450'	8-3/4"	1350 - Circ	None

29. LINER RECORD

SIZE	TOP (MD)	BOTTOM (MD)	BACKS CEMENT*	SCREEN (MD)	30. TUBING RECORD
4-1/2"	9051'	10119'	175		SIZE DEPTH SET (MD) PACKER SET (MD) 2-3/8" 9805' 9805'

31. PERFORATION RECORD (Interval, size and number)
9936-46', 9964-67'
13', 2 SPF, Total 28

32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.

DEPTH INTERVAL (MD)	AMOUNT AND KIND OF MATERIAL USED
9936-67'	3000 gals Mod-101 acid + 1000 SCF/bbl N2 + 50 ball sealers, Flushed w/35 bbls 2% KCl water + 1000 SCF/bbl N2.

33. PRODUCTION

DATE FIRST PRODUCTION _____ PRODUCTION METHOD (Flowing, gas lift, pumping—size and type of pump)
Flowing

WELL STATUS (Producing or shut-in)
Producing

DATE OF TEST	HOURS TESTED	CHOKER SIZE	PROD'N. FOR TEST PERIOD	OIL—BBL.	GAS—MCF.	WATER—BBL.	OIL/GAS RATIO
3/11/91	24 hrs	8/64"	→	1	886	0	886:1

FLOW. TUBING PRESS.	CASING PRESSURE	CALCULATED 24-HOUR RATE	OIL—BBL.	GAS—MCF.	WATER—BBL.	OIL GRAVITY-API (CORR.)
1600#		→	1	886	0	58.05

34. DISPOSITION OF GAS (Sold, used for fuel, vented, etc.)
'Sold

TEST WITNESSED BY _____

35. LIST OF ATTACHMENTS
Logs

I hereby certify that the foregoing and attached information is complete and correct as determined from all available records.

SIGNED Raymond Thompson TITLE Engr. Oprns. Secretary

ACCEPTED FOR RECORD

SJS
records
APR 1 1991
DATE 3/18/91

CARLSBAD, NEW MEXICO

*(See Instructions and Spaces for Additional Data on Reverse Side)

37. SUMMARY (Show all important zones of porosity and contents thereof; cored intervals; and all drill-stem, including depth interval tested, cushion used, time tool open, flowing and shut-in pressures, and recoveries)

38. GEOLOGIC MARKERS

FORMATION	TOP	BOTTOM	DESCRIPTION, CONTENTS, ETC.	NAME	TOP	
					MEAS. DEPTH	TRUE VERT. DEPTH
Lower Morrow	9936'	9967'	Sandstone	Yates	424'	
Middle Morrow	9861'	9881'	Sandstone	Queen	1138'	
				Grayburg	1484'	
				San Andres	1976'	
				Glorietta	3458'	
				Tubb	4451'	
				Drinkard	5376'	
				Abo	5794'	
				Wolfcamp	6420'	
				Cisco	7666'	
				Canyon	8368'	
				Strawn	8844'	
				Morrow	9454'	
				Morrow Clastics	9770'	
				Barnett	10016'	

Submit 5 Copies
Appropriate District Office
DISTRICT I
P.O. Box 1980, Hobbs, NM 88240

DISTRICT II
P.O. Drawer DD, Artesia, NM 88210

DISTRICT III
1000 Rio Brazos Rd., Aztec, NM 87410

State of New Mexico
Energy, Minerals and Natural Resources Department

OIL CONSERVATION DIVISION
P.O. Box 2088
Santa Fe, New Mexico 87504-2088

Form C-104
Revised 1-1-89
See Instructions
at Bottom of Page

CLSF
LH
GT
DP

REQUEST FOR ALLOWABLE AND AUTHORIZATION
TO TRANSPORT OIL AND NATURAL GAS

I.

Operator MEWBOURNE OIL COMPANY ✓	Well APN No. 30-015-26575
Address P. O. Box 7698, Tyler, Texas 75711	
Reason(s) for Filing (Check proper box) <input type="checkbox"/> Other (Please explain)	
New Well <input checked="" type="checkbox"/>	Change in Transporter of: <input type="checkbox"/>
Recompletion <input type="checkbox"/>	Oil <input type="checkbox"/> Dry Gas <input type="checkbox"/>
Change in Operator <input type="checkbox"/>	Casinghead Gas <input type="checkbox"/> Condensate <input type="checkbox"/>
If change of operator give name and address of previous operator	

II. DESCRIPTION OF WELL AND LEASE

Lease Name CHALK BLUFF FEDERAL	Well No. 1	Pool Name, including Formation North Illinois Camp Morrow	Kind of Lease State Federal oil	Lease No. NM-0557371
Location Unit Letter <u>N</u> : <u>2250</u> Feet From The <u>West</u> Line and <u>790</u> Feet From The <u>South</u> Line Section <u>1</u> Township <u>18 South</u> Range <u>27 East</u> <u>NMPM</u> Eddy County				

III. DESIGNATION OF TRANSPORTER OF OIL AND NATURAL GAS

Name of Authorized Transporter of Oil or Condensate <input type="checkbox"/> or Dry Gas <input checked="" type="checkbox"/>	Address (Give address to which approved copy of this form is to be sent)
Amoco Pipeline Inter-corporate Trucking	Oil Tender Dept. Box 702068, Tulsa, OK 74170-2068
Name of Authorized Transporter of Casinghead Gas <input type="checkbox"/> or Dry Gas <input checked="" type="checkbox"/>	Address (Give address to which approved copy of this form is to be sent)
Transwestern Pipeline Company	P.O. Box 1188, Houston, Texas 77251-1188
If well produces oil or liquids, give location of tanks.	Unit | Sec. | Twp. | Rgs. | Is gas actually connected? | When?
	N | 1 | 18S | 27E | Yes | March, 1991
If this production is commingled with that from any other lease or pool, give commingling order number: <u>NO</u>	

IV. COMPLETION DATA

Designate Type of Completion - (X)	Oil Well	Gas Well	New Well	Workover	Deepen	Plug Back	Same Res'v	Diff Res'v
		X	X					
Date Spudded 12/22/90	Date Compl. Ready to Prod. 3/07/91	Total Depth 10,120'	P.B.T.D. 10,079'					
Elevations (DP, RKB, RT, GR, etc.) KB 3625', GR 3609'	Name of Producing Formation Morrow	Top Oil/Gas Pay 9936'	Tubing Depth 9,805'					
Perforations 9936-46', 9964-67', 13', 2 SPF, Total 28			Depth Casing Shoe					
TUBING, CASING AND CEMENTING RECORD								
HOLE SIZE	CASING & TUBING SIZE	DEPTH SET	SACKS CEMENT					
17-1/2"	13-3/8"	400'	425 <i>Part III-2</i>					
12-1/4"	9-5/8"	2604'	1025 <i>5-12-91</i>					
8-3/3"	7"	9450'	1350 <i>comp. F. BK</i>					
7"	4-1/2" Liner	10119'	175					

V. TEST DATA AND REQUEST FOR ALLOWABLE OIL WELL

(Test must be after recovery of total volume of load oil and must be equal to or exceed top allowable for this depth or be for full 24 hours.)

Date First New Oil Run To Tank	Date of Test	Producing Method (Flow, pump, gas lift, etc.)	
Length of Test	Tubing Pressure	Casing Pressure	Choke Size
Actual Prod. During Test	Oil - Bbls.	Water - Bbls.	Gas - MCF

GAS WELL

Actual Prod. Test - MCF/D 886	Length of Test .24 hours	Bbls. Condensate/MMCF 1	Gravity of Condensate 58°
Testing Method (pilot, back pr.) Back Pressure	Tubing Pressure (Shut-in) 1600#	Casing Pressure (Shut-in)	Choke Size 8/64"

VI. OPERATOR CERTIFICATE OF COMPLIANCE

I hereby certify that the rules and regulations of the Oil Conservation Division have been complied with and that the information given above is true and complete to the best of my knowledge and belief.

Gaylor Thompson
Signature
Gaylor Thompson, Engineering Operations
Printed Name
March 11, 1991 (903) 561-2900
Date Telephone No.

OIL CONSERVATION DIVISION

Date Approved MAY 16 1991

By ORIGINAL SIGNED BY
MIKE WILLIAMS
Title SUPERVISOR, DISTRICT II

INSTRUCTIONS: This form is to be filed in compliance with Rule 1104

- 1) Request for allowable for newly drilled or deepened well must be accompanied by tabular data with Rule 111.
- 2) All sections of this form must be filled out for allowable on new and recompleted wells.
- 3) Fill out only Sections I, II, III, and VI for changes of operator, well name or well number.
- 4) Separate Form C-104 must be filed for each pool in multiply completed wells.

Handwritten scribble or mark.

Redacted area consisting of several thick black horizontal bars.

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

OIL CONS COMMISSION
FORM APPROVED
Drawer DD
Artesia, N.M.
Regulation No. 1004-0135
Expires: March 31, 1993

C/SF

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or to deepen or reentry to a different reservoir.
Use "APPLICATION FOR PERMIT—" for such proposals

SUBMIT IN TRIPLICATE

1. Type of Well
 Oil Well Gas Well Other

2. Name of Operator
 Mewbourne Oil Company

3. Address and Telephone No.
 P.O. Box 5270 Hobbs, New Mexico 88241 (505) 393-5905

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)
 2250' FWL & 790' FSL
 Sec. 1-T18S-R27E

5. Lease Designation and Serial No.
 NM-0557371

6. If Indian, Allottee or Tribe Name

7. If Unit or CA, Agreement Designation

8. Well Name and No.
 Chalk Bluff Fed. Comm. #1

9. API Well No.
 30-015-26575

10. Field and Pool, or Exploratory Area
 N. Illinois Camp Morrow

11. County or Parish, State
 Eddy Co., N.M.

12. CHECK APPROPRIATE BOX(S) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION
<input checked="" type="checkbox"/> Notice of Interest <input type="checkbox"/> Subsequent Report <input type="checkbox"/> Final Abandonment Notice	<input checked="" type="checkbox"/> Abandonment <input type="checkbox"/> Recompletion <input type="checkbox"/> Plugging Back <input type="checkbox"/> Casing Repair <input type="checkbox"/> Altering Casing <input type="checkbox"/> Other _____ <input type="checkbox"/> Change of Plans <input type="checkbox"/> New Construction <input type="checkbox"/> Non-Routine Fracturing <input type="checkbox"/> Water Shut-Off <input type="checkbox"/> Conversion to Injection <input type="checkbox"/> Dispose Water <small>(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)</small>

13. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)

- Spot 8 sx. (50') cement plug on top of existing CIBP @ 7010'. Circulate hole with plug mud.
- Spot 17 sx. (100') cement plug @ 2650'.
- Spot 17 sx. (100') cement plug @ 450'.
- Cut off and remove wellhead.
- Spot 8 sx. (50') surface plug.
- Install cup and dry hole marker.
- Clean location.

RECEIVED

AUG 18 1995

OIL CON. DIV.
DIST. 2

JUN 2 10 45 AM '95
 RECEIVED

14. I hereby certify that the foregoing is true and correct.
 Signed: [Signature] Title: Engineer Date: 5/25/95

(This space for Federal or State office use)
 Approved by: Shannon J. Shaw Title: PETROLEUM ENGINEER Date: 8/14/95
 Conditions of approval, if any

OCD - Artesia

C151

Form 3160-5
(June 1990)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM APPROVED
Budget Bureau No. 1004-0135
Expires: March 31, 1993

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or to deepen or reentry to a different reservoir.
Use "APPLICATION FOR PERMIT-" for such proposals

SUBMIT IN TRIPLICATE

1. Type of Well <input type="checkbox"/> Oil Well <input type="checkbox"/> Gas Well <input checked="" type="checkbox"/> Other	5. Lease Designation and Serial No. NM-0557371
2. Name of Operator Mewbourne Oil Company	6. If Indian, Allottee or Tribe Name
3. Address and Telephone No. PO Box 5270, Hobbs, NM 505-393-5905	7. If Unit or CA, Agreement Designation
4. Location of Well (Footage, Sec., T., R., M., or Survey Description) 790' FSL & 2250' FWL, Sec.1 T-18S R-27E	8. Well Name and No. Chalk Bluff Federal Comm #1
	9. API Well No. 30-015-26575
	10. Field and Pool, or Exploratory Area N. Illinois Camp Morrow
	11. County or Parish, State Eddy, NM

12. CHECK APPROPRIATE BOX(S) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION
<input checked="" type="checkbox"/> Notice of Intent	<input type="checkbox"/> Abandonment
<input type="checkbox"/> Subsequent Report	<input type="checkbox"/> Recompletion
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Plugging Back
	<input type="checkbox"/> Casing Repair
	<input type="checkbox"/> Altering Casing
	<input checked="" type="checkbox"/> Other <u>Extend T/A & CIT.</u>
	<input type="checkbox"/> Change of Plans
	<input type="checkbox"/> New Construction
	<input type="checkbox"/> Non-Routine Fracturing
	<input type="checkbox"/> Water Shut-Off
	<input type="checkbox"/> Conversion to Injection
	<input type="checkbox"/> Dispose Water

(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)

The above caption well is currently under T/A status. Mewbourne Oil Company would like to extend this status. The well has a 7" CIBP above all perms @ 7010'. We are considering converting this well into a SWD. At this time, Mewbourne would like to schedule a CIT (500 psi) & after passing, extend T/A status for an additional time.

If any question, please call.



TA Approved for 12 Month Period
Ending 10/25/2001

RECEIVED
2000 OCT 10 1 P 2 34
BUREAU OF LAND MGMT.
CARLSBAD RESOURCE AREA

14. I hereby certify that the foregoing is true and correct

Signed <u>[Signature]</u>	Title <u>N.M. Young</u> District Manager	Date <u>10/06/00</u>
(This space for Federal or State office use)		
Approved by <u>(ORIG. 502) MEG. LARA</u>	Title <u>Permitting Engineer</u>	Date <u>11/6/2000</u>
Conditions of approval, if any:		

18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

*See Instruction on Reverse Side

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

N.M. C. Cons. Division
811 S. 1st Street
Artesia, NM 88210-2834

FORM APPROVED
Budget Bureau No. 1004-0135
Expires: March 31, 1993
Title, Location and Serial No.
NM-0557371

CSF

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or to deepen or reentry to a different reservoir.
Use "APPLICATION FOR PERMIT-" for such proposals

SUBMIT IN TRIPLICATE

1. Type of Well

Oil Well Gas Well Other

2. Name of Operator

Mewbourne Oil Company

3. Address and Telephone No.

PO Box 5270, Hobbs, NM 505-393-5905

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)

790' FSL & 2250' FWL, Sec.1 T-18S R-27E

6. If Indian, Allottee or Tribe Name

7. If Unit or CA, Agreement Designation

8. Well Name and No.

Chalk Bluff Federal Comm #1

9. API Well No.

30-015-26575

10. Field and Pool, or Exploratory Area

N. Illinois Camp Morrow

11. County or Parish, State

Eddy, NM

12. CHECK APPROPRIATE BOX(S) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION

Notice of Intent
 Subsequent Report
 Final Abandonment Notice

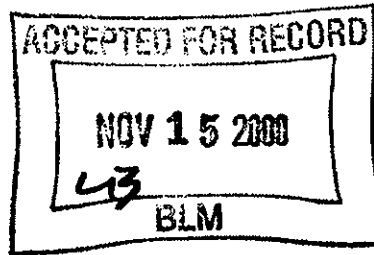
TYPE OF ACTION

Abandonment
 Recompletion
 Plugging Back
 Casing Repair
 Altering Casing
 Other MIT
 Change of Plans
 New Construction
 Non-Routine Fracturing
 Water Shut-Off
 Conversion to Injection
 Dispose Water

(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

13. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

The above caption well was successfully MIT'ed on 10/25/2000. (500 psi for 30 min.)
The pressure chart is enclosed.
If any question, please call.



14. I hereby certify that the foregoing is true and correct

Signed *N.M. Young*

Title N.M. Young District Manager

Date 11/01/00

(This space for Federal or State office use)

Approved by **Record Only**

Title

Date

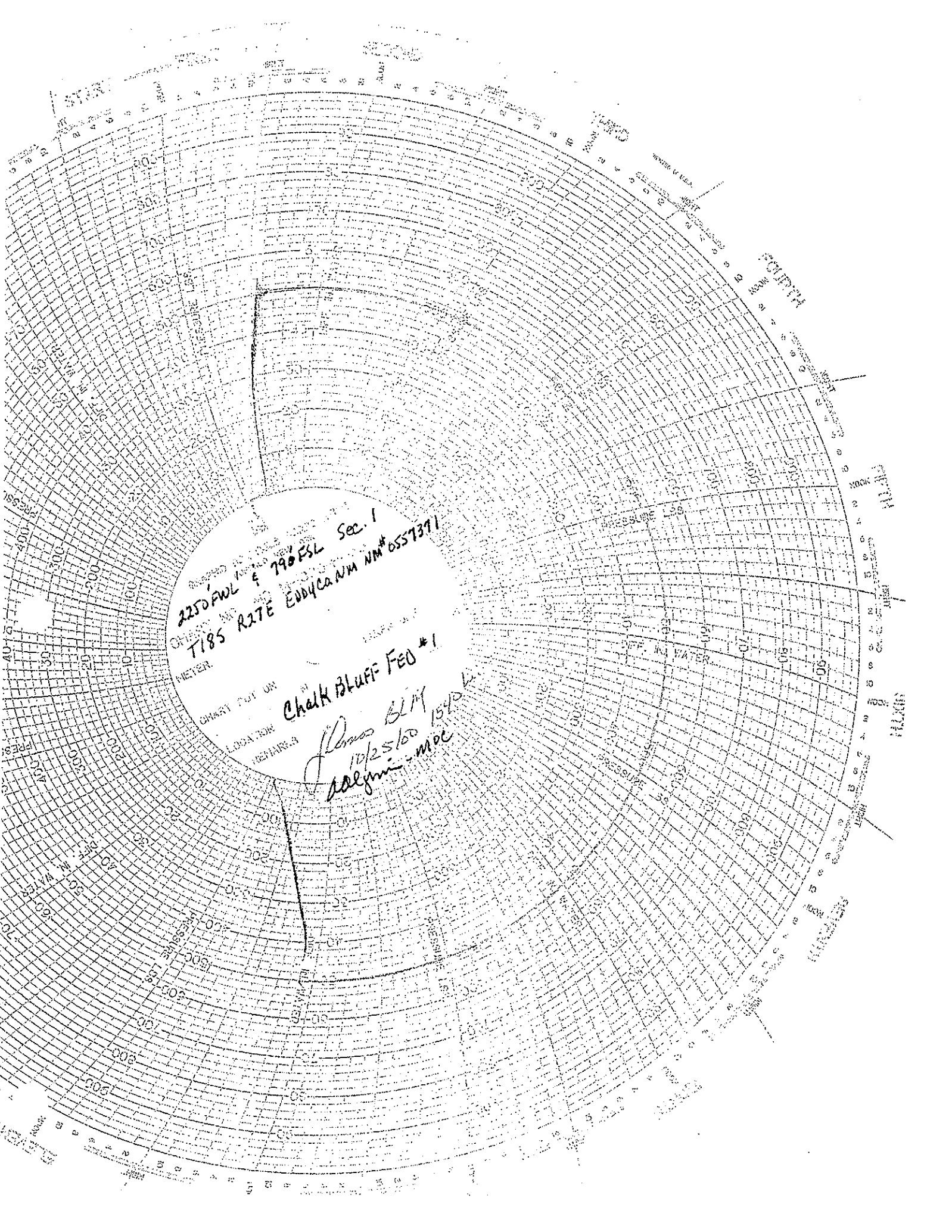
Conditions of approval, if any:

*Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

2250 FWL & 790 FSL Sec. 1
T185 R2TE EDDYCA NM NM# 0557371

CHALK BLUFF FED #1

James Blinn
10/25/00 1545
Adgim - mpc



UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

NM OIL CONS COMMISSION
Drawer DD

Artesia, NM 88210

FORM APPROVED
Budget Bureau No. 1004-0135
Expires: March 31, 1993

25F

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or to deepen or reentry to a different reservoir.
Use "APPLICATION FOR PERMIT—" for such proposals

SUBMIT IN TRIPLICATE

FEB 21 1994

1. Type of Well

Oil Well Gas Well Other

2. Name of Operator

Mewbourne Oil Company

3. Address and Telephone No.

P.O. Box 5270 Hobbs, New Mexico 88241 (505) 393-5905

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)

2250' FWL & 790' FSL
Sec. 1-T18S-R27E

5. Lease Designation and Serial No.

NM-0557371

6. If Indian, Allottee or Tribe Name

7. If Unit or CA, Agreement Designation

8. Well Name and No.

Chalk Bluff Fed. Com. #1

9. API Well No.

30-015-26575

10. Field and Pool, or Exploratory Area

N. Illinois Camp

11. County or Parish, State

Eddy Co., N.M.

12. CHECK APPROPRIATE BOX(S) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION

- Notice of Intent
- Subsequent Report
- Final Abandonment Notice

TYPE OF ACTION

- Abandonment
- Recompletion
- Plugging Back
- Casing Repair
- Altering Casing
- Other Shut-In-Status
- Change of Plans
- New Construction
- Non-Routine Fracturing
- Water Shut-Off
- Conversion to Injection
- Dispose Water

(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

Mewbourne Oil Company here by requests temporarily abandon status pending further evaluation of the lease for the above well. The well was spudded 12/22/90.

APPROVED FOR 12 MONTH PERIOD
ENDING 1/25/95

JAN 27 10 06 AM 1994
RECEIVED

14. I hereby certify that the foregoing is true and correct

Signed Robert G. Jones

Title Petroleum Engineer

Date 01/25/94

(This space for Federal or State office use)

Approved by (ORIG. SGD.) JOE G. LARA

Title PETROLEUM ENGINEER

Date 2/16/94

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

*See instruction on Reverse Side

RECEIVED
OCT 15 11 51 AM '93

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

NEW MEXICO OIL & GAS COMMISSION
Drawer 88
Alamosa, NM

PERMIT APPROVED
Budget Bureau No. 1004-0135
Expires: March 31, 1993

CSF

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or to deepen or reentry to a different reservoir.
Use "APPLICATION FOR PERMIT—" for such proposals

SUBMIT IN TRIPLICATE

NOV 17 1993

1. Type of Well
 Oil Well Gas Well Other

2. Name of Operator
Mewbourne Oil Company

3. Address and Telephone No.
P.O. Box 5270 Hobbs, New Mexico 88241 (505) 393-5905

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)
2250' FWL & 790' FSL of Sec. 1-T18S-R27E

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NM-0557371

6. If Indian, Allottee or Tribe Name

7. If Unit or CA, Agreement Designation

8. Well Name and No.
Chalk Bluff Fed. Comm. #1

9. API Well No.
30-015-26575

10. Field and Pool, or Exploratory Area
N. Illinois Camp

11. County or Parish, State
Eddy Co., N.M.

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- Notice of Intent
- Subsequent Report
- Final Abandonment Notice

TYPE OF ACTION

- Abandonment
- Recompletion
- Plugging Back
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- Dispose Water

(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

13. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

* Verbal from Adam Salameh

- 9/10/93 Abandon Morrow formation. Set CIBP @ 9800' & cover w/35' cement.
- 9/11/93 Perforate Cisco from 7826'-7830'. Test & evaluate.
- 9/12/93 Squeeze Cisco from 7826'-7830' w/600 sx. Class "C".
- 9/15/93 Drill out squeeze perms. to 7792'. Squeeze held 2,000#.
- 9/16/93 Perforate Cisco from 7676'-7678'. Test and evaluate.
- 9/17/93 Abandon Cisco formation, set CIBP @ 7600' & cover w/35' cement.
- 9/18/93 Perforate Wolfcamp 7304'-7314'. Test & evaluate.
- 9/19/93 Acidize Wolfcamp w/1500 gal. 15% NE-FE from 7304'-7314'.
- 9/21/93 Set CIBP @ 7294' & perforate Wolfcamp from 7262'-7278'. Test & evaluate.
- 9/22/93 Acidize Wolfcamp w/2000 gal. 15% NE-FE from 7262'-7278'.
- 9/23/93 Set CIBP @ 7208' & perforate Wolfcamp from 7050'-7102'. Test & evaluate.
- 9/24/93 Acidize Wolfcamp w/2000 gal. 15% NE-FE from 7050'-7102'.
- 9/25/93 Set CIBP @ 7010'.

14. I hereby certify that the foregoing is true and correct

Signed Robert L. Jones

Title Petroleum Engineer

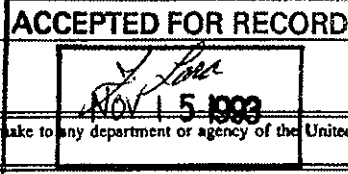
Date 10/05/93

(This space for Federal or State office use)

Approved by _____
Conditions of approval, if any:

Title _____

Date _____

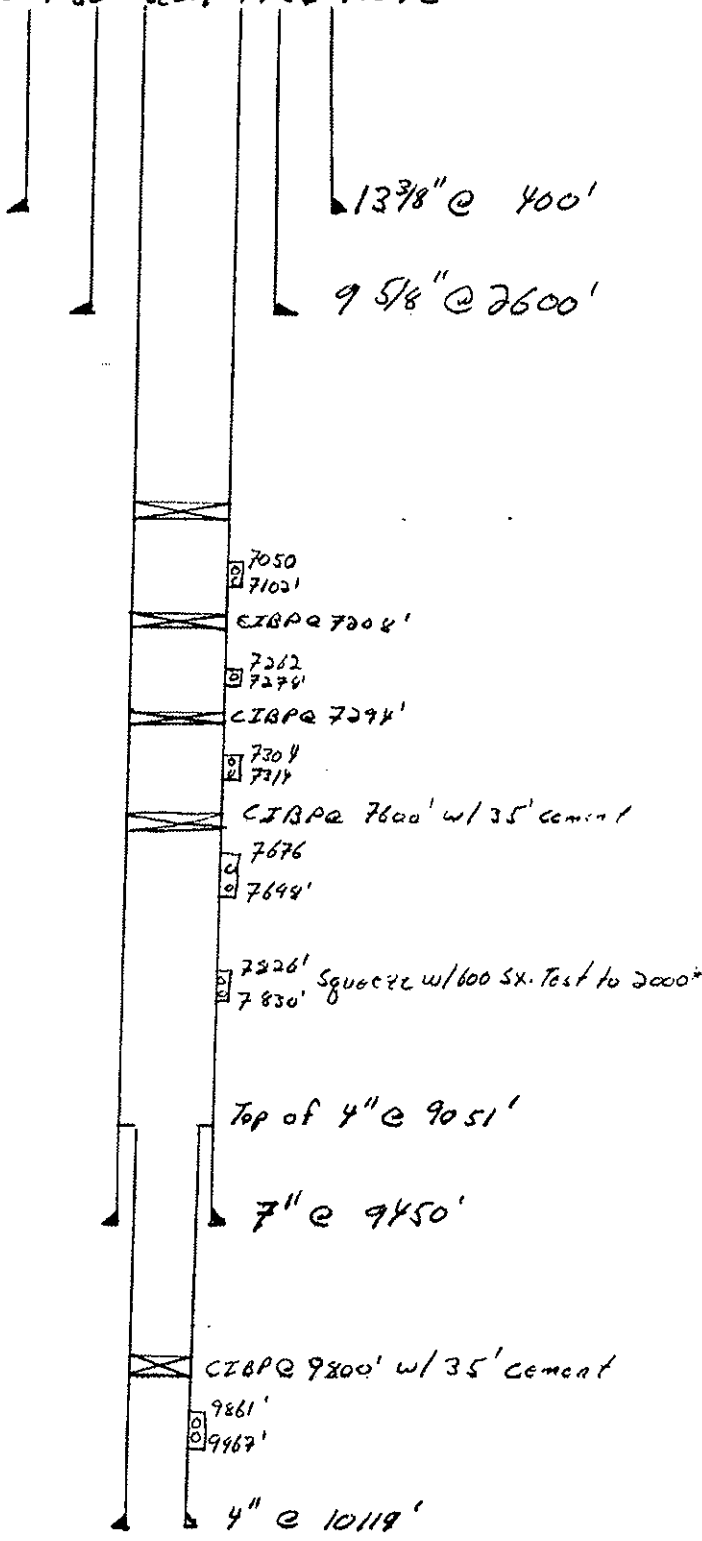


Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

*See Instructions at READING NEW MEXICO

Mewbourne Oil Company
Chuck Bluff Federal #1

2250' FULT 740' FSL Sec. 1-T18S-R27E



RECEIVED
MAR 7 1954
OIL FIELD

C15F

3160-5
1990)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM APPROVED
Budget Bureau No. 1004-0135
Expires: March 31, 1993

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or to deepen or reentry to a different reservoir.
Use "APPLICATION FOR PERMIT—" for such proposals

5. Lease Designation and Serial No.

NM-0557371

6. If Indian, Allottee or Tribe Name

7. If Unit or CA, Agreement Designation

8. Well Name and No.

Chalk Bluff Fed. Com. #1

9. API Well No.

30-015-26575

10. Field and Pool, or Exploratory Area

N. Illinois Camp

11. County or Parish, State

Eddy Co., N.M.

SUBMIT IN TRIPLICATE

OCT 19 1993

1. Type of Well

Oil Well Gas Well Other

2. Name of Operator

Mewbourne Oil Company

3. Address and Telephone No.

P.O. Box 5270 Hobbs, New Mexico 88241 (505) 393-5905

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)

2250' FWL & 790' FSL of Sec. 1-T18S-R27E

12. CHECK APPROPRIATE BOX(S) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION

TYPE OF ACTION

- Notice of Intent
- Subsequent Report
- Final Abandonment Notice

- Abandonment
- Recompletion
- Plugging Back
- Casing Repair
- Altering Casing
- Other

- Change of Plans
- New Construction
- Non-Routine Fracturing
- Water Shut-Off
- Conversion to Injection
- Dispose Water

(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

13. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

- 09/08/93 Abandon Morrow Perfs 9861' - 9967'
- Set CIBP @ 9800' - cover w/35' cement.
- Recomplete in Cisco Formation - Test & evaluate.
- If unecomomical recomplete in Wolfcamp - Test & evaluate.

RECEIVED
SEP 22 10 43 AM '93
CARE AREA

14. I hereby certify the foregoing is true and correct

Signed [Signature]

Title Petroleum Engineer

Date 09/07/93

(This space for Federal or State Office use)

Approved by (ORIG. SGD.) JOE G. LARA

Title PETROLEUM ENGINEER

Date 10/15/93

Conditions of approval, if any:

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

*See Instruction on Reverse Side

30-015-210575

Objekt- 14744

Property- 7876

Pool- 78890



3-19-91

DUAL LAT.

2575-9440

9330-1012

DUAL SPACED

NEUTRON

Lat. 9417

8500-1012



3-19-91

DUAL LAT.

2575-9440

9330-1012

DUAL SPACED

NEUTRON

Lat. 9417

8500-1012

NC Tops DEM 5/14/91

Queen	1140
Grayburg	1630
San Andres	1975
Glorieta	3598
Abo	>
Wolfcamp	6860
Penn	
Strawn	
Atoka	9135
Morrow	9703





NEW MEXICO ENERGY, MINERALS and NATURAL RESOURCES DEPARTMENT

GARY E. JOHNSON

Governor
Betty Rivera
Cabinet Secretary

Lori Wrotenbery
Director
Oil Conservation Division

31 January 2003

Navajo Refining Co.
P. O. Box 159
Artesia, New Mexico 88211

File
Copy

RE: Chalk Bluff Federal Com # 1 N-1-18-27 API 30-015-26575 Violation of Rule 201:
Idle Well

Dear Sirs:

This second directive is to notify you that this well is still in violation of Rule 201.

On 12 December, 2002 a letter was sent notifying you on the violation of Rule 201. On 3 January, 2003 the form C-104 was faxed to you indicating Navajo Refining was the operator of this well. To date no action has been taken.

Rule 201 of the New Mexico Oil Conservation Division provides as follows:

201 WELLS TO BE PROPERLY ABANDONED

201.A. The operator of any well drilled for oil, gas or injection; for seismic, core or other exploration, or for a service well, whether cased or uncased, shall be responsible for the plugging thereof. [7-12-90...2-1-96]

201.B. A well shall be either properly plugged and abandoned or temporarily abandoned in accordance with these rules within ninety (90) days after:


- (1) A sixty (60) day period following suspension of drilling operations, or
- (2) A determination that a well is no longer usable for beneficial purposes, or
- (3) A period of one (1) year in which a well has been continuously inactive.

[7-12-90...2-1-96]

In the event that a satisfactory response is not received to this letter of direction by 15 March, 2003, further enforcement will occur. Such enforcement may include this office applying to the Division for an order summoning you to a hearing before a Division Examiner in Santa Fe to show cause why you should not be ordered to permanently plug and abandon this well. Such a hearing may result in imposition of **CIVIL PENALTIES** for your violation of OCD rules.

Sincerely,

Van Barton
Field Rep. II

To: 

Shirley Jones - CRUDE OIL SUPPLY CLERK

LEASE RECORDS

Navajo Refining Company

P.O. Box 159

Artesia, NM 88211-0159

phone (505) 746-5325

fax (505) 746-5283

shirleyj@navajo-refining.com (please note the "j" after shirley)

TO: District II
FAX: 505-748-9720
RE: Chalk Bluff Federal Com #1
API No. 30-015-26575

COMPANY: Oil Conservation Division
PHONE: 505-748-1283

MESSAGE:

We have received the enclosed letter from you showing that Navajo Refining Company is the operator for the above referenced lease.

Navajo Refining Company is neither the operator, transporter or purchaser on this lease. Your Internet site shows Mewbourne Oil Company to be the operator.

We do have them as an operator on some of the leases that we transport. But this lease is not one of them.

We have contact information for them of: PO Box 7698, Tyler, TX 75711, with a New Mexico phone for Jerry Elgin of 505-393-5905.

If you have other information that shows Navajo Refining Company as the operator, would you please forward a copy to me so that I may research it further.

Thank you.


-Shirley Jones

Shirley - Please note the attached document signed by Darrell Moore.



District I
1625 N. French Dr., Hobbs, NM 88240
District II
South First, Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
2040 South Pacheco, Santa Fe, NM 87505

State of New Mexico
Energy Minerals and Natural Resources

Form C-104A
August 11, 2000

49
OP

Oil Conservation Division
2040 South Pacheco
Santa Fe, NM 87505

Submit a copy of the final affected wells
listing with 2 copies of this form per
number of wells on that list to
appropriate District Office

Change of Operator

Previous Operator Information:

OGRID: 14744
Name: Mewbourne Oil Company
Address: P. O. Box 7698
Address: _____
City, State, Zip: Tyler, TX 75711

New Operator Information:

Effective Date: 5 October, 2000
New Ogrid: 15684
New Name: Navajo Refining Company
Address: ~~100 Crescent Court, Dec 1600~~
Address: P.O. Box 159
City, State, Zip: ~~Dallas, TX 75201~~
Artesia, NM 88211

I hereby certify that the rules of the Oil Conservation Division have been complied with and that the information on this form and the attached list of wells is true and complete to the best of my knowledge and belief.

New Operator

Signature: Darrell Moore

Printed name: Darrell Moore

Title: Env. Mgr. for Water and Waste

Date: 12/5/00 Phone: 505-748-3311

Previous operator complete below:

Previous
Operator: Mewbourne Oil Company
Previous
OGRID: 14744
Signature: Monty Whetstone
Printed Name: Monty Whetstone

NMOCD Approval	
Signature:	<u>Jim W. Green</u>
Printed Name:	<u>District Supervisor</u>
District:	<u>NOV 27 2000</u>
Date:	<u>NOV 27 2000</u>

27021 - property code - Chalk Bluff Federal Corn #1
30-015-26575 - API Number 1-185-27E

SUNDRY NOTICES AND REPORTS ON WELLS
Do not use this form for proposals to drill or to re-enter an abandoned well. Use Form 3160-3 (APD) for such proposals.

6. If Indian, Allottee or Tribe Name

7. If Unit or CA/Agreement, Name and/or No.

8. Well Name and No.
WDW-3 #3 23592

9. API Well No.
30-015-26575

10. Field and Pool, or Exploratory Area
NAVAJO INJECTION, PERMO-PENN

11. County or Parish, State
EDDY

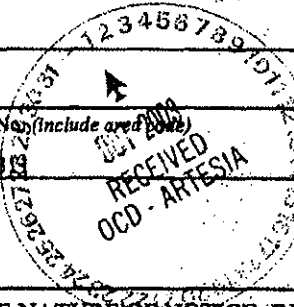
1. Type of Well
 Oil Well Gas Well Other TEMPORARILY ABANDONED

2. Name of Operator
NAVAJO REFINING COMPANY 15694

3a. Address
PO BOX 159, ARTESIA, NM 88211

3b. Phone No. (include area code)
505-748-3119

4. Location of Well (Footage, Sec., T, R, M., or Survey Description)
790' FSL, 2250' FWL, 1-18S-27E



12. CHECK APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION		
<input checked="" type="checkbox"/> Notice of Intent	<input type="checkbox"/> Acidize	<input type="checkbox"/> Deepen	<input type="checkbox"/> Production (Start/Resume)
<input type="checkbox"/> Subsequent Report	<input type="checkbox"/> Alter Casing	<input type="checkbox"/> Fracture Treat	<input type="checkbox"/> Reclamation
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Casing Repair	<input type="checkbox"/> New Construction	<input type="checkbox"/> Recomplete
	<input type="checkbox"/> Change Plans	<input type="checkbox"/> Plug and Abandon	<input type="checkbox"/> Temporarily Abandon
	<input type="checkbox"/> Convert to Injection	<input type="checkbox"/> Plug Back	<input checked="" type="checkbox"/> Water Disposal
			<input type="checkbox"/> Water Shut-Off
			<input type="checkbox"/> Well Integrity
			<input type="checkbox"/> Other RECOMPLETE AS CLASS I INJECTION WELL

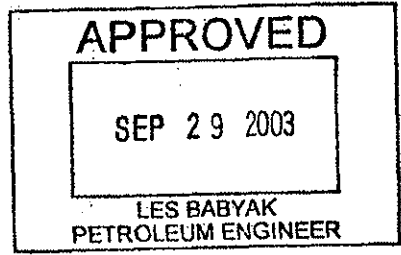
3. Describe Proposed or Completed Operation (clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recomplete horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports shall be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompletion in a new interval, a Form 3160-4 shall be filed once drilling has been completed. Final Abandonment Notices shall be filed only after all requirements, including reclamation, have been completed, and the operator has determined that the site is ready for final inspection.)

Original well name was CHALK BLUFF FEDERAL COM. NO. 1

change well name per Darrell Moore

DRILL OUT BRIDGE PLUG AT 7010' AND CLEAN OUT TO 7208'.
INJECTION-TEST PERFORATIONS AT 7050' - 7102', 7262' - 7278' TO PLAN SQUEEZE-CEMENT JOB.
DRILL OUT BRIDGE PLUGS AT 7208' AND 7294'. CLEAN OUT HOLE THROUGH PERFS AT 7304'-7314'.
SQUEEZE-CEMENT PERFORATIONS AT 7050' - 7102', 7262' - 7278', AND 7304' - 7314'.
DRILL OUT BRIDGE PLUG AT 7600' AND CLEAN OUT TO TOP OF LINER AT 9051'.
RUN CBL/VDL AND CALIPER FROM 9051' TO SURFACE.
PERFORATE 8540' - 8620' AND 7660' - 8450'.
RUN INJECTIVITY TEST, AND ACIDIZE IF NECESSARY.
RUN INJECTION/FALLOFF TEST.
RUN DIFFERENTIAL TEMPERATURE SURVEY.
RUN RADIOACTIVE TRACER SURVEY.
INSTALL INJECTION TUBING AND PACKER TO APPROX. 7600'.
INSTALL WELL ANNULUS MONITORING EQUIPMENT, AND PREPARE WELL FOR INJECTION.

**SUBJECT TO
LIKE APPROVAL
BY NMOCD**



14. I hereby certify that the foregoing is true and correct

Name (Printed/Typed) Darrell Moore Title Env. Mgr. for Waters & Waste

Signature Darrell Moore Date 9/17/03

Approved by (Signature) _____ Name (Printed/Typed) _____ Title _____

Office _____ Date _____

18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

District I
1625 N. French Dr., Hobbs, NM 88240
District II
301 W. Grand Avenue, Artesia, NM 88210
District III
1000 Rio Brazos Rd., Artec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy, Minerals & Natural Resources Department
OIL CONSERVATION DIVISION
1220 South St. Francis Dr.
Santa Fe, NM 87505

Form C-102
Revised June 10, 2003
Submit to Appropriate District Office
State Lease - 4 Copies
Fee Lease - 3 Copies

AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number 30 - 015 -26575		² Pool Code	³ Pool Name Navajo Injection; Permo-Penn
⁴ Property Code 23592	⁵ Property Name WDW		⁶ Well Number 3
⁷ OGRID No. 15694	⁸ Operator Name Navajo Refining Company		⁹ Elevation 3609' GL; 3625' KB

¹⁰ Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
N	1	18S	27E		790	South	2250	West	Eddy

¹¹ Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County

¹² Dedicated Acres	¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ Order No.

NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION

<p>¹⁶</p>	<p>¹⁷ OPERATOR CERTIFICATION</p> <p>I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief.</p> <p>Signature: <i>Darrell Marc</i></p> <p>Printed Name: Darrell Marc</p> <p>Title and E-mail Address: Env. Mgr. for Water & Waste, darrell@navajo-refining.com</p> <p>Date: 9/17/03</p>	
	<p>¹⁸ SURVEYOR CERTIFICATION</p> <p>I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief.</p> <p>Date of Survey:</p> <p>Signature and Seal of Professional Surveyor:</p>	
	<p>Certificate Number</p>	
	<p>Accepted for record - NMOCD</p>	

REENTRY PROCEDURE

NAVAJO REFINING COMPANY'S WDW-3 (PROPOSED)

790' FSL and 2250' FWL, Section 1, T18S, R27E
Eddy County, New Mexico
Chalk Bluff Federal Com. No. 1, API No. 30-015-26575

All depths are in feet below well's original kelly bushing height (RKB) of 16 feet above ground level. The original KB elevation is 3625 feet above mean sea level. The ground level elevation is 3609 feet above mean sea level.

Tops of Geologic Formations (from RKB)

The base of the lowermost USDW is at 420 feet.

San Andres	1976 feet	Lower Wolfcamp	7303 feet
Yeso	4030 feet	Cisco	7650 feet
Abo	5380 feet	Canyon	8390 feet
Wolfcamp	6745 feet	Strawn	8894 feet

Depth of Plugs

7010 feet in 7-inch casing above perforations 7050 feet to 7102 feet
7208 feet in 7-inch casing above perforations 7262 feet to 7278 feet
7294 feet in 7-inch casing above perforations 7304 feet to 7314 feet
7600 feet in 7-inch casing above perforations 7676 feet to 7678 and
7826 feet to 7830 feet
9800 feet in 4-1/2-inch liner above perforations 9861 feet to 9967 feet

Anticipated Formation Pressure

The expected bottom-hole pressure is 3448 pounds per square inch absolute (psia) at 9000 feet, for a gradient of 0.383 pounds per square inch (psi) per foot, or an equivalent

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mud weight of 7.36 pounds per gallon (ppg). The bottom-hole pressure was determined from the pressure measured in Navajo's WDW-2, or 2813 psia, at 7570 feet. Navajo's WDW-2 is completed in the same interval proposed for WDW-3 and is located in 12-T18S-R27E, 3200 feet southwest of proposed WDW-3. The average specific gravity of the fluid in the Cisco and Canyon Formations is expected to be 1.025, which is the specific gravity of the fluid swabbed from WDW-2 in June 1999 from the interval between 7826 feet and 8399 feet. The expected bottom-hole pressure at 9000 feet in proposed WDW-3 is calculated below:

$$\begin{aligned} \text{BHP (9000 feet)} &= 2813 \text{ psia} + (9000 \text{ feet} - 7570 \text{ feet}) \times 0.433 \text{ psi/ft} \times 1.025 \\ &= 3448 \text{ psia} \end{aligned}$$

Reentry Procedure

1. Level location to accommodate a workover rig, pump, tanks, and ancillary equipment. Build a small working pit approximately 30 feet square and 3 feet deep with a plastic lining. Move in the rig, tank, shale shaker, and work string.
2. Install a 7-1/16-inch, 3000-psi double hydraulic blowout preventer (BOP) and a 7-1/16-inch, 3000-psi annular BOP (see Exhibit A for schematic). Pressure test the BOP stack and casing to 1500 psi for 30 minutes. Pick up a 6-1/8-inch bit, and sufficient 4-3/4-inch drill collars to drill out the cement plugs, on a 2-7/8-inch work string. Mix a tank of 8.5-ppg sodium chloride brine water for circulating fluid.
3. Run the bit to 7000 feet and circulate the wellbore fluid out of the casing into a frac tank for disposal. Drill out the cast iron bridge plug (CIBP), cement at 7010 feet, and clean out to the CIBP at 7208 feet. Circulate the hole clean and pump into the perforations from 7050 feet to 7102 feet to establish a rate and pressure for a pending squeeze cement job.
4. Drill out the CIBP at 7208 feet and clean out past the perforations from 7262 feet to 7278 feet and drill out the third CIBP at 7294 feet. Clean out below the perforations from 7304 feet to 7314 feet. Run a second injection test for injection rate and pressure comparison.

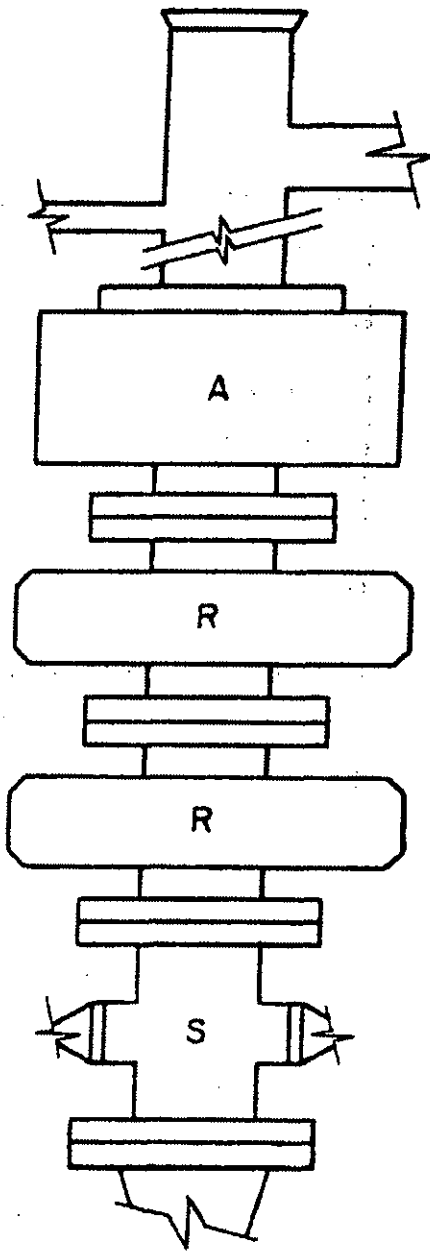
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5. Pull the bit and run a retrievable squeeze packer on the work string. Set the packer at 7150 feet and test for communication between the perforations. Squeeze the perforations from 7262 feet to 7278 feet and 7304 feet to 7314 feet with approximately 100 sacks of neat cement (actual squeeze cement volume to be determined by the injection rate established previously), attempting to reach 1500 psi to 2000 psi squeeze pressure. Release the packer and reverse out any excess cement, then re-test the perforations to the squeeze pressure.
6. Re-set the packer at 6900 feet and squeeze the perforations from 7050 feet to 7102 feet as before.
7. Lay down the squeeze packer and drill out the cement to the CIBP at 7600 feet. Conduct a pressure test to 500 psi for 12 hours to confirm the squeeze cement will contain the annular fluid pressure required during injection operations.
8. Drill out the CIBP at 7600 feet and circulate to the top of the liner at 9051 feet. Circulate the casing clean with 8.5-ppg brine water. Pull the bit and lay down the drill collars.
9. Run a cement bond log with variable density (CBL/VDL) from the liner top to the surface, followed by a baseline multi-finger caliper log from the liner top to the surface.
10. Perforate the intervals 8540 feet to 8620 feet and 7660 feet to 8450 feet with 2 JSPF, using hollow steel carrier perforating guns.
11. Run the work string and retrievable packer to 7600 feet. Swab, or backflow, the perforated interval to recover a representative sample of the formation water for laboratory analysis. Monitor the recovered fluid for hydrogen sulfide.
12. Conduct a short injectivity test with 8.5-ppg brine water to determine the need for stimulation. If required, stimulate the perforations with acid (type and amount to be determined from injectivity results), followed by 500 barrels of 8.5-ppg brine water.

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13. Pull the work string and lay it down. Run a surface readout pressure gauge, with memory backup, to 7600 feet. Conduct an injection test down the casing at 420 gallons per minute for 12 hours (7200 barrels). Shut the well in and record the pressure falloff for a minimum of 12 hours.
14. Pull the gauges and run a differential temperature survey from surface to 9100 feet. Run a radioactive tracer survey to demonstrate mechanical integrity.
15. Run a tubing conveyed injection packer on 4-1/2-inch, 11.60 lb/ft, K-55, LT&C, 8rd injection tubing. Set the packer at approximately 7600 feet. Fill the annular space with 8.5-ppg brine water containing oxygen scavenger and corrosion inhibitor. Land the injection tubing in the wellhead and install the upper section.
16. Pressure test the annulus as required by New Mexico regulations.
17. Install well annulus monitoring equipment and prepare the well for injection.

Accepted for record - NMOCD



A = ANNULAR BLOWOUT PREVENTER
7-1/16", 3000 psi working pressure

R = RAM TYPE BLOWOUT PREVENTER
7-1/16", 3000 psi working pressure

S = DRILLING SPOOL WITH SIDE OUTLETS
7-1/16", 3000 psi working pressure

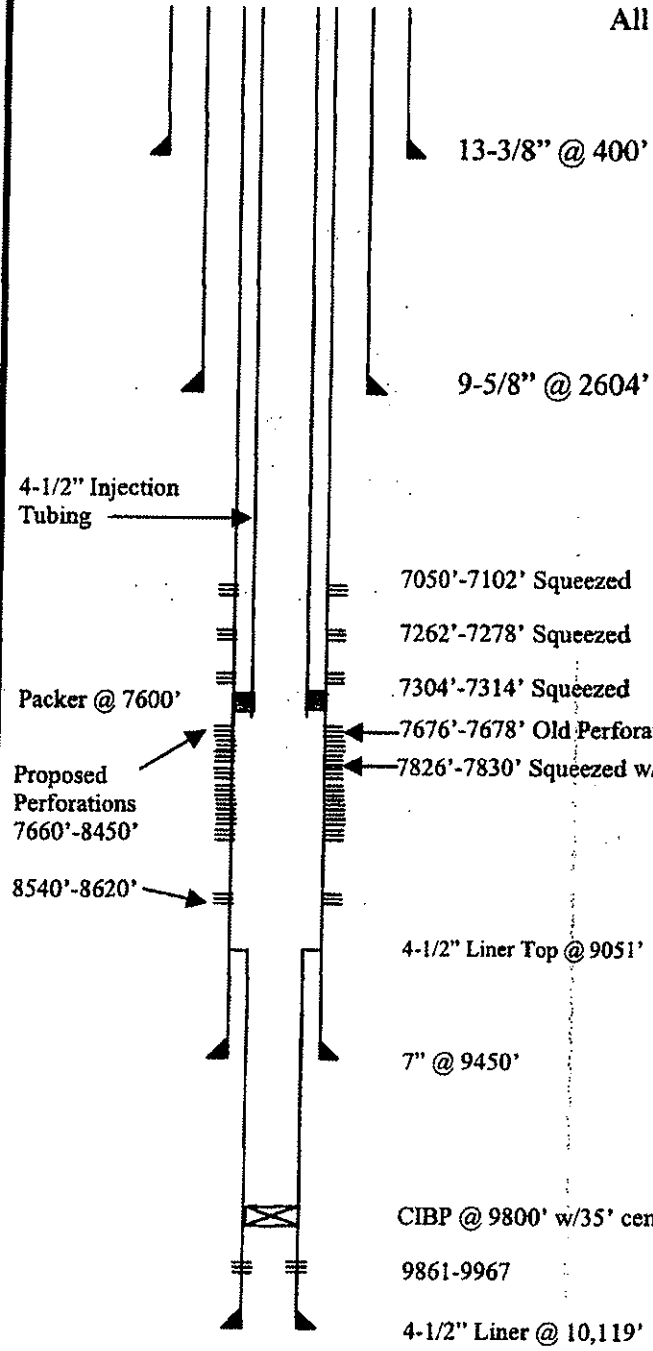
Manual Choke Manifold 2", 3000 psi working pressure

Source: API RP 53, Recommended Practices
for Blowout Prevention Equipment Systems

SUBSURFACE		HOUSTON, TX SOUTH BEND, IN BATON ROUGE, LA
Exhibit A Blowout Preventer Minimum Requirements		
DATED: 07/24/03	APPROVED BY:	JOB NO. 6825497
DRAWN BY: JDB	CHECKED BY:	SCALE: 1/4" = 1'-0"

Accepted for record - NMOCD

All depths are relative to kelly bushing



Not to Scale

SUBSURFACE		HOUSTON, TX SOUTH BEND, IN BATON ROUGE, LA
Navajo Refining Company Proposed WDW-3 orig. Chalk Bluff Federal Com 1		
DATED: 07/24/03	APPROVED BY:	JOB NO. 5045497
DRAWN BY: JOB	CHECKED BY:	SCALE: N/A

Accepted for record - NMOCD

SURFACE USE PLAN

NAVAJO REFINING COMPANY
PROPOSED WDW-3
790' FSL, 2250' FWL, 1-T 18S-R27E
EDDY COUNTY, NEW MEXICO

1. Existing Roads: Existing roads that lead to the proposed drillsite are shown on Exhibit A.
2. Access Roads To Be Constructed: No new access road is proposed.
3. Location of Existing Wells: Existing wells within one mile of proposed WDW-3 are shown on Exhibit B.
4. Location of Proposed Facilities If Well Is Completed: The well will be shut in after completion and testing.
5. Location and Type of Water Supply: Water for reentry, testing, and completion operations will be purchased from a commercial water hauler.
6. Source of Construction Materials: No construction materials will be required.
7. Methods of Handling Waste Disposal:
 - A. Drill cuttings will be disposed of in the drilling pits.
 - B. Drilling fluids will be allowed to evaporate in the drilling pits until the pits are dry.
 - C. Water produced during tests will be disposed of in the drilling pits.
 - D. Trash, waste paper, garbage, and junk will be buried in a trash pit and covered with a minimum of 24 inches of dirt. All waste material will be contained to prevent scattering by the wind.
 - E. All trash and debris will be buried or removed from the wellsite after finishing drilling and/or completion operations.

Accepted for record - NMOCD

8. Ancillary Facilities: None anticipated.
9. Wellsite Layout:
 - A. The existing well pad will be leveled to accommodate a workover rig, pump, tanks, and ancillary equipment.
 - B. Existing topsoil to a depth of 6 inches will be lifted and stockpiled at the uphill end of the well pad. The stockpiled topsoil will be located uphill to avoid mixing with subsurface materials.
 - C. The well pad will be surfaced with material found in place.
 - D. A small working pit will be constructed to hold drilling fluids and cuttings. The approximate dimensions of the pit will be 30 feet x 30 feet x 3 feet.
 - E. The working pit for drilling fluids and cuttings will be lined with 6-mil plastic.
10. Plans for Restoration of Surface:
 - A. After completion of drilling and/or completion operations, all equipment and other material not needed for operations will be removed. Pits will be filled and the location cleaned of all trash and junk.
 - B. Any unguarded pits containing fluids will be fenced until they are filled.
 - C. After abandonment, all equipment, trash, and junk will be removed and the location cleaned.
 - D. The stockpiled topsoil will be spread over the surface of the location.
11. Surface Ownership: U.S. Department of Interior, Bureau of Land Management.
12. Archaeological Survey: Navajo Refining Company is conducting an archeological survey. The report of the survey will be submitted by Navajo under separate cover.
13. Operator's Representatives: Representatives responsible for assuring compliance with the approved Surface Use Plan:

Accepted for record - NMOCD

Mr. Darrell Moore
Navajo Refining Company
Post Office Box 159
Artesia, New Mexico 88211
505/748-3311

Mr. Jim Bundy
Subsurface Technology, Inc.
7020 Portwest Drive, Suite 100
Houston, Texas 77024
713/880-4640

Exhibits

- A. Topographic Map
- B. Oil and Gas Map

14. Certification:

I hereby certify that I, or persons under my direct supervision, have inspected the proposed drillsite and access route; that I am familiar with the conditions that exist; that the statements made in this plan are, to the best of my knowledge, true and correct; and that the work associated with the operations proposed herein will be performed by Navajo Refining Company and its contractors and subcontractors in conformity with this plan and the terms and conditions under which it is approved.

Date

9/17/03

Signature

Darrell Moore

Name

Darrell Moore

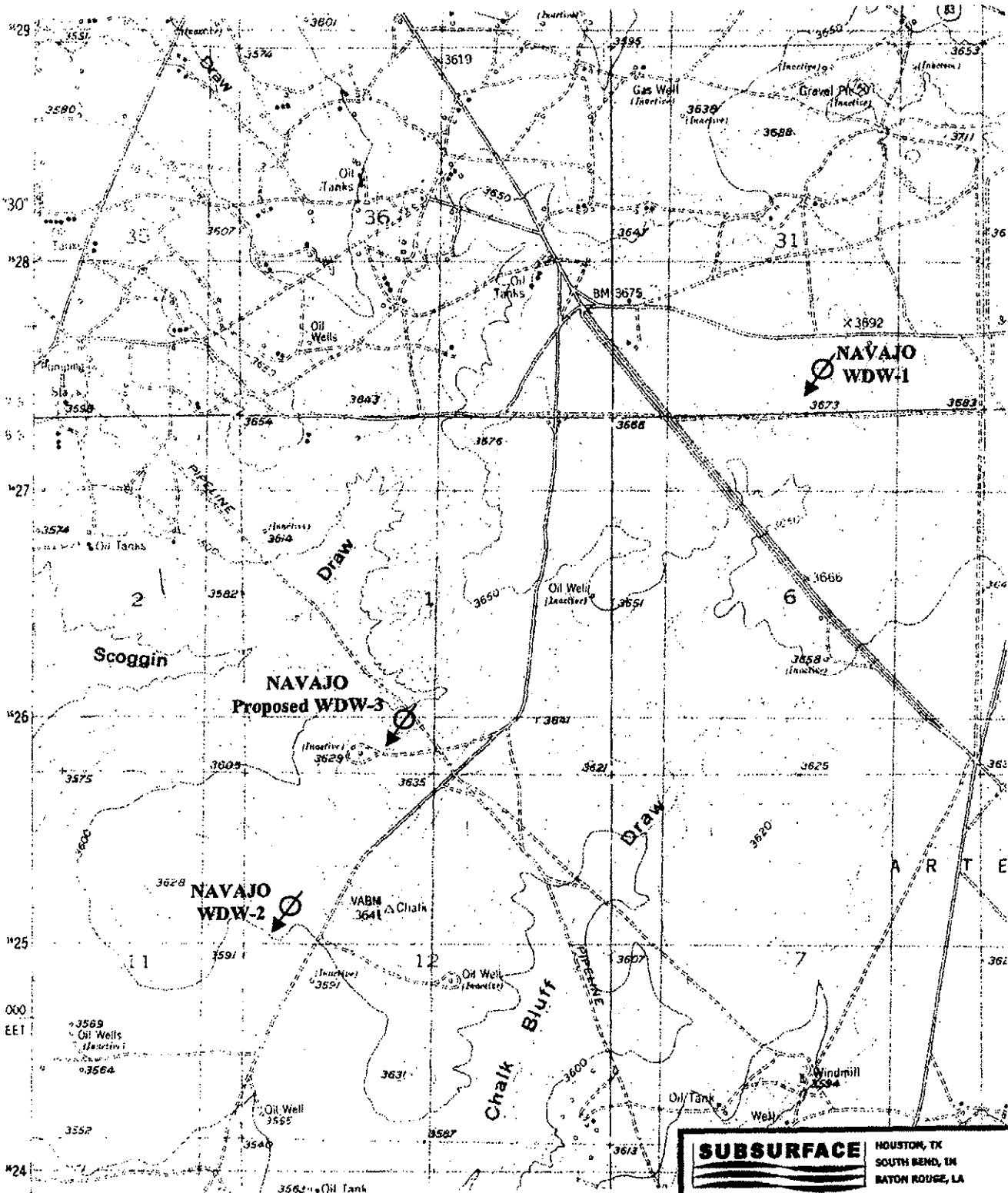
Title

Env. Mgr. for Water Waste

Navajo Refining Company

Company

Accepted for record - NMOCD



USGS Topographic Map
 Red Lake Quadrangle, Eddy County, NM

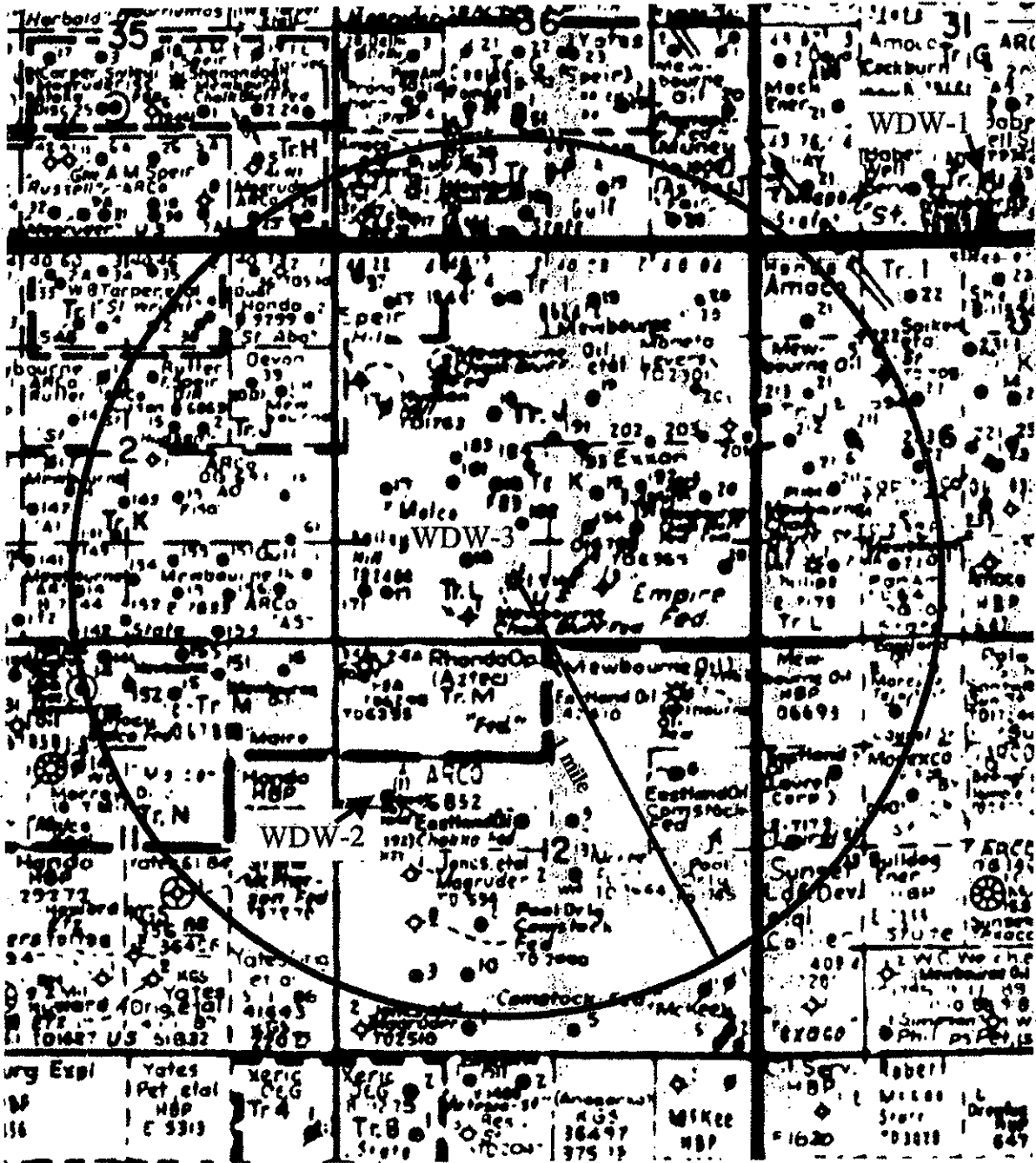
Section corners marked with +

Accepted for record - NMOCD

SUBSURFACE		HOUSTON, TX SOUTH BEND, IN BATON ROUGE, LA
EXHIBIT A		
NAVAJO REFINING COMPANY PROPOSED WDW-3 790' FSL, 2250' FWL 1-18S-27E		
DATE: 7/28/03	APPROVED BY: NLN	JOB NO: 6005497
DRAWN BY:	CHECKED BY:	SCALE: 1"=2000'

T17S - R27E

T17S - R28E



T18S - R27E
 EDDY COUNTY, NM

Accepted for record - NMOCD

Map courtesy of Midland Map Company

SUBSURFACE		HOUSTON, TX SOUTH BEND, IN BATON ROUGE, LA
EXHIBIT B WELLS WITHIN 1 MILE OF NAVAJO REFINING COMPANY PROPOSED WDW-3		
DATED: 7/28/03	APPROVED BY: NLN	JOB NO. 6005497
DRAWN BY:	CHECKED BY:	SCALE: N/A

**UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT**

OCD-ARTESIA

FORM APPROVED
OMB No. 1004-0137
Expires: March 31, 2007

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or to re-enter an abandoned well. Use Form 3160-3 (APD) for such proposals.

SUBMIT IN TRIPLICATE- Other instructions on reverse side.

1. Type of Well <input type="checkbox"/> Oil Well <input type="checkbox"/> Gas Well <input checked="" type="checkbox"/> Other		5. Lease Serial No. NM-0557371
2. Name of Operator NAVAJO REFINING COMPANY		6. If Indian, Allottee or Tribe Name
3a. Address P.O. BOX 159, ARTESIA, NM 8821	3b. Phone No. (include prefix) 505-746-5181	7. If Unit or CA/Agreement, Name and/or No.
4. Location of Well (Footage, Sec., T., R., M., or Survey Description) 790' FSL, 2250' FWL, 1-18S - 27E		8. Well Name and No. WDW-3
<p>RECEIVED</p> <p>JUL 17 2006</p> <p>OCD-ARTESIA</p>		9. API Well No. 30-015-26575
		10. Field and Pool, or Exploratory Area NAVAJO INJECTION; PERMO-PEN
		11. County or Parish, State EDDY, NM

12. CHECK APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION			
<input checked="" type="checkbox"/> Notice of Intent	<input type="checkbox"/> Acidize	<input type="checkbox"/> Deepen	<input type="checkbox"/> Production (Start/Resume)	<input type="checkbox"/> Water Shut-Off
<input type="checkbox"/> Subsequent Report	<input type="checkbox"/> Alter Casing	<input type="checkbox"/> Fracture Treat	<input type="checkbox"/> Reclamation	<input type="checkbox"/> Well Integrity
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Casing Repair	<input type="checkbox"/> New Construction	<input type="checkbox"/> Recomplete	<input checked="" type="checkbox"/> Other RECOMPLETE AS CLASS 1
	<input type="checkbox"/> Change Plans	<input type="checkbox"/> Plug and Abandon	<input type="checkbox"/> Temporarily Abandon	INJECTION WELL
	<input type="checkbox"/> Convert to Injection	<input type="checkbox"/> Plug Back	<input checked="" type="checkbox"/> Water Disposal	

13. Describe Proposed or Completed Operation (clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recomplete horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports must be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompletion in a new interval, a Form 3160-4 must be filed once testing has been completed. Final Abandonment Notices must be filed only after all requirements, including reclamation, have been completed, and the operator has determined that the site is ready for final inspection.)

**ORIGINAL WELL NAME WAS CHALK BLUFF FEDERAL COM. NO. 1
WELL WILL BE PLUGGED BACK AND COMPLETED AS A CLASS 1 INJECTION WELL AS FOLLOWS:**

**DRILL OUT BRIDGE PLUG AT 7010' AND CLEAN OUT TO 7208';
INJECTION-TEST PERFORATIONS AT 7050'-7102', 7262'-7278' TO PLAN SQUEEZE CEMENT JOB;
DRILL OUT BRIDGE PLUGS AT 7208' AND 7294'. CLEAN OUT HOLE THROUGH PERFS AT 7304'-7314';
SQUEEZE-CEMENT PERFORATIONS AT 7050'-7102', 7262'-7278', AND 7304'-7314';
DRILL OUT BRIDGE PLUG AT 7600' AND CLEAN OUT TO TOP OF LINER AT 9051';
RUN CBL/VDL AND CALIFER FROM 9051' TO SURFACE;
PERFORATE 8540'-8620' AND 7660'-8450';
RUN INJECTIVITY TEST, AND ACIDIZE IF NECESSARY;
RUN INJECTION/FALLOFF TEST;
RUN DIFFERENTIAL TEMPERATURE SURVEY;
RUN RADIOACTIVE TRACER SURVEY;
INSTALL INJECTION TUBING AND PACKER TO APPROX. 7600'; AND
INSTALL WELL ANNULUS MONITORING EQUIPMENT, AND PREPARE FOR WELL INJECTION.**

ACCEPTED FOR RECORD

JUL 12 2006

LES BABYAK
PETROLEUM ENGINEER

14. I hereby certify that the foregoing is true and correct

Name (Printed/Typed) DARRELL MOORE	Title ENVIRONMENTAL MANAGER FOR WATER & WASTE
Signature <i>Darrell Moore</i>	Date 6/29/06

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved by Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.	Title <i>Accepted for record</i> NMOCD/s
	Office

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

(Instructions on page 2)

Navajo-Artesia WDW #3 EPA Annulus MIT and Tracer Test [API# 30-015-26575]
(Carl Chavez & Leonard Lowe- OCD)
November 15, 2006

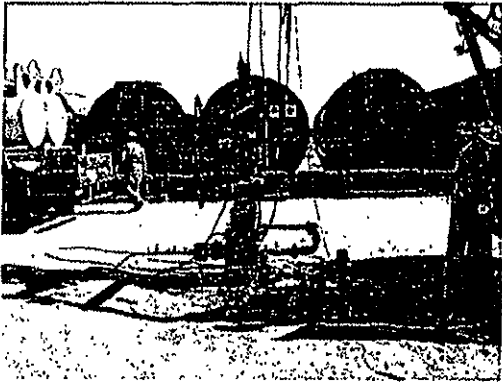


Image 1: Facing west. Christmas Tree with 500-barrel tanks in background. Far left tank was the only tank providing salt water. Truck on left is the pump truck pumping brine water only. Right truck is the rig truck (Wood Group Logging Service).

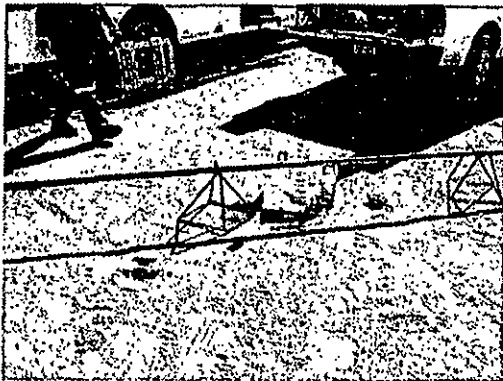


Image 2: Radioactive tool set up. Tracer, Iodine 131 (half-life ~ 8 days).



Image 3: Rig truck with view of data logger compartment (Wood Group Logging Services).

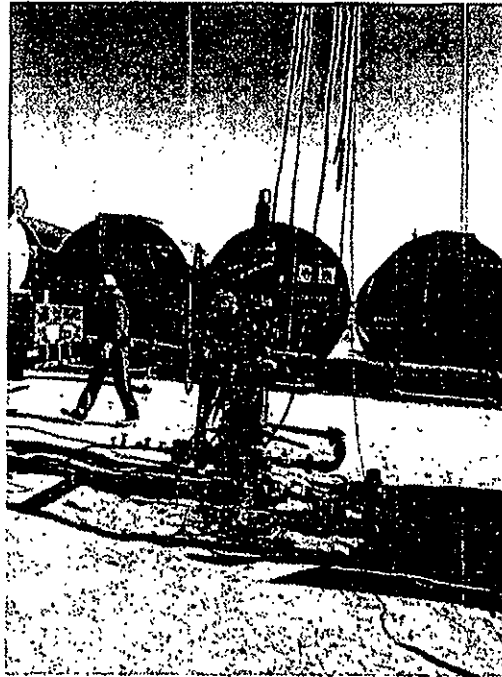


Image 4: Petroplex workers prepping wellhead for wire line tool entry.

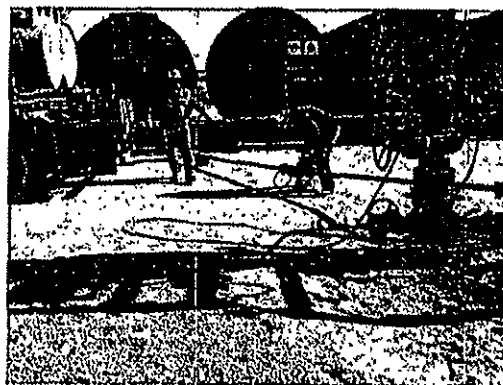


Image 5: Petroplex employees laying pipe from pump truck to well head.

Navajo-Artesia WDW #3 EPA Annulus MIT and Tracer Test [API# 30-015-26575]
(Carl Chavez & Leonard Lowe- OCD)
November 15, 2006

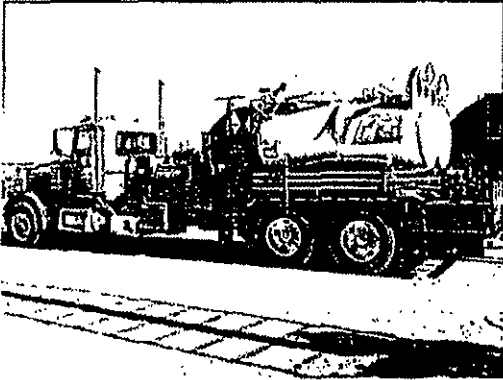


Image 6: Pump truck, Petroplex, for Brine water pumping only. No HCL used throughout process.

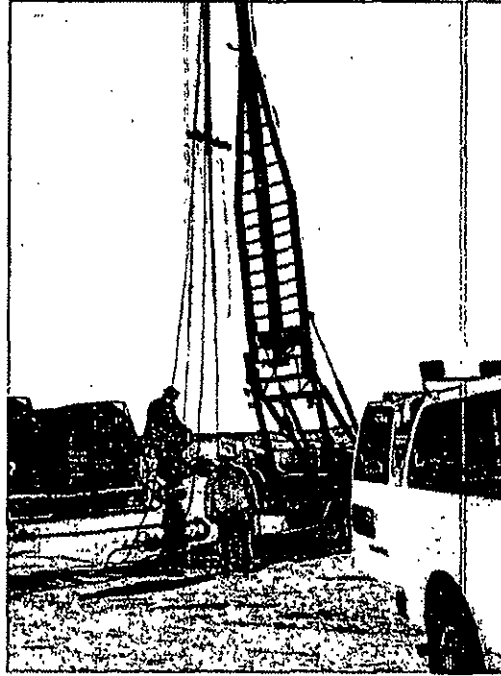


Image 8: Wood Group employee securing wellhead for tool entry.

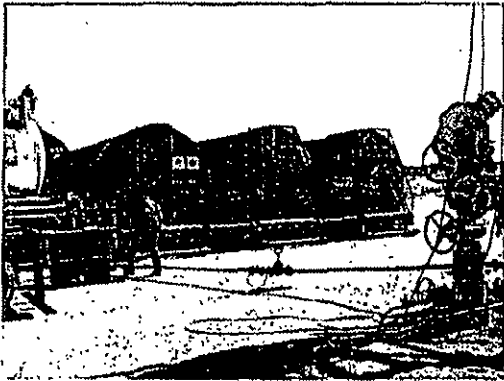


Image 7: Securing of the wire line to the wellhead.

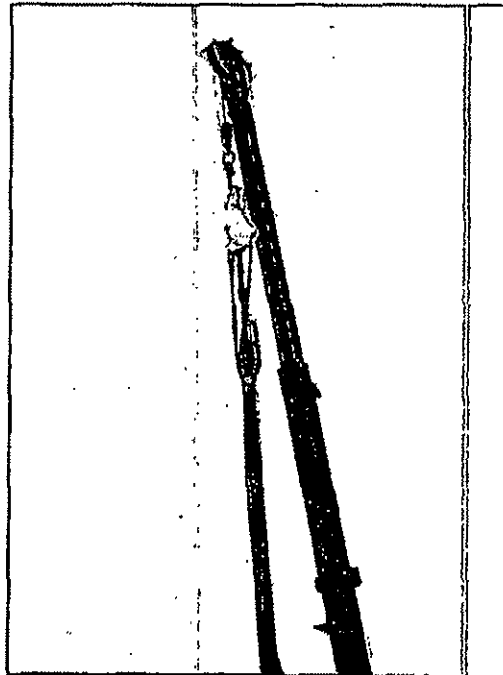


Image 9: Configuration at the top end of the boom.

Navajo-Artesia WDW #3 EPA Annulus MIT and Tracer Test [API# 30-015-26575]
(Carl Chavez & Leonard Lowe- OCD)
November 15, 2006

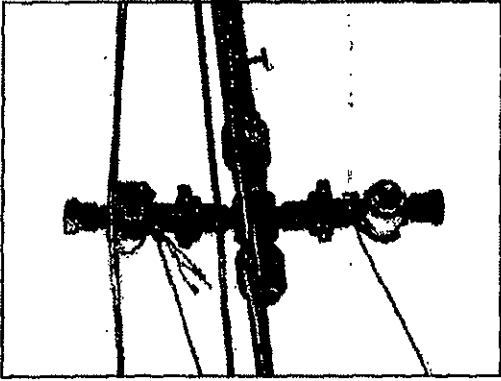


Image 10:

Image 12:

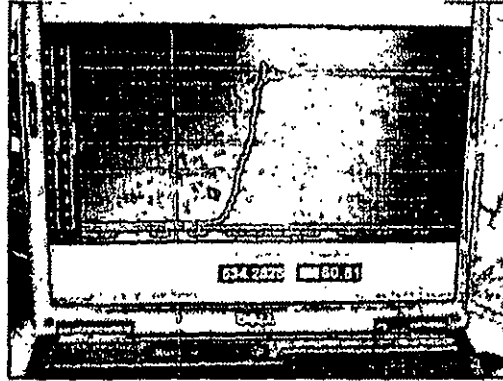


Image 13:

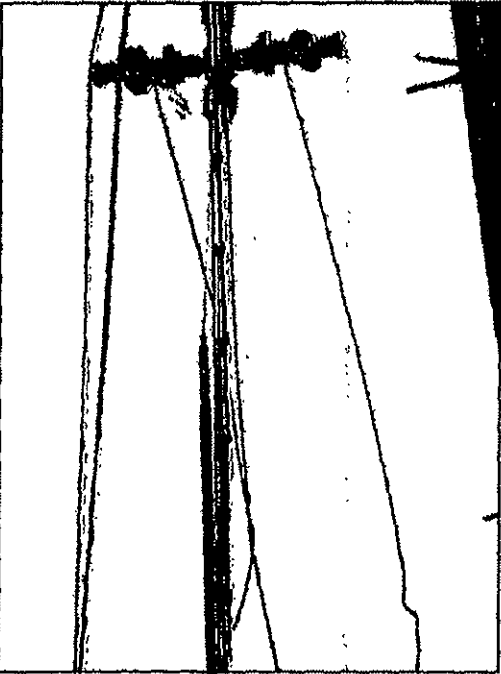


Image 11:

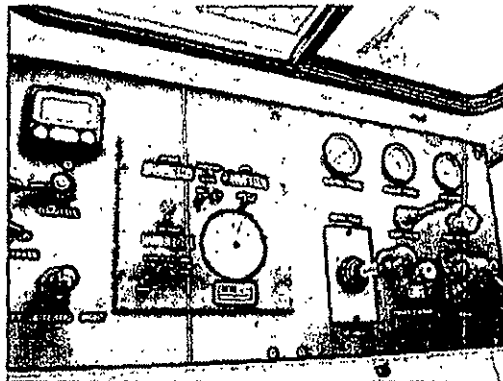


Image 14:

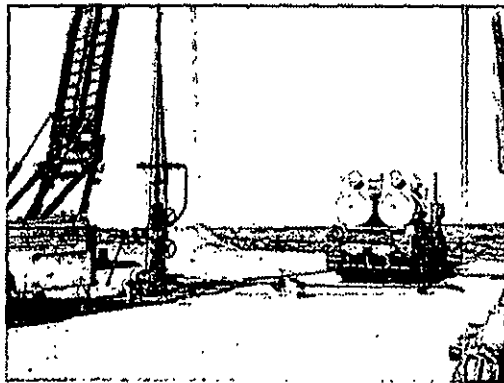
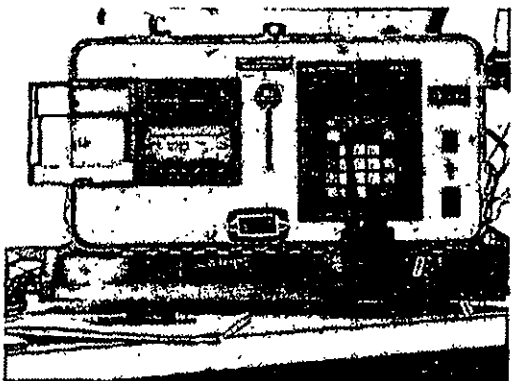


Image 15:

Navajo-Artesia WDW #3 EPA Annulus MIT and Tracer Test [API# 30-015-26575]
(Carl Chavez & Leonard Lowe- OCD)
November 15, 2006

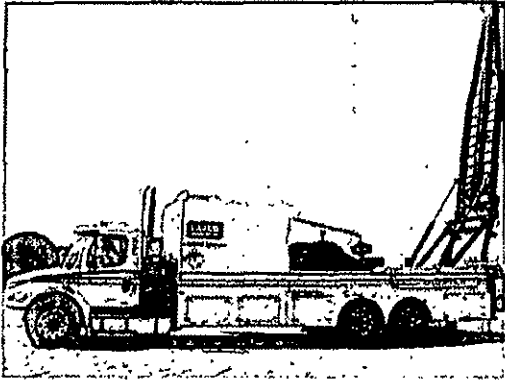


Image 16:



Image 19:

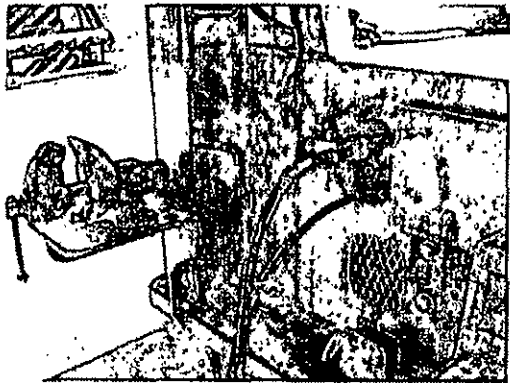


Image 17:

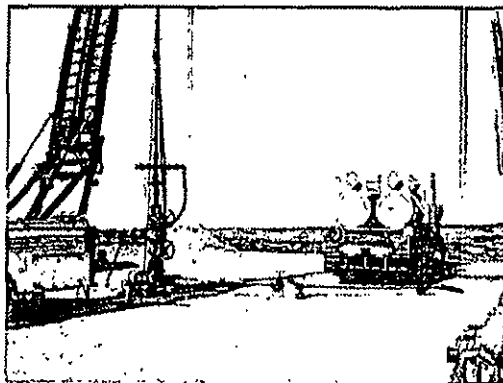


Image 20:

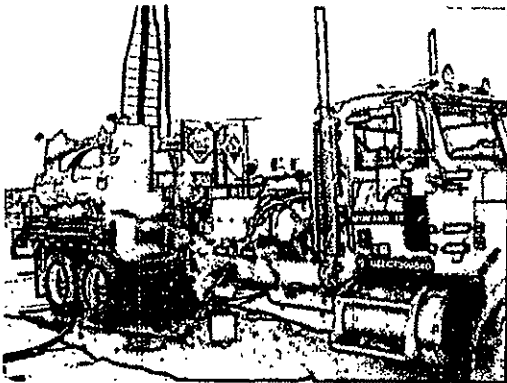
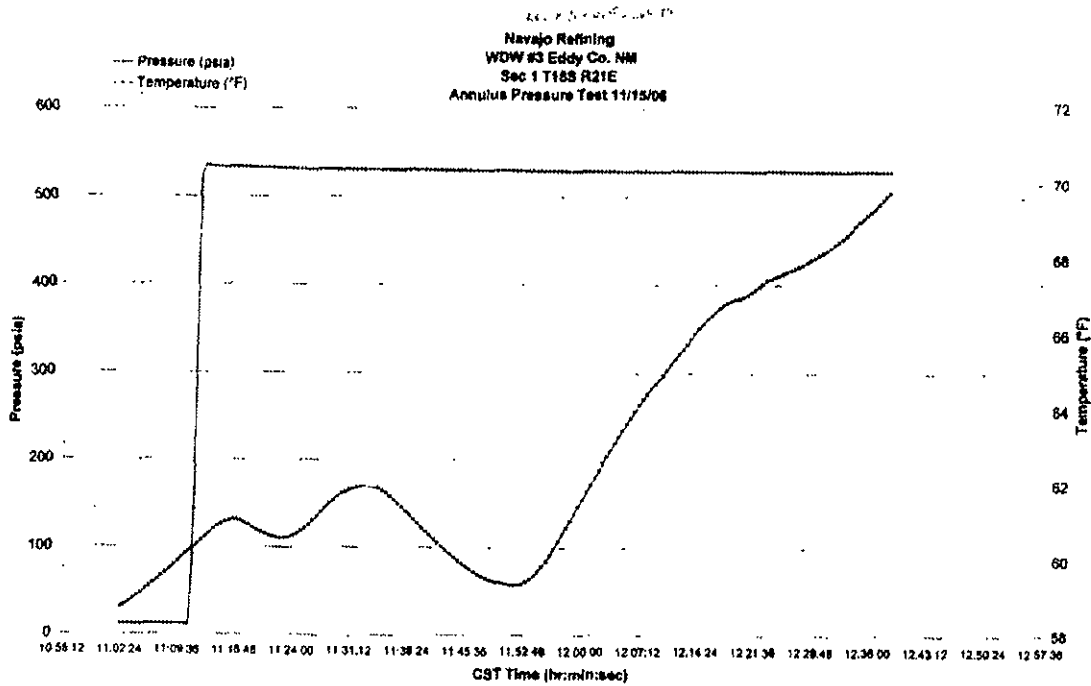
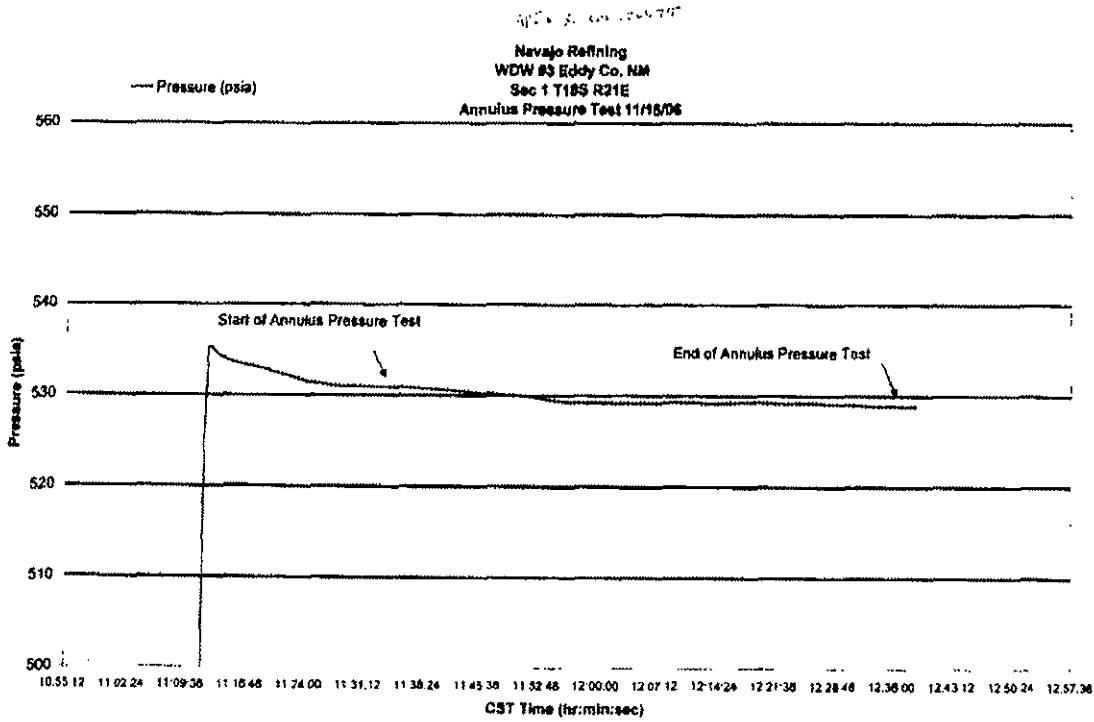


Image 18:



Image 21:

Navajo-Artesia WDW #3 EPA Annulus MIT and Tracer Test [API# 30-015-26575]
 (Carl Chavez & Leonard Lowe- OCD)
 November 15, 2006



District I
1625 N. French Dr., Hobbs, NM 88240
District II
1301 W. Grand Avenue, Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy Minerals and Natural Resources

Form C-101
May 27, 2004

Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

Submit to appropriate District Office
 AMENDED REPORT

APPLICATION FOR PERMIT TO DRILL, RE-ENTER, DEEPEN, PLUGBACK, OR ADD A ZONE

Operator Name and Address NAVAJO REFINING COMPANY		OGRID Number 30-015-26575
Property Code	Property Name WDW	Well No. 3
Proposed Pool 1 NAVAJO INJECTION; PERMO-PENN		Proposed Pool 2

Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
	1	18S	27E		2250 FWL		750 FSL		EDDY

Proposed Bottom Hole Location if Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County

Additional Well Information

¹¹ Work Type Code E	¹² Well Type Code I	¹³ Cable/Rotary R	¹⁴ Lease Type Code	¹⁵ Ground Level Elevation 3609
¹⁶ Multiple NO	¹⁷ Proposed Depth 9051'	¹⁸ Formation CANYON	¹⁹ Contractor	²⁰ Spud Date
Depth to Groundwater UNKNOWN		Distance from nearest fresh water well 1.25 ML TO 18.28 7.330		Distance from nearest surface water 10 MILES
Pit: Liner: Synthetic <input type="checkbox"/> _____ mils thick Clay <input type="checkbox"/>		Pit Volume: _____ bbb		Drilling Method: Fresh Water <input type="checkbox"/> Brine <input checked="" type="checkbox"/> Diesel/Oil-based <input type="checkbox"/> Gas/Air <input type="checkbox"/>
Closed-Loop System <input type="checkbox"/>				

Proposed Casing and Cement Program

Hole Size	Casing Size	Casing weight/foot	Setting Depth	Sacks of Cement	Estimated TOC
17-1/2"	13 3/8"	54.50#	400'	425 - CIRC	
12-1/4"	9 5/8"	36#	2604'	1025 - CIRC	
8-3/4"	7"	26# and 29#	9450'	1350 - CIRC	

²² Describe the proposed program. If this application is to DEEPEN or PLUG BACK, give the data on the present productive zone and proposed new productive zone. Describe the blowout prevention program, if any. Use additional sheets if necessary.
ORIGINAL WELL NAME WAS CHALK BLUFF FEDERAL COM. NO. 1
WELL WILL BE PLUGGED BACK AND COMPLETED AS A CLASS I INJECTION WELL AS FOLLOWS:
DRILL OUT BRIDGE PLUG AT 7010' AND CLEAN OUT TO 7208';
INJECTION-TEST PERFORATIONS AT 7050'-7102'; 7262'-7278' TO PLAN SQUEEZE CEMENT JOB;
DRILL OUT BRIDGE PLUGS AT 7208' AND 7294'. CLEAN OUT HOLE THROUGH PERFS AT 7304'-7314';
SQUEEZE-CEMENT PERFORATIONS AT 7050'-7102'; 7262'-7278'; AND 7304'-7314';
DRILL OUT BRIDGE PLUG AT 7600' AND CLEAN OUT TO TOP OF LINER AT 9051';
RUN CBL/VDL AND CALIPER FROM 9051' TO SURFACE;
PERFORATE 8540'-8620' AND 7660'-8450';
RUN INJECTIVITY TEST, AND ACIDIZE IF NECESSARY;
RUN INJECTION/FALLOFF TEST;
RUN DIFFERENTIAL TEMPERATURE SURVEY;
RUN RADIOACTIVE TRACER SURVEY;
INSTALL INJECTION TUBING AND PACKER TO APPROX. 7600'; AND
INSTALL WELL ANNULUS MONITORING EQUIPMENT, AND PREPARE FOR WELL INJECTION.

²³ I hereby certify that the information given above is true and complete to the best of my knowledge and belief. I further certify that the drilling pit will be constructed according to NMOCD guidelines , a general permit , or an (attached) alternative OCD-approved plan .

OIL CONSERVATION DIVISION

Approved by: *Wayne Price*

Printed name: *Darrell Moore*

Title:

Title: *Env. Mgr. for Water & Waste*

Approval Date: *8/11/06*

Expiration Date: *8/11/07*

E-mail Address: *darrell.moore@navajo-refining.com*

Date: *6/29/06*

Phone: *505-746-5201*

Conditions of Approval Attached

DISTRICT OFFICE MUST APPROVE CASING PROGRAM.

District I
1625 N. French Dr., Hobbs, NM 88240
District II
1301 W. Grand Avenue, Artesia, NM 88210
District III
Rio Brazos Rd., Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy, Minerals & Natural Resources Department
OIL CONSERVATION DIVISION
1220 South St. Francis Dr.
Santa Fe, NM 87505

Form C-102
Revised June 10, 2003
Submit to Appropriate District Office
State Lease - 4 Copies
Fee Lease - 3 Copies

AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

1 APT Number 30 - 015 -26575		2 Pool Code		3 Pool Name Navajo Injection; Permo-Penn	
4 Property Code		5 Property Name WDW			6 Well Number 3
7 OGRID No.		8 Operator Name Navajo Refining Company			9 Elevation 3609' GL; 3625' KB

10 Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
N	1	18S	27E		790	South	2250	West	Eddy

11 Bottom Hole Location if Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County

12 Dedicated Acres	13 Joint or Infill	14 Consolidation Code	15 Order No.
--------------------	--------------------	-----------------------	--------------

NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION

	<p>17 OPERATOR CERTIFICATION</p> <p>I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief.</p> <p>Signature: <i>Darrell Moore</i></p> <p>Printed Name: Darrell Moore</p> <p>Title and E-mail Address: Env. Mgr. for Water Waste darrell@navajo-refining.com</p> <p>Date: 9/17/03</p>	
	<p>18 SURVEYOR CERTIFICATION</p> <p>I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief.</p> <p>Date of Survey</p> <p>Signature and Seal of Professional Surveyor:</p>	
	<p>Certificate Number</p>	

REENTRY PROCEDURE

NAVAJO REFINING COMPANY'S WDW-3 (PROPOSED)

790' FSL and 2250' FWL, Section 1, T18S, R27E
Eddy County, New Mexico
Chalk Bluff Federal Com. No. 1, API No. 30-015-26575

All depths are in feet below well's original kelly bushing height (RKB) of 16 feet above ground level. The original KB elevation is 3625 feet above mean sea level. The ground level elevation is 3609 feet above mean sea level.

Tops of Geologic Formations (from RKB)

The base of the lowermost USDW is at 420 feet.

San Andres	1976 feet	Lower Wolfcamp	7303 feet
Yeso	4030 feet	Cisco	7650 feet
Abo	5380 feet	Canyon	8390 feet
Wolfcamp	6745 feet	Strawn	8894 feet

Depth of Plugs

7010 feet in 7-inch casing above perforations 7050 feet to 7102 feet

7208 feet in 7-inch casing above perforations 7262 feet to 7278 feet

7294 feet in 7-inch casing above perforations 7304 feet to 7314 feet

7600 feet in 7-inch casing above perforations 7676 feet to 7678 and
7826 feet to 7830 feet

9800 feet in 4-1/2-inch liner above perforations 9861 feet to 9967 feet

Anticipated Formation Pressure

The expected bottom-hole pressure is 3448 pounds per square inch absolute (psia) at 9000 feet, for a gradient of 0.383 pounds per square inch (psi) per foot, or an equivalent


mud weight of 7.36 pounds per gallon (ppg). The bottom-hole pressure was determined from the pressure measured in Navajo's WDW-2, or 2813 psia, at 7570 feet. Navajo's WDW-2 is completed in the same interval proposed for WDW-3 and is located in 12-T18S-R27E, 3200 feet southwest of proposed WDW-3. The average specific gravity of the fluid in the Cisco and Canyon Formations is expected to be 1.025, which is the specific gravity of the fluid swabbed from WDW-2 in June 1999 from the interval between 7826 feet and 8399 feet. The expected bottom-hole pressure at 9000 feet in proposed WDW-3 is calculated below:

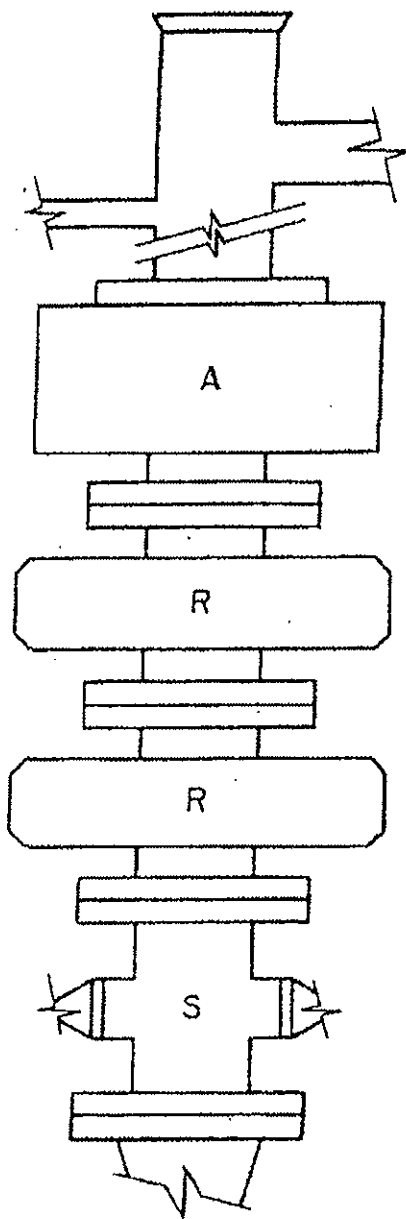
$$\begin{aligned} \text{BHP (9000 feet)} &= 2813 \text{ psia} + (9000 \text{ feet} - 7570 \text{ feet}) \times 0.433 \text{ psi/ft} \times 1.025 \\ &= 3448 \text{ psia} \end{aligned}$$

Reentry Procedure

1. Level location to accommodate a workover rig, pump, tanks, and ancillary equipment. Build a small working pit approximately 30 feet square and 3 feet deep with a plastic lining. Move in the rig, tank, shale shaker, and work string.
2. Install a 7-1/16-inch, 3000-psi double hydraulic blowout preventer (BOP) and a 7-1/16-inch, 3000-psi annular BOP (see Exhibit A for schematic). Pressure test the BOP stack and casing to 1500 psi for 30 minutes. Pick up a 6-1/8-inch bit, and sufficient 4-3/4-inch drill collars to drill out the cement plugs, on a 2-7/8-inch work string. Mix a tank of 8.5-ppg sodium chloride brine water for circulating fluid.
3. Run the bit to 7000 feet and circulate the wellbore fluid out of the casing into a frac tank for disposal. Drill out the cast iron bridge plug (CIBP), cement at 7010 feet, and clean out to the CIBP at 7208 feet. Circulate the hole clean and pump into the perforations from 7050 feet to 7102 feet to establish a rate and pressure for a pending squeeze cement job.
4. Drill out the CIBP at 7208 feet and clean out past the perforations from 7262 feet to 7278 feet and drill out the third CIBP at 7294 feet. Clean out below the perforations from 7304 feet to 7314 feet. Run a second injection test for injection rate and pressure comparison.

5. Pull the bit and run a retrievable squeeze packer on the work string. Set the packer at 7150 feet and test for communication between the perforations. Squeeze the perforations from 7262 feet to 7278 feet and 7304 feet to 7314 feet with approximately 100 sacks of neat cement (actual squeeze cement volume to be determined by the injection rate established previously), attempting to reach 1500 psi to 2000 psi squeeze pressure. Release the packer and reverse out any excess cement, then re-test the perforations to the squeeze pressure.
6. Re-set the packer at 6900 feet and squeeze the perforations from 7050 feet to 7102 feet as before.
7. Lay down the squeeze packer and drill out the cement to the CIBP at 7600 feet. Conduct a pressure test to 500 psi for 12 hours to confirm the squeeze cement will contain the annular fluid pressure required during injection operations.
8. Drill out the CIBP at 7600 feet and circulate to the top of the liner at 9051 feet. Circulate the casing clean with 8.5-ppg brine water. Pull the bit and lay down the drill collars.
9. Run a cement bond log with variable density (CBL/VDL) from the liner top to the surface, followed by a baseline multi-finger caliper log from the liner top to the surface.
10. Perforate the intervals 8540 feet to 8620 feet and 7660 feet to 8450 feet with 2 JSPF, using hollow steel carrier perforating guns.
11. Run the work string and retrievable packer to 7600 feet. Swab, or backflow, the perforated interval to recover a representative sample of the formation water for laboratory analysis. Monitor the recovered fluid for hydrogen sulfide.
12. Conduct a short injectivity test with 8.5-ppg brine water to determine the need for stimulation. If required, stimulate the perforations with acid (type and amount to be determined from injectivity results), followed by 500 barrels of 8.5-ppg brine water.

- 
13. Pull the work string and lay it down. Run a surface readout pressure gauge, with memory backup, to 7600 feet. Conduct an injection test down the casing at 420 gallons per minute for 12 hours (7200 barrels). Shut the well in and record the pressure falloff for a minimum of 12 hours.
 14. Pull the gauges and run a differential temperature survey from surface to 9100 feet. Run a radioactive tracer survey to demonstrate mechanical integrity.
 15. Run a tubing conveyed injection packer on 4-1/2-inch, 11.60 lb/ft, K-55, LT&C, 8rd injection tubing. Set the packer at approximately 7600 feet. Fill the annular space with 8.5-ppg brine water containing oxygen scavenger and corrosion inhibitor. Land the injection tubing in the wellhead and install the upper section.
 16. Pressure test the annulus as required by New Mexico regulations.
 17. Install well annulus monitoring equipment and prepare the well for injection.



A = ANNULAR BLOWOUT PREVENTER
7-1/16", 3000 psi working pressure

R = RAM TYPE BLOWOUT PREVENTER
7-1/16", 3000 psi working pressure

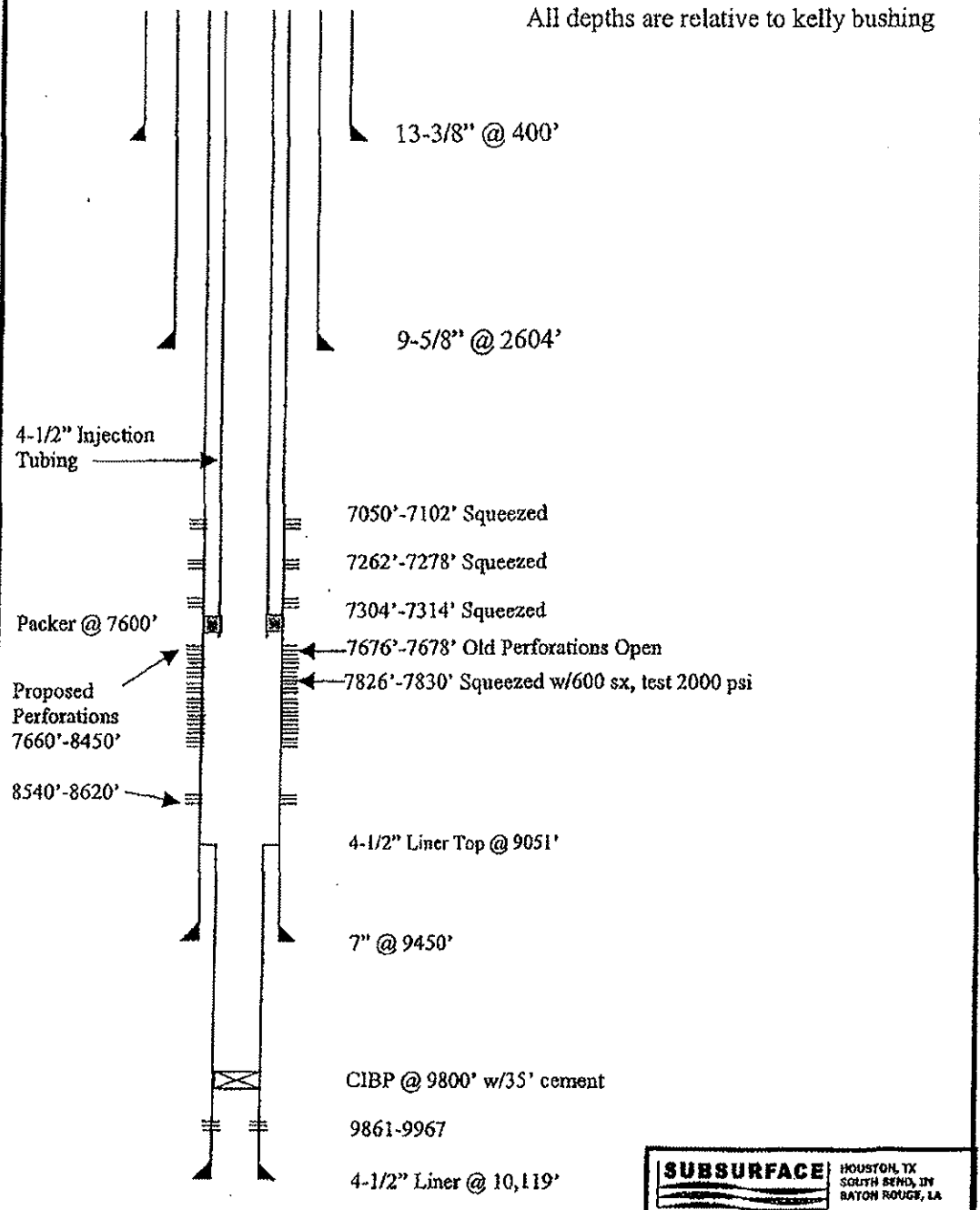
S = DRILLING SPOOL WITH SIDE OUTLETS
7-1/16", 3000 psi working pressure

Manual Choke Manifold 2", 3000 psi working pressure

Source: API RP 53, Recommended Practices
for Blowout Prevention Equipment Systems

SUBSURFACE		HOUSTON, TX SOUTH BEND, IN BATON ROUGE, LA
Exhibit A Blowout Preventer Minimum Requirements		
DATED: 07/24/03	APPROVED BY:	JOB NO. 6835487
DRAWN BY: JDB	CHECKED BY:	SCALE: N/A

All depths are relative to kelly bushing



Not to Scale

SUBSURFACE		HOUSTON, TX SOUTH BEND, IN BATON ROUGE, LA
Navajo Refining Company Proposed WDW-3 orig. Chalk Bluff Federal Com 1		
DATED: 07/24/03	APPROVED BY:	JOB NO. 6048497
DRAWN BY: JDB	CHECKED BY:	SCALE: N/A

SURFACE USE PLAN

NAVAJO REFINING COMPANY
PROPOSED WDW-3
790' FSL, 2250' FWL, 1-T 18S-R27E
EDDY COUNTY, NEW MEXICO

1. Existing Roads: Existing roads that lead to the proposed drillsite are shown on Exhibit A.
2. Access Roads To Be Constructed: No new access road is proposed.
3. Location of Existing Wells: Existing wells within one mile of proposed WDW-3 are shown on Exhibit B.
4. Location of Proposed Facilities If Well Is Completed: The well will be shut in after completion and testing.
5. Location and Type of Water Supply: Water for reentry, testing, and completion operations will be purchased from a commercial water hauler.
6. Source of Construction Materials: No construction materials will be required.
7. Methods of Handling Waste Disposal:
 - A. Drill cuttings will be disposed of in the drilling pits.
 - B. Drilling fluids will be allowed to evaporate in the drilling pits until the pits are dry.
 - C. Water produced during tests will be disposed of in the drilling pits.
 - D. Trash, waste paper, garbage, and junk will be buried in a trash pit and covered with a minimum of 24 inches of dirt. All waste material will be contained to prevent scattering by the wind.
 - E. All trash and debris will be buried or removed from the wellsite after finishing drilling and/or completion operations.

8. Ancillary Facilities: None anticipated.
9. Wellsite Layout:
- A. The existing well pad will be leveled to accommodate a workover rig, pump, tanks, and ancillary equipment.
 - B. Existing topsoil to a depth of 6 inches will be lifted and stockpiled at the uphill end of the well pad. The stockpiled topsoil will be located uphill to avoid mixing with subsurface materials.
 - C. The well pad will be surfaced with material found in place.
 - D. A small working pit will be constructed to hold drilling fluids and cuttings. The approximate dimensions of the pit will be 30 feet x 30 feet x 3 feet.
 - E. The working pit for drilling fluids and cuttings will be lined with 6-mil plastic.
10. Plans for Restoration of Surface:
- A. After completion of drilling and/or completion operations, all equipment and other material not needed for operations will be removed. Pits will be filled and the location cleaned of all trash and junk.
 - B. Any unguarded pits containing fluids will be fenced until they are filled.
 - C. After abandonment, all equipment, trash, and junk will be removed and the location cleaned.
 - D. The stockpiled topsoil will be spread over the surface of the location.
11. Surface Ownership: U.S. Department of Interior, Bureau of Land Management.
12. Archaeological Survey: Navajo Refining Company is conducting an archeological survey. The report of the survey will be submitted by Navajo under separate cover.
13. Operator's Representatives: Representatives responsible for assuring compliance with the approved Surface Use Plan:

Mr. Darrell Moore
Navajo Refining Company
Post Office Box 159
Artesia, New Mexico 88211
505/748-3311

Mr. Jim Bundy
Subsurface Technology, Inc.
7020 Portwest Drive, Suite 100
Houston, Texas 77024
713/880-4640

Exhibits

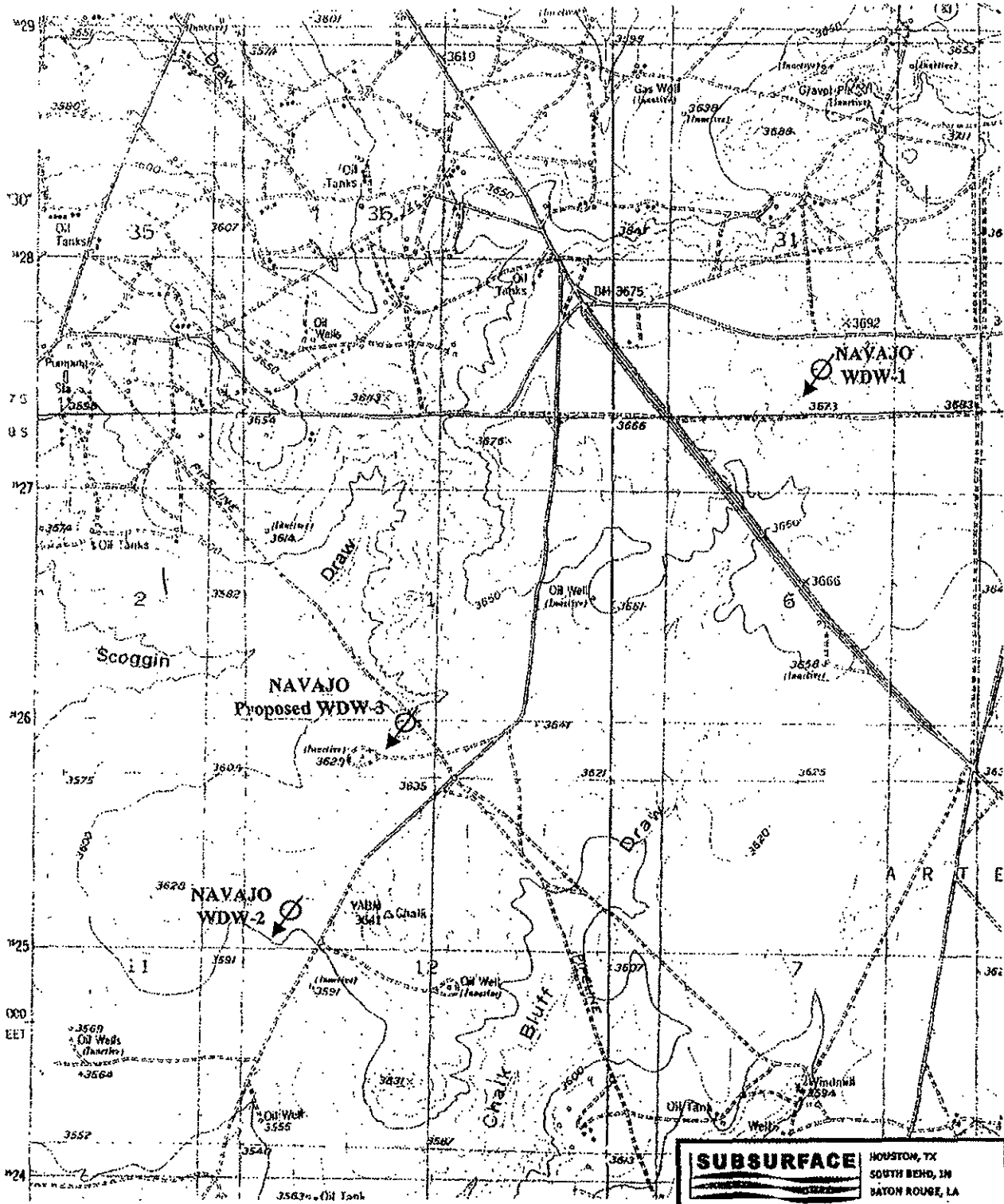
- A. Topographic Map
- B. Oil and Gas Map

14. Certification:

I hereby certify that I, or persons under my direct supervision, have inspected the proposed drillsite and access route; that I am familiar with the conditions that exist; that the statements made in this plan are, to the best of my knowledge, true and correct; and that the work associated with the operations proposed herein will be performed by Navajo Refining Company and its contractors and subcontractors in conformity with this plan and the terms and conditions under which it is approved.

9/17/03
Date

Darrell Moore
Signature
Darrell Moore
Name
Env. Mgr. for Water-Waste
Title
Navajo Refining Company
Company

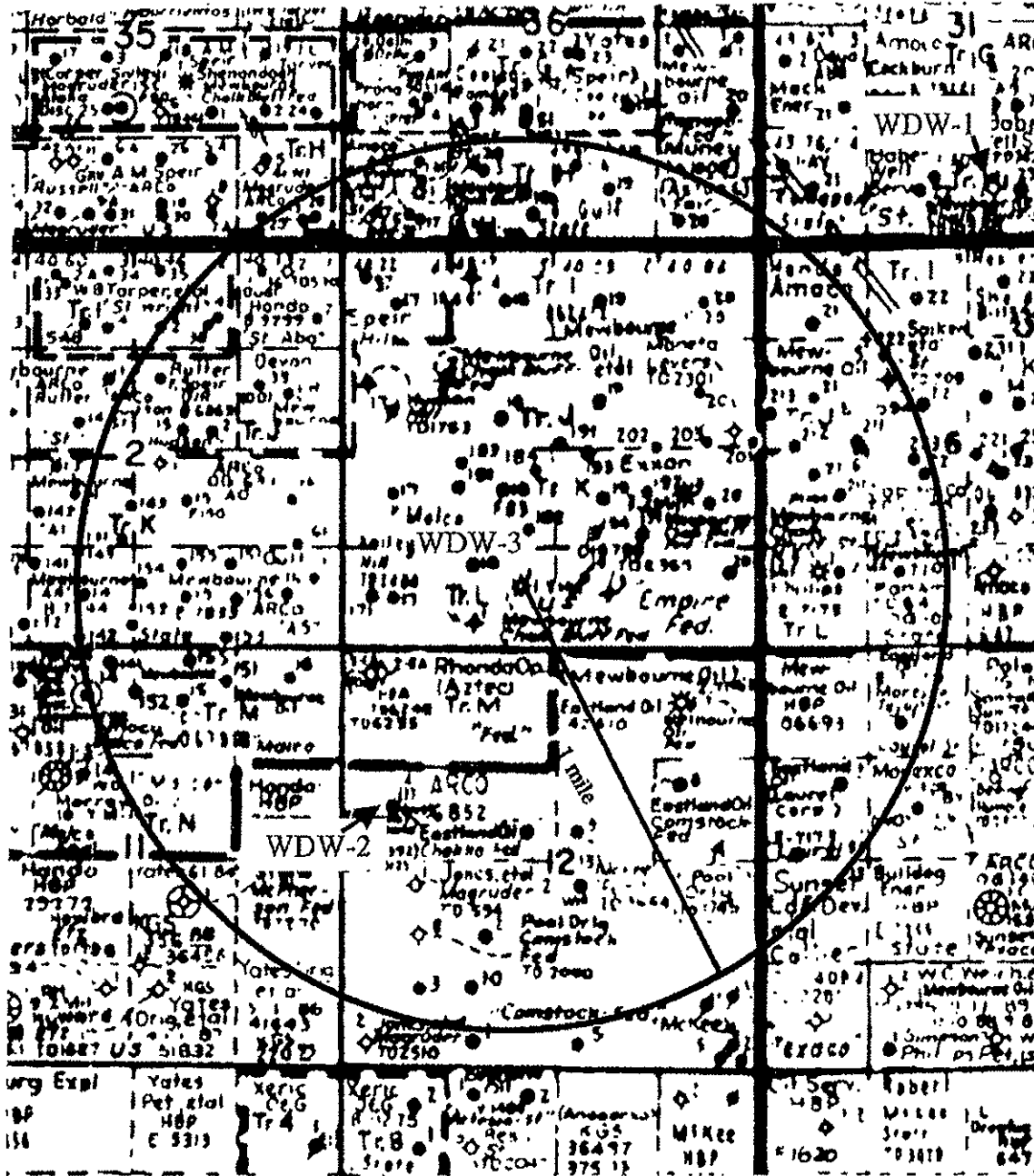


USGS Topographic Map
Red Lake Quadrangle, Eddy County, NM

Section corners marked with +

T17S - R27E

T17S - R28E



T18S - R27E
EDDY COUNTY, NM

SUBSURFACE		HOUSTON, TX
		SOUTH BEND, IN
		BATON ROUGE, LA
EXHIBIT B		
WELLS WITHIN 1 MILE OF NAVAJO REFINING COMPANY PROPOSED WDW-3		
DATE: 7/28/03	APPROVED BY: HLN	JOB NO. 6905497
DRAWN BY:	CHECKED BY:	SCALE: N/A

Map courtesy of Midland Map Company

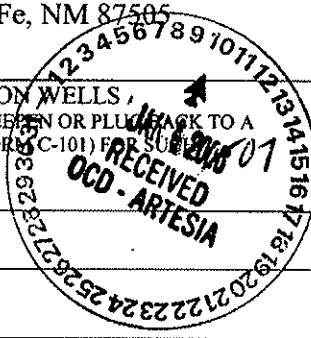
Submit 3 Copies To Appropriate District Office
 District I
 1625 N. French Dr., Hobbs, NM 88240
 District II
 1301 W. Grand Ave., Artesia, NM 88210
 District III
 1000 Rio Brazos Rd., Aztec, NM 87410
 District IV
 1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
 Energy, Minerals and Natural Resources

Form C-103
 May 27, 2004

OIL CONSERVATION DIVISION
 1220 South St. Francis Dr.
 Santa Fe, NM 87505

WELL API NO. 30 - 015 - 26575
5. Indicate Type of Lease STATE <input checked="" type="checkbox"/> FEE <input type="checkbox"/>
6. State Oil & Gas Lease No. NM-0557371
7. Lease Name or Unit Agreement Name WDW - 3
8. Well Number 3
9. OGRID Number
10. Pool name or Wildcat



SUNDRY NOTICES AND REPORTS ON WELLS,
 (DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO DEEPEN OR PLUG BACK TO A DIFFERENT RESERVOIR. USE "APPLICATION FOR PERMIT" (FORM C-101) FOR SUCH PROPOSALS.)

1. Type of Well: Oil Well Gas Well Other

2. Name of Operator
NAVAJO REFINING COMPANY

3. Address of Operator
P.O. BOX 159, ARTESIA, NM 88211

4. Well Location
 Unit Letter _____ : 790 feet from the SOUTH line and 2250 feet from the WEST line
 Section 1 Township 18 south Range 27 East NMPM County Eddy

11. Elevation (Show whether DR, RKB, RT, GR, etc.)
 GR 3609', RKB 3625'

Pit or Below-grade Tank Application or Closure

Pit type N/A Depth to Groundwater 100 FT Distance from nearest fresh water well 1 MILE Distance from nearest surface water 6 MILES

Pit Liner Thickness: N/A mil Below-Grade Tank: Volume N/A bbls; Construction Material N/A

12. Check Appropriate Box to Indicate Nature of Notice, Report or Other Data

NOTICE OF INTENTION TO:		SUBSEQUENT REPORT OF:	
PERFORM REMEDIAL WORK <input type="checkbox"/>	PLUG AND ABANDON <input type="checkbox"/>	REMEDIAL WORK <input type="checkbox"/>	ALTERING CASING <input type="checkbox"/>
TEMPORARILY ABANDON <input type="checkbox"/>	CHANGE PLANS <input type="checkbox"/>	COMMENCE DRILLING OPNS. <input type="checkbox"/>	P AND A <input type="checkbox"/>
PULL OR ALTER CASING <input type="checkbox"/>	MULTIPLE COMPL <input type="checkbox"/>	CASING/CEMENT JOB <input type="checkbox"/>	
OTHER: To complete a Class 1 non-hazardous waste well <input checked="" type="checkbox"/>		OTHER: Well completion report to follow <input checked="" type="checkbox"/>	

13. Describe proposed or completed operations. (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work). SEE RULE 1103. For Multiple Completions: Attach wellbore diagram of proposed completion or recompletion.

See attached well summary document and well schematic.

*MIT Witnessed by Carl Chavez
 No chart Submitted*

I hereby certify that the information above is true and complete to the best of my knowledge and belief. I further certify that any pit or below-grade tank has been/will be constructed or closed according to NMOCD guidelines , a general permit or an (attached) alternative OCD-approved plan .

SIGNATURE Paul Mose TITLE Env. Mgr. for Water & Waste DATE 1/18/07

Type or print name r State Use Only E-mail address: Telephone No.

*Accepted for record
 NMOCD*

APPROVED BY: _____ TITLE _____ DATE _____

Conditions of Approval (if any):

Submit To Appropriate District Office
 State Lease - 6 copies
 Fee Lease - 5 copies
 District I
 1625 N. French Dr., Hobbs, NM 88240
 District II
 1301 W. Grand Avenue, Artesia, NM 88210
 District III
 J Rio Brazos Rd., Aztec, NM 87410
 District IV
 1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
 Energy, Minerals and Natural Resources

Oil Conservation Division
 1220 South St. Francis Dr.
 Santa Fe, NM 87505

Form C-105
 Revised June 10, 2003

WELL API NO.
 30 - 015 - 26575

5. Indicate Type of Lease
 STATE FEE

State Oil & Gas Lease No.

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

1a. Type of Well:
 OIL WELL GAS WELL DRY OTHER Non-hazardous Waste Disposal Well
 b. Type of Completion:
 NEW WORK DEEPEN PLUG DIE
 WELL OVER BACK RESVR BACK

7. Lease Name or Unit Agreement Name
 Waste Disposal Well / WDW - 3

2. Name of Operator
 NAVAJO REFINING COMPANY

8. Well No. 3

3. Address of Operator
 P.O. BOX 159, ARTESIA, NM 88211

9. Pool name or Wildcat

4. Well Location
 Unit Letter _____ : 790. Feet From The SOUTH Line and 2250. Feet From The WEST Line

Section 1 Township 18 South Range 27 East NMPM County Eddy, NM
 10. Date Spudded 12/22/90 11. Date T.D. Reached 1/29/91 12. Date Compl. (Ready to Prod.) Injection 1/15/07 13. Elevations (DF& RKB, RT, GR, etc.) DF 3616 ft / GR 3609 ft 14. Elev. Casinghead 3609 ft

15. Total Depth 10,119 ft 16. Plug Back T.D. 9020 ft 17. If Multiple Compl. How Many Zones? 2 18. Intervals Drilled By Rotary Tools (Recentry Drill out CIBP Plugs with Swivel) Cable Tools

19. Producing Interval(s), of this completion - Top, Bottom, Name Injection Interval 7660 ft to 8450 ft Cisco & 8540 ft to 8620 ft Canyon 20. Was Directional Survey Made No

21. Type Electric and Other Logs Run CBL/VDL, Temperature, Caliper, Radioactive Tracer, Pressure 22. Was Well Cored No

23. CASING RECORD (Report all strings set in well)

CASING SIZE	WEIGHT LB./FT.	DEPTH SET	HOLE SIZE	CEMENTING RECORD	AMOUNT PULLED
13 3/8"	54.50	400'	17 1/2"	425-CIRC	NONE
9 5/8"	36	2604'	12 1/4"	1025-CIRC	NONE
7"	29 & 26	9450'	8 3/4"	1350-CIRC	NONE

24. LINER RECORD

SIZE	TOP	BOTTOM	SACKS CEMENT	SCREEN
4 1/2"	9051'	10,119'	175	NONE

25. TUBING RECORD

SIZE	DEPTH SET	PACKER SET
4 1/2"	7567'	7575'

26. Perforation record (interval, size, and number)
 7660' TO 8450' / 0.5" / 2 JSPP / 60°
 8540' TO 8620' / 0.5" / 2 JSPP / 60°
 27. ACID, SHOT, FRACTURE, CEMENT, SQUEEZE, ETC.
 DEPTH INTERVAL AMOUNT AND KIND MATERIAL USED
 7050' TO 7102' 80 SKS PREM 14.8 PPG CMT SQZ PERF
 7262' TO 7278' 100 SKS PREM 14.8 PPG CMT SQZ PERF
 7304' TO 7314' 80 SKS PREM 14.8 PPG CMT SQZ PERF

28. PRODUCTION

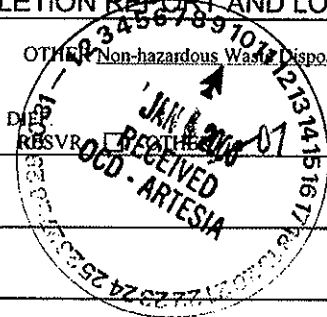
Date First Production (INJECTION WELL) _____ Production Method (Flowing, gas lift, pumping - Size and type pump) (INJECTION PUMP) _____ Well Status (Prod. or Shut-in) (SHUT-IN) _____
 Date of Test 10/19/06 Hours Tested 4 HOURS Choke Size NO CHOKE INJECT TEST Prod'n For Test Period N/A Oil - Bbl N/A Gas - MCF N/A Water - Bbl N/A Gas - Oil Ratio N/A
 Flow Tubing Press. MAX INJECT 1450 PSI Casing Pressure 750 PSI Calculated 24-Hour Rate 8 BPM Oil - Bbl. N/A Gas - MCF N/A Water - Bbl. N/A Oil Gravity - API - (Corr.) N/A

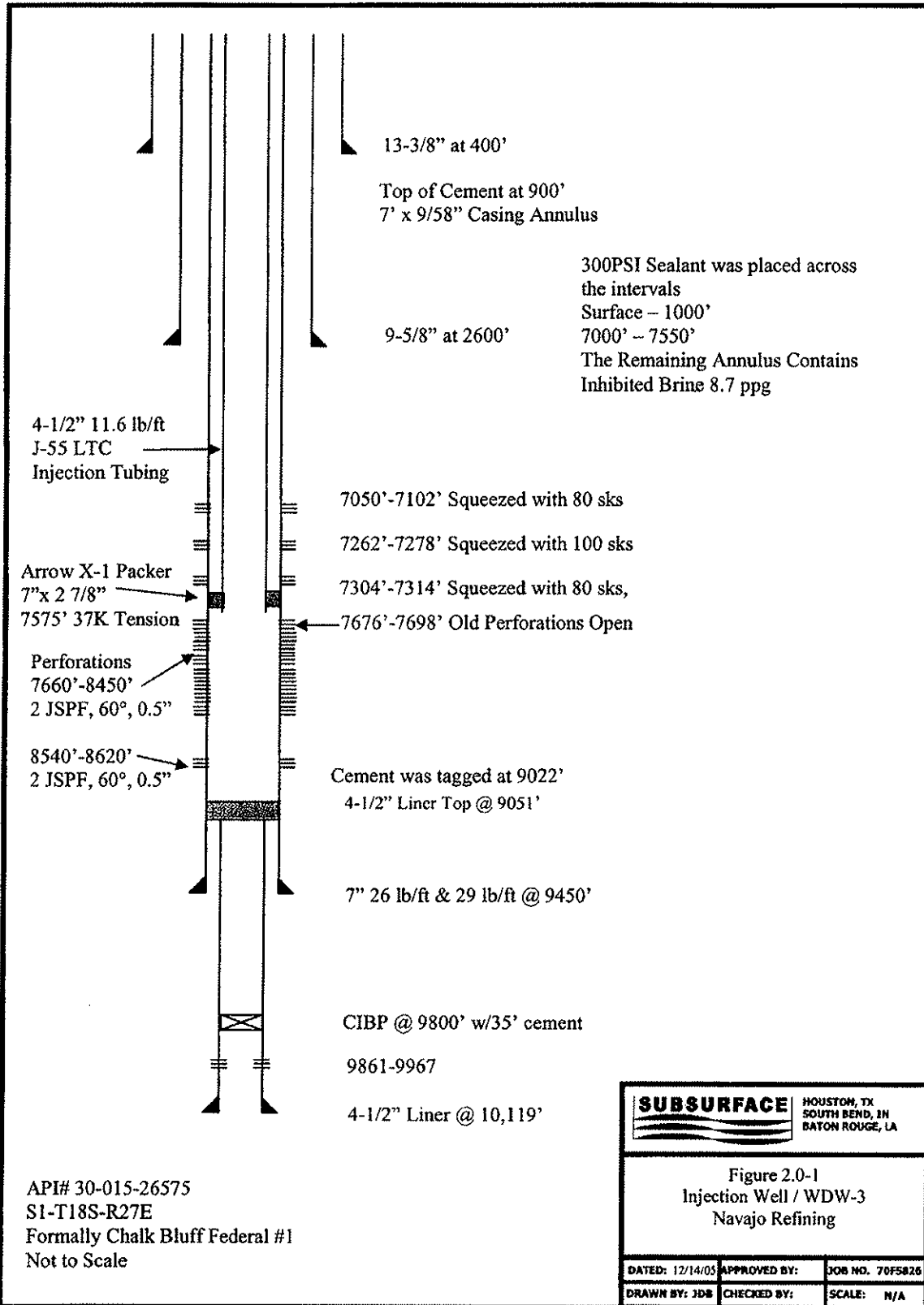
29. Disposition of Gas (Sold, used for fuel, vented, etc.) NO GAS Test Witnessed By _____

30. List Attachments
 WELL SUMMARY OF EVENTS, WELL WAS CONVERTED TO A CLASS I NON-HAZARDOUS WATER WASTE DISPOSAL WELL. A FULL REPORT WILL FOLLOW AT A LATER DATE.

31. I hereby certify that the information shown on both sides of this form as true and complete to the best of my knowledge and belief

Signature Darrell Moore Printed Name Darrell Moore Title Env. Mgr. Date 1/8/07
 Email Address darrell.moore@navajo-refining.com





Well Summary

Navajo Refining Company (Navajo) contracted Subsurface Technology, Inc. (Subsurface), to prepare an application for permit and to reenter a plugged and abandoned (P&A) oil and gas well. The Application for Permit to Drill or Reenter and the Sundry Notices and Reports on Wells was submitted to the Department of the Interior, Bureau of Land Management (BLM), on June 29, 2006 and approved. The Application for Permit to Drill, Re-enter, Deepen, Plug Back, or add a Zone was submitted to the State of New Mexico Oil Conservation Commission (OCD) on June 29, 2006 and approved.

Subsurface prepared an engineering plan to reenter the P&A'ed oil and gas well formally owned by Mewbourne Oil Company. The original well name was Caulk Bluff Federal #1 (API number 30-015-26575), and a Change of Operator application was submitted to the OCD on December 5, 2000 and approved under the well name of WDW-3. Under contract to Navajo, Subsurface commenced field operations on September 25, 2006. The existing location was cleared and prepared for reentry operations. An earthen lined reserve pit was dug to catch returns. All depths unless stated are referenced to rig floor at six feet to seven feet above ground level. The rig floor was moved from six feet to seven feet after drilling out the cast iron bridge plugs.

A workover rig and reverse unit was placed on location and the existing wellhead was removed. The first cast iron bridge plug (CIBP) at 7010 feet was drilled and the perforated interval from 7050 feet to 7102 feet was squeezed off with neat cement and successfully pressured tested to six hundred eighty pounds per square inch gauge pressure (680 psig). The second and third CIBP at 7190 feet and 7279 feet was drilled. There appeared to be ten feet of cement on top of the third CIBP. The perforated interval from 7262 feet to 7278 feet and from 7304 feet to 7314 feet was squeezed with neat cement. The squeezed interval was pressure tested to 920 psig and would not hold. A second cement squeeze was performed across the perforated interval from 7262 feet to 7278 feet and from 7304 feet to 7314. The interval was pressured tested to 630 psig and continued to lose pressure at a rate of two pounds per square inch every thirty minutes (2 psi/30 min). The fourth CIBP at 7595 feet was drilled and at 7838 feet a cement plug was encountered and drilled through. Cement was tagged twenty nine (29) feet above the top of the liner at 9022 feet. The hole was circulated clean and prepared for logging.

A Cement Bond Log (CBL), Variable Density Log (VDL), caliper log, and temperature survey were performed. The CBL/VDL showed that the top of the cement (TOC) behind the 7-inch casing was located 900 feet from the surface. The OCD was notified and approved the existing well condition. The casing was perforated from 7660 feet to 8450 feet and from 8540 feet to 8620 feet at 2-JSPF on sixty degree (60°) phasing.

A packer was set at 7546 feet with 2 7/8-inch PH-6 tubing, the well was swabbed back and samples of the formation fluid were recovered. It was estimated that two hundred twenty six barrels (226 bbls) of formation fluid was returned to the surface. A pressure test on the annulus between the 7-inch and 2 7/8-inch was performed at 660 psig with the annulus losing pressure at a rate of 8 psi/hr.

An injection test was performed on the well down the 2 7/8-inch tubing with the annulus open to the bottom of the well. The open annulus will allow for the calculation of the bottom hole pressure while pumping down the 2 7/8-inch tubing with out the influence of tubing friction pressure on the bottom hole calculations. The injection rates were from two barrels per minute (2 bpm) to ten barrels per minute (10 bpm). From the data collected during the injection test it appears that the well will be able to accept an injection rate up to 10 bpm at the permitted pressure of 1550 psig with 4 1/2-inch, 11.6 pound per foot (11.6 lb/ft) tubing in the wellbore.

At the request of the OCD, Subsurface went back into the wellbore with a retrievable bridge plug (RBP) to test the casing and isolate any leaks to within 1000 feet. The RBP was set at 7550 feet and the packer was set at 6985 feet to isolate the squeezed interval from 7050 feet to 7314 feet. The squeezed interval was pressure tested to 490 psig and the annulus to 632 psig. The squeezed interval was losing pressure at a rate of 6 psi/hr and the annulus was gaining pressure due to thermal affects. The RBP was moved up the wellbore to 1255 feet and casing pressure tested to 569 psig. The casing above 1255 feet was losing pressure at a rate of 2 psi/hr. The casing leaks were isolated to the squeezed interval from 7050 feet to 7314 feet and in the interval from surface to 1255 feet. The OCD was called and approved the 300PSI sealing application to stop the casing leaks across the two intervals.

The 4 1/2-inch tubing was run into the wellbore and the Arrow X-1 packer was set at 7575.73 feet with 37,000 lbs of tension. Prior to running the 4 1/2-inch tubing a new Superior hanging spool was installed. Prior to setting the tubing packer, the annulus between the 4 1/2-inch tubing and the 7-inch casing was filled with inhibited brine, with the 300psi sealant across the squeezed perforations and across the upper section of the 7-inch casing. Once the packer was set and casing hung off in the spool a new Superior wellhead was installed and the P-seals were pressure tested to 3000 psig. After the wellhead was assembled the annulus was squeezed at 545 psig for four hours (4 hrs) as specified by the sealant manufacture representative on site. The annulus was then pressure tested to 480 psig overnight with no pressure loss. Workover rig was disassembled and moved off location with all associated equipment.

A 12 hr pump in and falloff test was performed down the 4 1/2-inch tubing. To maintain a surface injection pressure that was below the permitted pressure of 1550 psi the injection rate was lowered to 9 bpm at the end of the pump in procedure. The BHP gauge was placed at 8630 feet for 14 hrs to monitor BHP, when the gauge was pulled five minute (5 min) gradient stops were made every 1000 feet with the first stop at 7000 feet. The analysis of the data showed interference from the adjacent injection wells, which skewed the results for determination of the skin and possibly the permeability. The equipment used to perform the falloff testing was moved off location to prepare for mechanical integrity testing (MIT).

The MIT was performed and witnessed by the OCD. The MIT consisted of an annulus pressure test, and a radioactive tracer survey. The temperature survey was performed during the CBL/VDL logging event and will be used as a baseline for any future temperature surveys. The annulus pressure test was performed at 530 psia and lost 2.5 psi over a one hour period, which was within the OCD requirements of five percent (5%)

over a 30 min time interval. The radioactive tracer survey showed no signs of fluid flow out of the permitted interval above 7650 feet. The OCD witnessed the annular pressure test and the first half of the radioactive tracer survey.

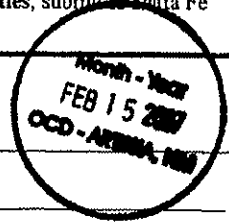
The annulus monitoring system was installed and tested. The well was turned over to Navajo for injection.

District I
1625 N. French Dr., Hobbs, NM 88240
District II
1301 W. Grand Avenue, Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
0 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Surg Minerals and Natural Resources
Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

Form C-144
June 1, 2004

For drilling and production facilities, submit to appropriate NMOCD District Office.
For downstream facilities, submit to Santa Fe office



Pit or Below-Grade Tank Registration or Closure

Is pit or below-grade tank covered by a "general plan"? Yes No

Type of action: Registration of a pit or below-grade tank Closure of a pit or below-grade tank

Operator: Navajo Refining Company Telephone: (505) 748-3311 e-mail address: _____
 Address: 501 East Main Street, Artesia, NM 88210
 Facility or well name: WDW #3 API #: 30-015-26575 U/L or Qtr/Qtr _____ Sec 1 T 18 R 27E
 County: Eddy Latitude _____ Longitude _____ NAD: 1927 1983
 Surface Owner: Federal State Private Indian

Pit	Below-grade tank						
Type: Drilling <input checked="" type="checkbox"/> Production <input type="checkbox"/> Disposal <input type="checkbox"/> Workover <input type="checkbox"/> Emergency <input type="checkbox"/> Lined <input checked="" type="checkbox"/> Unlined <input type="checkbox"/> Liner type: Synthetic <input checked="" type="checkbox"/> Thickness <u>12</u> mil Clay <input type="checkbox"/> Pit Volume _____ bbl	Volume: _____ bbl Type of fluid: _____ Construction material: _____ Double-walled, with leak detection? Yes <input type="checkbox"/> If not, explain why not: _____						
Depth to ground water (vertical distance from bottom of pit to seasonal high water elevation of ground water.)	<table border="1"> <tr> <td>Less than 50 feet</td> <td>(20 points)</td> </tr> <tr> <td><u>50 feet or more, but less than 100 feet</u></td> <td>(10 points) <u>10</u></td> </tr> <tr> <td>100 feet or more</td> <td>(0 points)</td> </tr> </table>	Less than 50 feet	(20 points)	<u>50 feet or more, but less than 100 feet</u>	(10 points) <u>10</u>	100 feet or more	(0 points)
Less than 50 feet	(20 points)						
<u>50 feet or more, but less than 100 feet</u>	(10 points) <u>10</u>						
100 feet or more	(0 points)						
Wellhead protection area: (Less than 200 feet from a private domestic water source, or less than 1000 feet from all other water sources.)	<table border="1"> <tr> <td>Yes</td> <td>(20 points)</td> </tr> <tr> <td><u>No</u></td> <td>(0 points) <u>0</u></td> </tr> </table>	Yes	(20 points)	<u>No</u>	(0 points) <u>0</u>		
Yes	(20 points)						
<u>No</u>	(0 points) <u>0</u>						
Distance to surface water: (horizontal distance to all wetlands, playas, irrigation canals, ditches, and perennial and ephemeral watercourses.)	<table border="1"> <tr> <td>Less than 200 feet</td> <td>(20 points)</td> </tr> <tr> <td>200 feet or more, but less than 1000 feet</td> <td>(10 points)</td> </tr> <tr> <td><u>1000 feet or more</u></td> <td>(0 points) <u>0</u></td> </tr> </table>	Less than 200 feet	(20 points)	200 feet or more, but less than 1000 feet	(10 points)	<u>1000 feet or more</u>	(0 points) <u>0</u>
Less than 200 feet	(20 points)						
200 feet or more, but less than 1000 feet	(10 points)						
<u>1000 feet or more</u>	(0 points) <u>0</u>						
Ranking Score (Total Points)							
<u>10</u>							

If this is a pit closure: (1) Attach a diagram of the facility showing the pit's relationship to other equipment and tanks. (2) Indicate disposal location: (check the onsite box if you are burying in place) onsite offsite If offsite, name of facility CRI. (3) Attach a general description of remedial action taken including remediation start date and end date. (4) Groundwater encountered: No Yes If yes, show depth below ground surface _____ ft. and attach sample results. (5) Attach soil sample results and a diagram of sample locations and excavations.

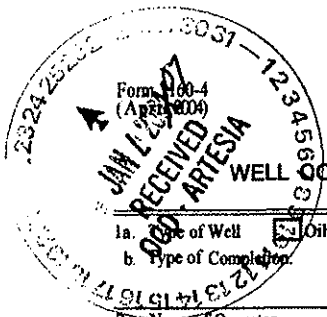
Additional Comments: NAVAJO REFINING COMPANY PLANS TO CLOSE DRILLING PIT ON THE WDW #3 AS PER NEW MEXICO OIL CONSERVATION DIVISION RULE 30 IN THE PIT AND BELOW GRADE TANK GUIDE LINES. NAVAJO PLANS TO REMOVE ALL FLUIDS AND DRILL CUTTINGS. ALL CUTTINGS WILL BE TAKEN TO A N.M.O.C.D. APPROVED SITE FOR DISPOSAL AND BACKFILL WITH ONSITE STOCKPILED SOILS. WE WILL NOTIFY O.C.D. 48 HOURS PRIOR TO BEGINNING WORK.

I hereby certify that the information above is true and complete to the best of my knowledge and belief. I further certify that the above-described pit or below-grade tank has been/will be constructed or closed according to NMOCD guidelines , a general permit , or an (attached) alternative OCD-approved plan .

Date: 2/14/06
 Printed Name/Title: Chad Williams/Agent Signature: Chad Williams

Your certification and NMOCD approval of this application/closure does not relieve the operator of liability should the contents of the pit or tank contaminate ground water or otherwise endanger public health or the environment. Nor does it relieve the operator of its responsibility for compliance with any other federal, state, or local laws and/or regulations.

Approval: Jim W. Brown
 District II Supervisor Signature: _____ Date: 2/12/07



UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT
WELL COMPLETION OR RECOMPLETION REPORT AND LOG

FORM APPROVED
OMB NO. 1004-0137
Expires: March 31, 2007

1a. Type of Well Oil Well Gas Well Dry Other
 b. Type of Completion New Well Work Over Deepen Plug Back Diff. Resrv.
 Other _____

2. Name of Operator **NAVAJO REFINING COMPANY**

3. Address **P.O. BOX 159, ARTESIA, NM 88211** 3a. Phone No. (include area code)

4. Location of Well (Report location clearly and in accordance with Federal requirements)*
 At surface **790' FROM THE SOUTH LINE AND 2250' FROM THE WEST LINE**
 At top prod. interval reported below **7650' AT THE SAME LOCATION AS ABOVE**
 At total depth **PLUG BACK 10,119' AT THE SAME LOCATION AS ABOVE**

14. Date Spudded **12/22/1996** 15. Date T.D. Reached **01/29/1991** 16. Date Completed D & A Ready to Prod.

18. Total Depth: MD **10,119'** TVD **10,119'** 19. Plug Back T.D.: MD **9022'** TVD **9022'** 20. Depth Bridge Plug Set: MD **CMT 9051'-9022'** TVD **CMT 9051'-9022'**

21. Type Electric & Other Mechanical Logs Run (Submit copy of each)
CBL/VDL, MULTI-ARM CALIPER, TEMP, RADIOACTIVE TRACER (2006)
 22. Was well cored? No Yes (Submit analysis)
 Was DST run? No Yes (Submit report)
 Directional Survey? No Yes (Submit copy)

23. Casing and Liner Record (Report all strings set in well)

Hole Size	Size/Grade	Wt. (#/ft.)	Top (MD)	Bottom (MD)	Stage Cementer Depth	No. of Sks. & Type of Cement	Slurry Vol. (BBL)	Cement Top*	Amount Pulled
17 1/2"	13 3/8"	54.5	SURF	400'	400'	425 CLASS C		SURF	NONE
12 1/4"	9 5/8"	36	SURF	2604'	2604'	1025 "C"		SURF	NONE
8 3/4"	7"	29 & 26	SURF	9450'	9450'	1350 "H"		900'	NONE
6 1/4"	4 1/2"		9051'	10,119'	10,119'	175 CLASS H		9051'-TOL	NONE

24. Tubing Record

Size	Depth Set (MD)	Packer Depth (MD)	Size	Depth Set (MD)	Packer Depth (MD)	Size	Depth Set (MD)	Packer Depth (MD)
4 1/2"	7567'	7567'						

25. Producing Intervals

Formation	Top	Bottom	Perforated Interval	Size	No. Holes	Perf. Status
A) CISCO	7650'	8450'	7660' - 8450'	0.5"	1500	2 JSPPF / 60°
B) CANYON	8540'	8620'	8540' - 8620'	0.5"	100	2 JSPPF / 60°
C)						
D)						

26. Perforation Record

27. Acid, Fracture, Treatment, Cement Squeeze, etc.

Depth Interval	Amount and Type of Material
7050' - 7102'	80 SKS PREM 14.8 PPG NEAT CMT FOR PERF SQZ ON PREVIOUS PERFORATION
7262' - 7278'	100 SKS PREM 14.8 PPG NEAT CMT FOR PERF SQZ ON PREVIOUS PERFORATION
7304' - 7314'	80 SKS PREM 14.8 PPG NEAT CMT FOR PERF SQZ ON PREVIOUS PERFORATIONS

28. Production - Interval A

Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
			→						NON-HAZAROUS CLASS I WELL
Choke Size	Tbg. Press. Flwg. SI	Cog. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas/Oil Ratio	Well Status	
			→						WAITING ON STATE APPROVAL TO INJECT

28a. Production - Interval B

Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
			→						NON-HAZAROUS CLASS I WELL
Choke Size	Tbg. Press. Flwg. SI	Cog. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas/Oil Ratio	Well Status	
			→						WAITING ON STATE APPROVAL TO INJECT

* (See instructions and spaces for additional data on page 2)

28b. Production - Interval C

Date First Produced	Test Date	Hours Tested	Test Production →	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
Choke Size	Tbg. Press. Flwg. SI	Cg. Press.	24 Hr. Rate →	Oil BBL	Gas MCF	Water BBL	Gas/Oil Ratio	Well Status	

28c. Production - Interval D

Date First Produced	Test Date	Hours Tested	Test Production →	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
Choke Size	Tbg. Press. Flwg. SI	Cg. Press.	24 Hr. Rate →	Oil BBL	Gas MCF	Water BBL	Gas/Oil Ratio	Well Status	

29. Disposition of Gas (Sold, used for fuel, vented, etc.)

N/A (NON-HAZARDOUS CLASS 1 WELL)

30. Summary of Porous Zones (Include Aquifers):

Show all important zones of porosity and contents thereof: Cored intervals and all drill-stem tests, including depth interval tested, cushion used, time tool open, flowing and shut-in pressures and recoveries.

31. Formation (Log) Markers

Formation	Top	Bottom	Descriptions, Contents, etc.	Name	Top
					Meas. Depth

32. Additional remarks (include plugging procedure):

THE PLUGGED AND ABANDONED WELL WAS ACQUIRED FROM MEWBOURNE OIL COMPANY BY NAVAJO REFINING. NAVAJO RECOMPLETED THE WELL FOR INJECTING NON-HAZARDOUS WASTE WATER FROM THEIR REFINERY IN ARTESIA, NM. THE EXISTING PLUGS WERE DRILLED OUT TO THE TOP OF THE LINER PLUG AT 9022' AND THE EXISTING PERFORATIONS WERE SQUEEZED OFF WITH CEMENT AT 7050' TO 7102', 7262' TO 7278', AND FROM 7304' TO 7314'. A 4 1/2" 11.6 #/FT TUBING STRING WAS SET WITH A TENSION PACKER AT 7568' AND BOTTOM OF PACKER AT 7575'. MIT WAS WITNESSED BY OCD.

(SEE ATTACHED WELL SUMMARY FOR MORE DETAILS)

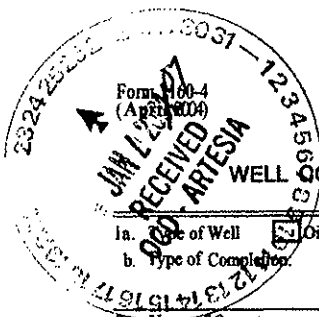
33. Indicate which items have been attached by placing a check in the appropriate boxes:

- Electrical/Mechanical Logs (1 full set req'd.)
 Geologic Report
 DST Report
 Directional Survey
 Sundry Notice for plugging and cement verification
 Core Analysis
 Other:

34. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records (see attached instructions)*

Name (please print) Darrell Moore Title Env. Mgr for Water & Waste
 Signature Darrell Moore Date 1/24/07

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.



UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT
WELL COMPLETION OR RECOMPLETION REPORT AND LOG

FORM APPROVED
OMB NO. 1004-0137
Expires: March 31, 2007

1a. Type of Well Oil Well Gas Well Dry Other
 b. Type of Completion New Well Work Over Deepen Plug Back Diff. Resvr.,
 Other _____

2. Name of Operator **NAVAJO REFINING COMPANY**

3. Address **P.O. BOX 159, ARTESIA, NM 88211**

3a. Phone No. (include area code)

4. Location of Well (Report location clearly and in accordance with Federal requirements)*

At surface **790' FROM THE SOUTH LINE AND 2250' FROM THE WEST LINE**

At top prod. interval reported below **7650' AT THE SAME LOCATION AS ABOVE**

At total depth **PLUG BACK 10,119' AT THE SAME LOCATION AS ABOVE**

14. Date Spudded
12/22/1990

15. Date T.D. Reached
01/29/1991

16. Date Completed
 D & A Ready to Prod.

17. Elevations (DF, RKB, RT, GL)*
3609'

18. Total Depth: MD **10,119'**
TVD **10,119'**

19. Plug Back T.D.: MD **9022'**
TVD **9022'**

20. Depth Bridge Plug Set: MD **CMT 9051'-9022'**
TVD **CMT 9051'-9022'**

21. Type Electric & Other Mechanical Logs Run (Submit copy of each)
CBL/VDL, MULTI-ARM CALIPER, TEMP, RADIOACTIVE TRACER (2006)

22. Was well cored? No Yes (Submit analysis)
Was DST run? No Yes (Submit report)
Directional Survey? No Yes (Submit copy)

23. Casing and Liner Record (Report all strings set in well)

Hole Size	Size/Grade	Wt. (#/R)	Top (MD)	Bottom (MD)	Stage Cementer Depth	No. of Sks. & Type of Cement	Shurry Vol. (EEL)	Cement Top*	Amount Pulled
17 1/2"	13 3/8"	54.5	SURF	400'	400'	425 CLASS C		SURF	NONE
12 1/4"	9 5/8"	36	SURF	2604'	2604'	1025 "C"		SURF	NONE
8 3/4"	7"	29 & 26	SURF	9450'	9450'	1350 "H"		900'	NONE
6 1/4"	4 1/2"		9051'	10,119'	10,119'	175 CLASS H		9051'-TOL	NONE

24. Tubing Record

Size	Depth Set (MD)	Packer Depth (MD)	Size	Depth Set (MD)	Packer Depth (MD)	Size	Depth Set (MD)	Packer Depth (MD)
4 1/2"	7567'	7567'						

25. Producing Intervals

Formation	Top	Bottom	Perforated Interval	Size	No. Holes	Perf. Status
A) CISCO	7650'	8450'	7660' - 8450'	0.5"	1500	2 JSFF / 60°
B) CANYON	8540'	8620'	8540' - 8620'	0.5"	100	2 JSFF / 60°
C)						
D)						

27. Acid, Fracture, Treatment, Cement Squeeze, etc.

Depth Interval	Amount and Type of Material
7050' - 7102'	80 SKS PREM 14.8 PPG NEAT CMT FOR PERF SQZ ON PREVIOUS PERFORATION
7262' - 7278'	100 SKS PREM 14.8 PPG NEAT CMT FOR PERF SQZ ON PREVIOUS PERFORATION
7304' - 7314'	80 SKS PREM 14.8 PPG NEAT CMT FOR PERF SQZ ON PREVIOUS PERFORATIONS

28. Production - Interval A

Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
			→						NON-HAZAROUS CLASS I WELL
Choke Size	Thg. Press. Flwg. SI	Cap. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas/Oil Ratio	Well Status	
			→						WAITING ON STATE APPROVAL TO INJECT

28a. Production - Interval B

Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
			→						NON-HAZAROUS CLASS I WELL
Choke Size	Thg. Press. Flwg. SI	Cap. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas/Oil Ratio	Well Status	
			→						WAITING ON STATE APPROVAL TO INJECT

* (See instructions and spaces for additional data on page 2)

28b. Production - Interval C

Date First Produced	Test Date	Hours Tested	Test Production →	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate →	Oil BBL	Gas MCF	Water BBL	Gas/Oil Ratio	Well Status	

28c. Production - Interval D

Date First Produced	Test Date	Hours Tested	Test Production →	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate →	Oil BBL	Gas MCF	Water BBL	Gas/Oil Ratio	Well Status	

29. Disposition of Gas (Sold, used for fuel, vented, etc.)

N/A (NON-HAZARDOUS CLASS 1 WELL)

30. Summary of Porous Zones (Include Aquifers):

Show all important zones of porosity and contents thereof: Cored intervals and all drill-stem tests, including depth interval tested, cushion used, time tool open, flowing and shut-in pressures and recoveries.

31. Formation (Log) Markers

Formation	Top	Bottom	Descriptions, Contents, etc.	Name	Top
					Meas. Depth

32. Additional remarks (include plugging procedure):

THE PLUGGED AND ABANDONED WELL WAS ACQUIRED FROM MEWBOURNE OIL COMPANY BY NAVAJO REFINING. NAVAJO RECOMPLETED THE WELL FOR INJECTING NON-HAZARDOUS WASTE WATER FROM THEIR REFINERY IN ARTESIA, NM. THE EXISTING PLUGS WERE DRILLED OUT TO THE TOP OF THE LINER PLUG AT 9022' AND THE EXISTING PERFORATIONS WERE SQUEEZED OFF WITH CEMENT AT 7050' TO 7102', 7262' TO 7278', AND FROM 7304' TO 7314'. A 4 1/2" 11.6 #/FT TUBING STRING WAS SET WITH A TENSION PACKER AT 7568' AND BOTTOM OF PACKER AT 7575'. MIT WAS WITNESSED BY OCD.

(SEE ATTACHED WELL SUMMARY FOR MORE DETAILS)

33. Indicate which items have been attached by placing a check in the appropriate boxes:

- Electrical/Mechanical Logs (1 full set req'd.)
 Geologic Report
 DST Report
 Directional Survey
 Sundry Notice for plugging and cement verification
 Core Analysis
 Other:

34. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records (see attached instructions)*

Name (please print) Darrell Moore Title Env. Mgr for Water Waste
 Signature Darrell Moore Date 1/24/07

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM APPROVED
OMB No. 1004-0137
Expires: March 31, 2007



SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or to re-enter an abandoned well. Use Form 3160-3 (APD) for such proposals.

Annth - Year
MAR - 5 2007
OCD - ARTESIA, NM

SUBMIT IN TRIPLICATE- Other instructions on reverse side.

1. Type of Well <input type="checkbox"/> Oil Well <input type="checkbox"/> Gas Well <input checked="" type="checkbox"/> Other		5. Lease Serial No. NM-0557371
2. Name of Operator NAVAJO REFINIG COMPANY		6. If Indian, Allottee or Tribe Name N/A
3a. Address P.O. BOX 159, ARTESIA, NM 88211	3b. Phone No. (include area code)	7. If Unit or CA/Agreement, Name and/or No.
4. Location of Well (Footage, Sec., T., R., M., or Survey Description) S1 - T18S - R27E ; 790' FROM THE SOUTH LINE AND 2250' FROM THE WEST LINE		8. Well Name and No. WDW-3
		9. API Well No. 30 - 015 - 26575
		10. Field and Pool, or Exploratory Area
		11. County or Parish, State EDDY

12. CHECK APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION			
<input type="checkbox"/> Notice of Intent	<input type="checkbox"/> Acidize	<input type="checkbox"/> Deepen	<input type="checkbox"/> Production (Start/Resume)	<input type="checkbox"/> Water Shut-Off
<input checked="" type="checkbox"/> Subsequent Report	<input type="checkbox"/> Alter Casing	<input type="checkbox"/> Fracture Treat	<input type="checkbox"/> Reclamation	<input checked="" type="checkbox"/> Well Integrity
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Casing Repair	<input type="checkbox"/> New Construction	<input type="checkbox"/> Recomplete	<input checked="" type="checkbox"/> Other
	<input type="checkbox"/> Change Plans	<input type="checkbox"/> Plug and Abandon	<input type="checkbox"/> Temporarily Abandon	NON-HAZARDOUS
	<input checked="" type="checkbox"/> Convert to Injection	<input type="checkbox"/> Plug Back	<input type="checkbox"/> Water Disposal	CLASS I WELL

13. Describe Proposed or Completed Operation (clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recomplete horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports shall be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompletion in a new interval, a Form 3160-4 shall be filed once testing has been completed. Final Abandonment Notices shall be filed only after all requirements, including reclamation, have been completed, and the operator has determined that the site is ready for final inspection.)

THE PLUGGED AND ABANDONED WELL WAS ACQUIRED FROM MEWBOURNE OIL COMPANY BY NAVAJO REFINING. NAVAJO RECOMPLETED THE WELL FOR INJECTING NON-HAZARDOUS WASTE WATER FROM THEIR REFINERY IN ARTESIA, NM.

10/1/06 -THE EXISTING PLUGS WERE DRILLED OUT TO THE TOP OF THE LINER PLUG AT 9622' AND THE EXISTING PERFORATIONS WERE SQUEEZED OFF WITH NEAT CEMENT AT 7859' TO 7102', 7262' TO 7278', AND FROM 7364' TO 7314'.

10/13/06 - RAN CBL/VDL AND TEMPERATURE SURVEY, PERFORATED INTERVAL FROM 7650' TO 8450' AND FROM 8540' TO 8620'.

10/24/06 - A 4 1/2" 11.6 #/FT TUBING STRING WAS SET WITH A TENSION PACKER AT 7568' AND BOTTOM OF PACKER AT 7575'.

11/4/06 - PERFORMED AN INJECTION/FALLOFF TEST ON THE WELL AT 9 TO 10 BPM.

11/15/06 - MECHANICALLY INTEGRITY TEST WERE PERFORMED AND WITNESSED BY THE OCD. THE MECHANICALLY INTEGRITY TEST CONSISTED OF RADIOACTIVE TRACER TEST AND AN ANNULUS PRESSURE TEST. SUBJECT TO LIKE APPROVAL BY STATE (SEE THE ATTACHED WELL SUMMARY FOR MORE DETAILS.)

14. I hereby certify that the foregoing is true and correct

Name (Printed/Typed)

Darrell Moore

Title

Env. Mgr. for Water & Waste

Signature

Darrell Moore

Date

1/24/07

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

ACCEPTED FOR RECORD

Approved by

Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

Title

Office

Date

FEB 28 2007

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

FREDERICK
PETROLEUM ENGINEER

(Instructions on page 2)

**SEE ATTACHED FOR
CONDITIONS OF APPROVAL**

GENERAL INSTRUCTIONS

This form is designed for submitting proposals to perform certain well operations, and reports of such operations when completed, as indicated on Federal and Indian lands pursuant to applicable Federal law and regulations. Any necessary special instructions concerning the use of this

form and the number of copies to be submitted, particularly with regard to local area, or regional procedures and practices, either are shown below or will be issued by, or may be obtained from the local Federal office.

SPECIFIC INSTRUCTIONS

Item 4 - Locations on Federal or Indian land should be described in accordance with Federal requirements. Consult the local Federal office for specific instructions.

Item 13 - Proposals to abandon a well and subsequent reports of abandonment should include such special information as is required by the local Federal office. In addition, such proposals and reports should include reasons for the abandonment; data on any former or

present productive zones, or other zones with present significant fluid contents not scaled off by cement or otherwise; depths (top and bottom) and method of placement of cement plugs; mud or other material placed below, between and above plugs; amount, size, method of parting of any casing, liner or tubing pulled and the depth to top of any left in the hole; method of closing top of well and date well site conditioned for final inspection looking to approval of the abandonment.

NOTICE

The Privacy Act of 1974 and the regulation in 43 CFR 2.48(d) provide that you be furnished the following information in connection with information required by this application.

AUTHORITY: 30 U.S.C. 181 et seq., 351 et seq., 25 U.S.C. 396; 43 CFR 3160.

PRINCIPAL PURPOSE: The information is used to: (1) Evaluate, when appropriate, approve applications, and report completion of subsequent well operations, on a Federal or Indian lease; and (2) document for administrative use, information for the management, disposal and use of National Resource lands and resources, such as: (a) evaluating the equipment and procedures to be used during a proposed subsequent well operation and reviewing the completed well operations for compliance with the approved plan; (b) requesting and granting approval to perform those actions covered by 43 CFR 3162.3-2, 3162.3-3, and 3162.3-4; (c) reporting the beginning or resumption of production, as required by 43 CFR 3162.4-1(c) and (d) analyzing future applications to drill or modify operations in light of data obtained and methods used.

ROUTINE USES: Information from the record and/or the record will be transferred to appropriate Federal, State, local or foreign agencies, when relevant to civil, criminal or regulatory investigations or prosecutions in connection with congressional inquiries or to consumer reporting agencies to facilitate collection of debts owed the Government.

EFFECT OF NOT PROVIDING THE INFORMATION: Filing of this notice and report and disclosure of the information is mandatory for those subsequent well operations specified in 43 CFR 3162.3-2, 3162.3-3, 3162.3-4.

The Paperwork Reduction Act of 1995 requires us to inform you that:

This information is being collected to evaluate proposed and/or completed subsequent well operations on Federal or Indian oil and gas leases.

Response to this request is mandatory.

BLM would like you to know that you do not have to respond to this or any other Federal agency-sponsored information collection unless it displays a currently valid OMB control number.

BURDEN HOURS STATEMENT

Public reporting burden for this form is estimated to average 25 minutes per response, including the time for reviewing instructions, gathering and maintaining data, and completing and reviewing the form. Direct comments regarding the burden estimate or any other aspect of this form to U.S. Department of the Interior, Bureau of Land Management (1004-0137), Bureau Information Collection Clearance Officer, (WO-630), Mail Stop 401 LS, 1849 C St., N.W., Washington D.C. 20240

SUNDRY NOTICE SPECIAL STIPULATIONS

1. **Approval is granted for the water disposal method presented in the sundry subject to the following conditions:**
2. The operator must provide a water analysis of the water to be injected, together with a copy of the disposal permit granted by the state.

****** Approval does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.**

Engineering
can be reached at 505-706-2779 for any variances that might be necessary.

F Wright 2/28/07

OCD-ARTESIA

Form 3160-4
(April 2004)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

FORM APPROVED
OMB NO. 1004-0137
Expires: March 31, 2007

Month - Year
 - 5 - 2007
 ARTESIA, NM

5. Lease Serial No.
NM - 0557371

6. If Indian, Allottee or Tribe Name
N/A

7. Unit or CA Agreement Name and No.

8. Lease Name and Well No.
WDW - 3

9. AFI Well No.
30 - 015 - 26575

10. Field and Pool, or Exploratory

11. Sec., T., R., M., on Block and Survey or Area
S1 - T18S - R27E

12. County or Parish
EDDY

13. State
NM

14. Date Spudded
12/22/1990

15. Date T.D. Reached
01/29/1991

16. Date Completed
 D & A Ready to Prod.

17. Elevations (DF, RKB, RT, GL)*
3609'

18. Total Depth: MD 10,119'
TVD 10,119'

19. Plug Back T.D.: MD 9022'
TVD 9022'

20. Depth Bridge Plug Set: MD CMT 9051'-9022'
TVD CMT 9051'-9022'

21. Type Electric & Other Mechanical Logs Run (Submit copy of each)
CBL/VDL, MULTI-ARM CALIPER, TEMP, RADIOACTIVE TRACER (2006)

22. Was well cored? No Yes (Submit analysis)
Was DST run? No Yes (Submit report)
Directional Survey? No Yes (Submit copy)

23. Casing and Liner Record (Report all strings set in well)

Hole Size	Size/Grade	Wt (#/ft)	Top (MD)	Bottom (MD)	Stage Cementer Depth	No. of Sks. & Type of Cement	Slurry Vol. (BBL)	Cement Top*	Amount Pulled
17 1/2"	13 3/8"	54.5	SURF	400'	400'	425 CLASS C		SURF	NONE
12 1/4"	9 5/8"	36	SURF	2604'	2604'	1025 "C"		SURF	NONE
8 3/4"	7"	29 & 26	SURF	9450'	9450'	1350 "H"		900'	NONE
6 1/4"	4 1/2"		9051'	10,119'	10,119'	175 CLASS H		9051'-TOL	NONE

24. Tubing Record

Size	Depth Set (MD)	Packer Depth (MD)	Size	Depth Set (MD)	Packer Depth (MD)	Size	Depth Set (MD)	Packer Depth (MD)
4 1/2"	7567'	7567'						

25. Producing Intervals

Formation	Top	Bottom	Perforated Interval	Size	No. Holes	Perf. Status
A) CISCO	7650'	8450'	7660' - 8450'	0.5"	1580	2 JSPP / 60"
B) CANYON	8540'	8620'	8540' - 8620'	0.5"	160	2 JSPP / 60"
C)						
D)						

27. Acid, Fracture, Treatment, Cement Squeeze, etc.

Depth Interval	Amount and Type of Material
7050' - 7102'	80 SKS PREM 14.8 PPG NEAT CMT FOR PERF SQZ ON PREVIOUS PERFORATION
7262' - 7278'	100 SKS PREM 14.8 PPG NEAT CMT FOR PERF SQZ ON PREVIOUS PERFORATION
7304' - 7314'	80 SKS PREM 14.8 PPG NEAT CMT FOR PERF SQZ ON PREVIOUS PERFORATIONS

28. Production - Interval A

Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
			→						NON-HAZAROUS CLASS I WELL
Choke Size	Tbg. Press. Flwg. SI	Cg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas/Oil Ratio	Well Status	
			→						WAITING ON STATE APPROVAL TO INJECT

28a. Production - Interval B

Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
			→						NON-HAZAROUS CLASS I WELL
Choke Size	Tbg. Press. Flwg. SI	Cg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas/Oil Ratio	Well Status	
			→						WAITING ON STATE APPROVAL TO INJECT

(See instructions and spaces for additional data on page 2)

ACCEPTED FOR RECORD
 FEB 28 2007
 FREDERICK WRIGHT
 PETROLEUM ENGINEER

28b. Production - Interval C

Date First Produced	Test Date	Hours Tested	Test Production →	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate →	Oil BBL	Gas MCF	Water BBL	Gas/Oil Ratio	Well Status	

28c. Production - Interval D

Date First Produced	Test Date	Hours Tested	Test Production →	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate →	Oil BBL	Gas MCF	Water BBL	Gas/Oil Ratio	Well Status	

29. Disposition of Gas (Sold, used for fuel, vented, etc.)

N/A (NON-HAZARDOUS CLASS 1 WELL)

30. Summary of Porous Zones (Include Aquifers):

Show all important zones of porosity and contents thereof: Cored intervals and all drill-stem tests, including depth interval tested, cushion used, time tool open, flowing and shut-in pressures and recoveries.

31. Formation (Log) Markers

Formation	Top	Bottom	Descriptions, Contents, etc.	Name	Top
					Meas. Depth

32. Additional remarks (include plugging procedure):

THE PLUGGED AND ABANDONED WELL WAS ACQUIRED FROM MEWBOURNE OIL COMPANY BY NAVAJO REFINING. NAVAJO RECOMPLETED THE WELL FOR INJECTING NON-HAZARDOUS WASTE WATER FROM THEIR REFINERY IN ARTESIA, NM. THE EXISTING PLUGS WERE DRILLED OUT TO THE TOP OF THE LINER PLUG AT 9022' AND THE EXISTING PERFORATIONS WERE SQUEEZED OFF WITH CEMENT AT 7050' TO 7102', 7262' TO 7278', AND FROM 7304' TO 7314'. A 4 1/2" 11.6 #/FT TUBING STRING WAS SET WITH A TENSION PACKER AT 7568' AND BOTTOM OF PACKER AT 7575'. MIT WAS WITNESSED BY OCD.

(SEE ATTACHED WELL SUMMARY FOR MORE DETAILS)

33. Indicate which items have been attached by placing a check in the appropriate boxes:

- Electrical/Mechanical Logs (1 full set req'd)
 Geologic Report
 DST Report
 Directional Survey
 Sundry Notice for plugging and cement verification
 Core Analysis
 Other:

34. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records (see attached instructions)*

Name (please print) Darrell Moore Title Env. Mgr for Water & Waste
 Signature Darrell Moore Date 1/24/07

Title 18 U.S.C Section 1001 and Title 43 U.S.C Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

INSTRUCTIONS

GENERAL: This form is designed for submitting a complete and correct well completion/recompletion report and log on all types of wells on Federal and Indian leases to a Federal agency, pursuant to applicable Federal laws and regulations. Any necessary special instructions concerning the use of this form and the number of copies to be submitted, particularly with regard to local, area, or regional procedures and practices, either are shown below or will be issued by, or may be obtained from, the local Federal office.

If not filed prior to the time this summary record is submitted, copies of all currently available logs (drillers, geologists, sample and core analysis, and all types electric), formation and pressure tests, and directional surveys, should be attached hereto, to the extent required by applicable Federal laws and regulations. All attachments should be listed on this form, see item 33.

ITEM 4: Locations on Federal or Indian land should be described in accordance with Federal requirements. Consult local Federal office for specific instructions.

ITEM 17: Indicate which reported elevation is used as reference (where not otherwise shown) for depth measurements given in other spaces on this form and in any attachments.

ITEM 23: Show how reported top(s) of cement were determined, i.e. circulated (CIR), or calculated (CAL), or cement bond log (CBL), or temperature survey (TS).

PRIVACY ACT

The Privacy Act of 1974 and the regulation in 43 CFR 2.48 (d) provide that you be furnished the following information in connection with information required by this application.

AUTHORITY: 30 U.S.C. 181 et seq., 351 et seq., 25 U.S.C. et seq.; 43 CFR 3160.

PRINCIPAL PURPOSE: The information is to be used to evaluate the actual operations performed in the drilling, completing and testing of a well on a Federal or Indian lease.

ROUTINE USES: (1) Evaluate the equipment and procedures used during the drilling and completing/recompleting of a well. (2) The review of geologic zones and formation encountered during drilling. (3) Analyze future applications to drill in light of data obtained and methods used. (4)(5) Information from the record and/or the record will be transferred to appropriate Federal, State, local or foreign agencies, when relevant to civil, criminal or regulatory investigations or prosecutions.

EFFECT OF NOT PROVIDING INFORMATION: Filing of this report and disclosure of the information is mandatory once a well drilled on a Federal or Indian lease is completed/recompleted.

The Paperwork Reduction Act of 1995 requires us to inform you that:

This information is being collected to allow evaluation of the technical, safety, and environmental factors involved with drilling and completing/recompleting wells on Federal and Indian oil and gas leases.

This information will be used to analyze operations and to compare equipment and procedures actually used with those proposed and approved.

Response to this request is mandatory only if the operator elects to initiate drilling and completing/recompleting operations on an oil and gas lease.

BLM would like you to know that you do not have to respond to this or any other Federal agency-sponsored information collection unless it displays a currently valid OMB control number.

BURDEN HOURS STATEMENT

Public reporting burden for this form is estimated to average 60 minutes per response, including the time for reviewing instructions, gathering and maintaining data, and completing and reviewing the form. Direct comments regarding the burden estimate or any other aspect of this form to U.S. Department of the Interior, Bureau of Land Management (1004-0137), Bureau Information Collection Clearance Officer, (WO-630), MS 401 LS, 1849 C Street, N.W., Washington, D.C. 20240.

Well Summary

Navajo Refining Company (Navajo) contracted Subsurface Technology, Inc. (Subsurface), to prepare an application for permit and to reenter a plugged and abandoned (P&A) oil and gas well. The Application for Permit to Drill or Reenter and the Sundry Notices and Reports on Wells was submitted to the Department of the Interior, Bureau of Land Management (BLM), on June 29, 2006 and approved. The Application for Permit to Drill, Re-enter, Deepen, Plug Back, or add a Zone was submitted to the State of New Mexico Oil Conservation Commission (OCD) on June 29, 2006 and approved.

Subsurface prepared an engineering plan to reenter the P&A'ed oil and gas well formally owned by Mewbourne Oil Company. The original well name was Caulk Bluff Federal #1 (API number 30-015-26575), and a Change of Operator application was submitted to the OCD on December 5, 2000 and approved under the well name of WDW-3. Under contract to Navajo, Subsurface commenced field operations on September 25, 2006. The existing location was cleared and prepared for reentry operations. An earthen lined reserve pit was dug to catch returns. All depths unless stated are referenced to rig floor at six feet to seven feet above ground level. The rig floor was moved from six feet to seven feet after drilling out the cast iron bridge plugs.

A workover rig and reverse unit was placed on location and the existing wellhead was removed. The first cast iron bridge plug (CIBP) at 7010 feet was drilled and the perforated interval from 7050 feet to 7102 feet was squeezed off with neat cement and successfully pressured tested to six hundred eighty pounds per square inch gauge pressure (680 psig). The second and third CIBP at 7190 feet and 7279 feet was drilled. There appeared to be ten feet of cement on top of the third CIBP. The perforated interval from 7262 feet to 7278 feet and from 7304 feet to 7314 feet was squeezed with neat cement. The squeezed interval was pressure tested to 920 psig and would not hold. A second cement squeeze was performed across the perforated interval from 7262 feet to 7278 feet and from 7304 feet to 7314. The interval was pressured tested to 630 psig and continued to lose pressure at a rate of two pounds per square inch every thirty minutes (2 psi/30 min). The fourth CIBP at 7595 feet was drilled and at 7838 feet a cement plug was encountered and drilled through. Cement was tagged twenty nine (29) feet above the top of the liner at 9022 feet. The hole was circulated clean and prepared for logging.

A Cement Bond Log (CBL), Variable Density Log (VDL), caliper log, and temperature survey were performed. The CBL/VDL showed that the top of the cement (TOC) behind the 7-inch casing was located 900 feet from the surface. The OCD was notified and approved the existing well condition. The casing was perforated from 7660 feet to 8450 feet and from 8540 feet to 8620 feet at 2-JSPF on sixty degree (60°) phasing.

A packer was set at 7546 feet with 2 7/8-inch PH-6 tubing, the well was swabbed back and samples of the formation fluid were recovered. It was estimated that two hundred twenty six barrels (226 bbls) of formation fluid was returned to the surface. A pressure test on the annulus between the 7-inch and 2 7/8-inch was performed at 660 psig with the annulus losing pressure at a rate of 8 psi/hr.

An injection test was performed on the well down the 2 7/8-inch tubing with the annulus open to the bottom of the well. The open annulus will allow for the calculation of the bottom hole pressure while pumping down the 2 7/8-inch tubing with out the influence of tubing friction pressure on the bottom hole calculations. The injection rates were from two barrels per minute (2 bpm) to ten barrels per minute (10 bpm). From the data collected during the injection test it appears that the well will be able to accept an injection rate up to 10 bpm at the permitted pressure of 1550 psig with 4 1/2-inch, 11.6 pound per foot (11.6 lb/ft) tubing in the wellbore.

At the request of the OCD, Subsurface went back into the wellbore with a retrievable bridge plug (RBP) to test the casing and isolate any leaks to within 1000 feet. The RBP was set at 7550 feet and the packer was set at 6985 feet to isolate the squeezed interval from 7050 feet to 7314 feet. The squeezed interval was pressure tested to 490 psig and the annulus to 632 psig. The squeezed interval was losing pressure at a rate of 6 psi/hr and the annulus was gaining pressure due to thermal affects. The RBP was moved up the wellbore to 1255 feet and casing pressure tested to 569 psig. The casing above 1255 feet was losing pressure at a rate of 2 psi/hr. The casing leaks were isolated to the squeezed interval from 7050 feet to 7314 feet and in the interval from surface to 1255 feet. The OCD was called and approved the 300PSI sealing application to stop the casing leaks across the two intervals.

The 4 1/2-inch tubing was run into the wellbore and the Arrow X-1 packer was set at 7575.73 feet with 37,000 lbs of tension. Prior to running the 4 1/2-inch tubing a new Superior hanging spool was installed. Prior to setting the tubing packer, the annulus between the 4 1/2-inch tubing and the 7-inch casing was filled with inhibited brine, with the 300psi sealant across the squeezed perforations and across the upper section of the 7-inch casing. Once the packer was set and casing hung off in the spool a new Superior wellhead was installed and the P-seals were pressure tested to 3000 psig. After the wellhead was assembled the annulus was squeezed at 545 psig for four hours (4 hrs) as specified by the sealant manufacture representative on site. The annulus was then pressure tested to 480 psig overnight with no pressure loss. Workover rig was disassembled and moved off location with all associated equipment.

A 12 hr pump in and falloff test was performed down the 4 1/2-inch tubing. To maintain a surface injection pressure that was below the permitted pressure of 1550 psi the injection rate was lowered to 9 bpm at the end of the pump in procedure. The BHP gauge was placed at 8630 feet for 14 hrs to monitor BHP, when the gauge was pulled five minute (5 min) gradient stops were made every 1000 feet with the first stop at 7000 feet. The analysis of the data showed interference from the adjacent injection wells, which skewed the results for determination of the skin and possibly the permeability. The equipment used to perform the falloff testing was moved off location to prepare for mechanical integrity testing (MIT).

The MIT was performed and witnessed by the OCD. The MIT consisted of an annulus pressure test, and a radioactive tracer survey. The temperature survey was performed during the CBL/VDL logging event and will be used as a baseline for any future temperature surveys. The annulus pressure test was performed at 530 psia and lost 2.5 psi over a one hour period, which was within the OCD requirements of five percent (5%)

over a 30 min time interval. The radioactive tracer survey showed no signs of fluid flow out of the permitted interval above 7650 feet. The OCD witnessed the annular pressure test and the first half of the radioactive tracer survey.

The annulus monitoring system was installed and tested. The well was turned over to Navajo for injection.



**LOGGING
SERVICES**

R/A TRACER LOG INTERPRETATION

11/27/2006

**PLANT: NAVAJO REFINING CO.
C/O: SUBSURFACE TECHNOLOGY
WELL NAME: CHALK BLUFF FEDERAL # 1 WDW # 3**

RE: Radioactive Tubing & Packer Survey run on 11/18/2006

A Pre Base Log was run from 9020' to 7350' to detect and record background gamma counts.

Iodine 131 was then ejected at a depth of 7375' and pumped down the tubing and into the permitted interval. Overlapping logging passes tracked the R/A tracer material as it moved down in the wellbore. The R/A material was seen traveling down the tubing, past the packer, and exiting the permitted injection interval.

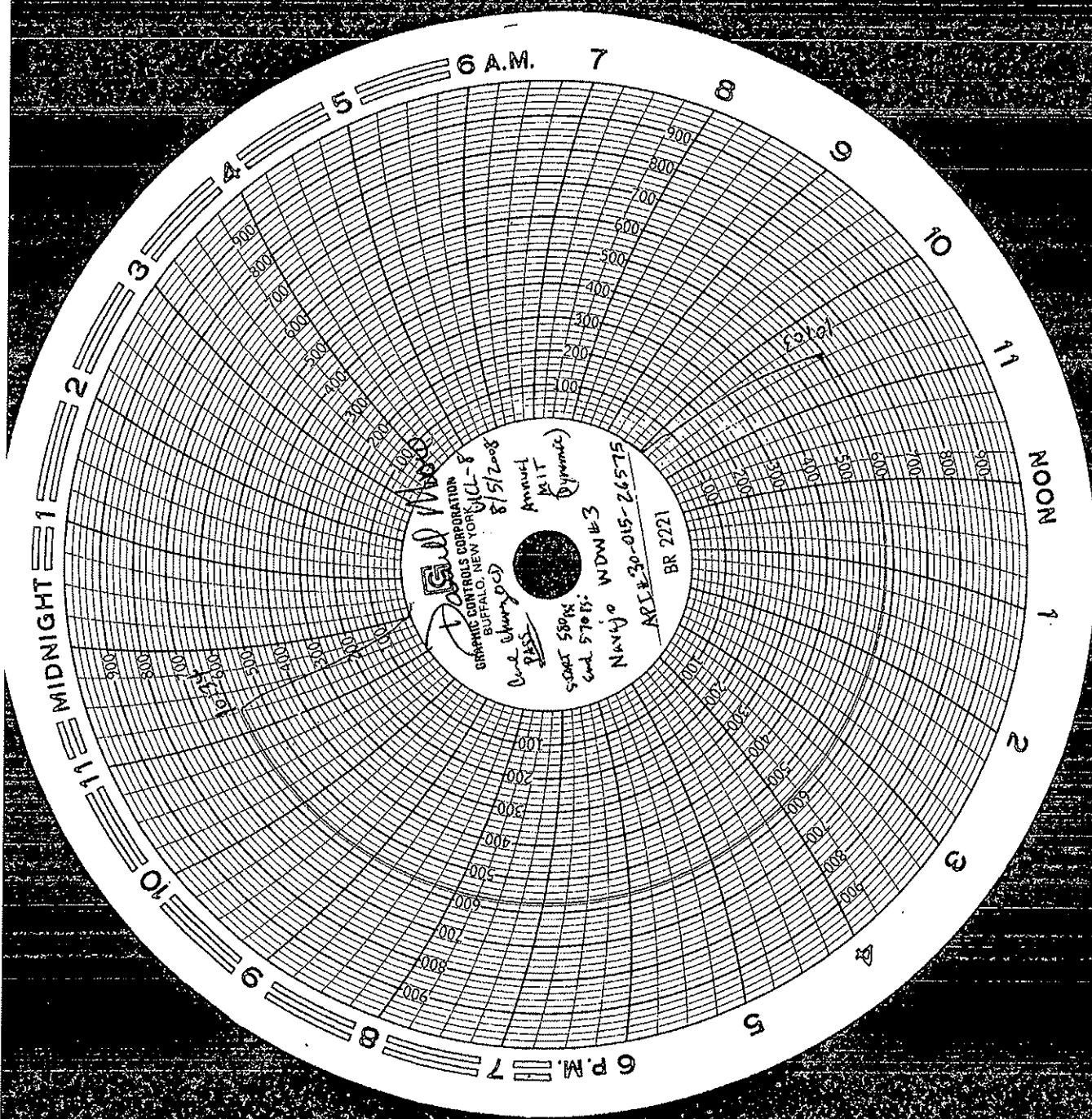
The flow profile log was then repeated and this survey also showed R/A material going out into the permitted interval.

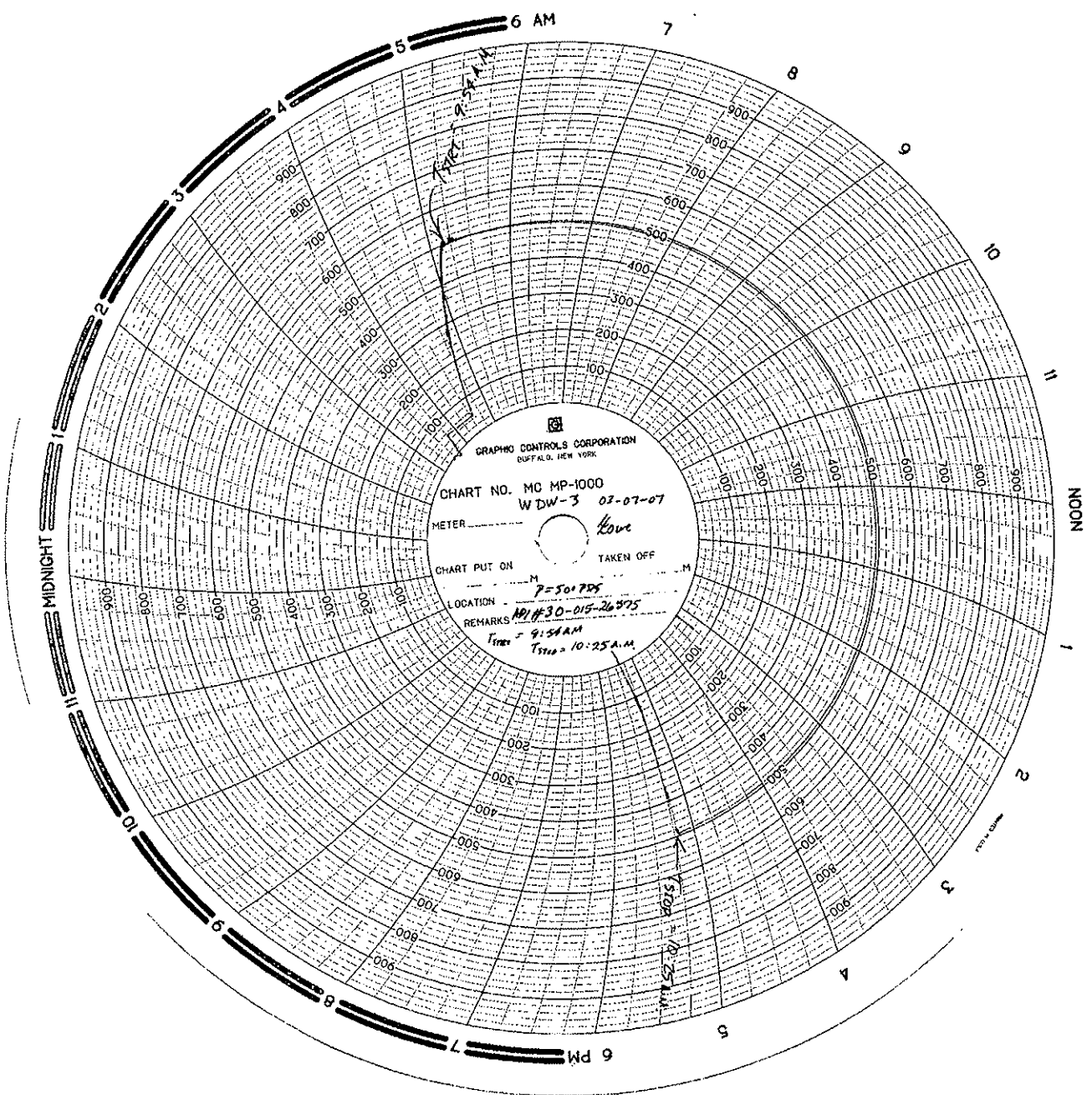
Two Stationary Time Drive surveys were run with the tool at 7640'. No indications of upward migration were recorded.

A Post Base log was then run from 9016' to 7342' and noted that all R/A material was flushed out of the wellbore into the permitted interval.

A handwritten signature in cursive script that reads 'John Croce'.

John Croce





GRAPHIC CONTROLS CORPORATION
BUFFALO, NEW YORK

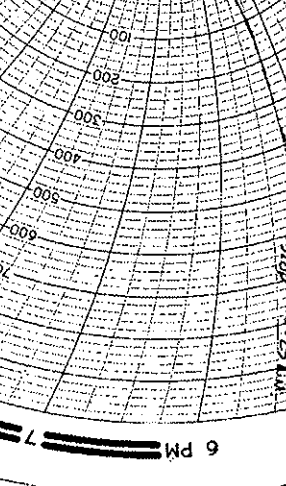
CHART NO. MC MP-1000
WDW-3 03-07-07

METER *Kove*

CHART PUT ON M TAKEN OFF M

LOCATION *P-501 PDS*

REMARKS *MP# 30-015-26575*
T_{start} = 9:54 AM
T_{stop} = 10:25 A.M.



Oil Conservation Division, Environmental Bureau
 C/O: Carl Chavez
 1220 South St. Francis Drive
 Santa Fe, New Mexico 87505

BRADENHEAD TEST REPORT
 (Submit 2 copies to above address)

Date of Test June 30, 2010 Operator Navajo Refining API #30-015-26575
 Property Name WDW Well No. 3 Location: Unit 0 Section 1 Township 18S Range 27E
Injecting
 Well Status (~~Shut-In or Producing~~) Tubing Intermediate Casing Bradenhead

OPEN BRADENHEAD AND INTERMEDIATE TO ATMOSPHERE INDIVIDUALLY FOR 15 MINUTES EACH

TIME	PRESSURES:			BRADENHEAD FLOWED	INTERMEDIATE FLOWED
	BRADENHEAD	INTERMEDIATE	CASING		
5 minutes	0	0		Steady Flow <u>N/A</u>	N/A
10 minutes	N/A	N/A		Surges <u>N/A</u>	N/A
15 minutes	N/A	N/A		Down to Nothing <u>immediately</u>	<u>immediately</u>
20 minutes	N/A	N/A		Nothing <u>X</u>	<u>X</u>
25 minutes	N/A	N/A		Gas <u>N/A</u>	N/A
30 minutes	N/A	N/A		Gas & Water <u>N/A</u>	N/A
				Water <u>N/A</u>	N/A

If bradenhead flowed water, check all of the descriptions that apply below:

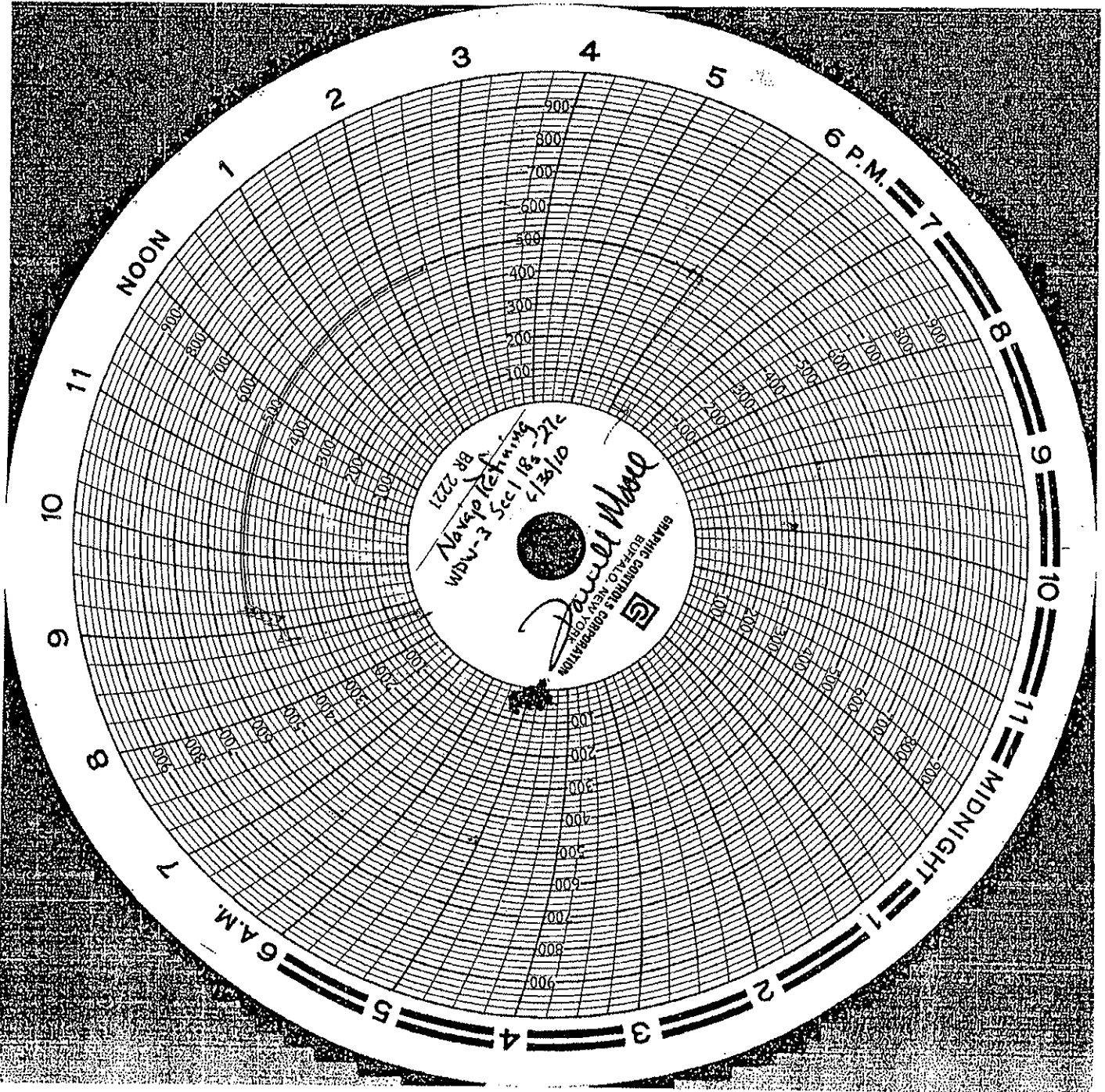
CLEAR FRESH SALTY SULFUR BLACK

5 MINUTE SHUT-IN BRADENHEAD 0 INTERMEDIATE 0

REMARKS:

Both the surface and intermediate bradenheads were opened one at a time. Both
had a puff of air upon opening the valve (from heat build-up) and then nothing.
No flow. No pressure.

By Darrell Moore *Darrell Moore* Witness _____
 Env. Mgr. for Water & Waste Navajo Refining
 (Position)
 E-mail address darrell.moore@hollycorp.com



Chavez, Carl J, EMNRD

From: Moore, Darrell [Darrell.Moore@hollycorp.com]
Sent: Friday, March 05, 2010 8:51 AM
To: Chavez, Carl J, EMNRD
Subject: WDW-3 Qtrl MIT

Carl

Attached, please find the chart for the MIT we did on our WDW-3 on February 24, 2010. We also opened the did a bradenhead test and there was no sustained pressure. There was a slight puff but it dissipated quickly and can be attributed to temperature changes.

If there are any questions concerning this submission, please call me at 575-746-5281.

Darrell Moore

Environmental Manager for Water and Waste

Navajo Refining Company, LLC

Phone Number 575-746-5281

Cell Number 575-703-5058

Fax Number 575-746-5451

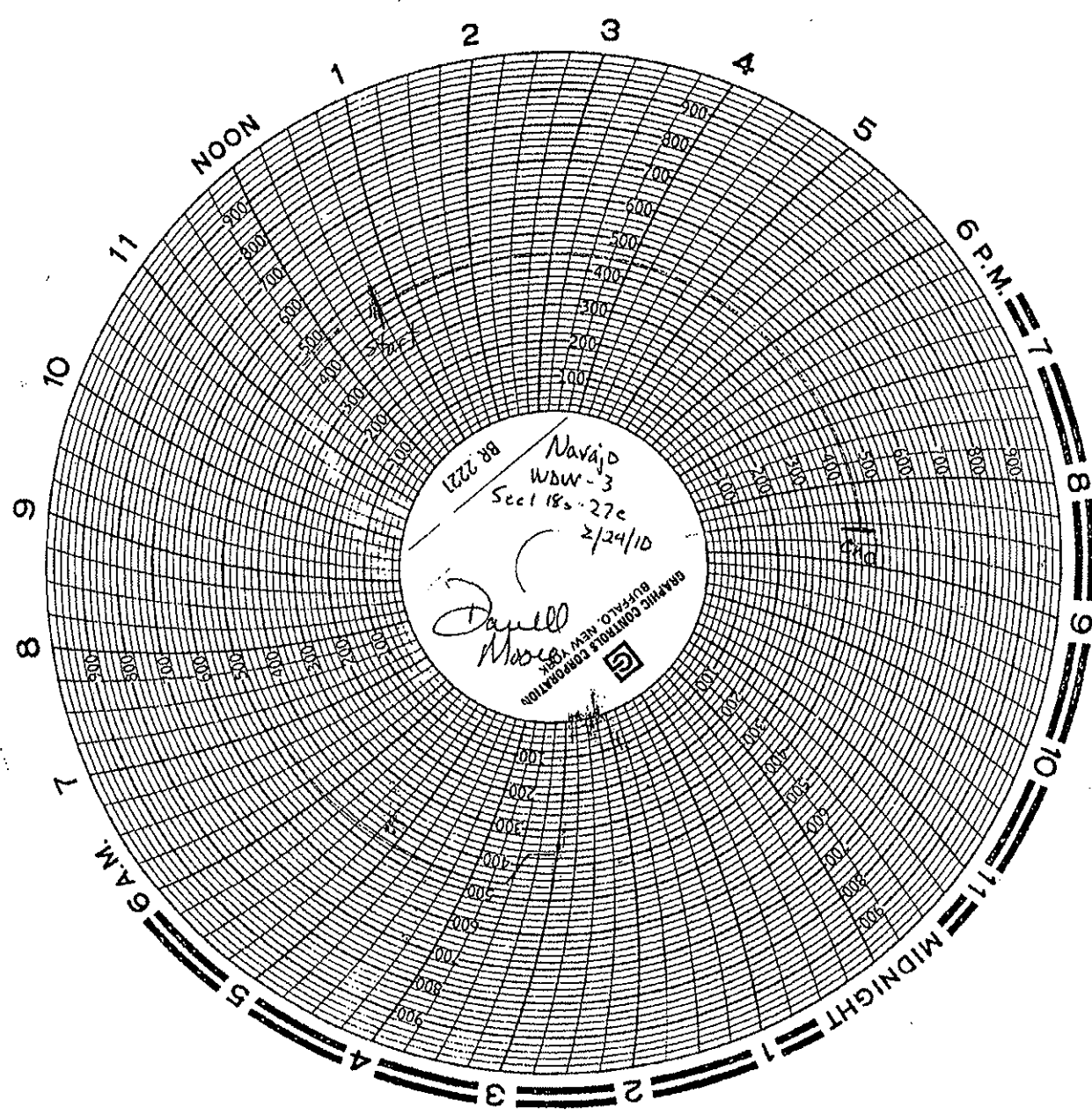
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BR 2221
Navajo
WDW-3
Sect 18s-27e
2/24/10

Deyell
Mason
GRAPHIC CONCEPTS CORPORATION
BUFFALO, NEW YORK

4

Chavez, Carl J, EMNRD

From: Chavez, Carl J, EMNRD
Sent: Tuesday, July 06, 2010 9:04 AM
To: 'Moore, Darrell'
Subject: RE: Sewer Testing

Darrell:

Thanks for the notification.

Also, the OCD needs Navajo to complete the quarterly Bradenhead information on the form provided to you last week for our records. Let me know if you have any questions. Staff in Artesia questioned the 30 minutes in the form, and I determine that Navajo just needs to use the form to document compliance with our quarterly Bradenhead testing requirement for WDW-3. The MITs for Class I Wells need to be completed by 9/30/2010 along with Annual Fall-Off Test. OCD can use the MIT pressure chart for WDW-3 to satisfy the MIT requirement this season.

Please contact me if you have questions. Thanks.

Carl J. Chavez, CHMM
New Mexico Energy, Minerals & Natural Resources Dept.
Oil Conservation Division, Environmental Bureau
1220 South St. Francis Dr., Santa Fe, New Mexico 87505
Office: (505) 476-3490
Fax: (505) 476-3462
E-mail: CarlJ.Chavez@state.nm.us
Website: <http://www.emnrd.state.nm.us/ocd/index.htm>
(Pollution Prevention Guidance is under "Publications")

From: Moore, Darrell [mailto:Darrell.Moore@hollycorp.com]
Sent: Tuesday, July 06, 2010 7:24 AM
To: Chavez, Carl J, EMNRD
Subject: Sewer Testing

Carl

We will be testing sewers in the Vacuum Unit at the Artesia Refinery on Friday July 9, 2010 starting at 8 am. If OCD would like to witness let me know.

Darrell Moore
Environmental Manager for Water and Waste
Navajo Refining Company, LLC
Phone Number 575-746-5281
Cell Number 575-703-5058
Fax Number 575-746-5451

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Oil Conservation Division, Environmental Bureau

C/O: Carl Chavez

1220 South St. Francis Drive

Santa Fe, New Mexico 87505

BRADENHEAD TEST REPORT

(Submit 2 copies to above address)

Date of Test June 30, 2010 Operator Navajo Refining API #30-015-26575

Property Name WDW Well No. 3 Location: Unit 0 Section 1 Township 185 Range 27e
Injecting

Well Status (Shut-In or Producing) Tubing Intermediate Casing Bradenhead

OPEN BRADENHEAD AND INTERMEDIATE TO ATMOSPHERE INDIVIDUALLY FOR 15 MINUTES EACH

TIME	PRESSURES:			BRADENHEAD FLOWED	INTERMEDIATE FLOWED
	BRADENHEAD	INTERMEDIATE	CASING		
5 minutes	0	0		Steady Flow N/A	N/A
10 minutes	N/A	N/A		Surges N/A	N/A
15 minutes	N/A	N/A		Down to Nothing immediately	immediately
20 minutes	N/A	N/A		Nothing X	X
25 minutes	N/A	N/A		Gas N/A	N/A
30 minutes	N/A	N/A		Gas & Water N/A	N/A
				Water N/A	N/A

If bradenhead flowed water, check all of the descriptions that apply below:

CLEAR _____ FRESH _____ SALTY _____ SULFUR _____ BLACK _____

5 MINUTE SHUT-IN BRADENHEAD 0 INTERMEDIATE 0

REMARKS:

Both the surface and intermediate bradenheads were opened one at a time. Both had a puff of air upon opening the valve (from heat build-up) and then nothing. No flow. No pressure.

By Darrell Moore [Signature] Witness

Env. Mgr. for Water & Waste Navajo Refining
(Position)

E-mail address darrell.moore@hollycorp.com

Chavez, Carl J, EMNRD

From: Moore, Darrell [Darrell.Moore@hollycorp.com]
Sent: Wednesday, June 30, 2010 1:47 PM
To: Chavez, Carl J, EMNRD; Dade, Randy, EMNRD
Subject: FW:
Attachments: WDW-3.pdf

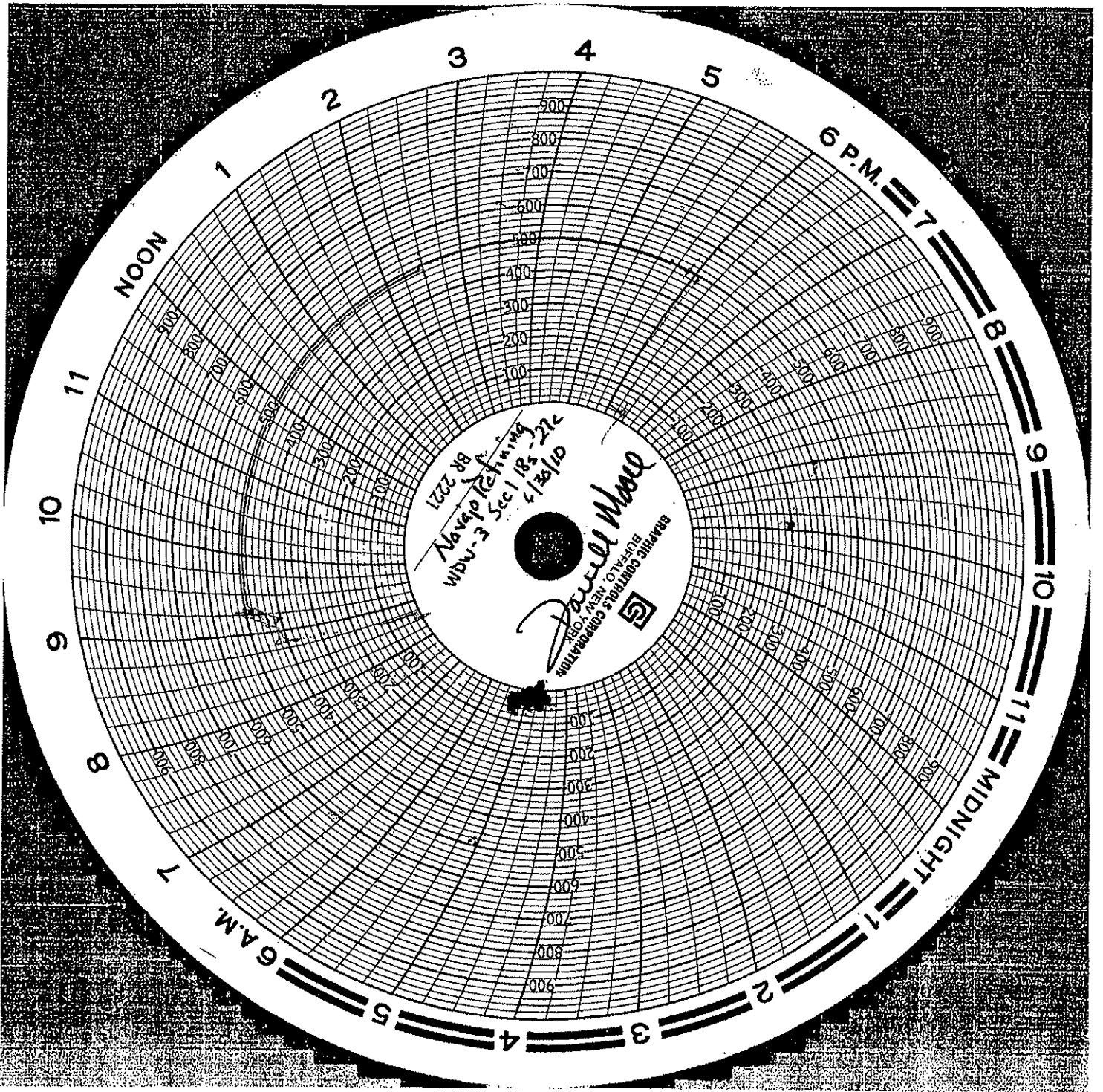
Gentlemen,

Attached, please find the quarterly MIT for Navajo's WDW-3 Injection well located in Sec 1, 18 south 27 east. If there are any questions concerning this submission, please call me at 575-746-5281.

From: Hernandez, Carrie
Sent: Wednesday, June 30, 2010 1:44 PM
To: Moore, Darrell
Subject:

Carrie Hernandez
Environmental Administrative Assistant
Navajo Refining Co, LLC
Direct Line 575-748-6733
Direct Fax 575-746-5451
Life is a Journey. Roll down the Windows and Enjoy the Breeze

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Submit 1 Copy To Appropriate District Office
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 1625 N. French Dr., Hobbs, NM 88240
 District II - (575) 748-1283
 811 S. First St., Artesia, NM 88210
 District III - (505) 334-6178
 1000 Rio Brazos Rd., Aztec, NM 87410
 District IV - (505) 476-3460
 1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
 Energy, Minerals and Natural Resources

Form C-103
 Revised August 1, 2011

OIL CONSERVATION DIVISION
 1220 South St. Francis Dr.
 Santa Fe, NM 87505

SUNDRY NOTICES AND REPORTS ON WELLS (DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO DEEPEN OR PLUG BACK TO A DIFFERENT RESERVOIR. USE "APPLICATION FOR PERMIT" (FORM C-101) FOR SUCH PROPOSALS.)		WELL API NO. 30-015-26575
1. Type of Well: Oil Well <input type="checkbox"/> Gas Well <input type="checkbox"/> Other Injection Well <input type="checkbox"/>		5. Indicate Type of Lease STATE <input checked="" type="checkbox"/> FEE <input type="checkbox"/>
2. Name of Operator Navajo Refining Company		6. State Oil & Gas Lease No. NM-0557371
3. Address of Operator Post Office Box 159, Artesia, New Mexico 88211		7. Lease Name or Unit Agreement Name Gaines WDW-3
4. Well Location Unit Letter <u>N</u> : <u>790</u> feet from the <u>South</u> line and <u>2250</u> feet from the <u>West</u> line Section <u>01</u> Township <u>18S</u> Range <u>27E</u> NMPM County <u>Eddy</u>		8. Well Number WDW-3
11. Elevation (Show whether DR, RKB, RT, GR, etc.) 3609' GL, 'RKB		9. OGRID Number
10. Pool name or Wildcat: Navajo Permo-Penn		10. Pool name or Wildcat: Navajo Permo-Penn

12. Check Appropriate Box to Indicate Nature of Notice, Report or Other Data

NOTICE OF INTENTION TO: PERFORM REMEDIAL WORK <input type="checkbox"/> PLUG AND ABANDON <input type="checkbox"/> TEMPORARILY ABANDON <input type="checkbox"/> CHANGE PLANS <input type="checkbox"/> PULL OR ALTER CASING <input type="checkbox"/> MULTIPLE COMPL <input type="checkbox"/> DOWNHOLE COMMINGLE <input type="checkbox"/> OTHER: PERFORM PRESSURE FALLOFF TEST <input checked="" type="checkbox"/>	SUBSEQUENT REPORT OF: REMEDIAL WORK <input type="checkbox"/> ALTERING CASING <input type="checkbox"/> COMMENCE DRILLING OPNS. <input type="checkbox"/> P AND A <input type="checkbox"/> CASING/CEMENT JOB <input type="checkbox"/> OTHER: <input type="checkbox"/>
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13. Describe proposed or completed operations. (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work). SEE RULE 19.15.7.14 NMAC. For Multiple Completions: Attach wellbore diagram of proposed completion or recompletion.

December 12, 2011 - Install bottomhole gauges into WDW-1, WDW-2, and WDW-3 by 11:45am. Continue injection into all three wells.
December 13, 2011 - Continue injection into all three wells.
December 14, 2011 - At 12:15pm, the offset wells WDW-1 and WDW-2 will be shut-in. A constant injection rate will be established for WDW-3 and continue for a 30 hour injection period. Do not exceed 1000 psig wellhead pressure.
December 15, 2011 - At 7:00pm, WDW-3 will be shut in for a 30-hour falloff period. WDW-1 and WDW-2 will remain shut-in.
December 16, 2011 - All three wells will continue to be shut in while monitoring falloff pressure in all three wells.
December 17, 2011 - At 7:00am, acquire downhole pressure gauges from all three wells. Tag bottom of fill and come out of hole very slowly, making 7-minute gradient stops while coming out of WDW-3 every 1000 feet (7000 ft, 6000 ft, 5000 ft, 4000 ft, 3000 ft, 2000 ft, 1000 ft, surface). Run in hole with a temperature tool and conduct temperature survey from the surface to the top of the fill. Turn the wells back to Navajo personnel.

Spud Date:

Rig Release Date:

I hereby certify that the information above is true and complete to the best of my knowledge and belief.

SIGNATURE Timothy Jones TITLE Project Engineer DATE 10/3/2011
Type or print name Timothy Jones E-mail address: tjones@subsurfacegroup.com PHONE: 713-880-4640
For State Use Only

APPROVED BY: Carl J. Whaley TITLE Environmental Engineer DATE 10/19/2011
Conditions of Approval (if any):

See e-mail conditions dated 10/19/2011 attached to WDW-1.

Chavez, Carl J, EMNRD

From: Chavez, Carl J, EMNRD
Sent: Wednesday, October 19, 2011 4:06 PM
To: 'Moore, Darrell'
Cc: Sanchez, Daniel J., EMNRD; VonGonten, Glenn, EMNRD; Dade, Randy, EMNRD
Subject: Navajo Refining Company UIC Class I (NH) Injection Wells WDWs 1, 2 & 3 (UICI-008) Fall Off Test Plan (August 2011)

Darrell:

The New Mexico Oil Conservation Division (OCD) is in receipt of your above subject test plan. OCD has already approved the Fall-Off Test (FOT) Plan with conditions on July 28, 2009. The OCD notes that it is also in the process of reviewing C-103s Sundry Notices for the upcoming FOTs.

OCD observes some changes in this FOT Plan submittal that are not acceptable to the OCD. For example, Exhibit 1 is not an acceptable exhibit to the OCD for reasons specified in the 2010 FOT report review and later during the May 2011 meeting in Santa Fe. However, the operator continues to submit exhibits with certain assumptions that have not been accepted or approved by the OCD, i.e., that the injection wells are show interconnection with the injection zone during past FOTs. Perhaps the operator can conduct the 2011 FOT with the information and exhibits needed to prove the interconnection of injection wells with the injection zone? The Certified PE should provide the exhibits in the 2011 FOT Report with the analysis and conclusions supporting any claims for the OCD to review and consider before approving. This is apparently a FOT frequency per well issue that the operator is attempting to prove.

The OCD provides the following comments, observations, and/or recommendations on the above subject plan below.

Comments:

- The OCD approved the original Fall-Off Test (FOT) Plan based on OCD Guidance dated December 3, 2007. There should not be any significant changes to this FOT Plan because it is flexible where needed to allow operators to implement it on each injection well.
- OCD likes to be notified to witness the installation of bottom hole gauges and to be present at least one hour before injection shut-off and commencement of FOT monitoring.
- OCD is concerned about the Section VI No. 1(e) WDW-3 Cement Bond Log quality being poor from 900 ft. to 1200 ft- especially at the depths: 2662 – 2160; 4876 – 5372; and 6750 – 7600 ft. micro annulus scenario.

Observations:

- Section V No. 2: The objective of the FOT is NOT to achieve or limit a 100 psig pressure differential before vs. after FOT injection vs. shut-off, but it is a minimum pressure differential that OCD stipulates in its guidance for a successful FOT and injection zone that may still continue to be utilized for disposal, i.e., not too pressured up and subject to continued fracturing under daily allowed maximum surface injection pressure operational limits.
- Section V No. 7 and Exhibit 1: OCD observes a bottom hole pressure chart for WDWs 1, 2 and 3 at 7660 feet that the operator presented in the 2010 FOT and again during a May 2011 meeting in Santa Fe, New Mexico to show the interconnection between injection wells and the injection formation. The OCD had commented that there was no explanation or conclusion provided from the Certified PE who conducted and completed the 2010 FOT report that supports the operator's claim that all injection wells are interconnected based on Exhibit 1.

Furthermore, the OCD requested a statement or information supporting the operator's claim by the Certified PE, but never received one. At the meeting, the OCD explained that based on Exhibit 1, there was no support for the claim. In order to make the interconnection determination, during each FOT at each well and off-set injection wells (WDWs not being FOT'd) before and throughout the FOT would need bottom hole pressures monitored in tandem at each well location to establish the interconnectivity of the injection wells with the receiving injection formation under a uniform time scale. This would be a chart that could be plotted that would show during the test the interconnectivity of the wells for each FOT. The OCD doubts that the operator can make the case for interconnectivity between injection wells and injection formation because of the significant distance between the injection wells and fact that sedimentation in formation varies laterally and uniformity in sedimentation, saturated porosity and permeability due to variation in sedimentation would by chance make the injection formation aerially extensive and uniform over a 3 to 5 mile radius from each injection well. Also, even if by chance there was

uniformity over the mileage specified, the distance between injection wells and corresponding pressure would likely not be observed.

- Exhibit 6: OCD observes in Section B a proposed MIT once every 5 years. OCD's UIC Program requires annual MITs and/or after down hole work is performed on a well.

Recommendations:

- Operator is running survey logs to the bottom of fill or below USDW (fresh water) zones, which excludes an evaluation of casing in the fresh water zone. Please run logs up to surface.
- Be sure to also record and provide injection flow rate and pressure leading up to shut-off and monitoring throughout the FOT monitoring period. OCD needs to confirm that a pseudo steady-state condition was achieved before shut-off. This data is also needed for software modeling of the FOT.
- Please provide electronic data from the FOTs at each well in order for the OCD to run its software model to confirm the results in the report.
- Section V No. 13: Surface pressure monitoring and Horner Plot during injection should be used to confirm radial flow condition is achieved instead of waiting a set period if operator wishes to reduce the injection period.

Disclaimer: *Please be advised that OCD has already approved with conditions Navajo Refining Company's Fall-Off Test (FOT) Plan on July 28, 2009, and is not providing approval of this FOT Plan; however, comments, observations and recommendations herein should help Navajo Refining Company understand the OCD's concerns based on the submittal.*

Please contact me if you have questions. Thank you.

Carl J. Chavez, CHMM
New Mexico Energy, Minerals & Natural Resources Dept.
Oil Conservation Division, Environmental Bureau
1220 South St. Francis Dr., Santa Fe, New Mexico 87505
Office: (505) 476-3490
Fax: (505) 476-3462
E-mail: CarlJ.Chavez@state.nm.us

Website: <http://www.emnrd.state.nm.us/ocd/>

Why not Prevent Pollution; Minimize Waste; Reduce the Cost of Operations; & Move Forward with the Rest of the Nation?" To see how, go to "Pollution Prevention & Waste Minimization" at:

<http://www.emnrd.state.nm.us/ocd/environmental.htm#environmental>)

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 811 S First St, Artesia, NM 88210
 District III - (505) 334-6178
 1000 Rio Brazos Rd, Aztec, NM 87410
 District IV - (505) 476-3460
 1220 S St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
 Energy, Minerals and Natural Resources

Form C-103
 Revised August 1, 2011

OIL CONSERVATION DIVISION
 1220 South St. Francis Dr.
 Santa Fe, NM 87505

SUNDRY NOTICES AND REPORTS ON WELLS (DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO DEEPEN OR PLUG BACK TO A DIFFERENT RESERVOIR USE "APPLICATION FOR PERMIT" (FORM C-101) FOR SUCH PROPOSALS)		WELL API NO. 30-015-26575
1. Type of Well: Oil Well <input type="checkbox"/> Gas Well <input type="checkbox"/> Other Injection Well		5. Indicate Type of Lease STATE <input checked="" type="checkbox"/> FEE <input type="checkbox"/>
2. Name of Operator Navajo Refining Company		6. State Oil & Gas Lease No. NM-0557371
3. Address of Operator Post Office Box 159, Artesia, New Mexico 88211		7. Lease Name or Unit Agreement Name Gaines WDW-3
4. Well Location Unit Letter N ; 790 feet from the South line and 2250 feet from the West line Section 01 Township 18S Range 27E NMPM County Eddy		8. Well Number WDW-3
11. Elevation (Show whether DR, RKB, RT, GR, etc.) 3609' GL, ' RKB		9. OGRID Number
10. Pool name or Wildcat: Navajo Permian		10. Pool name or Wildcat: Navajo Permian

12. Check Appropriate Box to Indicate Nature of Notice, Report or Other Data

NOTICE OF INTENTION TO: PERFORM REMEDIAL WORK <input type="checkbox"/> PLUG AND ABANDON <input type="checkbox"/> TEMPORARILY ABANDON <input type="checkbox"/> CHANGE PLANS <input type="checkbox"/> PULL OR ALTER CASING <input type="checkbox"/> MULTIPLE COMPL <input type="checkbox"/> DOWNHOLE COMMINGLE <input type="checkbox"/> OTHER: PERFORM PRESSURE FALLOFF TEST <input checked="" type="checkbox"/>	SUBSEQUENT REPORT OF: REMEDIAL WORK <input type="checkbox"/> ALTERING CASING <input type="checkbox"/> COMMENCE DRILLING OPNS. <input type="checkbox"/> P AND A <input type="checkbox"/> CASING/CEMENT JOB <input type="checkbox"/> OTHER: <input type="checkbox"/>
--	---

13. Describe proposed or completed operations. (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work). SEE RULE 19.15.7.14 NMAC. For Multiple Completions. Attach wellbore diagram of proposed completion or recompletion.

December 12, 2011 - Install bottomhole gauges into WDW-1, WDW-2, and WDW-3 by 11:45am. Continue injection into all three wells.
December 13, 2011 - Continue injection into all three wells.
December 14, 2011 - At 12:15pm, the offset wells WDW-1 and WDW-2 will be shut-in. A constant injection rate will be established for WDW-3 and continue for a 30 hour injection period. Do not exceed 1000 psig wellhead pressure.
December 15, 2011 - At 7:00pm, WDW-3 will be shut in for a 30-hour falloff period. WDW-1 and WDW-2 will remain shut-in.
December 16, 2011 - All three wells will continue to be shut in while monitoring falloff pressure in all three wells.
December 17, 2011 - At 7:00am, acquire downhole pressure gauges from all three wells. Tag bottom of fill and come out of hole very slowly, making 7-minute gradient stops while coming out of WDW-3 every 1000 feet (7000 ft, 6000 ft, 5000 ft, 4000 ft, 3000 ft, 2000 ft, 1000 ft, surface). Run in hole with a temperature tool and conduct temperature survey from the surface to the top of the fill. Turn the wells back to Navajo personnel.

R. Dade 10/11/11
 Accepted for record
 NMOCD

RECEIVED
 OCT 07 2011
 NMOCD ARTESIA

Spud Date:

Rig Release Date:

I hereby certify that the information above is true and complete to the best of my knowledge and belief.

SIGNATURE Timothy Jones TITLE Project Engineer DATE 10/3/2011
Type or print name Timothy Jones E-mail address: tjones@subsurfacegroup.com PHONE: 713-880-4640
For State Use Only

APPROVED BY: _____ TITLE _____ DATE _____
Conditions of Approval (if any):

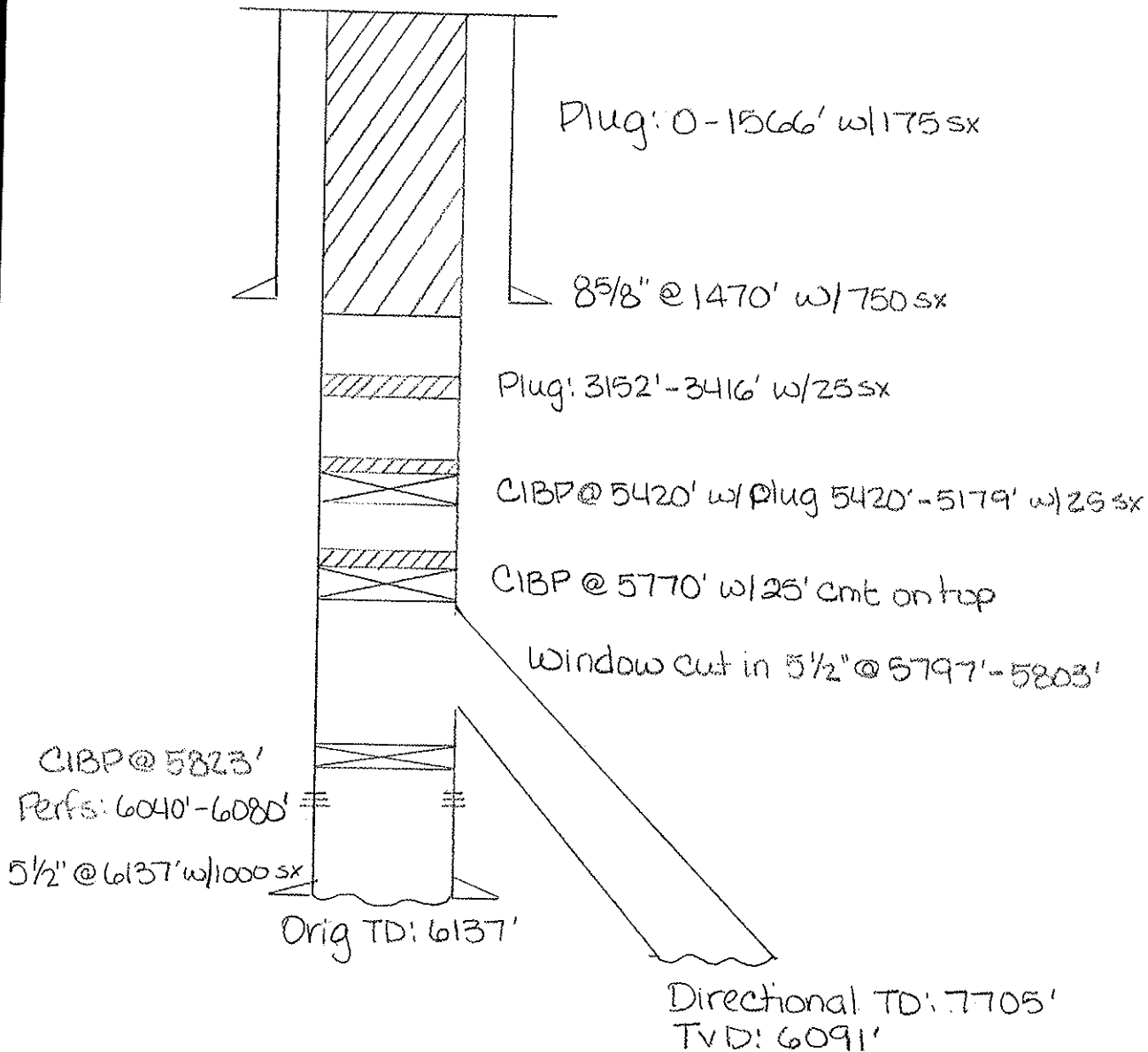
SUBSURFACE

NAVAJO REFINING COMPANY
Map ID No. 90
Artificial Penetration Review

OPERATOR BP America Prod.
LEASE Empire ABO Unit
WELL NUMBER 17A
DRILLED 3-26-59
PLUGGED 12-01-08

STATUS Plugged
LOCATION Sec. 1 -T18S-R27E
MUD FILLED BOREHOLE NA
TOP OF INJECTION ZONE ~7221' Est.
API NO. 30-015-00703

REMARKS:



COPY TO O. C. C.

APPROVED	
*	FEB 18 1959
RICHARD P. EVANS ACTING DISTRICT ENGINEER	

(SUBMIT IN TRIPLICATE)

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

Land Office Las Cruces
Lease No. LCC62412
Unit _____

SUNDRY NOTICES AND REPORTS ON WELLS

1-8F

NOTICE OF INTENTION TO DRILL.....	<input checked="" type="checkbox"/>	SUBSEQUENT REPORT OF WATER SHUT-OFF.....	
NOTICE OF INTENTION TO CHANGE PLANS.....		SUBSEQUENT REPORT OF SHOOTING OR ACIDIZING.....	
NOTICE OF INTENTION TO TEST WATER SHUT-OFF.....		SUBSEQUENT REPORT OF ALTERING CASING.....	
NOTICE OF INTENTION TO RE-DRILL OR REPAIR WELL.....		SUBSEQUENT REPORT OF RE-DRILLING OR REPAIR.....	
NOTICE OF INTENTION TO SHOOT OR ACIDIZE.....		SUBSEQUENT REPORT OF ABANDONMENT.....	
NOTICE OF INTENTION TO PULL OR ALTER CASING.....		SUPPLEMENTARY WELL HISTORY.....	
NOTICE OF INTENTION TO ABANDON WELL.....			

(INDICATE ABOVE BY CHECK MARK NATURE OF REPORT, NOTICE, OR OTHER DATA)

USA MALCO REFINERIES #7*

Water Basin

February 16, 1959

Well No. 1 is located 1980 ft. from S line and 660 ft. from W line of sec. 1

NW/4 SW/4 Section 1 18 - S 27 - E NMPN
(1/4 Sec. and Sec. No.) (Twp.) (Range) (Meridian)
Undesignated Eddy New Mexico
(Field) (County or Subdivision) (State or Territory)

The elevation of the derrick floor above sea level is _____ ft. furnish logs

DETAILS OF WORK

(State names of and expected depths to objective sands; show sizes, weights, and lengths of proposed casings; indicate mudding jobs, cementing points, and all other important proposed work)

We propose to drill the above well with rotary tools to an approximate depth of 6200' to test the Abo. Casing program will be as follows:

<u>Size of Hole</u>	<u>Size of Casing</u>	<u>Depth</u>	<u>Cement</u>
11	8-5/8	950	Circulate 2 1/2 Gal with 100 sacks neat on btm.
7-7/8	5-1/2	6135	150

NOTE: Please insert lease number.

I understand that this plan of work must receive approval in writing by the Geological Survey before operations may be commenced.

Company Pan American Petroleum Corporation

Address Post Office Box 68
Hobbs, New Mexico

By Orlando [Signature]
Title Field Superintendent

NEW MEXICO OIL CONSERVATION COMMISSION
WELL LOCATION AND ACREAGE DEDICATION PLAT

FORM C-128
Revised 5-1-57

SEE INSTRUCTIONS FOR COMPLETING THIS FORM ON THE REVERSE SIDE

SECTION A

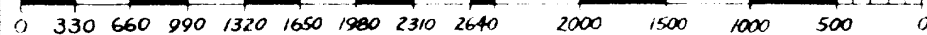
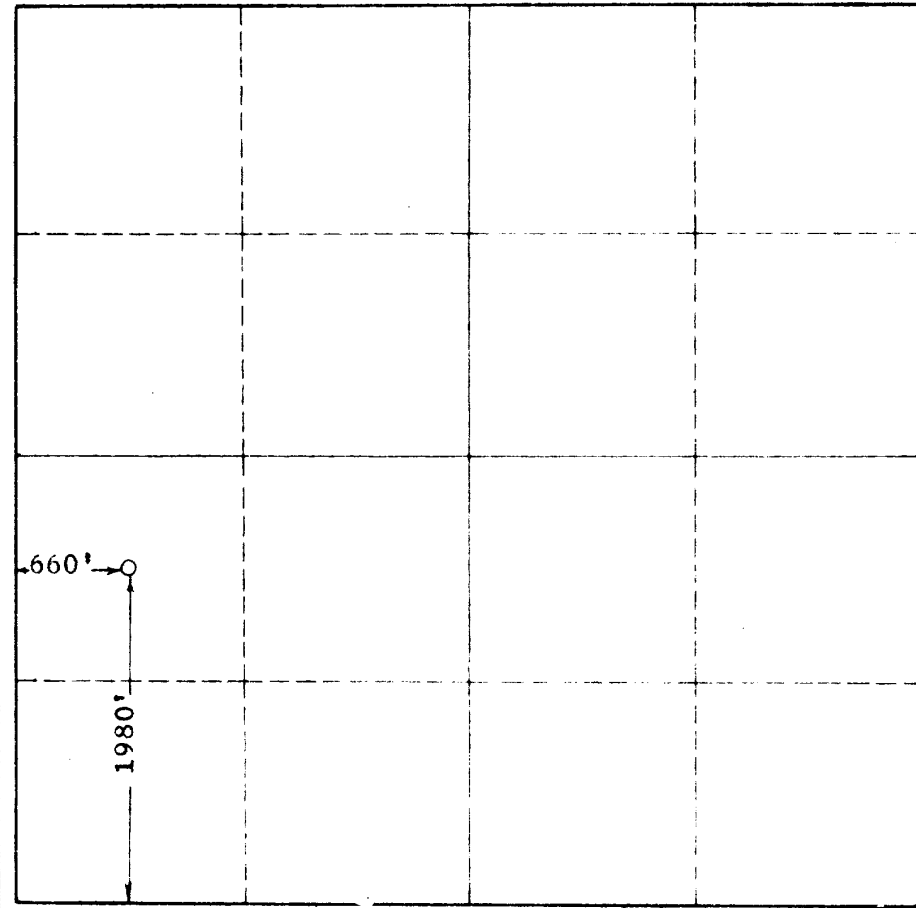
Operator Pan American Pet. Corp.		Lease U.S.A. Malco Refineries F		Well No. 1
Unit Letter L	Section 1	Township 18 S	Range 27 E	County Eddy
Actual Footage Location of Well: 1980 feet from the South line and 660 feet from the West line				
Ground Level Elev. Furnish later	Producing Formation Abo	Pool Empire Abo	Dedicated Acreage: 10 Acres	

1. Is the Operator the only owner in the dedicated acreage outlined on the plat below? YES NO ("Owner" means the person who has the right to drill into and to produce from any pool and to appropriate the production either for himself or for himself and another. (65-3-29 (e) NMSA 1955 Comp.)
2. If the answer to question one is "no," have the interests of all the owners been consolidated by common agreement of all owners? YES NO If answer is "yes," Type of Consolidation _____
3. If the answer to question two is "no," list all the owners and their respective interests below:

RECEIVED
FEB 18 1959
 U. S. GEOLOGICAL SURVEY
 ALBUQUERQUE, NEW MEXICO

Owner	Land Description

SECTION B



CERTIFICATION

I hereby certify that the information in SECTION A above is true and complete to the best of my knowledge and belief.

Name **Original Signed by**
B. W. BROWN

Position
Field Superintendent

Company
Pan American Petroleum Corp.

Date
February 16, 1959

I hereby certify that the well location shown on the plat in SECTION B was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my knowledge and belief.

Date Surveyed
2-10-59

Registered Professional Engineer and/or Land Surveyor, **JOHN W. WEST**

John W. West

Certificate No.
N.M. - P.E. & L.S. NO. 676

JOHN W. WEST ENGINEERING COMPANY

412 NORTH DAL PASO
HOBBS, NEW MEXICO

February 12, 1959

Pan American Pet. Corp.
Hobbs, New Mexico

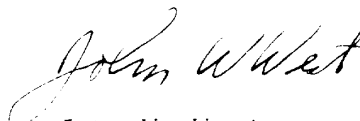
Gentlemen:

On February 10, 1959, a survey was made to locate your U.S.A. Malco Refineries "F" No. 1 well at a point 1980 feet from the South line and 660 feet from the West line of Sec. 1, Township 18 South, Range 27 East, N.M.P.S., Eddy County, New Mexico.

A Flag was set at the USGLO Quarter corner marker common to Sections 1 and 2 and the the Transit was set up at the U.S. G.L.O. Section corner marker common to Sections 1, 2, 11 and 12. Thence chaining North from the Transit on the West line of Section 1 a distance of 1980 feet, thence East 660 feet to the location site of the USA Malco Refineries "F" No. 1 well. As a check on our survey we chained West from the location site 660 feet and thence North 609.5 feet to the USGLO Quarter corner marker common to sections 1 and 2, checking in within 0.6 feet of the distance as shown on the USGLO Township Plats.

I hereby certify that the foregoing survey was made in the field by me and that the same is true and correct to the best of my knowledge and belief.

Respectfully submitted,



John W. West

RECEIVED
FEB 18 1959
U. S. GEOLOGICAL SURVEY
ARTESIA, NEW MEXICO

NM MEXICO OIL CONSERVATION COMMISSION
Santa Fe, New Mexico

(Form C-104)
Revised 7/1/57

REQUEST FOR (OIL) - ~~(GAS)~~/ALLOWABLE

New Well
~~Recompletion~~

This form shall be submitted by the operator before an initial allowable will be assigned to any completed Oil or Gas well. Form C-104 is to be submitted in QUADRUPPLICATE to the same District Office to which Form C-101 was sent. The allowable will be assigned effective 7:00 A.M. on date of completion or recompletion, provided this form is filed during calendar month of completion or recompletion. The completion date shall be that date in the case of an oil well when new oil is delivered into the stock tanks. Gas must be reported on 15.025 psia at 60° Fahrenheit.

Hobbs, New Mexico April 24, 1959
(Place) (Date)

WE ARE HEREBY REQUESTING AN ALLOWABLE FOR A WELL KNOWN AS:

Pan American Petroleum Corp. - Malco Refineries "F", Well No. 1, in. NW 1/4 SW 1/4,
(Company or Operator) (Lease)
L, Sec. 1, T. 18 S, R. 27 E, NMPM., Empire Abo Pool

Unit Letter
Eddy

County. Adair Date Spudded 3-26-59 Date Drilling Completed 4-20-59
Elevation 3581 RDB Total Depth 6137 PBD 6101
Top Oil/Gas Pay 5460 Name of Prod. Form. Abo

Please indicate location:

D	C	B	A
E	F	G	H
L X	K	J	I
M	N	O	P

PRODUCING INTERVAL -

Perforations 6040-6080 with 2 shots per foot
Open Hole - Depth 6137 Casing Shoe 6077 Depth Tubing 6077

OIL WELL TEST -

Natural Prod. Test: _____ bbls. oil, _____ bbls water in _____ hrs, _____ min. Size _____
Test After Acid or ~~Fracture~~ Treatment (after recovery of volume of oil equal to volume of load oil used): 82 bbls. oil, no bbls water in 24 hrs, _____ min. Size 10/64"

GAS WELL TEST -

Natural Prod. Test: _____ MCF/Day; Hours flowed _____ Choke Size _____
Method of Testing (pitot, back pressure, etc.): _____
Test After Acid or Fracture Treatment: _____ MCF/Day; Hours flowed _____
Choke Size _____ Method of Testing: _____

Acid or Fracture Treatment (Give amounts of materials used, such as acid, water, oil, and sand): Acidized with 500 gallons 15% regular
Casing Press. PKR Tubing Press. 725 Date first new oil run to tanks 4-20-59

Oil Transporter Malco Refineries Inc.
Gas Transporter _____

Sec. 1, T-18-S, R-27-E
1980 S - 660 W
Tubing, Casing and Cementing Record

Size	Feet	Sax
<u>8-5/8</u>	<u>1468</u>	<u>750</u>
<u>5-1/2</u>	<u>6167</u>	<u>1000</u>
<u>2-3/8</u>	<u>6077</u>	

Remarks: _____

I hereby certify that the information given above is true and complete to the best of my knowledge.

Approved _____, 19____

PAN AMERICAN PETROLEUM CORPORATION
(Company or Operator) Original Signed by
J. W. BROWN

OIL CONSERVATION COMMISSION

By: M. L. Armstrong
Title _____

By: _____ (Signature)
Title Field Superintendent
Send Communications regarding well to:
Name J. W. Brown
Address Box 68 - Hobbs, New Mexico

NEW MEXICO OIL CONSERVATION COMMISSION
SANTA FE, NEW MEXICO

Form C-110
Revised 7/1/55

(File the original and 4 copies with the appropriate district office)

CERTIFICATE OF COMPLIANCE AND AUTHORIZATION
TO TRANSPORT OIL AND NATURAL GAS

Company or Operator Pan American Petroleum Corporation Lease Malco Refineries "F"

Well No. 1 Unit Letter L S 1 T 18 SR 27 E Pool Undesignated

County Eddy Kind of Lease (State, Fed. or Patented) Federal

If well produces oil or condensate, give location of tanks: Unit F S 1 T 18 SR 27 E

Authorized Transporter of Oil or Condensate Malco Refineries Inc.

Address Box 660 - Roswell, New Mexico
(Give address to which approved copy of this form is to be sent)

Authorized Transporter of Gas _____
Address _____
(Give address to which approved copy of this form is to be sent)

If Gas is not being sold, give reasons and also explain its present disposition:

Vented pending market arrangements.

Reasons for Filing: (Please check proper box) New Well _____ ()

Change in Transporter of (Check One): Oil () Dry Gas () C'head () Condensate ()

Change in Ownership _____ () Other _____ ()

Remarks: _____ (Give explanation below)

Completed as an oil well 4-21-59.

The undersigned certifies that the Rules and Regulations of the Oil Conservation Commission have been complied with.

Executed this the 24th day of April 19 59

Approved _____ 19 _____

By _____
Original Signed By
J. W. BROWN

Title Field Superintendent

OIL CONSERVATION COMMISSION

Company Pan American Petroleum Corporation

By M L Armstrong

Address Box 68

Title _____

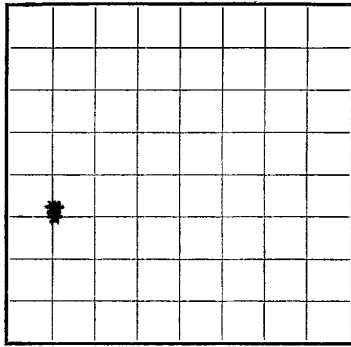
Hobbs, New Mexico

COPY TO O. C. C.

Budget Bureau No. 42-R355.4.
Approval expires 12-31-60.

Form 9-330

U. S. LAND OFFICE **Las Cruces**
SERIAL NUMBER **LC 062412**
LEASE OR PERMIT TO PROSPECT



LOCATE WELL CORRECTLY

APR 23 1959
GEOLOGICAL SURVEY
DEPARTMENT OF THE INTERIOR

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

LOG OF OIL OR GAS WELL

Company **Pan American Petroleum Corp.** Address **Box 68 - Hobbs, New Mexico**
Lessor or Tract **USA Malco Refineries "F"** Field **Empire Abo** State **New Mexico**
Well No. **1** Sec. **1** T. **18S** R. **27E** Meridian **NMPM** County **Eddy**
Location **1980** ft. ^[N.] of **S** Line and **660** ft. ^[E.] of **W** Line of **Section 1** Elevation **3581** RDB
(Denote floor relative to sea level)

The information given herewith is a complete and correct record of the well and all work done thereon so far as can be determined from all available records.
Original Signed by **L. W. BROWN**
Signed _____

Date **April 23, 1959** Title **Field Superintendent**

The summary on this page is for the condition of the well at above date.

Commenced drilling **3-26**, 19 **59** Finished drilling **4-20**, 19 **59**

OIL OR GAS SANDS OR ZONES

(Denote gas by G)

No. 1, from **6040** to **6080** No. 4, from _____ to _____
No. 2, from _____ to _____ No. 5, from _____ to _____
No. 3, from _____ to _____ No. 6, from _____ to _____

IMPORTANT WATER SANDS

No. 1, from _____ to _____ No. 3, from _____ to _____
No. 2, from _____ to _____ No. 4, from _____ to _____

CASING RECORD

Size casing	Weight per foot	Threads per inch	Make	Amount	Kind of shoe	Cut and pulled from	Perforated		Purpose
							From-	To-	
8-5/8	24	8	J-55	1468	Float				Surface
5-1/2	22	8	J-55	667	Float				String

MUDDING AND CEMENTING RECORD

Size casing	Where set	Number sacks of cement	Method used	Mud gravity	Amount of mud used
8-5/8	1470	750	HOWCO		
5-1/2	6137	1000	HOWCO		

PLUGS AND ADAPTERS

Heaving plug—Material _____ Length _____ Depth set _____
Adapters—Material _____ Size _____

SHOOTING RECORD

Size	Shell used	Explosive used	Quantity	Date	Depth shot	Depth cleaned out

TOOLS USED

Rotary tools were used from **200** feet to **6127** feet and from _____ feet to _____ feet

FOLD MARK

Surface _____ feet to _____ feet, and from _____ feet to _____ feet
 Cable tools were used from _____ feet to _____ feet, and from _____ feet to _____ feet

DATES

Completed April 21 19 59 Put to producing April 20, 19 59
 The production for the first 24 hours was 82 barrels of fluid of which 160 was oil; _____ %
 emulsion; _____ % water; and _____ % sediment. Gravity, °Bé. 42°
 If gas well, cu. ft. per 24 hours _____ Gallons gasoline per 1,000 cu. ft. of gas _____
 Rock pressure, lbs. per sq. in. _____

EMPLOYEES

B. J. Wright _____, Driller R. E. Miles _____, Driller
 J. W. Martin _____, Driller W. E. Tadlock _____, Driller

FORMATION RECORD

FROM-	TO-	TOTAL FEET	FORMATION
0	387	387	Red Bed
387	600	213	Red Bed, Anhy.
600	1025	425	Anhy.
1025	1463	438	Anhy., Gyp
1463	1521	58	Anhy., Lime
1521	4809	3288	Lime
4809	4822	13	Lime and Dolomite
4822	4844	22	Dolomite
4844	4911	67	Lime
4911	5557	646	Dolomite, Lime
5557	6137	580	Lime

TOPS

San Andres - 1830
 Glorietta - 3220
 Abo Reef - 5460

[OVER]

16-43094-4

100-10000

UNITED STATES DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

WELL LOG
WELL NO. 100-10000
WELL NAME

Original signed by
J. M. BROWN

Well was drilled to a TD of 6137', perforated 6040'-6080' w/2 shots per foot and acidized with 500 gallons 15% regular acid. On test well flowed 82 BO, no water in 24 hrs., (85.3 MCF) gas on 10/64" choke, PPF 725 GOR 1041

It is of the greatest importance to have a complete history of the well. Please state in detail the dates of redrilling, together with the reasons for the work and its results. If there were any changes made in the casing, state fully, and if any casing was "sidetracked" or left in the well, give its size and location. If the well has been dynamited, give date, size, position, and number of shots. If plugs or bridges were put in to test for water, state kind of material used, position, and results of pumping or balling.

HISTORY OF OIL OR GAS WELL

16-42084-2 U. S. GOVERNMENT PRINTING OFFICE

--	--	--	--

FORMATION	TOTAL FEET	TO-	FROM-
[Faint text describing geological formation details]	[Faint text describing total feet]	[Faint text describing 'TO' column]	[Faint text describing 'FROM' column]

FORMATION RECORD—Continued

NEW MEXICO

OIL CONSERVATION COMMISSION

Post Office Box 2045

Hobbs, New Mexico

May 26, 1959

Pan American Petroleum Corporation
P. O. Box 68
Hobbs, New Mexico

Re: Undesignated Well
Placed in Pool

Gentlemen:

In accordance with the provisions of Commission
Order R-1397, your Malco Refineries "F" No. 1
oil well in Unit L of Section 1, Township 18 South, Range 27
East, which is currently listed in the "Undesignated Section"
of the Proration Schedule, will appear in the Empire-Abo
Pool in the
Schedule.

Please file Form C-110 showing the change in pool
designation of this well with the Artesia office of the Oil
Conservation Commission.

Yours very truly,

OIL CONSERVATION COMMISSION

R. F. Montgomery
Proration Manager

RFM:mg

NEW MEXICO OIL CONSERVATION COMMISSION
SANTA FE, NEW MEXICO

Form C-110
Revised 7/1/55

(File the original and 4 copies with the appropriate district office)

CERTIFICATE OF COMPLIANCE AND AUTHORIZATION
TO TRANSPORT OIL AND NATURAL GAS

DEG

MAY 25 1959

Company or Operator Pan American Petroleum Corporation Lease Malco Refineries "F"

Well No. 1 Unit Letter L S 1 T 18 R 27 Pool Empire Abo

County Eddy Kind of Lease (State, Fed. or Patented) Federal

If well produces oil or condensate, give location of tanks: Unit F S 1 T 18 R 27E

Authorized Transporter of Oil or Condensate Continental Pipe Line Company

Address Box 367, Artesia, New Mexico
(Give address to which approved copy of this form is to be sent)

Authorized Transporter of Gas _____

Address _____
(Give address to which approved copy of this form is to be sent)

If Gas is not being sold, give reasons and also explain its present disposition:

Vented pending market arrangements

Reasons for Filing: (Please check proper box) New Well _____ ()
Change in Transporter of (Check One): Oil () Dry Gas () C'head () Condensate ()

Change in Ownership _____ () Other Change Transporter ()
(Give explanation below)

Remarks:

Filed to change transporter from Malco Refineries Inc. to Continental Pipe Line Company effective May 1, 1959.

The undersigned certifies that the Rules and Regulations of the Oil Conservation Commission have been complied with.

Executed this the 19th day of May 19 59

Original Signed by
L. W. BROWN

By _____

Approved MAY 25 1959 19 _____

Title Area Superintendent

OIL CONSERVATION COMMISSION

Company Pan American Petroleum Corporation

By [Signature]

Address Box 68 - Hobbs, New Mexico

Title Oil and Gas Inspector

NEW MEXICO OIL CONSERVATION COMMISSION
SANTA FE, NEW MEXICO

Form C-110
Revised 7/1/55

(File the original and 4 copies with the appropriate district office)

CERTIFICATE OF COMPLIANCE AND AUTHORIZATION
TO TRANSPORT OIL AND NATURAL GAS

Company or Operator Pan American Petroleum Corporation Lease Malco Refineries "A"

Well No. 1 Unit Letter L S 1 T 18 R 27 Pool Empire Abo

County Eddy Kind of Lease (State, Fed. or Patented) Federal

If well produces oil or condensate, give location of tanks: Unit F S 1 T 18 R 27

Authorized Transporter of Oil or Condensate Continental Pipe Line Company

Address Box 367 Artesia, New Mexico
(Give address to which approved copy of this form is to be sent)

Authorized Transporter of Gas _____

Address _____ Date Connected _____
(Give address to which approved copy of this form is to be sent)

If Gas is not being sold, give reasons and also explain its present disposition:

Vented pending market arrangements.

Reasons for Filing: (Please check proper box) New Well _____ ()

Change in Transporter of (Check One): Oil () Dry Gas () C'head () Condensate ()

Change in Ownership _____ () Other Change Pool Designation (X)
(Give explanation below)

Remarks:

Filed to show pool designation as Empire Abo.

The undersigned certifies that the Rules and Regulations of the Oil Conservation Commission have been complied with.

Executed this the 29th day of May 19 59

Original Signed by
J. W. BROWN

By _____

Approved JAN 8 1959 19 _____

Title Area Superintendent

OIL CONSERVATION COMMISSION

Company Pan American Petroleum Corporation

By W. A. Gressett

Address Box 68

Title _____

Hobbs, New Mexico

OIL CONSERVATION COMMISSION

ADVISORY DISTRICT OFFICE

No. Copies Issued 5

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Comptroller	1	
Santa Fe	1	
Proration Office	1	
State Land Office		
U. S. G. S.		
Transporter	1	
File	1	✓

PAN AMERICAN PETROLEUM CORPORATION

Post Office Box 68
 Hobbs, New Mexico

April 16, 1959

File: JWM-131-986.510.1

Subject: Request for Exemption to
 Rule 111 Deviation Tests,
 USA Maseo Refineries "F"
 No. 1, Empire Abo Field

New Mexico Oil Conservation Commission (2)
 P. O. Box 871
 Santa Fe, New Mexico

Attention: Mr. D. S. Nutter, Chief Engineer

Gentlemen:

This has reference to your conversation with Mr. N. S. Whitmore of Pan American on April 14, 1959, concerning the deviation test requirements of Rule 111. It is our understanding that the Commission may grant exceptions to the requirement for running a directional survey where computation of the deviation surveys periodically run in conjunction with drilling operations indicates the bottom of hole could not conceivably be off the lease.

Currently, Pan American Petroleum Corporation is drilling their joint interest USA Maseo Refineries "F" No. 1 in the Empire Abo Field. This well was staked 1980 feet from the south line and 660 feet from the west line of Section 1, T-18-S, R-27-E, Eddy County, New Mexico. The projected total depth is approximately 6150 feet. At a depth of 4905 feet a deviation test registered $6-1/2^\circ$ which was the first deviation recorded above 5° . Since that depth the deviation has varied between $6-1/4^\circ$ and $6-1/2^\circ$ with the well currently drilling at approximately 5530 feet.

The attached tabulation furnishes the deviation surveys run on the well to date along with a computation of the drift in a continuous direction. The assumption that the drift would remain in a continuous direction was made to analyze the drift under the least desirable condition to determine if the bottom of the hole were possibly approaching a lease line. That drift would be maintained in a continuous straight line is also considered very unlikely to occur under actual drilling conditions.

These data indicate the horizontal drift from the surface to 5500 feet to be approximately 270 feet. Considering the deviation would remain relatively constant for the remaining 650 feet to be drilled, the maximum anticipated horizontal drift would approach 343 feet. Thus it is indicated that deviations to total depth of the magnitude currently encountered would not place the bottom of the well near a lease line for this 660 foot location.

COPY

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1954-1955

It is therefore respectfully requested that Pan American Petroleum Corporation be granted an exception to Rule 111 for running a directional survey on their USA Maleso Refineries "F" No. 1. Your early consideration of this request will be sincerely appreciated as it is anticipated that drilling operations will be completed by April 18, 1959.

Yours very truly,

PAN AMERICAN PETROLEUM CORPORATION

J. W. Brown
Field Superintendent

By: J. W. Mack

cc: Mr. M. L. Armstrong
New Mexico Oil Conservation Commission
Artesia, New Mexico

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DEVIATION SURVEYS
USA MALCO REFINERIES "F" NO. 1

<u>Depth Toteo Ban</u>	<u>Interval Between Toteos</u>	<u>Drift Indicated By Toteo</u>	<u>Horizontal Drift Over Interval</u>	<u>Cumulative Horizontal Drift</u>
500'	500'	3/4°	6.55'	6.55'
970'	470'	3/4°	6.15'	12.70'
1350'	380'	3/4°	4.97'	17.67'
1850'	500'	1-3/4°	15.27'	32.94'
2050'	200'	2°	6.98'	39.92'
2380'	330'	1-1/2°	8.64'	48.56'
2970'	590'	1-3/4°	18.02'	66.58'
3410'	440'	2-3/4°	21.11'	87.69'
3745'	335'	3-1/2°	20.45'	108.14'
4050'	305'	3-1/2°	18.62'	126.76'
4350'	300'	4-1/2°	23.45'	150.21'
4555'	205'	4-3/4°	16.98'	167.19'
4650'	95'	4-3/4°	7.87'	175.06'
4805'	155'	6-1/2°	17.55'	192.61'
4990'	185'	6-1/2°	20.94'	213.55'
5115'	125'	6-1/4°	13.61'	227.16'
5245'	130'	6-1/4°	14.15'	241.31'
5380'	135'	6-1/2°	15.28'	256.59'
5500'	120'	6-1/2°	13.58'	270.17'

REVENUE RECEIPTS
STATE OF TEXAS

<u>DATE RECEIVED</u>	<u>AMOUNT RECEIVED</u>	<u>TYPE OF RECEIPT</u>	<u>REVENUE ACCOUNT</u>	<u>STATE FUND</u>
1911.01	100.00	9000	1000	1000
1911.02	100.00	9000	1000	1000
1911.03	100.00	9000	1000	1000
1911.04	100.00	9000	1000	1000
1911.05	100.00	9000	1000	1000
1911.06	100.00	9000	1000	1000
1911.07	100.00	9000	1000	1000
1911.08	100.00	9000	1000	1000
1911.09	100.00	9000	1000	1000
1911.10	100.00	9000	1000	1000
1911.11	100.00	9000	1000	1000
1911.12	100.00	9000	1000	1000
1911.01	100.00	9000	1000	1000
1911.02	100.00	9000	1000	1000
1911.03	100.00	9000	1000	1000
1911.04	100.00	9000	1000	1000
1911.05	100.00	9000	1000	1000
1911.06	100.00	9000	1000	1000
1911.07	100.00	9000	1000	1000
1911.08	100.00	9000	1000	1000
1911.09	100.00	9000	1000	1000
1911.10	100.00	9000	1000	1000
1911.11	100.00	9000	1000	1000
1911.12	100.00	9000	1000	1000

OIL CONSERVATION COMMISSION
P. O. BOX 871
SANTA FE, NEW MEXICO

April 20, 1959

Pan American Petroleum Corporation
P. O. Box 68
Hobbs, New Mexico

Attention: J. W. Brown

Re: Request for Exception to Rule
111 Deviation Tests, USA Malco
Refineries "F" No. 1, Empire-
Abo Pool.

Gentlemen:

Reference is made to your letter of April 16, 1959, concern-
ing the above-captioned subject.

Inasmuch as the deviation survey which you have run establishes
conclusively that the USA Malco Refineries "F" No. 1 Well will
be bottomed on the lease where it is located, it is my opinion
that the requirements of Rule 111 have been fully complied with.

Accordingly a hearing on this matter is unnecessary.

Very truly yours,

A. L. PORTER, Jr.,
Secretary-Director

ALP/OEP/ir

cc: ✓ Mr. M. L. Armstrong
Oil Conservation Commission
Artesia, New Mexico

C
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P
Y

OLD CONSERVATION COMMISSION
170 South
SANTA FE, NEW MEXICO

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NEW MEXICO OIL CONSERVATION COMMISSION
SANTA FE, NEW MEXICO

Form C-110
Revised 7/1/55

(File the original and 4 copies with the appropriate district office)

CERTIFICATE OF COMPLIANCE AND AUTHORIZATION
TO TRANSPORT OIL AND NATURAL GAS

Company or Operator Pan American Petroleum Corporation Lease Malco Refineries F

Well No. 1 Unit Letter L S 1 T 18 R 27 Pool Empire Abo

County Eddy Kind of Lease (State, Fed. or Patented) Federal

If well produces oil or condensate, give location of tanks: Unit F S 1 T 18 R 27

Authorized Transporter of Oil or Condensate McWood Corp. (Trucks)

Address 330 Petroleum Building Abilene, Texas
(Give address to which approved copy of this form is to be sent)

Authorized Transporter of Gas _____

Address _____
(Give address to which approved copy of this form is to be sent)

If Gas is not being sold, give reasons and also explain its present disposition:

Vented pending market arrangements

Reasons for Filing: (Please check proper box) New Well _____ ()

Change in Transporter of (Check One): Oil () Dry Gas () C'head () Condensate ()

Change in Ownership _____ () Other Change Transporter (X)
(Give explanation below)

Remarks:

Filed to change Transporter from Continental Pipe Line Co. to McWood Corp. (Trucks)

The undersigned certifies that the Rules and Regulations of the Oil Conservation Commission have been complied with.

Executed this the 29 day of May 19 59

Original Signed by
J. W. BROWN

By _____

Approved J. W. BROWN 19 _____

Title Area Superintendent

OIL CONSERVATION COMMISSION

Company PAPC

By M. J. Armstrong

Address Box 68

Title _____

Hobbs, New Mexico

OIL CONSERVATION COMMISSION		
ARTESIA DISTRICT OFFICE		
No. Copies Received <input type="checkbox"/>		
DISTRIBUTION		
	NO.	
	FURNISHED	
Producers		
State Land Office		
U. S. G. S.		
Transporter		
File		

NEW MEXICO OIL CONSERVATION COMMISSION
SANTA FE, NEW MEXICO

Form C-110
Revised 7/1/55

(File the original and 4 copies with the appropriate district office)

CERTIFICATE OF COMPLIANCE AND AUTHORIZATION
TO TRANSPORT OIL AND NATURAL GAS

SEP 9 1959

Company or Operator Pan American Petroleum Corporation Lease USA Mace Refineries P
Well No. 1 Unit Letter L S 1 T 188 R 27E Pool Empire Abo
County Eddy Kind of Lease (State, Fed. or Patented) Federal
If well produces oil or condensate, give location of tanks: Unit P S 1 T 188 R 27E
Authorized Transporter of Oil or Condensate Service Pipe Line Co., Box 337, Midland, Texas

Address _____
(Give address to which approved copy of this form is to be sent)

Authorized Transporter of Gas Gas Vented

Address _____ Date Connected _____
(Give address to which approved copy of this form is to be sent)

If Gas is not being sold, give reasons and also explain its present disposition:

Gas Flared

Reasons for Filing: (Please check proper box) New Well _____ ()

Change in Transporter of (Check One): Oil Dry Gas () C'head () Condensate ()

Change in Ownership _____ () Other _____ ()

Remarks: _____ (Give explanation below)

Change in transporter from McWood Corporation (Trucks) to Service Pipe Line Co., effective 9-10-59

The undersigned certifies that the Rules and Regulations of the Oil Conservation Commission have been complied with.

Executed this the 8 day of September 19 59

By _____
Original Signed by
J. W. BROWN

Approved SEP 10 1959 19 _____

Title Area Superintendent

OIL CONSERVATION COMMISSION

Company Pan American Petroleum Corporation

By M. L. Armstrong

Address Box 68 - Hobbs, NM

Title _____

[Faint, illegible text, possibly a header or title area]

[Faint, illegible text]

OIL CONSERVATION COMMISSION	
ARTESIA DISTRICT OFFICE	
No. Copies Received	3
DATE	
RECEIVED FOR	
BY	
PROJECT	
STATE	
U. S. G.	
WORK NUMBER	
FIELD OF MINES	✓

NEW MEXICO OIL CONSERVATION COMMISSION
SANTA FE, NEW MEXICO

Form C-110
Revised 7/1/55

(File the original and 4 copies with the appropriate district office)

RECEIVED

NAME CHANGED:
FROM: PAN AMERICAN PETROLEUM CORPORATION
TO: AMOCO PRODUCTION CO.
EFFECTIVE: 2-1-71

SEP 19 1960

O. C. C.
ARTESIA, OFFICE

Company or Operator Pan American Petroleum Corporation Lease Amoco 17 Federal

Well No. 1 Unit Letter L S 1 T 123 R 27E Pool Empire Abs

County Eddy Kind of Lease (State, Fed. or Patented) Federal

If well produces oil or condensate, give location of tanks: Unit F S 1 T 123 R 27E

Authorized Transporter of Oil or Condensate Amoco Pipeline Co. Eff. 4/1/70 name change from

Address 3411 Knoxville Avenue Lubbock, Texas 79413 Service to Amoco Pipeline Co.

(Give address to which approved copy of this form is to be sent)

Authorized Transporter of Gas Empire Abs Gasoline Plant

Address Pan American Petr. Corp., Box 68, Hobbs, N.M. Date Connected 9-3-60

(Give address to which approved copy of this form is to be sent)

If Gas is not being sold, give reasons and also explain its present disposition:

Effective 2-1-71

Gas Transporter Name Changed:

From: Pan American Petroleum Corp.

To: Amoco Production Co.

Reasons for Filing: (Please check proper box) New Well ()

Change in Transporter of (Check One): Oil () Dry Gas () C'head (x) Condensate ()

Change in Ownership () Other ()

Remarks: (Give explanation below)

The undersigned certifies that the Rules and Regulations of the Oil Conservation Commission have been complied with.

Executed this the 14th day of September 19 60

Original Signed by
By J. W. BROWN

Approved SEP 15 1960 19 60

Title Area Superintendent

OIL CONSERVATION COMMISSION

Company Pan American Petroleum Corporation

By M. Armstrong

Address Box 68

Title Area Superintendent

Hobbs, New Mexico

OIL CONSERVATION COMMISSION
ARTESIA DISTRICT OFFICE

No. Copies Received 5

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SERIALIZED	
INDEXED	
FILED	
RECORDED	
FILE	
REVIEW OF MATRIS	

NEW MEXICO
OIL CONSERVATION COMMISSION
P. O. DRAWER DD
ARTESIA, NEW MEXICO

March, 1968

No. A 1

SUPPLEMENT TO THE OIL PRORATION SCHEDULE

DATE 3/1/68

PURPOSE: ALLOWABLE ASSIGNMENT (BACK ALLOWABLE)

Effective 3/1/68, back allowable is hereby assigned to the following
Pan American Petr. Corp. wells in the Empire Abo Pool in accordance
with Commission Order No. A-220.

Malco F Lease

#1-L, 1-18-27,	18 bbls total
#2-E, "	, 18 bbls total
#3-M, "	, 18 bbls total
#4-F, "	, 15 bbls total
#5-K, "	, 16 bbls total
#6-B, "	, 18 bbls total
#7-G, "	, 18 bbls total
#8-C, "	, 18 bbls total
#9-H, "	, 18 bbls total
#11-A, "	, 18 bbls total
#12-N, "	, 18 bbls total

Malco R Lease

#10-D, 1-18-27, 18 bbls total

NAME CHANGED:
FROM: PAN AMERICAN PETR. CORP.
TO: AMOCO PRODUCTION CO.
EFFECTIVE: 2-1-71

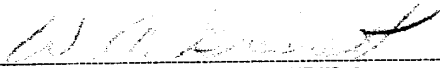
WAG/jw

Pan Am. Petr. Corp.

Service

Amoco 4-1-70

OIL CONSERVATION COMMISSION


SUPERVISOR, DISTRICT NO. 2

EXTRA COPY

RECEIVED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUBMIT IN TRICATE*
(Other instructions on re-
verse side)

Form approved.
Budget Bureau No. 42-R1424.

5. LEASE DESIGNATION AND SERIAL NO.

LC 062412

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME

MALCO "F" Federal

9. WELL NO.

10. FIELD AND POOL, OR WILDCAT

EMPIRE A80

11. SEC., T., R., M., OR BLM. AND SURVEY OR AREA

1-18-27 NMDPM

12. COUNTY OR PARISH

EDDY

13. STATE

NM

MAY 15 1972

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir.
APPLICATION FOR PERMIT--" for such proposals.)

1. ARTESIA, OFFICE

OIL WELL GAS WELL OTHER

2. NAME OF OPERATOR
Amoco Production Company

3. ADDRESS OF OPERATOR
BOX 68, HOBBS, N. M. 88240

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.*
See also space 17 below.)
At surface

1980' FSL x 660' FWL Sec 1 (Unit 4, NW/4 SW/4)

14. PERMIT NO.

15. ELEVATIONS (Show whether DF, RT, GR, etc.)

3581' R.D.B.

16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:

TEST WATER SHUT-OFF

FRACTURE TREAT

SHOOT OR ACIDIZE

REPAIR WELL

(Other)

PULL OR ALTER CASING

MULTIPLE COMPLETE

ABANDON*

CHANGE PLANS

SUBSEQUENT REPORT OF:

WATER SHUT-OFF

FRACTURE TREATMENT

SHOOTING OR ACIDIZING

(Other)

REPAIRING WELL

ALTERING CASING

ABANDONMENT*

(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log Form.)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

In an effort to increase productivity propose to acidize perforations 6040-6080' w/ 2500 gal 15% NE. Evaluate and restore to production.

latest flow test 4-20-72, 102 BO+ OBW 24 hrs. GOR 961.

TD-6137
PBD-6101

5 1/2" CSA 6137 - Cmt Circ.

PERFS: 6040-80' w/2USPF.

18. I hereby certify that the foregoing is true and correct

SIGNED

AREA SUPERINTENDENT

TITLE

DATE

MAY 8 1972

(This space for Federal or State use)

APPROVED BY

TITLE

DATE

APPROVED
MAY 12 1972
R. L. BECKMAN
ACTING DISTRICT ENGINEER

- 014- USGS- Art
- 1- Div
- 1- SUSP
- 1- RRY
- 1- HONDO

*See Instructions on Reverse Side

RECEIVED
MAY 24 1972

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUBMIT IN THIS LOCATION*
(Other instructions on reverse side)

Form approved.
Budget Bureau No. 42-R1424.

5. LEASE DESIGNATION AND SERIAL NO.

NM-0557371

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

SUNDRY NOTICES AND REPORTS ON WELLS
(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir.
See also space 17 below.)
APPLICATION FOR PERMIT— for such proposals.)

1. OIL WELL WATER WELL OTHER

7. UNIT AGREEMENT NAME

2. NAME OF OPERATOR
Amoco Production Company

8. FARM OR LEASE NAME
MARCO "F" Federal

3. ADDRESS OF OPERATOR
BOX 69, HOBBS, N. M. 88240

9. WELL NO.

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.*
See also space 17 below.)
At surface

10. FIELD AND POOL, OR WILDCAT

EMPIRE Acs

1980' Fsk x 660' Fwh Sec 1 (Unit L, NW/4 SW/4)

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA

1-18-27 NMPM

14. PERMIT NO.

15. ELEVATIONS (Show whether DF, RT, GR, etc.)

3581' R.D.B.

12. COUNTY OR PARISH; 13. STATE

EDDY NM

16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:

TEST WATER SHUT-OFF	<input type="checkbox"/>	PULL OR ALTER CASING	<input type="checkbox"/>
FRACTURE TREAT	<input type="checkbox"/>	MULTIPLE COMPLETE	<input type="checkbox"/>
SHOOT OR ACIDIZE	<input type="checkbox"/>	ABANDON*	<input type="checkbox"/>
REPAIR WELL	<input type="checkbox"/>	CHANGE PLANS	<input type="checkbox"/>
(Other)	<input type="checkbox"/>		

SUBSEQUENT REPORT OF:

WATER SHUT-OFF	<input type="checkbox"/>	REPAIRING WELL	<input type="checkbox"/>
FRACTURE TREATMENT	<input type="checkbox"/>	ALTERING CASING	<input type="checkbox"/>
SHOOTING OR ACIDIZING	<input checked="" type="checkbox"/>	ABANDONMENT*	<input type="checkbox"/>
(Other)	<input type="checkbox"/>		

(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

Perforations 6040-80' were acidized w/ 2500 gal 15% HF acid. Evaluated & restored to prod

Prior - Flow 102 BO +0 BW 24 hrs. GOR 961
After - Flow 152 BO +0 " " " GOR 691

RECEIVED

MAY 19 1972

U. S. GEOLOGICAL SURVEY
ARTESIA, NEW MEXICO

18. I hereby certify that the foregoing is true and correct

SIGNED _____

TITLE AREA SUPERINTENDENT

DATE MAY 17 1972

(This space for Federal or State office use)

APPROVED BY _____
CONDITIONS OF APPROVAL, IF ANY:

TITLE _____

DATE _____

0+4- USGS-ART
1- DIV
1- SUSP
1- HONDU

APPROVED
MAY 23 1972
M. L. BEEKMAN
ACTING DISTRICT ENGINEER

*See Instructions on Reverse Side

REQUEST FOR ALLOWABLE
AND
AUTHORIZATION TO TRANSPORT OIL AND NATURAL GAS

RECEIVED

SEP 26 1973

STATE	1
FILE	1
S.C.S.	
FIELD OFFICE	
TRANSPORTER	OIL 1 GAS 1
OPERATOR	1
REGISTRATION OFFICE	

Operator
Atlantic Richfield Company /

O. C. C.
ARTESIA, OFFICE

Address
P. O. Box 1710, Hobbs, New Mexico 88240

Reason(s) for filing (Check proper box)
 New Well Change in Transporter of:
 Recompletion Oil Dry Gas
 Change in Ownership Casinghead Gas Condensate

Other (Please explain) **Included in Empire Abo Unit eff: 10-1-73. Change in lease name from MALCO F Federal #1.**

If change of ownership give name and address of previous owner
AMOCO Production Company P. O. Box 68, Hobbs, New Mexico

II. DESCRIPTION OF WELL AND LEASE

Lease Name Empire Abo Unit K	Well No. 17	Pool Name, Including Formation Empire Abo	Kind of Lease State, Federal or Fee Federal	Lease No.
Location Unit Letter L , 1980 Feet From The South Line and 660 Feet From The West				
Line of Section 1 Township 18S Range 27E , NMPM, Eddy County				

III. DESIGNATION OF TRANSPORTER OF OIL AND NATURAL GAS

Name of Authorized Transporter of Oil <input checked="" type="checkbox"/> or Condensate <input type="checkbox"/> AMOCO Pipe Line Company	Address (Give address to which approved copy of this form is to be sent) 2300 Continental Bk. Bldg., Ft. Worth, Tex. 76102	
Name of Authorized Transporter of Casinghead Gas <input checked="" type="checkbox"/> or Dry Gas <input type="checkbox"/> AMOCO Production Company	Address (Give address to which approved copy of this form is to be sent) P. O. Box 68, Hobbs, New Mexico 88240	
If well produces oil or liquids, give location of tanks.	Unit F Sec. 1 Twp. 18S Rng. 27E	Is gas actually connected? yes When 9-3-60

If this production is commingled with that from any other lease or pool, give commingling order number:

IV. COMPLETION DATA

Designate Type of Completion - (X)	Oil Well	Gas Well	New Well	Workover	Deepen	Plug Back	Same Res'v.	Diff. Res'v.
Date Spudded	Date Compl. Ready to Prod.		Total Depth			P.B.T.D.		
Elevations (DF, RKB, RT, GR, etc.)	Name of Producing Formation		Top Oil/Gas Pay			Tubing Depth		
Perforations								
TUBING, CASING, AND CEMENTING RECORD								
HOLE SIZE	CASING & TUBING SIZE		DEPTH SET			SACKS CEMENT		

V. TEST DATA AND REQUEST FOR ALLOWABLE OIL WELL (Test must be after recovery of total volume of load oil and must be equal to or exceed top allow able for this depth or be for full 24 hours)

Date First New Oil Run To Tanks	Date of Test	Producing Method (Flow, pump, gas lift, etc.)	
Length of Test	Tubing Pressure	Casing Pressure	Choke Size
Actual Prod. During Test	Oil - Bbls.	Water - Bbls.	Gas - MCF

GAS WELL

Actual Prod. Test-MCF/D	Length of Test	Bbls. Condensate/MMCF	Gravity of Condensate
Testing Method (pitot, back pr.)	Tubing Pressure (Shot-in)	Casing Pressure (Shot-in)	Choke Size

VI. CERTIFICATE OF COMPLIANCE

I hereby certify that the rules and regulations of the Oil Conservation Commission have been complied with and that the information given above is true and complete to the best of my knowledge and belief.

OIL CONSERVATION COMMISSION
SEP 28 1973

APPROVED _____, 19____
BY W. A. Gressett
TITLE **OIL AND GAS INSPECTOR**

A. L. Shackelford

(Signature)

Sr. Acctg. Clerk

(Title)

9-26-73

(Date)

This form is to be filed in compliance with RULE 111.

If this is a request for allowable for a newly drilled or deepened well, this form must be accompanied by a tabulation of the deviated tests taken on the well in accordance with RULE 111.

All sections of this form must be filled out completely for allowable on new and recompleted wells.

Fill out only Sections I, II, III, and VI for changes of owner, well name or number, or transporter, or other such change of condition.

Separate Forms C-104 must be filed for each pool in multiple completed wells.

Supersedes Old
C-102 and C-103
Effective 1-1-65

NEW MEXICO OIL CONSERVATION COMMISSION
RECEIVED

NOV - 6 1978

O. C. C.

SUNDRY NOTICES AND REPORTS ON WELL ARTESIA, OFFICE.

(DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO RE-DRILL OR RE-LEASE TO A DIFFERENT RESERVE.)
(SEE APPLICATION FOR PERMIT - 1030112-101 FOR SUCH PROPOSALS.)

OPERATOR		
FIELD OFFICE		
WELL NO.		
LEASE NO.		
SECTION		
TOWNSHIP		
RANGE		
STATE		

5a. Indicate Type of Lease **Fed**
State **X**

5. State Oil & Gas Lease No.

7. Unit Agreement Name
Empire Abo Unit

8. Form of Lease Name
PAV "NK"

9. Well No.
17

10. Field and Pool, or Wildcat
Empire Abo

12. County
Eddy

1. OIL WELL GAS WELL OTHER

2. Name of Operator
Atlantic Richfield Company

3. Address of Operator
P. O. Box 129 Artesia, New Mexico 88210

4. Location of Well
UNIT LETTER **L**, **1920** FEET FROM THE **South** LINE AND **660** FEET FROM
West LINE, SECTION **1**, TOWNSHIP **18S**, RANGE **27E**, NMPM.

15. Elevation (Show whether DF, RT, GR, etc.)
KB 3581'

Check Appropriate Box To Indicate Nature of Notice, Report or Other Data
NOTICE OF INTENTION TO: SUBSEQUENT REPORT OF:

<input type="checkbox"/> PERM REMEDIAL WORK	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> REMEDIAL WORK	<input type="checkbox"/> ALTERING CASING
<input type="checkbox"/> TEMPORARILY ABANDON	<input type="checkbox"/> CHANGE PLANS	<input type="checkbox"/> COMMENCE DRILLING OPNS.	<input type="checkbox"/> PLUG AND ABANDONMENT
<input type="checkbox"/> REPAIR OR ALTER CASING	<input type="checkbox"/>	<input type="checkbox"/> CASING TEST AND CEMENT JOB	<input type="checkbox"/>
<input type="checkbox"/> OTHER	<input type="checkbox"/>	<input type="checkbox"/> OTHER	<input type="checkbox"/>

Piping braden head to surface.

17. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work) SEE RULE 1103.

Piping braden head to surface.

18. I hereby certify that the information above is true and complete to the best of my knowledge and belief.

SIGNED *D.H. Smith* TITLE Dist. Prod. Supervisor DATE 10-31-78

APPROVED BY *B.W. Weaver* TITLE Field Rep DATE 11-8-78

CONDITIONS OF APPROVAL, IF ANY:

DISTRIBUTION		6
SANTA FE		1
FILE		1
U.S.G.S.		
LAND OFFICE		
TRANSPORTER	OIL	1
	GAS	2
OPERATOR		1
PRORATION OFFICE		

NEW MEXICO OIL CONSERVATION COMMISSION
**REQUEST FOR ALLOWABLE
AND
AUTHORIZATION TO TRANSPORT OIL AND NATURAL GAS**

Form C-104
Supersedes Old C-104 and C-110
Effective 1-1-65

RECEIVED

MAR 14 1979

Operator	ARCO Oil and Gas Company - Division of Atlantic Richfield Company		O. C. C.
Address	P. O. Box 1710, Hobbs, New Mexico 88240		ARTESIA, OFFICE
Reason(s) for filing (Check proper box)	Other (Please explain)		
New Well <input type="checkbox"/>	Change in Transporter of: Oil <input type="checkbox"/> Dry Gas <input type="checkbox"/>	Change in Operator Name effective: 4-1-79	
Recompletion <input type="checkbox"/>	Casinghead Gas <input type="checkbox"/> Condensate <input type="checkbox"/>		
Change in Ownership <input type="checkbox"/>			

If change of ownership give name
and address of previous owner

I. DESCRIPTION OF WELL AND LEASE

Lease Name	Well No.	Pool Name, including Formation	Kind of Lease
Empire Abo Unit "K"	17	Empire Abo	State, Federal or Fee <i>Federal</i>
Location			
Unit Letter		Feet From The	Line and
L	1980	South	460 West
Line of Section	Township	Range	NMPM, County
1	18S	27E	Eddy

I. DESIGNATION OF TRANSPORTER OF OIL AND NATURAL GAS

Name of Authorized Transporter of Oil <input checked="" type="checkbox"/> or Condensate <input type="checkbox"/>	Address (Give address to which approved copy of this form is to be sent)
Amoco Pipeline Company	2300 Continental National Bank Bldg. Ft. Worth, Texas 76102
Name of Authorized Transporter of Casinghead Gas <input checked="" type="checkbox"/> or Dry Gas <input type="checkbox"/>	Address (Give address to which approved copy of this form is to be sent)
Amoco Production Company Phillips Petroleum Company	P.O. Drawer A, Levelland, Texas 79338 4001 Penbrook, Odessa, Texas 79760
If well produces oil or liquids, give location of tanks.	Unit Sec. Twp. Rge. Is gas actually connected? When
	F 1 18 27 Yes AMO & PP 9-3-60

If this production is commingled with that from any other lease or pool, give commingling order number:

V. COMPLETION DATA

Designate Type of Completion - (X)	Oil Well	Gas Well	New Well	Workover	Deepen	Plug Back	Same Res'v.	Diff. Res'v.
No Change								
Date Spudded	Date Compl. Ready to Prod.	Total Depth		P.B.T.D.				
No Change								
Pool	Name of Producing Formation	Top Oil/Gas Pay		Tubing Depth				
Perforations				Depth Casing Shoe				
TUBING, CASING, AND CEMENTING RECORD								
HOLE SIZE	CASING & TUBING SIZE	DEPTH SET		SACKS CEMENT				

V. TEST DATA AND REQUEST FOR ALLOWABLE OIL WELL

(Test must be after recovery of total volume of load oil and must be equal to or exceed top allowable for this depth or be for full 24 hours)

Date First New Oil Run To Tanks	Date of Test	Producing Method (Flow, pump, gas lift, etc.)	
No Change			
Length of Test	Tubing Pressure	Casing Pressure	Choke Size
Actual Prod. During Test	Oil - Bbls.	Water - Bbls.	Gas - MCF

GAS WELL

Actual Prod. Test - MCF/D	Length of Test	Bbls. Condensate/MMCF	Gravity of Condensate
Testing Method (pitot, back pr.)	Tubing Pressure	Casing Pressure	Choke Size

I. CERTIFICATE OF COMPLIANCE

I hereby certify that the rules and regulations of the Oil Conservation Commission have been complied with and that the information given above is true and complete to the best of my knowledge and belief.

OIL CONSERVATION COMMISSION
APR 09 1979

APPROVED BY W. A. Gressitt 19

George V. Parks

(Signature)

District Prod & Drlg Supt.

(Title)

3-7-79

(Date)

TITLE SUPERVISOR, DISTRICT II

This form is to be filed in compliance with RULE 1104.

If this is a request for allowable for a newly drilled or deepened well, this form must be accompanied by a tabulation of the deviation tests taken on the well in accordance with RULE 111.

All sections of this form must be filled out completely for allowable on new and recompleted wells.

Fill out Sections I, II, III, and VI only for changes of owner, well name or number, or transporter, or other such change of condition.

Separate Forms C-104 must be filed for each pool in multiply

C/ST
LT
5/1/94

District I
PO Box 1900, Hobbs, NM 88241-1900
District II
PO Drawer DD, Artesia, NM 88211-0719
District III
1000 Rio Brazos Rd., Aztec, NM 87410
District IV
PO Box 2088, Santa Fe, NM 87504-2088

State of New Mexico
Energy, Minerals & Natural Resources Department

OIL CONSERVATION DIVISION
PO Box 2088
Santa Fe, NM 87504-2088

Form C-104
Revised February 10, 1994
Instructions on back
Submit to Appropriate District Office
5 Copies

AMENDED REPORT

I. REQUEST FOR ALLOWABLE AND AUTHORIZATION TO TRANSPORT

Operator name and Address ARCO Permian A Unit of Atlantic Richfield Co. P.O. Box 1710 Hobbs, NM 88240		OGRID Number 000990	
		Reason for Filing Code JUL 1 1994 CH	
API Number 30 - 015 - 00703	Pool Name Empire ABO	Pool Code 22040	
Property Code C01474	Property Name Empire ABO Unit "K"	Well Number 17	

II. Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South Line	Feet from the	East/West line	County
L	1	18S	27E		1980	S	660	W	Eddy

Bottom Hole Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County

Lea Code F	Producing Method Code F	Gas Connection Date	C-129 Permit Number	C-129 Effective Date	C-129 Expiration Date
---------------	----------------------------	---------------------	---------------------	----------------------	-----------------------

III. Oil and Gas Transporters

Transporter OGRID	Transporter Name and Address	POD	O/G	POD ULSTR Location and Description
000734	AMOCO Pipeline 502 NW Avenue Levelland, TX 79336	2811057	O	D-10 FT-18S-27E
000756	AMOCO Production Co. P.O. Box 68 Hobbs, NM 88240	2811047	G	F-1"18S-27E
009171	GPM Gas Corp. 4001 Penbrook Odessa, TX 79760	2811047	G	"

IV. Produced Water

POD	POD ULSTR Location and Description
-----	------------------------------------

V. Well Completion Data

Spud Date	Ready Date	TD	PSTD	Perforations
Hole Size	Casing & Tubing Size	Depth Set	Sacks Cement	

VI. Well Test Data

Date New Oil	Gas Delivery Date	Test Date	Test Length	Tbg. Pressure	Cap. Pressure
Choke Size	Oil	Water	Gas	AOF	Test Method

I hereby certify that the rules of the Oil Conservation Division have been complied with and that the information given above is true and complete to the best of my knowledge and belief.

OIL CONSERVATION DIVISION

Signature: <i>Kellie D. Murrish</i>		Approved by: SUPERVISOR, DISTRICT II	
Printed name: Kellie D. Murrish		Title:	
Title: Records Clerk II		Approval Date: JUN 6 1994	
Date: 6-1-94	Phone: 505-391-1649		
* If this is a change of operator fill in the OGRID number and name of the previous operator			
Previous Operator Signature		Printed Name	Title Date

Form 3160-5
(June 1990)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or to deepen or reentry to a different reservoir.
Use "APPLICATION FOR PERMIT - " for such proposals

NM OIL CONS COMMISSION *clsf*
Drawer DD FORM APPROVED
Artesia, NM 88210 Bureau No. 1004-0135
Expires: March 31, 1993

5. Lease Designation and Serial No.
LC-062412 NM 055737

6. If Indian, Allottee or Tribe Name

7. If Unit or CA, Agreement Designation

8. Well Name and No.
EMPIRE ABO UNIT "K" # 17

9. API Well No.
30-015-00703

10. Field and Pool, or exploratory Area
EMPIRE ABO

11. County or Parish, State
EDDY NM

SUBMIT IN TRIPLICATE

1. Type of Well
 Oil Well Gas Well Other

2. Name of Operator
ARCO Permian

3. Address and Telephone No.
P.O. BOX 1610, MIDLAND, TX 79702 915 688-5672

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)
**1980 FSL & 660 FWL (UNIT LETTER L)
1-18S-27E**

12. CHECK APPROPRIATE BOX(S) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION
<input checked="" type="checkbox"/> Notice of Intent	<input type="checkbox"/> Abandonment
<input type="checkbox"/> Subsequent Report	<input type="checkbox"/> Recompletion
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Plugging Back
	<input type="checkbox"/> Casing Repair
	<input type="checkbox"/> Altering Casing
	<input checked="" type="checkbox"/> Other ADD HORIZONTAL EXT
	<input type="checkbox"/> Change of Plans
	<input type="checkbox"/> New Construction
	<input type="checkbox"/> Non-Routine Fracturing
	<input type="checkbox"/> Water Shut-Off
	<input type="checkbox"/> Conversion to Injection
	<input type="checkbox"/> Dispose Water

(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

13. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

PROPOSE TO ADD HORIZONTAL DRAINHOLE AS FOLLOWS:

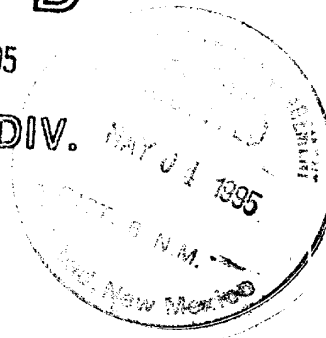
1. POH W/PROD CA.
2. SET RETRIEVABLE WHIPSTOCK.
3. SIDETRACK & DRILL 250' RADIUS CURVE.
4. DRILL 1000' HORIZONTAL LATERAL.
5. RETRIEVE WHIPSTOCK.
6. RIH W/PROD CA.

RECEIVED

MAY - 9 1995

OIL CON. DIV.
DIST. 2

subject to
Like Approval
by State (CC)



14. I hereby certify that the foregoing is true and correct

Signed Ken W Gosnell

Title AGENT

Date 05-03-95

(This space for Federal or State office use)

Approved by (ORIG. SCD.) JOE G. LARA

Title PETROLEUM ENGINEER

Date 5/5/95

Conditions of approval, if any:

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

* See instruction on Reverse Side

HORIZONTAL SIDETRACK PROCEDURE

DATE: May 1, 1995

WELL: Empire Abo #K-17 DRILLED: 1959 FIELD: Empire Abo COUNTY: Eddy, NM

BY: P.N. Drennon TD: 6,137' PBD: 6,101' DATUM: 12' KB

CASING:	SIZE	WEIGHT	GRADE	SET @	SX CMT	TOC
SURFACE:	8 5/8"	24#	J-55	1,470'	750	surf-circ
PROD:	5 1/2"	14#	J-55	6,137'	1,000	surf-circ

PERFORATIONS: Open perms: Abo 6,040'-6,080'

HISTORY AND BACKGROUND: Drilled in 1959, completed as a flowing oil well from the Abo.

SCOPE OF WORK: Set retrievable whipstock, sidetrack and drill 250' radius build curve, 1,000' horizontal lateral, retrieve whipstock, complete as flowing/pumping well from existing Abo perms and new horizontal lateral.

TARGET INFORMATION:	Whipstock Depth:	5,810'
	Kickoff Point:	Same as above
	Azimuth:	E (90°)
	Target Depth:	6,060'
	Planned Displacement:	Total 1,250'
	Surface Location:	1,980' FSL, 660' FWL, Sec. 1, T-18-S, R-27-E, Eddy Co., N.M.

PROCEDURE

1. MIRU PU, pump, swivel, pits. Install H₂S safety equipment. Pull rods and pump, warehouse same. ND tree, NU BOPE. Pull tubing, LD and warehouse.
2. PU 4 3/4" bit and scraper, 10 3-1/2" DC, 2 7/8" AOH DP, TIH to PBTD 6,101, circulate @ TD if necessary. RU & run gyro multi-shot survey via DP. RD survey equipment, TOOHL, LD bit and scraper.
3. GIH w/ packer and set in vicinity of 5,800'.
4. Test casing and stack to 750 psig.
5. PU anchor, whipstock assembly w/ starter mill, BHA, TIH, hydraulically set anchor @ 5,810'.

Note: Oriented assembly, azimuth E (compass 90°) per O/A Engineer (Gary Smallwood).

6. Shear off whipstock assembly w/ starter mill. Mill out casing and shear bolt assembly to start window, use Abo produced water for circulation. Use polymer additions for additional lift if necessary.
7. TOOHL, LD starter mill, PU window mill, 1 jt S-135 AOH DP, BHA, TIH.
8. Finish cutting window, drill out into open hole, circulate clean.
9. TOOHL, LD window mill and inspect for proper wear. PU window mill, watermelon mill, BHA.

Note: Air/foam package to be on location at this point.

10. TIH, clean and dress window, drill 8-10' formation, circulate clean.

11. TOO, LD window and watermelon mills, check for proper wear. PU 4 3/4" drag bit, bent housing motor, bent sub, non-mag DC, 2 7/8" 8.7# PH-6 tbg DC's (minimum 2 DC's in casing @ TD of build curve), TIH.
12. Displace hole w/ stiff foam (expect 700-800 SCF/min w/ 1.75 BPM water w/ 8-10 gal/1000 foamer).
13. RU wet connect, steering tool, land same, drill build curve, plan to drill 23°/100' build rate (radius 250') to max angle of 87°- 90°- from vertical.
14. RD steering tool/wet connect, TOO, LD build motor, PU packer on DP, TIH, set packer @ ±5,700'.
15. Open by-pass, jet via DP to kick-off and test production from build curve. If necessary, polymer squeeze build curve to shut off excess gas production.
16. TOO, LD packer, PU 4 3/4" bit, hold motor, Monel DC, 2 7/8" tbg. DC's (minimum 9 DC's in casing @ TD), DP, TIH, RU wet connect, steering tool, land same drill lateral ±1,000' due East. All drilling done w/ stiff foam.
17. TOO, LD BHA, PU tbg to go to end of lateral, DP, TIH.
18. Stage in and blow hole w/ air to unload foam, @ EOC blow hole dry, load to kill w/ produced water, TOO.
19. PU CA and production tubing, TIH.
20. Swab to KO well, test.
21. Kill well w/ produced water, TOO w/ CA.
22. PU die collar, 4 3 1/2" DC, tubing, TIH, latch and release packer stock, TOO, LD packer stock, die collar, DC's.
23. TIH w/ CA and production tubing.
24. Swab to KO well, test.
25. If recommended, TIH to EOL w/ 1 1/4" coil tubing, spot 15% HCl w/ adds throughout lateral, POOH w/ coil tubing.
26. Swab to KO well, test.
27. TOPS

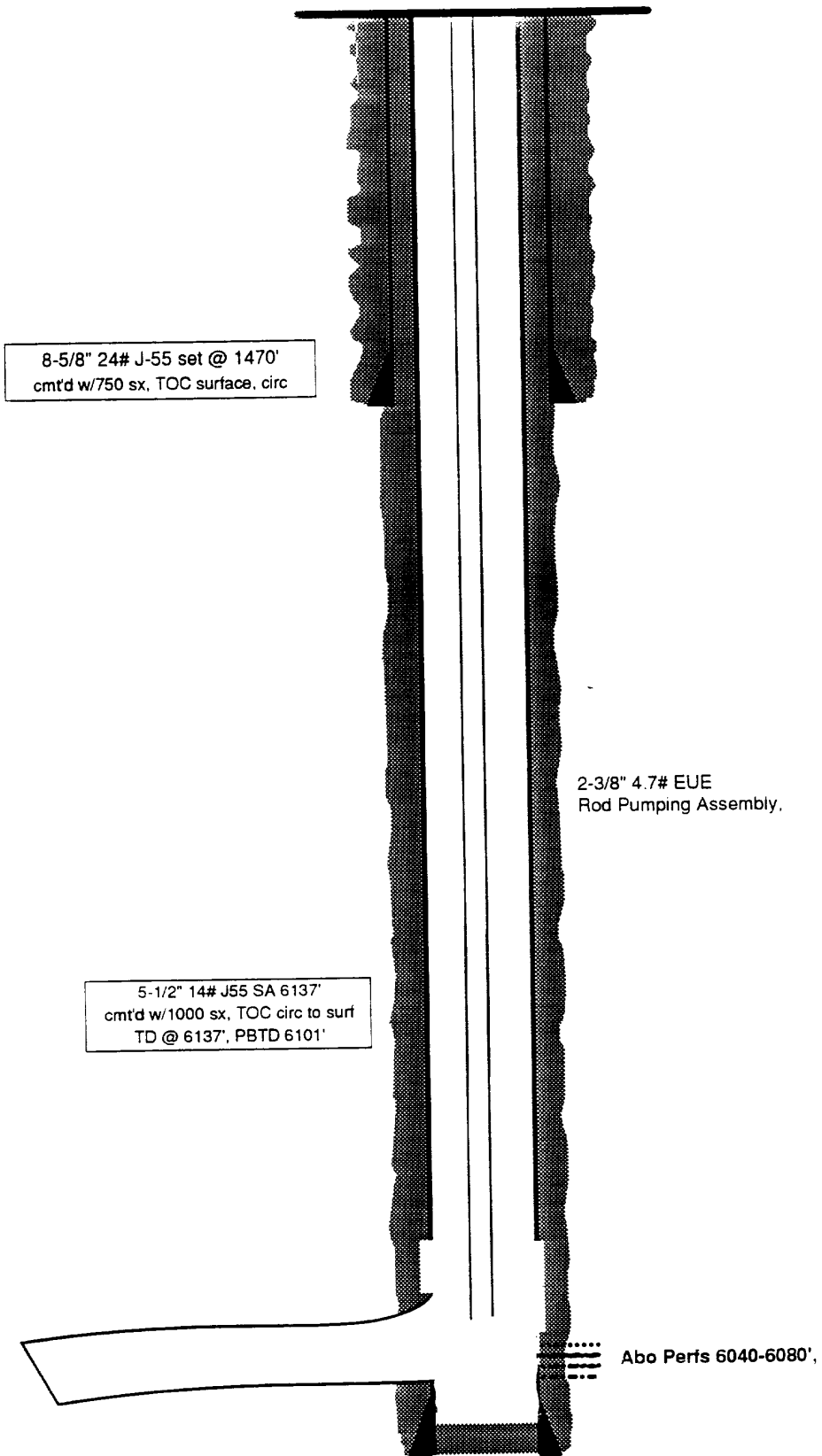
P. N. Drennon

J. E. Shields

EMPIRE ABO K-17

Proposed Status

Drilled 1959



disf

Form 3160-5
(June 1990)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

Drawer DD

Artesia, NM 88210

FOR APPROVED
Budget Bureau No. 1004-0135
Expires: March 31, 1993

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or to deepen or reentry to a different reservoir.
Use "APPLICATION FOR PERMIT - " for such proposals

5. Lease Designation and Serial No.
LC-062412

6. If Indian, Alottee or Tribe Name

7. If Unit or CA, Agreement Designation
8910138010

8. Well Name and No.
EMPIRE ABO UNIT K-17

9. API Well No.
30-015-00703

10. Field and Pool, or exploratory Area
EMPIRE ABO

11. County or Parish, State
EDDY NM

SUBMIT IN TRIPLICATE

1. Type of Well
 Oil Well Gas Well Other

2. Name of Operator
ARCO Permian

3. Address and Telephone No.
P.O. Box 1710 Hobbs, N.M. 88240 505-391-1649

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)
1980' FSL & 660' FWL, Unit Letter L
Sec. 1, T18S, R27E

12. CHECK APPROPRIATE BOX(S) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION
<input type="checkbox"/> Notice of Intent	<input type="checkbox"/> Abandonment
<input checked="" type="checkbox"/> Subsequent Report	<input type="checkbox"/> Recompletion
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Plugging Back
	<input type="checkbox"/> Casing Repair
	<input type="checkbox"/> Altering Casing
	<input checked="" type="checkbox"/> Other ACIDIZE HORIZONTAL
	<input type="checkbox"/> Change of Plans
	<input type="checkbox"/> New Construction
	<input type="checkbox"/> Non-Routine Fracturing
	<input type="checkbox"/> Water Shut-Off
	<input type="checkbox"/> Converts on to Injection
	<input type="checkbox"/> Dispose Water

(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

13. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

TD: 6137' PBD: 6101' PERFS: 6040-6080' CIBP ABOVE PERFS @ 5823'. WHIPSTOCK @ 5782'.
TOP OF WINDOWS @ 5797', BOTTOM OF WINDOW @ 5803'. HORIZONTAL 5800-7705'

06/21/95: ACIDIZE HORIZONTAL EXTENTION 5800-7705 W/2500 GALS 15% NEFE ACID AND 2500 GALS
CONDENSATE. DISPLACED ACID/CONDENSATE WHILE MOVING C.T. ALONG HORIZONTAL. FLUSH W/20 BPW.

RECEIVED

SEP 12 1995

OIL CON. DIV.
DIST. 2

ACCEPTED FOR RECORD
J. Lara
8 1995

RECEIVED
AUG 16 10 58 AM '95

RECEIVED

14. I hereby certify that the foregoing is true and correct

Signed Karen D. Murrell Title Administrative Assistant Date 8/15/95

(This space for Federal or State office use)

Approved by _____ Title _____ Date _____

Conditions of approval, if any:

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

* See Instruction on Reverse Side

GENERAL INSTRUCTIONS

This form is designed for submitting proposals to perform certain well operations, and reports of such operations when completed, as indicated, on Federal and Indian lands pursuant to applicable Federal law and regulations, and, if approved or accepted by any State, on all lands in such State, pursuant to applicable State law and regulations. Any necessary special instructions concerning the use of this form and the number of copies to be submitted, particularly with regard to local area, or regional procedures and practices, either are shown below or will be issued by, or may be obtained from, the local Federal and/or State office.

SPECIFIC INSTRUCTIONS

Item 4 - If there are no applicable State requirements, locations on Federal or Indian land should be described in accordance with Federal requirements. Consult local State or Federal office for specific instructions.

Item 13 - Proposals to abandon a well and subsequent reports of abandonment should include such special information as is required by local Federal and/or State offices. In addition, such proposals and reports should include reasons for the abandonment; data on any former or present productive zones, or other zones with present significant fluid contents not sealed off by cement or otherwise; depths (top and bottom) and method of placement of cement plugs; mud or other material placed below, between and above plugs; amount, size, method of parting of any casing, liner or tubing pulled and the depth to top of any left in the hole; method of closing top of well; and date well site conditioned for final inspection looking to approval of the abandonment.

NOTICE

The Privacy Act of 1974 and the regulation in 43 CFR 2.48(d) provide that you be furnished the following information in connection with information required by this application.

AUTHORITY: 30 U.S.C. 181 et seq., 351 et. seq., 25 U.S.C. et. seq.; 43 CFR 3160.

PRINCIPAL PURPOSE - The information is to be used to evaluate, when appropriate, approve applications, and report completion of secondary well operation, on a Federal or Indian lease.

ROUTINE USES:

- (1) Evaluate the equipment and procedures used during the proposed or completed subsequent well operations.
- (2) Request and grant approval to perform those actions covered by 43 CFR 3162.3-2(2).
- (3) Analyze future applications to drill or modify operations in light of data obtained and methods used.
- (4)(5) Information from the record and/or the record will be transferred to appropriate Federal, State, local or foreign agencies, when relevant to civil, criminal or regulatory investigations or prosecutions.

EFFECT OF NOT PROVIDING INFORMATION - Filing of this notice and report and disclosure of the information is mandatory once an oil or gas well is drilled.

The Paperwork Reduction Act of 1980 (44 U.S.C. 3501 et seq.) requires us to inform you that:

This information is being collected in order to evaluate proposed and/or completed subsequent well operations on Federal or Indian oil and gas leases.

This information will be used to report subsequent operations once work is completed and when requested, to obtain approval for subsequent operations not previously authorized.

Response to this request is mandatory only for the specific types of activities specified in 43 CFR Part 3160.

BURDEN HOURS STATEMENT

Public reporting burden for this form is estimated to average 25 minutes per response, including the time for reviewing instructions, gathering and maintaining data, and completing and reviewing the form. Direct comments regarding the burden estimate or any other aspect of this form to U.S. Department of the Interior, Bureau of Land Management, (Alternate) Bureau Clearance Officer, (WO-771), 18 and C Streets, N.W., Washington, D.C. 20240, and the Office of Management and Budget, Paperwork Reduction Project (1004-0135), Washington, D.C. 20503.

Form 3160-5
(June 1990)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or to deepen or reentry to a different reservoir.
Use "APPLICATION FOR PERMIT - " for such proposals

CLSF

FORM APPROVED
Budget Bureau No. 1004-0135
Expires: March 31, 1993

5. Lease Designation and Serial No.

LC-062412 NW 0557371

6. If Indian, Allottee or Tribe Name

7. If Unit or CA. Agreement Designation

8. Well Name and No.
EMPIRE ABC UNIT "K" 17

9. API Well No.
30-015-00703

10. Field and Pool, or exploratory Area
EMPIRE ABC

11. County or Parish, State
EDDY NM

SUBMIT IN TRIPLICATE

1. Type of Well
 Oil Well Gas Well Other

2. Name of Operator
ARCO Permian

3. Address and Telephone No.
P.O. BOX 1610, MIDLAND, TX 79702 915 688-5672

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)
1980 FSL & 660 FWL (UNIT LETTER L)

1-18S-27E

12. CHECK APPROPRIATE BOX(S) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION
<input type="checkbox"/> Notice of Intent	<input type="checkbox"/> Abandonment
<input checked="" type="checkbox"/> Subsequent Report	<input type="checkbox"/> Recompletion
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Plugging Back
	<input type="checkbox"/> Casing Repair
	<input type="checkbox"/> Altering Casing
	<input checked="" type="checkbox"/> Other ADD HORIZONTAL EXT
	<input type="checkbox"/> Change of Plans
	<input type="checkbox"/> New Construction
	<input type="checkbox"/> Non-Routine Fracturing
	<input type="checkbox"/> Water Shut-Off
	<input type="checkbox"/> Conversion to Injection
	<input type="checkbox"/> Dispose Water

(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

13. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

05-22-95. RUPU. POH W/PROD CA. RIH W/4 3/4 BIT TO 6099 PBD. SET CIBP AT 5830. RIH W/WHIPSTOCK. RAN GYRO SURVEY F/SURF-5798. SET WHIPSTOCK PKR ASSEMBLY AT 5812. CUT 6' WINDOW IN 5 1/2 CSG(5797-5803). DIRECTIONAL DRILLED TO 7705 MD. **RECEIVED** RIH W/PROD CA:2 3/8 TBG & PKR TO 5906. PKR SET AT 5772. RDPU 06-13-95

DEC 18 1995

ACCEPTED OIL CON. DIV.
DIST. 2
DEC 14
J. Lara

14. I hereby certify that the foregoing is true and correct

Signed *Kenneth Gosnell*

Title **AGENT**

Date **11-16-95**

(This space for Federal or State office use)

Approved by _____ Title _____ Date _____
Conditions of approval, if any:

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

* See instruction on Reverse Side

 ===== EAGLE DIRECTIONAL SERVICES, INC =====

Date: 6/8/1995 Time: 7:28: 6

PAGE: 1

Filename: "ARCO.SRV" Description: "ARCO PERMIAN EMPIRE ABO UNIT K17 RE-ENTRY
 HORIZONTAL WELL NW/4 SW/4 SEC 1 T18S R27E EDDY COUNTY, NEW MEXICO
 "

Target Coordinates: 23.6 N 1064.3 E Target TVD: 6048.600
 Using Minimum Curvature Method.

S #	MEASURED DEPTH (feet)	DRIFT ANGLE (deg)	DRIFT DIRECTION (deg)	COURSE LENGTH (feet)	TRUE		RECTANGULAR --- COORDINATES (feet)	DOGLEG -SEVERITY DG/100FT
					VERTICAL DEPTH (feet)	VERTICAL SECTION (feet)		
0	5700.0	5.15	346.670	0.0	5689.8	0.0	210.9 N 168.9 W	0.00
1	5798.0	4.73	350.130	98.0	5787.5	-165.7	219.2 N 170.6 W	0.53
2	5828.0	8.60	48.200	30.0	5817.3	-164.2	221.9 N 169.1 W	24.31
3	5857.0	17.10	64.500	29.0	5845.6	-158.6	225.2 N 163.7 W	31.59
4	5887.0	23.60	76.700	30.0	5873.7	-148.7	228.5 N 153.8 W	25.77
5	5918.0	27.90	93.300	31.0	5901.6	-135.4	229.5 N 140.5 W	26.96
6	5948.0	33.70	97.900	30.0	5927.4	-120.2	228.0 N 125.3 W	20.85
7	5979.0	42.70	97.000	31.0	5951.7	-101.2	225.5 N 106.3 W	29.09
8	6011.0	51.40	95.200	32.0	5973.5	-78.0	223.0 N 83.0 W	27.50
9	6043.0	59.60	96.100	32.0	5991.6	-51.9	220.4 N 56.8 W	25.73
10	6074.0	58.70	97.300	31.0	6007.5	-25.5	217.3 N 30.3 W	4.41
11	6106.0	64.20	100.300	32.0	6022.8	2.1	213.0 N 2.6 W	19.06
12	6136.0	69.40	105.500	30.0	6034.6	28.8	206.8 N 24.3 E	23.54
13	6167.0	76.70	106.200	31.0	6043.7	57.2	198.7 N 52.8 E	23.65
14	6198.0	84.00	104.500	31.0	6048.9	86.4	190.7 N 82.2 E	24.16
15	6230.0	87.00	103.700	32.0	6051.4	117.2	182.9 N 113.2 E	9.70
16	6262.0	87.70	103.200	32.0	6052.8	148.1	175.5 N 144.2 E	2.69
17	6293.0	87.80	103.700	31.0	6054.1	178.1	168.2 N 174.4 E	1.64
18	6323.0	88.10	104.700	30.0	6055.1	207.0	160.9 N 203.4 E	3.48
19	6355.0	87.80	105.200	32.0	6056.3	237.7	152.6 N 234.3 E	1.82
20	6387.0	86.10	103.100	32.0	6058.0	268.5	144.8 N 265.3 E	8.44
21	6418.0	86.00	103.200	31.0	6060.1	298.4	137.8 N 295.4 E	0.46
22	6450.0	85.70	103.200	32.0	6062.4	329.3	130.5 N 326.5 E	0.94
23	6481.0	85.70	103.300	31.0	6064.8	359.2	123.4 N 356.6 E	0.32
24	6512.0	87.20	101.700	31.0	6066.7	389.3	116.7 N 386.8 E	7.07
25	6544.0	87.00	101.000	32.0	6068.3	420.5	110.4 N 418.1 E	2.27
26	6574.0	86.50	100.800	30.0	6070.0	449.8	104.8 N 447.5 E	1.79
27	6604.0	86.50	100.900	30.0	6071.8	479.0	99.1 N 477.0 E	0.33
28	6636.0	88.00	99.300	32.0	6073.4	510.4	93.5 N 508.4 E	6.85
29	6666.0	87.70	99.000	30.0	6074.5	539.9	88.8 N 538.0 E	1.41
30	6697.0	87.40	99.200	31.0	6075.8	570.3	83.9 N 568.6 E	1.16
31	6758.0	88.10	99.400	61.0	6078.2	630.2	74.0 N 628.7 E	1.19
32	6819.0	88.10	100.200	61.0	6080.2	690.1	63.6 N 688.8 E	1.31
33	6848.0	87.90	100.300	29.0	6081.2	718.5	58.5 N 717.3 E	0.77
34	6909.0	88.80	98.400	61.0	6083.0	778.4	48.6 N 777.5 E	3.45
35	6939.0	88.50	98.500	30.0	6083.7	808.0	44.2 N 807.2 E	1.05

S #	MEASURED DEPTH (feet)	DRIFT ANGLE (deg)	DRIFT DIRECTION (deg)	COURSE LENGTH (feet)	TRUE VERTICAL DEPTH (feet)	VERTICAL SECTION (feet)	RECTANGULAR COORDINATES (feet)	DOGLEG -SEVERITY DG/100FT
36	7001.0	89.60	98.300	62.0	6084.7	869.1	35.1 N 868.5 E	1.80
37	7062.0	86.60	95.700	61.0	6086.8	929.4	27.7 N 929.0 E	6.51
38	7152.0	89.80	96.500	90.0	6089.6	1018.6	18.1 N 1018.4 E	3.66
39	7214.0	91.30	96.300	62.0	6089.0	1080.0	11.2 N 1080.0 E	2.44
40	7276.0	92.40	96.100	62.0	6087.0	1141.5	4.5 N 1141.6 E	1.80
41	7336.0	92.60	96.500	60.0	6084.4	1200.9	2.1 S 1201.2 E	0.74
42	7362.0	92.90	96.400	26.0	6083.1	1226.6	5.0 S 1227.0 E	1.22
43	7427.0	92.20	97.100	65.0	6080.2	1290.9	12.6 S 1291.5 E	1.52
44	7458.0	90.00	97.600	31.0	6079.6	1321.6	16.6 S 1322.3 E	7.28
45	7520.0	88.30	97.700	62.0	6080.6	1382.8	24.8 S 1383.7 E	2.75
46	7583.0	87.10	98.100	63.0	6083.1	1444.9	33.5 S 1446.0 E	2.01
47	7641.0	86.40	98.500	58.0	6086.4	1502.0	41.8 S 1503.3 E	1.39
48	7672.0	85.80	98.900	31.0	6088.5	1532.5	46.5 S 1533.9 E	2.32
--- Survey #49 is Projected to TD!								
49	7705.0	85.20	98.900	33.0	6091.1	1564.9	51.6 S 1566.4 E	1.82
--- Final Closure Direction:				91.887				
--- Final Closure Distance:				1567.266 feet				

SCIENTIFIC DRILLING INTERNATIONAL
MIDLAND, TEXAS

Finder Survey
for

ARCO OIL & GAS COMPANY
MIDLAND, TEXAS

Job Number : 32F0595215
Well Number : EMPIRE ABO "K" NO. 17
Site Location : EDDY COUNTY, NEW MEXICO
Latitude : 32.750
Survey Date(s) : 24-MAY-95
S.D.C. personnel : GARY DESPAIN
Calculation Method : Minimum Curvature
Survey Depth Zero : RKB
Proposal Direction : 99.000
Depth Unit : Feet

Comments :

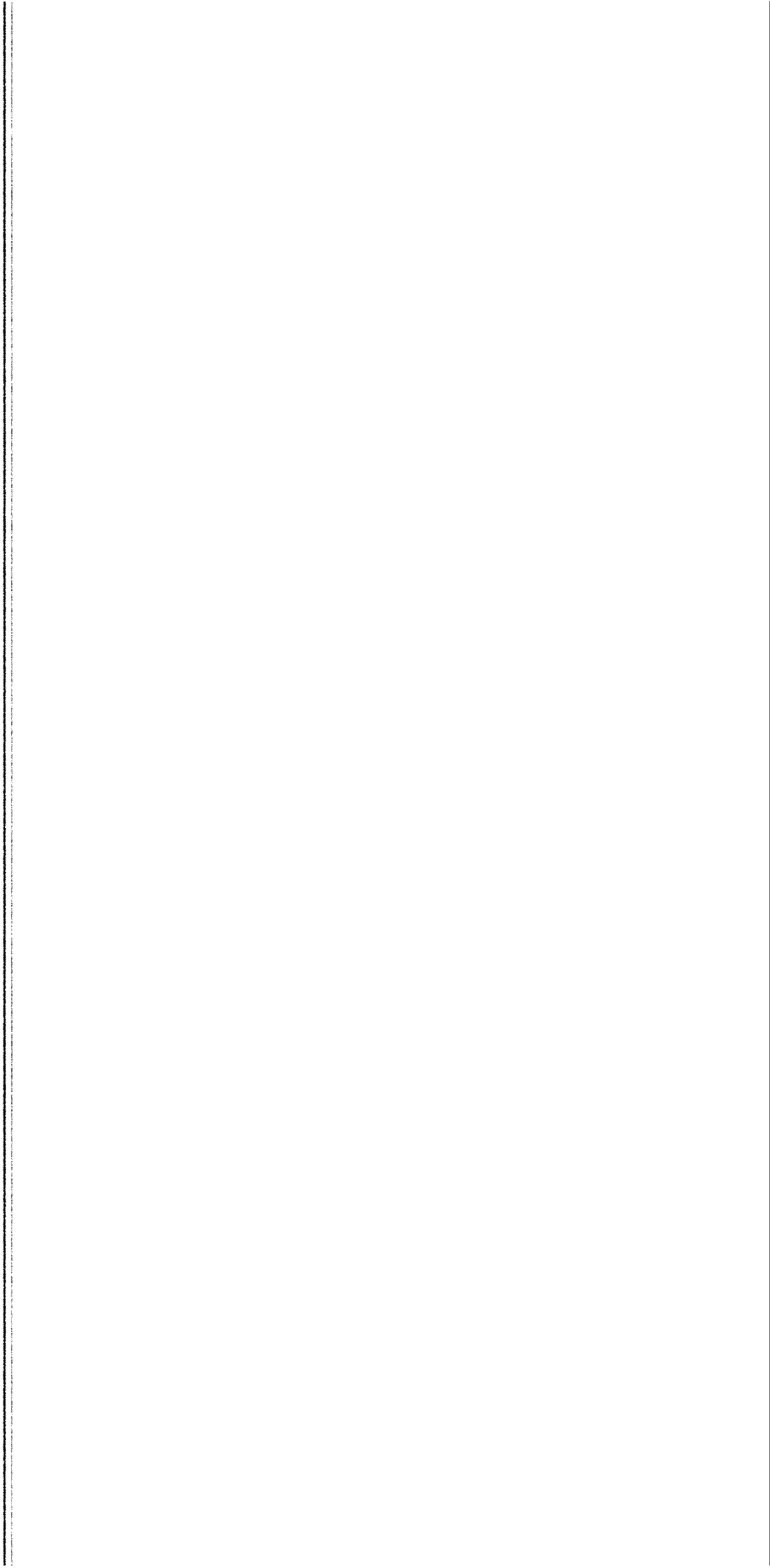
Inrun Survey
ARCO OIL & GAS COMPANY

page 1

Well number : EMPIRE ABO "K" NO.

Date : 24-MAY-95

Measured Depth	Vertical Depth	Vert. Section	Inc Deg	Azimuth Deg	Coordinates		D-leg /100ft
					Latitude	Departure	
0.0	0.00	0.0	0.00	0.00	0.00	0.00	0.00
100.0	100.00	-0.1	0.26	336.94	0.21	-0.09	0.26
200.0	200.00	-0.3	0.24	338.11	0.61	-0.26	0.02
300.0	300.00	-0.6	0.31	329.92	1.04	-0.47	0.08
400.0	400.00	-1.1	0.41	315.24	1.53	-0.86	0.14
500.0	499.99	-1.7	0.48	316.06	2.08	-1.40	0.07
600.0	599.99	-2.5	0.60	308.21	2.71	-2.10	0.14
700.0	699.98	-3.6	0.77	290.57	3.27	-3.14	0.27
800.0	799.97	-5.1	1.00	281.40	3.68	-4.63	0.27
900.0	899.94	-7.3	1.47	287.75	4.24	-6.70	0.49
1000.0	999.90	-10.0	1.75	293.11	5.23	-9.33	0.32
1100.0	1099.86	-12.9	1.76	300.33	6.61	-12.06	0.22
1200.0	1199.81	-15.8	1.82	301.42	8.21	-14.74	0.07
1300.0	1299.76	-18.7	1.84	305.46	9.97	-17.40	0.13
1400.0	1399.71	-21.6	1.85	307.40	11.88	-19.99	0.06
1500.0	1499.66	-24.4	1.86	309.17	13.89	-22.53	0.06
1600.0	1599.60	-27.2	1.84	309.49	15.93	-25.03	0.02
1700.0	1699.55	-30.0	1.85	306.69	17.92	-27.56	0.09
1800.0	1799.50	-32.9	1.90	305.11	19.84	-30.21	0.07
1900.0	1899.44	-35.9	1.84	298.32	21.55	-32.98	0.23
2000.0	1999.39	-39.0	1.80	295.41	22.99	-35.82	0.10
2100.0	2099.34	-42.0	1.76	292.14	24.24	-38.66	0.11
2200.0	2199.30	-44.9	1.63	289.34	25.29	-41.42	0.15
2300.0	2299.26	-47.7	1.61	285.57	26.14	-44.12	0.11
2400.0	2399.22	-50.5	1.65	289.24	26.99	-46.83	0.11
2500.0	2499.18	-53.4	1.77	292.86	28.06	-49.61	0.16
2600.0	2599.13	-56.4	1.81	295.13	29.33	-52.46	0.08
2700.0	2699.07	-59.5	1.92	297.43	30.78	-55.38	0.13
2800.0	2799.02	-62.7	1.98	299.76	32.38	-58.38	0.07
2900.0	2898.95	-66.0	2.09	300.78	34.14	-61.46	0.13
3000.0	2998.88	-69.5	2.18	304.51	36.15	-64.60	0.17
3100.0	3098.81	-72.9	2.29	307.13	38.44	-67.76	0.15
3200.0	3198.72	-76.5	2.41	308.70	40.96	-70.99	0.14
3300.0	3298.63	-80.3	2.56	310.17	43.71	-74.34	0.16
3400.0	3398.52	-84.2	2.67	310.66	46.67	-77.81	0.11
3500.0	3498.41	-88.3	2.92	310.46	49.84	-81.52	0.25
3600.0	3598.27	-92.8	3.09	311.16	53.27	-85.48	0.17
3700.0	3698.12	-97.4	3.19	310.20	56.84	-89.64	0.11
3800.0	3797.95	-102.2	3.37	313.04	60.64	-93.91	0.24

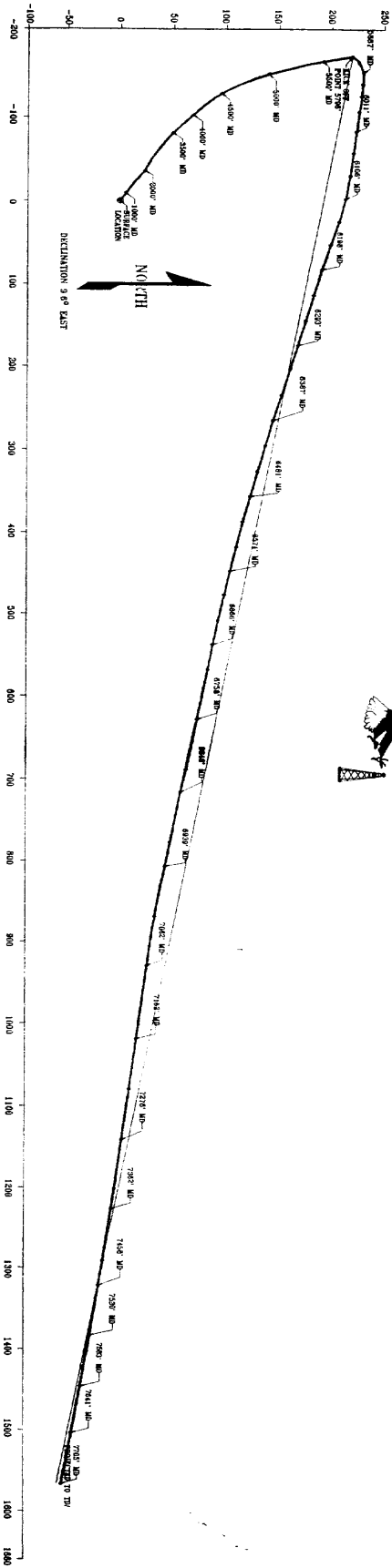


ARCO PERMIAN
EMPIRE ABO UNIT
WELL #K17 RE ENTRY
NW/4 SW/4 SECTION 1 TOWNSHIP 18 SOUTH RANGE 27 EAST
EDDY COUNTY, NEW MEXICO

SCALE 1" = 150' PROPOSAL DRAWN @ 99° AZIMUTH FROM KICK OFF POINT

ARCO REP: MR. DOYLE CATES
EAGLE REPS: MIKE PELLESSIER
ROB PORTER
VOGEL REPS: KENNY GEORGE
BOBBY KLEPPER

SIERRA ENGINEERING: MR. PAT DRENNON
MR. C. D. KEMP



**UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT**

SUBMIT IN DUPLICATE*

(See other instructions on reverse side)

FORM APPROVED
OMB NO. 1004-0137
Expires: February 28, 1995

CISF

5. LEASE DESIGNATION AND SERIAL NO.
LC-062412 NM-0557371

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME, WELL NO.
EMPIRE ABO UNIT "K" 17

9. API WELL NO.
30-015-00703

10. FIELD AND POOL, OR WILDCAT
EMPIRE ABO

11. SEC., T., R., M., OR BLOCK AND SURVEY OR AREA
1-18S-27E

12. COUNTY OR PARISH
EDDY

13. STATE
NM

WELL COMPLETION OR RECOMPLETION REPORT AND LOG*

1a. TYPE OF WELL: OIL WELL GAS WELL DRY Other
 b. TYPE OF COMPLETION: NEW WELL WORK OVER DEEP-EN PLUG BACK DIFF. RESVR. Other **HORIZONTAL EXT**

2. NAME OF OPERATOR
ARCO PERMIAN

3. ADDRESS AND TELEPHONE NO.
P.O. BOX 1610, MIDLAND, TX 79702 915 688-5672

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements)*
 At surface
1980 FSL & 660 FWL (UNIT LETTER L)
 At top prod. interval reported below

At total depth
1928 FSL & 2216 FEL

14. PERMIT NO. DATE ISSUED

15. DATE SPUDDED **05-22-95** 16. DATE T.D. REACHED **06-08-95** 17. DATE COMPL. (Ready to prod.) **06-13-95** 18. ELEVATIONS (DF, RKB, RT, GR, ETC.)* 19. ELEV. CASINGHEAD

20. TOTAL DEPTH, MD & TVD **7705 MD 6091** 21. PLUG, BACK T.D., MD & TVD 22. IF MULTIPLE COMPL., HOW MANY* 23. INTERVALS DRILLED BY ROTARY TOOLS CABLE TOOLS

24. PRODUCING INTERVAL(S), OF THIS COMPLETION - TOP, BOTTOM, NAME (MD AND TVD) **5797-7705 ABO** 25. WAS DIRECTIONAL SURVEY MADE **YES**

26. TYPE ELECTRIC AND OTHER LOGS RUN 27. WAS WELL CORED **NO**

28. CASING RECORD (Report all strings set in well)

CASING SIZE/GRADE	WEIGHT, LB./FT.	DEPTH SET (MD)	HOLE SIZE	TOP OF CEMENT, CEMENTING RECORD	AMOUNT PULLED
8 5/8	24	1470	12 1/4	CIRC	0
5 1/2	14	6137	7 7/8	CIRC	0

29. LINER RECORD 30. TUBING RECORD

SIZE	TOP (MD)	BOTTOM (MD)	SACKS CEMENT*	SCREEN (MD)	SIZE	DEPTH SET (MD)	PACKER SET (MD)
					2 3/8	5906	5772

31. PERFORATION RECORD (Interval, size and number) **5797-7705 OH**

32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.

DEPTH INTERVAL (MD)	AMOUNT AND KIND OF MATERIAL USED
5797-7705	A W/1700 GALS

33.* PRODUCTION

DATE FIRST PRODUCTION	PRODUCTION METHOD (Flowing, gas lift, pumping - size and type of pump)	WELL STATUS (Producing or shut-in)
06-13-95		

DATE OF TEST	HOURS TESTED	CHOKE SIZE	PROD'N. FOR TEST PERIOD	OIL - BBL.	GAS - MCF.	WATER - BBL.	GAS - OIL RATIO

FLOW. TUBING PRESS.	CASING PRESSURE	CALCULATED 24-HOUR RATE	OIL - BBL.	GAS - MCF.	WATER - BBL.	OIL GRAVITY - API (CORR.)

34. DISPOSITION OF GAS (Sold, used for fuel, vented, etc.) TEST WITNESSED BY

35. LIST OF ATTACHMENTS
DIRECTIONAL SURVEY

36. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records

SIGNED Ken W. Gosnell TITLE **AGENT** DATE **11-16-95**

*(See Instructions and Spaces for Additional Data on Reverse Side)

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

N.M. OIL & GAS DIVISION
1301 W. Grand
Artesia, NM 88210

Form 3160-5
(June 1990)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM APPROVED
Budget Bureau No. 1004-0135
Expires: March 31, 1993

dsp

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or to deepen or reentry to a different reservoir.

Use "APPLICATION FOR PERMIT - " for such proposals

5. Lease Designation and Serial No.

NM0557371

6. If Indian, Allottee or Tribe Name

7. If Unit or CA, Agreement Designation

8910138010

8. Well Name and No.

Empire Abo Unit "K" 17

9. API Well No.

30-015-00703

10. Field and Pool, or exploratory Area

Empire Abo

11. County or Parish, State

Eddy NM

SUBMIT IN TRIPLICATE

1. Type of Well

Oil Well Gas Well Other

2. Name of Operator

ARCO Permian

3. Address and Telephone No.

P.O. Box 1089, Eunice, NM 88231 505-394-1649

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)

Unit Letter L, 1980' FSL & 660' FWL
Section 1, T18S, R27E

12. CHECK APPROPRIATE BOX(S) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

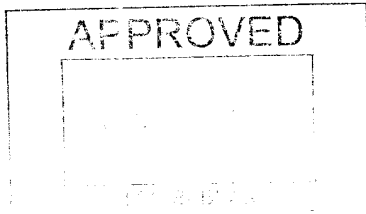
TYPE OF SUBMISSION	TYPE OF ACTION	
<input checked="" type="checkbox"/> Notice of Intent	<input type="checkbox"/> Abandonment	<input type="checkbox"/> Change of Plans
<input type="checkbox"/> Subsequent Report	<input checked="" type="checkbox"/> Recompletion	<input type="checkbox"/> New Construction
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Plugging Back	<input type="checkbox"/> Non-Routine Fracturing
	<input type="checkbox"/> Casing Repair	<input type="checkbox"/> Water Shut-Off
	<input type="checkbox"/> Altering Casing	<input type="checkbox"/> Conversion to Injection
	<input type="checkbox"/> Other	<input type="checkbox"/> Dispose Water

(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

13. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)

TD: 6137' PBD: 6101' PERFS: 5800-7705'

MIRUPU. POH w/rods & pmp. NDWH. NUBOP. Release TAC @ 5705'. POH w/tbg & TAC.
RIH w/4-3/4" bit & scraper to top of whipstock @ 5782'. POH.
RUWL. GIH w/CIBP & set @ 5770'. POH.
GIH & perf w/2JSPF 5472-5736'. POH. GIH w/PPI tools & breakdown perfs f/5472-5736'
w/50 gals/ft. 15% HCL NEFE. POH.
RIH w/bull plugged MA, perf sub, SN & 2-3/8" tbg. Land SN at +/- 5736'.
NDBOP. NUWH. Swab for test. GIH w/GA, pmp & rods. Hang well on. RDP. RTP.



14. I hereby certify that the foregoing is true and correct

Signed [Signature] Title Sr. Administrative Assistant Date 01/08/02

(This space for Federal or State office use)

Approved by _____ Title _____ Date _____
Conditions of approval, if any:

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statement or representations as to any matter within its jurisdiction.

* See Instruction on Reverse Side

RECEIVED
2007 JAN -9 AM 9:09
BUREAU OF LAND MANAGEMENT
ROSWELL OFFICE

District I
1625 N. French Dr., Hobbs, NM 88240
District II
1301 W. Grand Avenue, Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy Minerals and Natural Resources

Form C-104A
March 19, 2001

Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

Submit 1 copy of the final affected wells
list along with 1 copy of this form per
number of wells on that list to appropriate
District Office

Change of Operator

Previous Operator Information:

OGRID: 000900
Name: ARCO Permian
Address: P.O. Box 3092
Address: _____
City, State, Zip: Houston, Texas 77253

New Operator Information:

Effective Date: 12/31/2001
New Ogrid: 000778
New Name: BP America Production Company
Address: P.O. Box 3092
Address: _____
City, State, Zip: Houston, TX 77253

I hereby certify that the rules of the Oil Conservation Division have been complied with and that the information on this form and the attached list of wells is true and complete to the best of my knowledge and belief.

New Operator
Signature: Mary Corley
Printed name: Mary Corley
Title: Sr. Regulatory Specialist
Date: 12/10/2001 Phone: 281-366-4491



Previous operator complete below:

Previous
Operator: ARCO Permian
Previous
OGRID: 000990
Signature: Mary Corley
Printed
Name: Mary Corley

NMOCD Approval	
Signature: <u>Jim W. Beem?</u>	
Printed Name: <u>District Supervisor</u>	
District: _____	
Date: <u>FEB 07 2002</u>	

Form 3160-5
(June 1990)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

N.M. Oil Con - D14-Dist 9
1001 W. Grand Ave
Alamogordo, NM 88310

FORM APPROVED
Budget Bureau No. 1004-0135
Expires: March 31, 1993

CIST

SUNDRY NOTICES AND REPORTS ON WELLS
Do not use this form for proposals to drill or to deepen or reentry to a different reservoir.
Use "APPLICATION FOR PERMIT -" for such proposals

5. Lease Designation and Serial No.

NM0557371

6. If Indian, Allottee or Tribe Name

7. If Unit or CA, Agreement Designation
8910138010

8. Well Name and No.
Empire Abo Unit "K" 17

9. API Well No.
30-015-00703

10. Field and Pool, or exploratory Area
Empire Abo

11. County or Parish, State
Eddy NM

SUBMIT IN TRIPLICATE

1. Type of Well

Oil Well Gas Well Other

2. Name of Operator

BP America Production Company

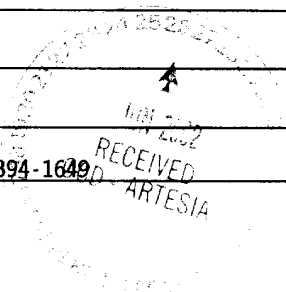
3. Address and Telephone No.

P.O. Box 1089, Eunice, NM 88231

505-394-1649

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)

Unit Letter L, 1980' FSL & 660' FWL
Section 1, T18S, R27E



12. CHECK APPROPRIATE BOX(S) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION
<input type="checkbox"/> Notice of Intent	<input type="checkbox"/> Abandonment
<input checked="" type="checkbox"/> Subsequent Report	<input type="checkbox"/> Recompletion
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Plugging Back
	<input type="checkbox"/> Casing Repair
	<input type="checkbox"/> Altering Casing
	<input type="checkbox"/> Other <u>Workover</u>
	<input type="checkbox"/> Change of Plans
	<input type="checkbox"/> New Construction
	<input type="checkbox"/> Non-Routine Fracturing
	<input type="checkbox"/> Water Shut-Off
	<input type="checkbox"/> Conversion to Injection
	<input type="checkbox"/> Dispose Water

(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

13. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

TD: 6137' CIBP: 5770' PERFS: 5472-5736'

- 05.30.02: Unset pmp & TOH w/rods & pmp. NDWH. NUBOP. Unset at TAC & POH w/tbg.
- 05.31.02: TIH w/bit & scraper. Testing tbg to 5000# psi below slips. Tag @ 5780'. TOH.
- 06.03.02: RU & perf 2 JSPF 5472-79', 5492-94', 5498-5516', 5527-29', 5540-48', 5565-75', 5580-86', 5591-97', 5613-17', 5638-59', 5540-58', 5565-75', 5580-86', 5591-97', 5613-17', 5638-59', 5710-15', 5722-36', 230 holes. TIH w/treating pkr. Set @ 5383'.
- 06.04.02: Drop SV. RU & pmp 20 bbls 7.5% HCL to pickle tbg. Swab back acid. Fish SV. Pmp 5,150 gals 15% HCL w/350 ball sealers. TOH w/pkr. SION.
- 06.05.02: TIH w/3-3/4" bailer & recover ball seals. TOH. TIH w/production tbg. Set @ 5704' SN @ 5720'. NDBOP. Set TAC NUWH.
- 06.07.02: Load & test to 500# psi. Held OK. In 24 hrs pmp 0 BO, 1 BW, 2 MCF.

ACCEPTED FOR RECORD
JUN 21 2002
LES BABYAK
PETROLEUM ENGINEER

14. I hereby certify that the foregoing is true and correct

Signed

[Signature]

Title Sr. Administrative Assistant

Date 06.18.02

(This space for Federal or State office use)

Approved by _____

Title _____

Date _____

Conditions of approval, if any:

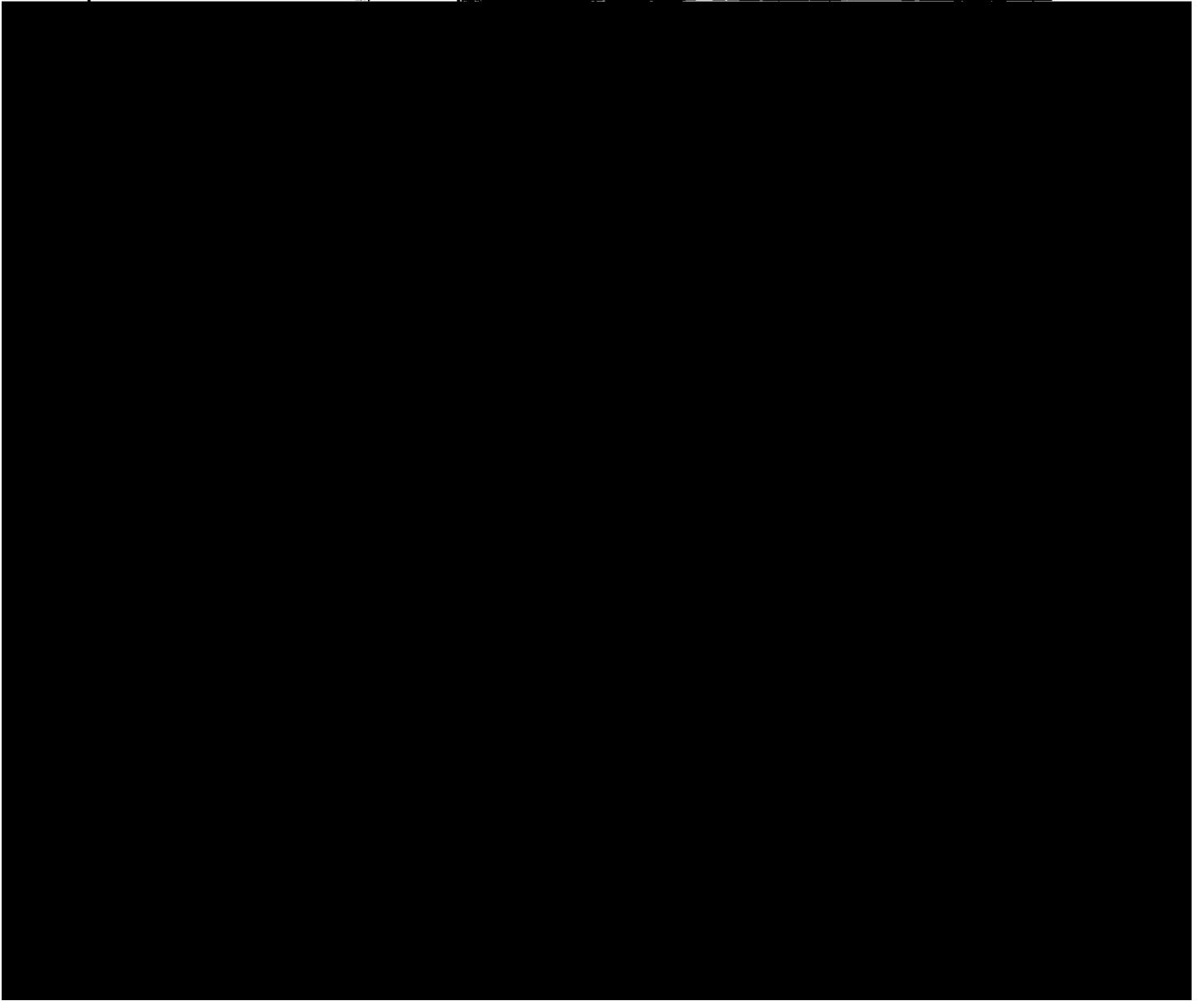
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* See Instruction on Reverse Side

30-015-100103

466850-W
2811047-G
2811057-O
2812373-G

DD-105(H)
Appv 1-18-95



UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

OCD-ARTESIA

FORM APPROVED
OMB NO. 1004-0135
Expires: November 30, 2000

EC

SUNDRY NOTICES AND REPORTS ON WELLS
Do not use this form for proposals to drill or to re-enter an abandoned well. Use form 3160-3 (APD) for such proposals.

5. Lease Serial No.
NMNM0557371

6. If Indian, Allottee or Tribe Name

SUBMIT IN TRIPLICATE - Other instructions on reverse side.

7. If Unit or CA/Agreement, Name and/or No.
NMNM70945X

1. Type of Well
 Oil Well Gas Well Other

8. Well Name and No.
EMPIRE ABO K 17

2. Name of Operator
BP AMERICA PRODUCTION CO
Contact: KELLIE D. MURRISH
E-Mail: murrikd@bp.com

9. API Well No.
30-015-00703-00-S1

3a. Address
HOUSTON, TX 77253 Eunice, Nm 88231

3b. Phone No. (include area code)
Ph: 505.394.1649
Fx: 505.394.1624

10. Field and Pool, or Exploratory
EMPIRE

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)
Sec 1 T18S R27E NWSW 1980FSL 660FWL

11. County or Parish, and State
EDDY COUNTY, NM

RECEIVED
NOV 19 2004
OCD-ARTESIA

12. CHECK APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION			
<input checked="" type="checkbox"/> Notice of Intent	<input type="checkbox"/> Acidize	<input type="checkbox"/> Deepen	<input type="checkbox"/> Production (Start/Resume)	<input type="checkbox"/> Water Shut-Off
<input type="checkbox"/> Subsequent Report	<input type="checkbox"/> Alter Casing	<input type="checkbox"/> Fracture Treat	<input type="checkbox"/> Reclamation	<input type="checkbox"/> Well Integrity
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Casing Repair	<input type="checkbox"/> New Construction	<input type="checkbox"/> Recomplete	<input type="checkbox"/> Other
	<input type="checkbox"/> Change Plans	<input type="checkbox"/> Plug and Abandon	<input checked="" type="checkbox"/> Temporarily Abandon	
	<input type="checkbox"/> Convert to Injection	<input type="checkbox"/> Plug Back	<input type="checkbox"/> Water Disposal	

13. Describe Proposed or Completed Operation (clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recompleat horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports shall be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompleat in a new interval, a Form 3160-4 shall be filed once testing has been completed. Final Abandonment Notices shall be filed only after all requirements, including reclamation, have been completed, and the operator has determined that the site is ready for final inspection.)

TD: 6137' PBD: 5770' CIBP PERFS: 5472-5736'

SET CIBP @ 5442' W/35' CMT ON TOP
CIRC HOLE W/PKR FLUID
TEST TO 500# FOR 30 MINS. CUT CHART
IDLE WELL

** Perform MIT + submit justification for TA status.*

ATTACHMENT: WELLBORE SCHEMATIC EAU-N-901

14. I hereby certify that the foregoing is true and correct.

**Electronic Submission #35932 verified by the BLM Well Information System
For BP AMERICA PRODUCTION CO, sent to the Carlsbad
Committed to AFMSS for processing by ARMANDO LOPEZ on 09/10/2004 (04AL0355SE)**

Name (Printed/Typed) KELLIE D. MURRISH	Title AUTHORIZED REPRESENTATIVE
Signature (Electronic Submission)	Date 09/10/2004

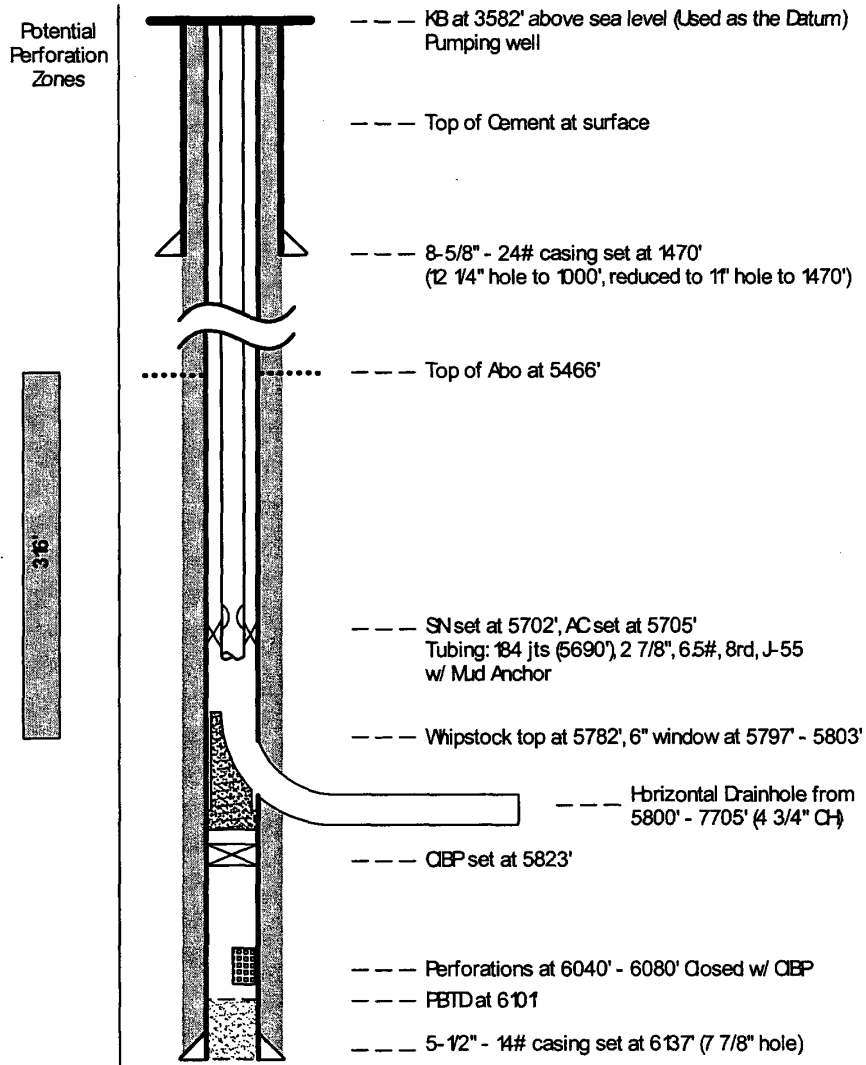
THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved By <u>/s/ Joe G. Lara</u>	Title <u>Petroleum Engineer</u>	NOV 16 2004
* Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.		Office <u>CARLSBAD FIELD OFFICE</u>

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

**** BLM REVISED ** BLM REVISED ** BLM REVISED ** BLM REVISED ** BLM REVISED ****

Empire Abo Unit 'K' 17





NEW MEXICO ENERGY, MINERALS and
NATURAL RESOURCES DEPARTMENT

BILL RICHARDSON
Governor
Joanna Prukop
Cabinet Secretary

Mark E. Fesmire, P.E.
Director
Oil Conservation Division

29-Jul-05

BP AMERICA PRODUCTION COMPANY
PO Box 1089
Eunice NM 88231-0000

NOTICE OF VIOLATION - Inactive Well(s)

Dear Operator:

A review of our records and recent inspection(s) indicate that the subject well(s) has been shut-in for an extended period of time. Rule 201 of the Rules and Regulation of the Oil Conservation Division provides that a well may be shut-in no longer than sixty days after suspension of drilling operations, upon determining that the well is no longer usable (e.g., a dry hole), or one year after last production. To comply with guidelines as established in the Rules and Regulations, corrective actions must be taken immediately and the well(s) brought into compliance.

The detail section below indicates preliminary findings and/or probable nature of the violation.

The following options are available:

1. Immediately restore the well(s) to production, injection or disposal as applicable.
2. Request 'Temporary Abandoned' status pursuant to Rule 203, which requires that you set a plug and conduct a mechanical integrity test.
3. Submit a proposal to 'Plug and Abandon' the well(s) pursuant to Rule 202, proceed with plugging procedures on a timely basis after the proposal has been evaluated, amended and/or approved.

In the event that a satisfactory response is not received to this letter of direction by the "Corrective Action Due By:" date shown above, further enforcement will occur. Such enforcement may include this office applying to the Division for an order summoning you to a hearing before a Division Examiner in Santa Fe to show cause why you should not be ordered to permanently plug and abandon this well. Such a hearing may result in imposition of CIVIL PENALTIES for your violation of OCD rules.

IDLE WELL INSPECTION DETAIL SECTION

EMPIRE ABO UNIT 017A	L-1-18S-27E	30-015-00703-00-00	Inspection No. iCLB0521037721
Inspection Date: 7/29/2005 10:28:39 AM	Corrective Action Due by: 11/1/2005		
Type Inspection	Inspector	Violation?	*Significant Non-Compliance?
Routine/Periodic	Chris Beadle	Yes	No
Comments on Inspection:	idle Well (Rule 201). No flowline attached, no production equipment on site. Last reported production was December 2002. Marker approximately 15 feet from wellhead for new well (AAO Federal 9).		

Thank you for your prompt attention to this matter and your efforts in helping to protect our environment and the infrastructure of the oil and gas industry.

Sincerely,



Artesia OCD District Office

* Significant Non-Compliance events are reported directly to the U.S. Environmental Protection Agency, Region VI, Dallas, Texas.

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM APPROVED
OMB NO. 1004-0137
Expires March 31, 2007

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or to re-enter an abandoned well. Use Form 3160-3 (APD) for such proposals.

SUBMIT IN TRIPLICATE - Other instructions on reverse side

RECEIVED

OCT 11 2005

OOO-ANTESIA

1. Type of Well
 Oil Well Gas Well Other

2. Name of Operator
BP America Production Company

3a. Address
P.O. Box 1089 Eunice NM 88231

3b. Phone No. (include area code)
505.394.1600

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)
NWSW, SEC 1, T18S, R27E, 1980' FSL & 660' FWL

5. Lease Serial No.
NMNM0557371

6. If Indian, Allottee or Tribe Name

7. If Unit or CA/Agreement, Name and/or No.
EMPIRE ABO UNIT 17

8. Well Name and No.
'K'

9. API Well No.
30.015.00703

10. Field and Pool, or Exploratory Area
EMPIRE ABO

11. County or Parish, State
EDDY NM

12. CHECK APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION			
<input checked="" type="checkbox"/> Notice of Intent	<input type="checkbox"/> Acidize	<input type="checkbox"/> Deepen	<input type="checkbox"/> Production (Start/Resume)	<input type="checkbox"/> Water Shut-Off
<input type="checkbox"/> Subsequent Report	<input type="checkbox"/> Alter Casing	<input type="checkbox"/> Fracture Treat	<input type="checkbox"/> Reclamation	<input type="checkbox"/> Well Integrity
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Casing Repair	<input type="checkbox"/> New Construction	<input type="checkbox"/> Recomplete	<input checked="" type="checkbox"/> Other <u>IDLE WELL</u>
	<input type="checkbox"/> Change Plans	<input type="checkbox"/> Plug and Abandon	<input type="checkbox"/> Temporarily Abandon	
	<input type="checkbox"/> Convert to Injection	<input type="checkbox"/> Plug Back	<input type="checkbox"/> Water Disposal	

13. Describe Proposed or Completed Operation (clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recompleat horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports shall be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompleat in a new interval, a Form 3160-4 shall be filed once testing has been completed. Final Abandonment Notices shall be filed only after all requirements, including reclamation, have been completed, and the operator has determined that the final site is ready for final inspection.)

ID: 6137' PBD: 6101' VERTICAL PERFS: 5472-5736' CIEP: 5823'
WHIPSTOCK PERFS: 040-6080'

BP America Production Company requests a 60 day extention for the Notice of Violation - Idle Well issued by the New Mexico Oil Conservation Commission. The Corrective Action Due Date for this notice is 11.01.05.

The current scope of work includes testing the previous perfs @ 6050-6080 by:

- MIRUPU
- POH RODS & EQUIP
- REMOVE WHIPSTOCK & CIEP
- RIH W/PKR ASSY & SET BELOW HORIZONTAL SECTION
- TEST LOWER PERFORATED INTERVAL
- EVALUATE FINDINGS FROM LOWER ZONE

Accepted for record - NMOCD

14. I hereby certify that the foregoing is true and correct
 Name (Printed/Typed) **Kellie D. Murrish** Title **Scheduler**

Kellie D. Murrish Date **10.07.05**

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved by _____ Title _____ Date _____

Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon. Office _____

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UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT
N.M. Oil Cons. Div-Dist. 2
1301 W. Grand Avenue
Artesia, NM 88210

FORM APPROVED
OMB NO. 1004-0137
Expires March 31, 2007

SUNDRY NOTICES AND REPORTS ON WELLS
Do not use this form for proposals to drill or to re-enter an abandoned well. Use Form 3160-3 (APD) for such proposals.

SUBMIT IN TRIPLICATE - Other instructions on reverse side

RECEIVED

OCT 18 2005

ODD-ARTESIA

1. Type of Well
 Oil Well Gas Well Other

2. Name of Operator
BP America Production Company

3a. Address
P.O. Box 1089 Emice NM 88231

3b. Phone No. (include area code)
505.394.1600

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)
NWSW, SEC 1, T18S, R27E, 1980' FSL & 660' FWL

5. Lease Serial No.
NMM0557371

6. If Indian, Allottee or Tribe Name

7. If Unit or CA/Agreement, Name and/or No.

8. Well Name and No.
EMPIRE ABO UNIT 17
'K'

9. API Well No.
30.015.00703

10. Field and Pool, or Exploratory Area
EMPIRE ABO

11. County or Parish, State
EDDY NM

12. CHECK APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION			
<input checked="" type="checkbox"/> Notice of Intent	<input type="checkbox"/> Acidize	<input type="checkbox"/> Deepen	<input type="checkbox"/> Production (Start/Resume)	<input type="checkbox"/> Water Shut-Off
<input type="checkbox"/> Subsequent Report	<input type="checkbox"/> Alter Casing	<input type="checkbox"/> Fracture Treat	<input type="checkbox"/> Reclamation	<input type="checkbox"/> Well Integrity
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Casing Repair	<input type="checkbox"/> New Construction	<input type="checkbox"/> Recomplete	<input checked="" type="checkbox"/> Other IDLE WELL
	<input type="checkbox"/> Change Plans	<input type="checkbox"/> Plug and Abandon	<input type="checkbox"/> Temporarily Abandon	
	<input type="checkbox"/> Convert to Injection	<input type="checkbox"/> Plug Back	<input type="checkbox"/> Water Disposal	

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WHIPSTOCK PERFS: 040-6080'

BP America Production Company requests a 60 day extention for the Notice of Violation - Idle Well issued by the New Mexico Oil Conservation Commission. The Corrective Action Due Date for this notice is 11.01.05.

The current scope of work includes testing the previous perfs @ 6050-6080 by:

MIRUPU
POH RODS & EQUIP
REMOVE WHIPSTOCK & CIBP
RIH W/PKR ASSY & SET BELOW HORIZONTAL SECTION
TEST LOWER PERFORATED INTERVAL
EVALUATE FINDINGS FROM LOWER ZONE

APPROVED FOR 2 MONTH PERIOD
ENDING 12/15/05

14. I hereby certify that the foregoing is true and correct
Name (Printed/Typed)

Kellie D. Murrish

Title

Scheduler

Date **10.07.05**

Accepted for record - NMOCD

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved by **(ORIG. SGD.) ALEXIS C. SWOBODA**

Title **PETROLEUM ENGINEER**

Date **OCT 13 2005**

Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

Office **RFO**

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UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

DEC 10 2008

FORM APPROVED
OMB NO. 1004-0137
Expires March 31, 2007

OCD
ARTESIA

SUNDRY NOTICES AND REPORTS ON WELLS

OCD-ARTESIA

Do not use this form for proposals to drill or to re-enter an abandoned well. Use Form 3160-3 (APD) for such proposals.

5. Lease Serial No
NMNM0557371

6. If Indian, Allottee or Tribe Name

7. If Unit or CA/Agreement, Name and/or No.
NMNM70945X

8. Well Name and No.
Empire Abo Unit 17

9. API Well No.
K
30-015-00703

10. Field and Pool, or Exploratory Area
Empire Abo

11. County or Parish, State
Eddy NM

SUBMIT IN TRIPLICATE - Other instructions on reverse side

1. Type of Well
 Oil Well Gas Well Other

2. Name of Operator
BP America Production Company

3a. Address
P.O. Box 1089 Eunice NM 88231

3b. Phone No. (include area code)
575-394-1648

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)
Unit Letter L, 1980 FSL & 660 FWL
Section 1, T18S, R27E

12. CHECK APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION				
<input checked="" type="checkbox"/> Notice of Intent	<input type="checkbox"/> Acidize	<input type="checkbox"/> Deepen	<input type="checkbox"/> Production (Start/Resume)	<input type="checkbox"/> Water Shut-Off	
<input type="checkbox"/> Subsequent Report	<input type="checkbox"/> Alter Casing	<input type="checkbox"/> Fracture Treat	<input type="checkbox"/> Reclamation	<input type="checkbox"/> Well Integrity	
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Casing Repair	<input type="checkbox"/> New Construction	<input type="checkbox"/> Recomplete	<input type="checkbox"/> Other	
	<input type="checkbox"/> Change Plans	<input checked="" type="checkbox"/> Plug and Abandon	<input type="checkbox"/> Temporarily Abandon		
	<input type="checkbox"/> Convert to Injection	<input type="checkbox"/> Plug Back	<input type="checkbox"/> Water Disposal		

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- MIRU PU. Check tubing, casing and surface pipe for pressure - bleed off into containment. Kill well as necessary. Monitor well and assure it's stable. POH LD/warehouse rods and pump.
- Monitor well and assure it is stable. ND WH, NU BOP. Release TAC and TOH.
- TIH with CIBP on 2 3/8" tubing and set at 5420'. Spot 250' cement plug on top of CIBP using 25 sx Class C neat. PU to 5150'. Load hole with mud-laden fluid (9 ppg, 1250# gel/100 bbl).
- TOH to 3400' (Glorieta top = 3290'). Spot 25 sack balanced cement plug from 3400' - 3150'. TOH.
- TIH with bull plug and perf nipple on tubing. Tag Glorieta plug; re-spot if necessary.
- TOH to 1550' (8 5/8" surface casing shoe = 1470'). Spot 35 sack balanced cement plug from 1550' - 1200'. PU and WOC 2 hours. Tag plug, re-spot if necessary.
- TOH to 300' (Yates top = 172'). Fill 5 1/2" casing from 300' to surface with 30 sx Class C neat. TOH LD tubing.
- RD PU.
- Dig out WH and cut-off casingheads to 3' below GL.
- Install regulation dry-hole marker. Clean location and prepare location for BLM inspections.

SEE ATTACHED FOR
CONDITIONS OF APPROVAL

14. I hereby certify that the foregoing is true and correct
Name (Printed/Typed)

Barry C. Price

Title

Area Operations Team Lead

Barry C. Price

DEC 10 2008

Date 11/18/08

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved by

APPROVED

Date
DEC 1 2008

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JAMES A. AMOS
SUPERVISOR-EPS

**BUREAU OF LAND MANAGEMENT
Carlsbad Field Office
620 East Greene Street
Carlsbad, New Mexico 88220
575-234-5972**

**Permanent Abandonment of Federal Wells
Conditions of Approval**

Failure to comply with the following Conditions of Approval may result in a Notice of Incidents of Noncompliance (INC) in accordance with 43 CFR 3163.1.

1. Plugging operations shall commence within ninety (90) days from the approval date of this Notice of Intent to Abandon.

If you are unable to plug the well by the 90th day provide this office, prior to the 90th day, with the reason for not meeting the deadline and a date when we can expect the well to be plugged. Failure to do so will result in enforcement action.

2. **Notification:** Contact the appropriate BLM office at least 24 hours prior to the commencing of any plugging operations. For wells in Chaves and Roosevelt County, call 575-627-0272; Eddy County, call 575-361-2822; Lea County, call 575-393-3612.

3. **Blowout Preventers:** A blowout preventer (BOP), as appropriate, shall be installed before commencing any plugging operation. The minimum BOP requirement is a 2M system for a well not deeper than 9,090 feet; a 3M system for a well not deeper than 13,636 feet; and a 5M system for a well not deeper than 22,727 feet.

4. **Mud Requirement:** Mud shall be placed between all plugs. Minimum consistency of plugging mud shall be obtained by mixing at the rate of 25 sacks (50 pounds each) of gel per 100 barrels of water. Minimum nine (9) pounds per gallon.

5. **Cement Requirement:** Sufficient cement shall be used to bring any required plug to the specified depth and length. Any given cement volumes on the proposed plugging procedure are merely estimates and are not final. Unless specific approval is received, no plug except the surface plug shall be less than 25 sacks of cement. In lieu of a cement plug in a cased hole, a bridge plug set within 50 feet to 100 feet above the perforations shall be capped with 25 sacks of cement. If a bailer is used to cap this plug, 35 feet of cement shall be sufficient.

Unless otherwise specified in the approved procedure, the cement plug shall consist of either Neat Class "C", for up to 7,500 feet of depth or Neat Class "H", for deeper than 7,500 feet plugs.

6. **Dry Hole Marker:** All casing shall be cut-off at the base of the cellar or 3 feet below final restored ground level (whichever is deeper). The well bore shall then be capped with a 4-inch pipe, 10-feet in length, 4 feet above ground and embedded in cement. The following information shall be permanently inscribed on the dry hole marker: well name and number, name of the operator, lease serial number, surveyed location (quarter-quarter section, section, township and range or other authorized survey designation acceptable to the authorized officer such as metes and bounds).

7. **Subsequent Plugging Reporting:** Within 30 days after plugging work is completed, file one original and five copies of the Subsequent Report of Abandonment, Form 3160-5 to BLM. The report should give in detail the manner in which the plugging work was carried out, the extent (by depths) of cement plugs placed, and the size and location (by depths) of casing left in the well. **Show date well was plugged.**

8. **Trash:** All trash, junk and other waste material shall be contained in trash cages or bins to prevent scattering and will be removed and deposited in an approved sanitary landfill. Burial on site is not permitted.

Following the submission and approval of the Subsequent Report of Abandonment, surface restoration conditions of approval will be developed and furnished to you.

FEB 18 2009

FORM APPROVED
OMB NO. 1004-0137
Expires March 31, 2007

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or to re-enter an abandoned well. Use Form 3160-3 (APD) for such proposals.

SUBMIT IN TRIPLICATE - Other instructions on reverse side

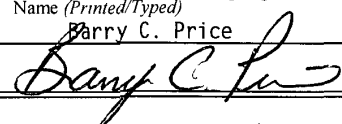
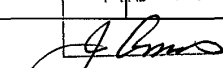
1. Type of Well <input checked="" type="checkbox"/> Oil Well <input type="checkbox"/> Gas Well <input type="checkbox"/> Other		5. Lease Serial No. NMNM0557371
2. Name of Operator BP America Production Company		6. If Indian, Allottee or Tribe Name
3a. Address P.O. Box 1089 Eunice NM 88231	3b. Phone No. (include area code) 575-394-1648	7. If Unit or CA/Agreement, Name and/or No NMNM70945X
4. Location of Well (Footage, Sec., T., R., M., or Survey Description) Unit Letter L, 1980 FSL & 660 FWL Section 1, T18S, R27E		8. Well Name and No Empire Abo Unit 17 K
		9. API Well No 30-015-00703
		10. Field and Pool, or Exploratory Area Empire Abo
		11. County or Parish, State Eddy NM

12. CHECK APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION			
<input type="checkbox"/> Notice of Intent	<input type="checkbox"/> Acidize	<input type="checkbox"/> Deepen	<input type="checkbox"/> Production (Start/Resume)	<input type="checkbox"/> Water Shut-Off
<input checked="" type="checkbox"/> Subsequent Report	<input type="checkbox"/> Alter Casing	<input type="checkbox"/> Fracture Treat	<input type="checkbox"/> Reclamation	<input type="checkbox"/> Well Integrity
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Casing Repair	<input type="checkbox"/> New Construction	<input type="checkbox"/> Recomplete	<input checked="" type="checkbox"/> Other Remove CIBP
	<input type="checkbox"/> Change Plans	<input type="checkbox"/> Plug and Abandon	<input type="checkbox"/> Temporarily Abandon	
	<input type="checkbox"/> Convert to Injection	<input type="checkbox"/> Plug Back	<input type="checkbox"/> Water Disposal	

13 Describe Proposed or Completed Operation (clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recomplete horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports shall be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompletion in a new interval, a Form 3160-4 shall be filed once testing has been completed. Final Abandonment Notices shall be filed only after all requirements, including reclamation, have been completed, and the operator has determined that the final site is ready for final inspection.)

SUBSEQUENT REPORT FOR THIS WORK WAS INADVERTENTLY OVERLOOKED AND BP FAILED TO FILE OR NOTIFY OF RTP. REPORT NOW BEING SUBMITTED TO UPDATE BLM RECORDS. 1/20/06: MIRUPU. Unseat pump lay down 66-1' rods, 69 7/8' rods, 82 3/4' rods, 10 7/8' rods w/ g & pump. Prep to NU BOP. 1/23/06: NDWH NU BOP release TAC laydown prod tbg. 1/24/06: TIH w/ 4 3/4' bit picking up 66 jt 2 7/8 DP & 2 7/8 tbg workstring to 5100'. 1/25/06: RU foam air unit break circ w/ air TIP tag CIBP @ 5768' by our SLM. RU power swivel start drlg on CIBP. Plug turned loose in 2 hr. Push to 5779' circ clean w/ foam air blow well down. 1/26/06: TIH push CIBP to end of horizontal @ 7700' TOH laydown 2 7/8". 1/27/06: Pick up hook, bumper sub, jars, & 4 3 1/2" DC - TIH w/tbg fish for Whipstock from 5736 5862' no bite. TOH w/ hook prep to run box tap. 1/30/06: TIH w/ box tap, BS, Jars, 4 3 1/2" DC & tbg tag whipstock @ 5806' work over fish try to work whipstock loose kept pulling off. TOH WOO. 1/31/06: Rig down foam air unit & power swivel - laydown DC - TIH w/ work string & laydown same - chg out tbg & BOP rams. 2/1/06: Pickup 2 3/8 prod tbg test in hole 5000 psi below slips. 2/2/06: ND BOP NUWH. Pickup pump & new rod design space well out left 7' of polish rod out load & test to 500 psi-ok - no pump action - unseat pump flush 10 bbl water - load test to 500 psi-ok-still no pump action. 2/3/06: TOH w/ rods & pump. Run swab to ck fluid level dry. WOO. 2/6/06: Pump 30 bbl while adding 2 jt to lower SN to 5769' swab test no fluid. 2/7/06: Swab test still no fluid. 2/8/06: Run pump & rods L&T to 500 psi-ok. RD. RTP well test 11/5/06-6 mcf gas, 8 bbls oil, 1 bbl water.

14 I hereby certify that the foregoing is true and correct Name (Printed/Typed) Barry C. Price	Title Area Operations Team Lead	ACCEPTED FOR RECORD
	Date 2/2/09	
THIS SPACE FOR FEDERAL OR STATE OFFICE USE		
Approved by	Title	Date Feb 16 2009
Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon	Office	
Title 18 U.S.C. Section 1001, and Title 43 U.S.C. Section 1212, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.		

FOR RECORDS ONLY

ML

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

OCD-ARTESIA

MAR 30 2009

FORM APPROVED
OMB No. 1004-0137
Expires: March 31, 2007

RM

SUNDRY NOTICES AND REPORTS ON WELLS
Do not use this form for proposals to drill or to re-enter an abandoned well. Use Form 3160-3 (APD) for such proposals.

SUBMIT IN TRIPLICATE - Other instructions on page 2.

1. Type of Well <input checked="" type="checkbox"/> Oil Well <input type="checkbox"/> Gas Well <input type="checkbox"/> Other		7. If Unit of CA/Agreement, Name and/or No. NMMN70945X
2. Name of Operator BP AMERICA PRODUCTION COMPANY		8. Well Name and No. EMPIRE ABO UNIT K 17
3a. Address P.O. BOX 1089, EUNICE NM 88231	3b. Phone No. (include area code) 575-394-1648	9. API Well No. 30-015-00703
4. Location of Well (Footage, Sec., T., R., M., or Survey Description) UNIT LETTER L, 1980 FSL & 660 FWL, SECTION 1, T18S, R27E		10. Field and Pool or Exploratory Area EMPIRE ABO
		11. Country or Parish, State EDDY NM

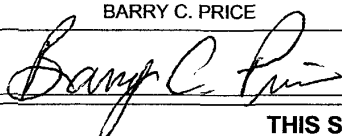
12. CHECK THE APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION			
<input type="checkbox"/> Notice of Intent	<input type="checkbox"/> Acidize	<input type="checkbox"/> Deepen	<input type="checkbox"/> Production (Start/Resume)	<input type="checkbox"/> Water Shut-Off
<input checked="" type="checkbox"/> Subsequent Report	<input type="checkbox"/> Alter Casing	<input type="checkbox"/> Fracture Treat	<input type="checkbox"/> Reclamation	<input type="checkbox"/> Well Integrity
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Casing Repair	<input type="checkbox"/> New Construction	<input type="checkbox"/> Recomplete	<input type="checkbox"/> Other _____
	<input type="checkbox"/> Change Plans	<input checked="" type="checkbox"/> Plug and Abandon	<input type="checkbox"/> Temporarily Abandon	
	<input type="checkbox"/> Convert to Injection	<input type="checkbox"/> Plug Back	<input type="checkbox"/> Water Disposal	

13. Describe Proposed or Completed Operation: Clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recomplate horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports must be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompletion in a new interval, a Form 3160-4 must be filed once testing has been completed. Final Abandonment Notices must be filed only after all requirements, including reclamation, have been completed and the operator has determined that the site is ready for final inspection.)


3/12/09: ND WH. RELEASE TAC. NU BOP. POH LAYING DOWN TBG:
3/13/09: RIH W/ 4 3/4" BIT, CSG SCRAPER & 185 JTS 2 3/8" TBG TO 5787'. POH W/ TBG TO 3523'.
3/16/09: KILL WELL W/ 20 BBL BRINE. POH W/ 2 STANDS TBG. POH W/ TBG & SCRAPER. LAY DOWN SCRAPER. RIH W/ CIBP & TBG. SET CIBP @ 5770'. PUMP 25 BBL FRESH WATER ON VACUUM. PUMP 20 SX CMT ON VACUUM. DISPLACED W/ 20 BBL FRESH WATER ON VACUUM. POH LAYING DOWN 11 JTS TBG. FLUSH TBG W/ 10 BBL FRESH WATER ON VACUUM.
3/17/09: POH W/ TBG. RIH W/ CIBP & 2 3/8" TBG. SET CIBP @ 5420'. DISPLACE CSG W/ FRESH WATER. TEST TO 500 PSI. TEST GOOD. SPOT 25 SX CMT FROM 5420' TO 5179'. LAY DOWN 8 JTS TBG. DISPLACE CSG FROM 5160' TO SURFACE. POH LAYING DOWN TBG TO 3416'. SPOT 25 SX CMT FROM 3416' TO 3175'. POH W/ TBG & SETTING TOOL. RIH W/ SLOTTED SUB ON 2 3/8" TBG.
3/18/09: RIH W/ TBG. TAG CMT @ 3152'. LAY DOWN 51 JTS TBG TO 1566'. MIX & PUMP 170 SX CMT FROM 1566' TO SURF. POH LAYING DOWN TBG. ND BOP. TOP OFF CSG W/ 5 SX CMT. RD.
3/19/09: DIG OUT AROUND WELLHEAD. CUT OFF ALL ANCHORS AND WELL HEAD, WELD IN PLATE, 1" NIPPLE & VALVE, DRY HOLE MARKER, BACKFILL AND LEVEL LOCATION.

**Approved as to plugging of the well bore,
Liability under bond is retained until
Surface restoration is completed.**

14. I hereby certify that the foregoing is true and correct. Name (Printed/Typed) BARRY C. PRICE		Title AREA OPERATIONS TEAM LEAD
Signature 	Date 03/23/2009	<div style="border: 2px solid black; padding: 5px; width: fit-content; margin: 0 auto;"> <p style="font-size: 1.2em; margin: 0;">APPROVED</p> <p style="font-size: 1.2em; margin: 0;">MAR 26 2009</p> <p style="font-size: 0.8em; margin: 0;">Date</p> <p style="font-size: 0.8em; margin: 0;">JAMES A. AMOS SUPERVISOR-EPS</p> </div>
THIS SPACE FOR FEDERAL OR STATE OFFICE USE		
Approved by _____	Title _____	Office _____
Conditions of approval, if any, are attached Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon		

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

(Instructions on page 2)

 3/31/09

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

OCD-ARTESIA

FORM APPROVED
OMB NO. 1004-0137
Expires March 31, 2007

LM

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or to re-enter an abandoned well. Use Form 3160-3 (APD) for such proposals.

APR 15 2009

5. Lease Serial No.
NMNM0557371

6. If Indian, Allottee or Tribe Name

SUBMIT IN TRIPLICATE - Other instructions on reverse side

7. If Unit or CA/Agreement, Name and/or No.
NMNM70945X

1. Type of Well
 Oil Well Gas Well Other

8. Well Name and No.
Empire Abo Unit 17
K

2. Name of Operator
BP America Production Company

9. API Well No.
30-015-00703

3a. Address
P.O. Box 1089 Eunice NM 88231

3b. Phone No. (include area code)
575-394-1648

10. Field and Pool, or Exploratory Area
Empire Abo

4. Location of Well (Footage, Sec, T, R., M., or Survey Description)
Unit Letter L, 1980 FSL & 660 FWL
Section 1, T18S, R27E

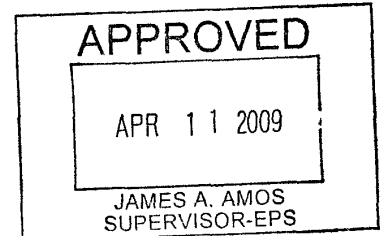
11. County or Parish, State
Eddy NM

12. CHECK APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION			
<input type="checkbox"/> Notice of Intent	<input type="checkbox"/> Acidize	<input type="checkbox"/> Deepen	<input type="checkbox"/> Production (Start/Resume)	<input type="checkbox"/> Water Shut-Off
<input type="checkbox"/> Subsequent Report	<input type="checkbox"/> Alter Casing	<input type="checkbox"/> Fracture Treat	<input type="checkbox"/> Reclamation	<input type="checkbox"/> Well Integrity
<input checked="" type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Casing Repair	<input type="checkbox"/> New Construction	<input type="checkbox"/> Recomplete	<input type="checkbox"/> Other _____
	<input type="checkbox"/> Change Plans	<input type="checkbox"/> Plug and Abandon	<input type="checkbox"/> Temporarily Abandon	
	<input type="checkbox"/> Convert to Injection	<input type="checkbox"/> Plug Back	<input type="checkbox"/> Water Disposal	

13. Describe Proposed or Completed Operation (clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recomplete horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports shall be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompletion in a new interval, a Form 3160-4 shall be filed once testing has been completed. Final Abandonment Notices shall be filed only after all requirements, including reclamation, have been completed, and the operator has determined that the final site is ready for final inspection.)

Per BLM letter referencing this well, dated March 27, 2009, all requirements have been met for final abandonment.



APR 14 2009

14. I hereby certify that the foregoing is true and correct
Name (Printed/Typed) Barry C. Price
Barry C. Price
Title Area Operations Team Lead
Date 4/7/09

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved by _____ Title _____ Date _____
Office _____

Title 18 U.S.C. Section 1001, and Title 43 U.S.C. Section 1212, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

APPENDIX C
USGS EARTHQUAKE DATA





NEIC: Earthquake Search Results

U. S. GEOLOGICAL SURVEY
EARTHQUAKE DATABASE

FILE CREATED: Mon Jun 4 16:13:25 2012
 Circle Search Earthquakes= 225
 Circle Center Point Latitude: 32.772N Longitude: 104.233W
 Radius: 321.860 km
 Catalog Used: PDE
 Data Selection: Historical & Preliminary Data

CAT	YEAR	MO	DA	ORIG TIME	LAT	LONG	DEP	MAGNITUDE	IEM	DTSVNWG	DIST
									NFO		km
									TF		
PDE	1973	09	22	233835.80	34.47	-106.95	5	3.1 MLGS	...		314
PDE	1974	11	28	033520.50	32.31	-104.14	5	3.7 MLGS	...		51
PDE	1975	08	01	072757.30	31.42	-104.01	5	3.0 LgTUL	.F.		150
PDE	1976	01	19	040330.50	31.90	-103.08	1	3.5 MDGS	.F.		145
PDE	1976	01	22	072157	31.90	-103.07	1	2.8 MDGS	...		145
PDE	1976	01	25	044827.90	31.90	-103.08	2	3.9 MDGS	5F.		145
PDE	1977	01	04	183137.60	32.36	-106.92	5	3.2 MLGS	5F.		256
PDE	1977	04	26	090307.30	31.90	-103.08	4	3.3 MLGS	.F.		144
PDE	1977	11	28	014050.50	32.95	-100.84	5	3.5 MLGS	...		318
PDE	1978	03	02	100452.70	31.56	-102.51	11	3.5 MLGS	.F.		210
PDE	1979	07	05	010501	32.95	-100.89	4	2.7 UKTUL	.H.		312
PDE	1980	03	22	004912.50	34.60	-105.92	5	3.4 MLGS	4F.		255
PDE	1981	05	09	123550.80	33.99	-107.03	5	3.1 MLGS	5F.		293
PDE	1982	01	04	165608.05	31.18	-102.49	5	3.9 LgTUL	3F.		240
PDE	1982	03	16	110302.67	35.36	-103.27	5	3.1 LgTUL	3F.		300
PDE	1982	04	26	083147.79	33.02	-100.84	5	2.8 LgGS	...		318
PDE	1982	05	18	060008.50	34.17	-106.95	9	2.8 MLGS	.F.		296
PDE	1982	05	18	060838.40	34.20	-106.90	6	2.8 MLGS	.F.		293
PDE	1982	05	24	063251.70	34.17	-106.95	6	2.9 MLGS	.F.		295
PDE	1982	09	20	035517.20	33.95	-107.06	11	3.5 LgTUL	4F.		293
PDE	1982	10	07	124125.99	34.31	-106.82	4	2.4 MLGS	.F.		294
PDE	1982	11	28	023648.51	33.00	-100.84	5	3.3 LgTUL	4F.		318
PDE	1983	03	02	232219.40	34.30	-106.89	8	4.3 LgTUL	6D.		299
PDE	1983	04	30	073420.18	33.32	-106.44	7	3.5 MLGS	...		214
PDE	1983	09	15	232536.05	35.14	-104.39	5	3.2 LgTUL	5F.		263
PDE	1983	09	29	074408.43	35.24	-104.30	5	2.7 MDGS	...		274
PDE	1984	05	21	133113.54	35.07	-102.23	5	3.1 LgTUL	...		314
PDE	1984	08	26	021954	34.31	-106.80	5	2.9 MLGS	.F.		292
PDE	1984	12	04	203636.02	32.26	-103.56	5	2.9 MLGS	...		84
PDE	1985	06	05	103600.60	32.56	-106.92	6	2.9 MLGLD	4F.		252
PDE	1985	06	27	182000.03	33.62	-106.47	0	3.4 LgGS	...	E..	229
PDE	1985	08	16	145652.96	34.13	-106.83	7	4.1 MLGS	6D.		284

PDE	1985	09	06	052246.20	32.54	-106.94	5	2.6	MDGLD	.F.	.....	255
PDE	1985	12	15	071452.23	35.28	-104.64	5	3.6	LgTUL	.F.	.....	280
PDE	1986	04	17	210430.30	32.59	-106.91	5	2.7	MDGLD	.F.	.....	251
PDE	1986	04	28	130016	34.01	-106.82	5	2.6	MDGLD	.F.	.....	276
PDE	1986	08	27	180656.38	35.16	-105.09	5	3.2	MLGS	.F.	.....	276
PDE	1987	05	14	155958.46	33.54	-106.52	0	2.9	MLGS	...	...E..	229
PDE	1988	12	25	075233.93	35.12	-105.96	0	2.8	MDSNM	.F.	.....	304
PDE	1989	01	29	050715.33	35.22	-104.09	7	3.4	MDSNM	...	.....	271
PDE	1989	11	29	065438.50	34.46	-106.89	13	4.7	MDSNM	5F.	.....	309
PDE	1990	01	29	131610.68	34.46	-106.88	12	4.8	LgTUL	6D.	.....	308
PDE	1990	01	31	010819.29	34.44	-106.86	10	4.0	LgTUL	5F.	.....	306
PDE	1990	02	21	120219.34	34.01	-106.54	5	3.6	MLGS	.F.	.....	255
PDE	1990	02	27	132322	33.95	-106.59	5	3.9	MDSNM	4F.	.....	255
PDE	1990	05	05	162622.89	34.45	-106.88	6	3.6	MDSNM	.F.	.....	307
PDE	1990	07	21	192822.79	34.46	-106.86	11	3.0	MDSNM	...	.....	306
PDE	1990	07	21	203031.34	34.46	-106.86	7	3.1	MDSNM	...	.....	306
PDE	1990	07	21	234804.92	34.45	-106.85	7	3.2	MDSNM	...	.....	306
PDE	1990	07	22	212705.13	34.84	-106.01	10	3.7	MDSNM	...	.....	281
PDE	1990	07	31	073240.18	34.46	-106.86	7	3.3	MDSNM	.F.	.....	307
PDE	1990	11	08	104653.77	34.45	-106.86	6	4.3	MDSNM	4F.	.....	306
PDE	1990	11	08	110346.51	34.45	-106.86	8	3.1	MDSNM	.F.	.....	306
PDE	1990	11	10	121816.85	34.45	-106.85	7	3.1	MDSNM	...	.....	305
PDE	1990	11	15	072524.38	34.46	-106.86	6	3.6	MDSNM	4F.	.....	306
PDE	1990	12	05	033644.30	34.45	-106.86	8	2.6	MDSNM	...	.....	306
PDE	1991	03	05	201711.40	34.44	-106.87	9	2.9	MDSNM	3F.	.....	306
PDE	1991	03	06	143659.07	34.44	-106.88	7	2.5	MDSNM	...	.....	307
PDE	1991	06	05	184414.90	34.45	-106.85	4	3.0	MDSNM	.F.	.....	305
PDE	1991	06	20	1605	33.62	-106.47	0	3.5	MLGS	...	...E..	229
PDE	1991	12	09	124716.50	34.85	-106.55	14	3.1	LgTUL	3F.	.....	314
PDE	1992	01	02	114535.61	32.33	-103.10	5	5.0	LgTUL	5F.	.....	116
PDE	1992	02	23	161752.51	30.65	-105.51	5	3.4	LgTUL	...	.....	264
PDE	1992	08	24	012535.20	34.01	-106.86	5	2.6	MDSNM	.F.	.....	280
PDE	1992	08	26	032452.67	32.17	-102.71	5	3.0	LgGS	...	.....	157
PDE	1993	03	24	023203.50	35.39	-104.19	5	3.0	LgGS	2F.	.....	290
PDE	1993	06	10	1510	33.62	-106.47	0	3.2	MLGS	...	...E..	229
PDE	1993	06	23	032312.28	31.35	-102.51	5	2.8	MDSNM	...	.....	226
PDE	1993	12	22	192511.39	33.33	-105.68	10	3.2	MDSNM	...	.....	148
PDE	1994	01	01	025131.29	34.44	-106.98	10	2.5	MDSNM	...	.....	314
PDE	1995	03	19	183643.97	35.00	-104.21	5	3.3	LgGS	...	.....	246
PDE	1995	04	14	003256.17	30.28	-103.35	17	5.7	MwGS	6CM	.....	287
PDE	1995	04	14	011148.40	30.30	-103.35	10	2.7	LgGS	...	.....	286
PDE	1995	04	14	021426	30.30	-103.35	10	2.8	LgGS	...	.....	286
PDE	1995	04	14	021938.50	30.30	-103.35	10	3.3	LgGS	.F.	.....	286
PDE	1995	04	14	034842	30.30	-103.35	10	2.6	LgGS	.F.	.....	286
PDE	1995	04	14	041116	30.30	-103.35	10	2.4	LgGS	.F.	.....	286
PDE	1995	04	14	055339	30.30	-103.35	10	2.7	LgGS	...	.....	286
PDE	1995	04	14	073936.50	30.30	-103.35	10	2.4	LgGS	.F.	.....	286
PDE	1995	04	14	082712.50	30.30	-103.35	10	2.8	LgGS	.F.	.....	286
PDE	1995	04	14	100258	30.30	-103.35	10	2.9	LgGS	.F.	.....	286
PDE	1995	04	14	105720.40	30.30	-103.35	10	2.3	LgGS	.F.	.....	286
PDE	1995	04	15	031805	30.30	-103.35	10	2.4	LgGS	.F.	.....	286
PDE	1995	04	15	143329.51	30.27	-103.32	10	4.0	LgGS	6D.	.....	290
PDE	1995	04	16	004043.30	30.30	-103.35	10	2.3	LgGS	...	.....	286
PDE	1995	04	16	102625.50	30.30	-103.35	10	2.5	LgGS	...	.....	286
PDE	1995	04	16	161609.60	30.30	-103.35	10	2.4	LgGS	...	.....	286
PDE	1995	04	17	085000.50	30.30	-103.35	10	2.5	LgGS	...	.....	286
PDE	1995	04	21	044144	30.30	-103.35	10	2.9	LgGS	3F.	.....	286
PDE	1995	06	01	010615.70	30.30	-103.35	10	3.5	LgGS	4F.	.....	286
PDE	1995	07	06	024151	30.30	-103.35	10	2.7	LgGS	.F.	.....	286
PDE	1995	07	06	024704	30.30	-103.35	10	2.6	LgGS	.F.	.....	286

PDE	1995	08	28	151339.05	34.21	-106.94	3	2.8	LgGS	5F.	297
PDE	1995	11	12	174559.40	30.30	-103.35	10	3.6	LgGS	.F.	286
PDE	1996	03	15	131757.22	33.59	-105.69	10	2.9	LgGS	.F.	163
PDE	1996	03	24	201612.70	34.26	-105.68	10	3.5	LgGS	.F.	212
PDE	1996	03	24	201923.10	34.27	-105.69	10	3.7	LgGS	.F.	214
PDE	1996	07	22	100614.98	34.20	-105.71	10	3.5	LgGS	.F.	209
PDE	1997	05	20	094105.82	34.19	-105.74	10	3.2	LgGS	.F.	210
PDE	1997	12	31	132830.05	34.53	-106.15	5	3.5	MLGS	.F.	264
PDE	1997	12	31	133206.60	34.55	-106.15	5	3.5	MLGS	...	265
PDE	1997	12	31	133358.90	34.55	-106.15	5	3.4	MLGS	...	265
PDE	1998	01	04	080531.87	34.55	-106.19	5	4.0	MLGS	.F.	268
PDE	1998	04	15	103342.42	30.19	-103.30	10	3.6	LgGS	.F.	299
PDE	1998	07	14	053848.75	35.34	-103.47	5	3.0	MDSNM	.F.	293
PDE	1999	03	01	080023.50	32.57	-104.66	1	2.9	LgGS	...	45
PDE	1999	03	14	224317.97	32.59	-104.63	1	4.0	MDSNM	.F.	42
PDE	1999	03	17	122923.11	32.58	-104.67	1	3.5	MDSNM	...	46
PDE	1999	05	30	190425.60	32.58	-104.66	10	3.9	MDSNM	...	45
PDE	1999	08	09	065122.97	32.57	-104.59	5	2.9	MDSNM	...	40
PDE	2000	02	02	071420.26	32.58	-104.63	5	2.7	LgGS	...	42
PDE	2000	02	26	030100.83	30.24	-103.61	5	2.8	LgGS	.F.	286
PDE	2001	06	02	015553.72	32.33	-103.14	5	3.3	LgGS	...	113
PDE	2001	11	22	000708.02	31.79	-102.63	5	3.1	LgGS	...	186
PDE	2002	09	17	154514.47	32.58	-104.63	10	3.5	LgGS	...	42
PDE	2002	09	17	233419.35	32.58	-104.63	10	3.3	LgGS	...	43
PDE	2003	06	21	020309.56	32.67	-104.50	5	3.6	LgGS	...	28
PDE	2004	05	23	092205.28	32.53	-104.57	5	4.0	mbGS	3F.	41
PDE	2004	05	24	213628.56	34.47	-106.90	5	3.5	MLGS	.F.	310
PDE	2004	06	22	085528.23	32.53	-104.58	5	3.7	LgGS	.F.	42
PDE	2004	08	26	184518.62	32.58	-104.50	5	3.4	MLGS	...	33
PDE	2004	10	28	025904.82	32.60	-104.50	5	3.0	LgGS	...	31
PDE	2004	11	14	212749.90	33.25	-106.20	5	3.5	LgGS	...	191
PDE	2005	10	30	025734.81	34.07	-106.98	5	2.4	MLGS	.F.	292
PDE	2005	12	19	202740.37	32.53	-104.55	5	4.1	MwSLM	3FM	40
PDE	2005	12	22	143011.67	32.58	-104.57	5	3.6	LgGS	.F.	37
PDE	2006	01	27	100456.45	32.59	-104.55	5	2.7	LgGS	...	35
PDE	2006	01	27	160745.84	32.55	-104.58	5	3.1	LgGS	...	40
PDE	2006	02	04	195510.68	32.58	-104.62	5	2.7	MLGS	...	42
PDE	2006	03	04	171458.25	30.29	-103.67	5	2.7	LgGS	...	280
PDE	2006	03	20	175529.12	32.60	-104.56	5	3.0	MLGS	...	36
PDE	2006	04	08	180835.23	31.95	-101.42	5	2.9	MLGS	...	279
PDE	2006	08	12	104909.67	32.90	-100.89	5	2.8	LgGS	.F.	312
PDE	2007	05	23	051655.15	34.07	-106.94	5	3.4	MLGS	3F.	289
PDE	2008	01	29	102453.24	32.90	-100.84	5	3.3	LgGS	.F.	317
PDE	2008	02	18	1415	32.27	-101.42	0	2.1	LgGS	.C. E.	269
PDE	2008	04	16	090604.36	33.66	-106.06	5	2.7	MLGS	...	196
PDE	2008	05	23	180305.86	32.50	-104.60	5	2.7	LgGS	...	45
PDE	2008	07	18	173109.40	32.89	-100.84	5	2.7	LgGS	...	317
PDE	2008	12	28	205659.99	30.44	-103.36	5	2.6	MLGS	...	271
PDE	2009	01	30	014121.66	32.50	-104.61	5	2.7	LgGS	...	46
PDE	2009	06	05	171732.94	31.35	-105.98	0	2.4	MLEPT	.F.	227
PDE	2009	06	05	181023.63	31.35	-105.98	0	2.6	MLEPT	.F.	227
PDE	2009	08	20	015723.10	34.03	-106.87	5	2.7	MLGS	3F.	282
PDE	2009	08	30	003100.29	34.22	-106.89	5	2.5	MLGS	.F.	293
PDE	2009	08	30	063947.47	34.16	-106.86	5	2.6	MLGS	.F.	289
PDE	2009	08	30	070943.72	34.19	-106.88	5	2.1	MLGS	.F.	291
PDE	2009	11	17	185306.84	32.43	-104.64	5	3.0	LgGS	...	54
PDE	2010	01	27	045933.05	32.90	-100.83	5	3.1	LgGS	.F.	318
PDE	2010	02	21	095539.77	32.57	-104.61	5	2.8	LgGS	...	41
PDE	2010	03	28	000355.08	32.44	-104.50	4	4.1	MwRMT	3FM	44
PDE	2010	04	11	195632.67	32.41	-101.06	5	2.9	LgGS	...	300

PDE	2010	04	12	002005.97	32.94	-100.88	5	2.8	LgGS	...	314
PDE	2010	05	09	071807.37	34.04	-106.83	5	2.1	MLGS	.F.	279
PDE	2010	05	27	204721.87	31.11	-105.58	5	3.7	MLGS	...	223
PDE	2010	05	31	215819.17	32.52	-104.61	5	4.0	MLGS	...	44
PDE	2010	08	08	011238.07	32.90	-100.85	5	3.4	MwRMT	2FM	316
PDE	2010	08	25	020514.32	32.95	-100.86	5	2.8	LgGS	...	315
PDE	2010	08	29	124836.61	32.91	-100.92	5	2.6	LgGS	...	310
PDE-W	2010	10	09	074227.63	32.93	-100.89	5	3.1	LgGS	...	313
PDE-W	2010	10	26	065629.79	32.92	-100.85	5	3.1	LgGS	...	316
PDE-W	2010	11	01	091058.42	33.00	-100.82	5	2.8	LgGS	...	320
PDE-W	2011	01	11	043415.77	34.39	-106.99	5	2.7	MLGS	...	312
PDE-W	2011	02	17	182534.41	30.11	-103.30	5	3.3	LgGS	...	307
PDE-W	2011	03	01	033012.76	32.88	-100.84	5	3.1	LgGS	2F.	317
PDE-W	2011	03	01	063159.89	32.84	-100.80	5	2.5	LgGS	...	321
PDE-W	2011	03	12	152200.86	32.88	-100.90	5	3.0	LgGS	...	312
PDE-W	2011	03	14	001948.80	32.96	-100.81	5	3.0	LgGS	...	320
PDE-W	2011	03	28	091211.95	32.91	-100.82	5	3.0	LgGS	...	320
PDE-W	2011	04	06	233835.45	34.40	-107.02	5	3.2	MLGS	...	315
PDE-W	2011	04	25	165631.88	32.82	-100.84	5	2.5	LgGS	...	317
PDE-W	2011	04	28	010341.97	30.74	-105.71	6	4.4	mbGS	.F.	264
PDE-W	2011	04	28	035625.61	30.74	-105.78	10	4.0	mbGS	...	268
PDE-W	2011	04	28	045834.59	30.68	-105.75	9	3.6	MwRMT	.FM	272
PDE-W	2011	04	28	074903.45	30.82	-105.80	5	3.1	LgGS	...	262
PDE-W	2011	04	28	075418.94	30.58	-105.85	5	2.7	LgGS	...	286
PDE-W	2011	04	30	010716.82	30.76	-105.75	10	4.6	MDUNM	...	265
PDE-W	2011	05	02	114328.24	30.73	-105.72	10	4.2	MwRMT	2FM	266
PDE-W	2011	05	02	115836.35	30.74	-105.70	10	3.3	MLGS	...	264
PDE-W	2011	05	02	134032.64	30.69	-105.75	10	3.3	MLGS	...	271
PDE-W	2011	05	02	135536.79	30.73	-105.67	5	4.4	mbGS	2F.	264
PDE-W	2011	05	03	025830.18	30.67	-105.73	10	3.8	MwRMT	.FM	273
PDE-W	2011	05	03	114203.84	30.49	-105.68	10	2.8	MLGS	...	287
PDE-W	2011	05	04	162627.03	30.71	-105.79	10	3.7	MwRMT	.M	271
PDE-W	2011	05	05	052010.02	30.79	-105.76	10	3.6	MLGS	...	262
PDE-W	2011	05	06	002426.09	30.75	-105.73	10	2.8	MLGS	...	264
PDE-W	2011	05	06	004559.26	30.81	-105.71	10	2.8	MLGS	...	258
PDE-W	2011	05	07	045100.88	30.64	-105.73	10	4.1	MDUNM	2F.	275
PDE-W	2011	05	08	132449.65	30.75	-105.81	10	3.1	MLGS	...	269
PDE-W	2011	05	08	134616.49	30.72	-105.76	10	3.2	MLGS	...	269
PDE-W	2011	05	08	135758.52	30.71	-105.75	10	2.9	MLGS	...	269
PDE-W	2011	05	08	190732.13	30.81	-105.31	10	3.0	MLGS	...	239
PDE-W	2011	05	08	225459.93	30.74	-105.74	10	3.3	MLGS	...	266
PDE-W	2011	05	09	064019.15	30.76	-105.69	10	3.9	MDUNM	.F.	261
PDE-W	2011	05	10	184118.44	30.72	-105.72	10	3.4	MLGS	...	267
PDE-W	2011	05	13	124916.26	30.76	-105.45	10	2.6	MLGS	...	250
PDE-W	2011	05	14	220751.11	30.82	-105.74	10	3.9	MDUNM	.F.	259
PDE-W	2011	05	17	200820	30.75	-105.74	10	4.2	MDUNM	...	265
PDE-W	2011	05	19	103523.51	30.80	-105.69	10	3.4	MwRMT	.M	258
PDE-W	2011	05	19	115649.90	30.72	-105.59	10	2.9	MLGS	...	260
PDE-W	2011	05	20	231419.06	30.20	-105.55	10	2.7	MLGS	...	310
PDE-W	2011	05	25	100301.09	30.70	-105.63	10	2.8	MLGS	...	264
PDE-W	2011	05	27	014128.20	30.80	-105.76	10	3.6	MLGS	...	261
PDE-W	2011	05	27	014908.92	30.98	-105.78	10	3.0	MLGS	...	246
PDE-W	2011	07	14	102913.60	32.93	-100.81	5	2.5	LgGS	...	321
PDE-W	2011	09	11	183635.11	32.74	-100.84	5	2.5	LgGS	3F.	318
PDE-W	2011	09	11	203158.11	32.89	-100.85	5	2.8	LgGS	2F.	316
PDE-W	2011	09	12	003149.11	32.80	-100.88	5	2.7	LgGS	2F.	314
PDE-W	2011	09	12	022931.34	32.73	-100.85	5	2.5	LgGS	.H.	317
PDE-W	2011	09	12	091946.71	32.85	-100.85	5	2.6	LgGS	...	316
PDE-W	2011	09	12	092612.90	32.76	-100.84	5	2.7	LgGS	2F.	317
PDE-W	2011	09	12	141834.05	32.82	-100.87	7	3.4	LgGS	3F.	314

PDE-W	2011	09	28	214637.55	32.52	-104.66	5	2.7	LgGS	...	48
PDE-W	2011	11	24	064959.99	32.95	-100.81	5	2.8	LgGS	...	320
PDE-W	2011	11	24	231549.01	32.94	-100.85	5	3.1	LgGS	...	317
PDE-W	2011	12	09	184733.24	32.94	-100.86	5	3.5	LgGS	3F.	315
PDE-W	2011	12	17	144658.46	32.81	-100.85	5	3.2	LgGS	3F.	316
PDE-W	2011	12	29	061907.64	32.81	-100.91	5	2.5	LgGS	...	311
PDE-W	2011	12	29	114808.28	32.88	-100.83	5	2.5	LgGS	.F.	318
PDE-W	2012	01	15	092901.68	31.23	-103.61	5	2.7	LgGS	2F.	181
PDE-W	2012	01	24	182102.61	30.32	-103.38	5	3.6	LgGS	4F.	283
PDE-W	2012	02	06	040024.75	32.09	-104.91	5	2.7	LgGS	...	98
PDE-W	2012	03	06	031149.71	31.81	-106.31	5	2.5	MLGS	3F.	223
PDE-W	2012	03	18	105722.43	32.28	-103.89	5	3.1	LgGS	...	63
PDE-Q	2012	04	05	091115.95	31.57	-106.09	5	2.9	MLGS	.F.	219

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