

# **Berry Petroleum Company**

Brundage Canyon Field

4000 South 4028 West Route 2 Box 7735 Roosevelt, UT 84066

> Ph. (435) 722-1325 Fax: (435) 722-1321 www.bry.com

July 26, 2007

State Of Utah Division of Oil, Gas & Mining 1594 W. North Temple, Suite 1210 Box 145801 Salt Lake City, Utah 84114-5801

Re: Applications for Permit to Drill

Attached please find one (1) original and (1) copy of an Application for Permit to Drill on the following Lake Canyon well:

# LC TRIBAL 11-26D-46

And 1 original copy of the Application for Permit to Drill on the following Ute Tribal well:

# **UTE TRIBAL 5-29D-55**

If you have any questions regarding these "APD's" please call me at (435) 722-1325 or (435) 823-1808.

Thank you,

Shelley E. Crozier

Regulatory & Permitting Specialist

Shelley E. Crozen

sec@bry.com

RECEIVED
JUL 2 6 2007

DIV. OF OIL, GAS & MINING

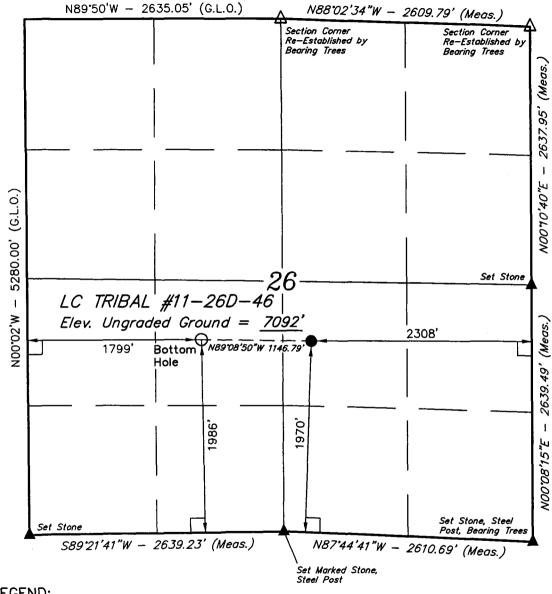
# FORM 3

# STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS AND MINING

AMENDED REPORT	٦
(highlight changes)	_

		APPLICATI	ON FOR	PERMIT TO	DRILL			5. MINERAL LEASE NO: 14-20-H62-5500 (EDA	6. SURFACE:
1A. TYPE OF W	ork: DI	RILL [√] R	EENTER [	DEEPEN	П			7. IF INDIAN, ALLOTTEE C	OR TRIBE NAME:
B. TYPE OF W	ELL: OIL V	<b>-</b>	THER		NGLE ZONE [	MULTIPLE ZON	vE□	8. UNIT or CA AGREEMEN	
2. NAME OF C						<u>-</u>		9. WELL NAME and NUMB	
3. ADDRESS (		UM COMPANY				PHONE NUMBER:		LC TRIBAL  10. FIELD AND POOL, OR V	11-26D-46 MILDCAT: 0.44
4 LOCATION	OF WELL (FOOTAG	CITY ROOSE		ATE UTAHZIP 8		(435)722-1325		11. QTR/QTR, SECTION, TO	SWALCHIE BANCE
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					110.530000	LONG		U.S.B	<del></del>
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	<del>. * </del>	PERTY OR LEASE LINE		16. NUMBER OF	ACRES IN LEASE:		17. NU	MBER OF ACRES ASSIGNE	<del></del>
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25'		R DF, RT, GR, ETC.):		22. APPROXIMAT	6204'	LL START:	23. ES	RLB0005651	<u> </u>
	7090' GR	,			ER TO BPC			REFER TO BPC	SOP PLAN
24.		PROP	OSED CASI	NG AND CEMEN	NTING PROG	RAM: SEE ATTA	СНМ	ENT	
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12 1/4	8 5/8	J-55 STC	24#	300'	TYPE III + ADD	ITIVES	130 S	( 1.43 CF/SK	14.3 PPG
7.7/0	5.4/0	1.55 1.70	45.54	6004			250.01		41.0000
7 7/8	5 1/2	J-55 LTC	15.5#	6204'		TED+ADDITIVES  EL+3% KCL+ADDITIVES	250 S)		11.0 PPG 13.0 PPG
·					1	- NOL-NODING	300 07	1.52 07/51	10.0770
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25.		ATTA	CHMENTS:	SEE CEMEN	T RECOMME	NDATION ATTA	CHME	NT	
VERIFY THE FOL	LOWING ARE ATTA	CHED IN ACCORDANC	E WITH THE UTA	AH OIL AND GAS CONS	ERVATION GENER	AL RULES:		<del></del>	
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NAME (PLEASE	PRINT)	SHEL	LEY E. CR	OZIER	TITLE	REGULATO	ORY &	PERMITTING SPE	ECIALIST
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(11/2001)				See Instructions	Revelse Sdel	DB.	DIV.	OF OIL, GAS & MI	NING
		deral Approval		2010.	M.Co.M	V			
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# T4S, R6W, U.S.B.&M.



# LEGEND:

= 90° SYMBOL

= PROPOSED WELL HEAD.

▲ = SECTION CORNERS LOCATED.

 $\Delta$  = SECTION CORNERS RE-ESTABLISHED. (Not Set on Ground)

(NAD 83)

LATITUDE = 40°06'08.76" (40.102433)

LONGITUDE = 110'31'45.44" (110.529289)

(NAD 27)

LATITUDE = 40°06'08.61" (40.102392)

LONGITUDE = 110'31'48.00" (110.530000)

# BERRY PETROLEUM COMPANY

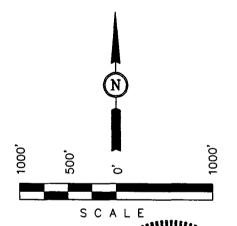
Well location, LC TRIBAL #11-26D-46, located as shown in the NW 1/4 SE 1/4 of Section 26, T4S, R6W, U.S.B.&M., Duchesne County, Utah.

# BASIS OF ELEVATION

BENCH MARK (M67) LOCATED IN THE SW 1/4 OF SECTION 9, T5S, R4W, U.S.B.&M., TAKEN FROM THE DUCHESNE SE QUADRANGLE, UTAH, DUCHESNE COUNTY, 7.5 MINUTE QUAD. (TOPOGRAPHIC MAP) PUBLISHED BY THE UNITED STATES DEPARTMENT OF THE INTERIOR, GEOLOGICAL SURVEY. SAID ELEVATION IS MARKED ON CAP AS BEING 6097 FEET.

# BASIS OF BEARINGS

BASIS OF BEARINGS IS A G.P.S. OBSERVATION.



UINTAH ENGINEERING & LAND SURVEYING
85 SOUTH 200 EAST - VERNAL, UTAH 84078

(435) 789-1017

DATE SURVEYED: DATE DRAWN:
05-16-07 07-06-07

REFERENCES

OS DIA T

S.H. J.O. P.M. G.L.O. PLAT
WEATHER FILE

SCALE

PARTY

WARM BERRY PETROLEUM COMPANY

# **SELF-CERTIFICATION STATEMENT**

The following self-certification statement is provided per federal requirements dated June 15, 1988.

Please be advised that Berry Petroleum Company is considered to be the operator of the following well.

LC Tribal 11-26D-46 NW 1/4, SE 1/4, 1970' FSL, 2308' FEL, Section 26, T. 4 S., R. 6 W., U.S.B.&M. BHL: NE ¼, SW ¼, 1986' FSL 1799' FWL Lease 14-20-H62-5500 (EDA) Duchesne, County, Utah

Berry Petroleum Company is responsible under the terms of the lease for the operations conducted upon the lease lands.

Shelley E. Crozier

Regulatory & Permitting Specialist Berry Petroleum Company 4000 South 4028 West Route 2, Box 7735 Roosevelt, Utah 84066 435-722-1325

Shelley E. Crozier

# BERRY PETROLEUM COMPANY

LC Tribal 11-26D-46

Surface location NW 1/4, SE 1/4, 1970' FSL, 2308' FEL, Section 26, T. 4 S., R. 6 W., U.S.B.&M. BHL: NE ¼, SW ¼, 1986' FSL 1799' FWL Duchesne County, Utah

# ONSHORE ORDER NO. 1

# **DRILLING PROGRAM**

# 1,2 Estimated Tops of Geological Markers and Formations Expected to Contain Water, Oil and Gas and Other Minerals

FORMATION	DRILL DEPTH *  @ BHL (TVD)	DRILL DEPTH * @ SHL (TVD)
Uinta	Surface	On Surface
Green River	1,758'	1,768'
Green River Upper Marker	1,969'	1,991'
Mahogany	2,588'	2,613'
Tgr3 Marker	3,748'	3,775
Douglas Creek	4,577'	4,602'
*Black Shale	5,281'	5,302'
*Castle Peak	5,634'	5,660'
Uteland Butte Ls.	5,841'	5,867'
Wasatch	6,070'	6,103'
TD	6,170'	6,204'
Base of Moderately Saline		
Water (less than 10,000 ppm)	1,935'	1,796'

# \*PROSPECTIVE PAY

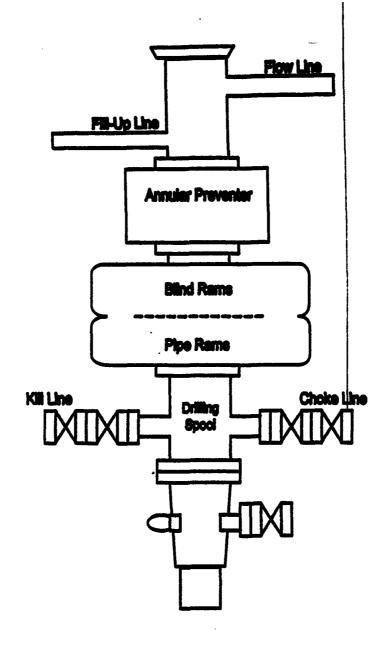
Berry is locating the well at the surface location and directionally drilling from this location to minimize surface disturbance and Berry will be able to utilize the existing road and pipelines in the area.

Furthermore, Berry hereby certifies that it is the sole working interest owner with 460 feet of the entire directional well bore and the remainder of the section.

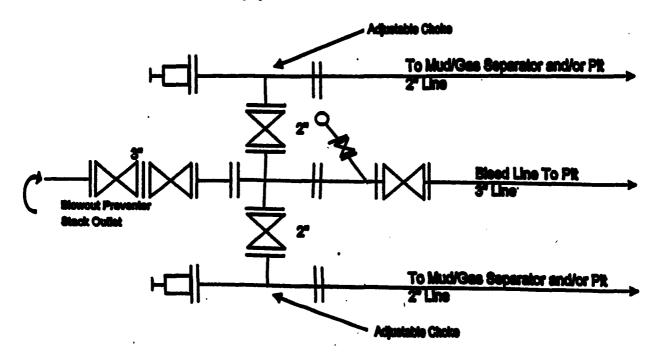
# 3 Pressure Control Equipment: (Schematic Attached)

The BOP and related equipment shall meet the minimum requirements of Onshore Oil and Gas Order No. 2 for equipment and testing requirements, procedures, etc. A <u>2M</u> system will be utilized. The attached diagram depicts the use of an annular in conjunction with double rams. However, an annular, double rams or both may be used depending on the drilling rig contracted. Chart recorders will be used for all pressure tests.

Test charts, with individual test results identified, shall be maintained on location while drilling and shall be made available to representative upon request.



# 2,000 PSI Choke Manifold Equipment



Berry Petroleum Company Drilling Program LC Tribal 11-26D-46 Duchesne County, Utah Page Two

The anticipated bottom hole pressure will be less than 3,000 psi.

**Depth Intervals** 

**BOP Equipment** 

0 - 300

No Pressure Control

300 - 6204

9" 2000# Ram Type BOP 9" 2000# Annular BOP

# 4 Proposed Casing and Cementing Program

The proposed Casing Program will be as follows:

Purpose	Depth Hole	Size Casing S	<u>ize Type</u>	Connection	Weight
•					
Surface	300' 12 1/4'	8-5/8"	J-55	ST&C	24#
Production	6204' 7-7/8'	5-1/2"	J-55	LT&C	15.5#
Surface	Eill	Type & Amount			

# SEE ATTACHED CEMENT PROCEDURES

Production	Type & Amount
1 Toduction	Type & 7 tinount

# SEE ATTACHED CEMENT PROCEDURES

For production casing, actual cement volumes will be determined from the caliper log plus a minimum of 25% excess.

# 5 Drilling Fluids Program

Interval	Weight	Viscosity	Fluid Loss	Remarks	
0' - 300'	8.6	27	NC	Spud Mud or air	
300'-6204'	8.6	27	NC	KCL Water	

Berry Petroleum Company will use either or a Manual or Electronic Drilling Fluid Monitoring system on all well sites.

Berry Petroleum Company Drilling Program LC Tribal 11-26D-46 Duchesne County, Utah Page Three

# 6 Evaluation Program

Logging Program: HRI-GR-SP with SDL-DSN-PE: surface casing to TD.

Preserve samples from all show intervals.

Sampling: 10' dry cut samples: Douglas Creek to TD. Preserve samples

From all show intervals.

Surveys: As deemed necessary

Mud Logger: As deemed necessary

Drill Stem Tests: As deemed necessary

Cores: As deemed necessary

# 7 Abnormal Conditions

No abnormal temperatures or pressures or other hazards are anticipated.

# 8 Anticipated Starting Dates and Notification of Operations

Drilling Activity:

Anticipated Commencement Date:

**Drilling Days:** 

Completion Days:

Upon approval of the APD.

Approximately 6 days.

Approximately 7 days.

# BERRY PETROLEUM COMPANY

LC Tribal 11-26D-46

Surface location NW 1/4, SE 1/4, 1970' FSL, 2308' FEL, Section 26, T. 4 S., R. 6 W., U.S.B.&M. BHL: NE ¼, SW ¼, 1986' FSL 1799' FWL Duchesne County, Utah

#### ONSHORE ORDER NO. 1

# **MULTI POINT SURFACE USE & OPERATIONS PLAN**

# 1 Existing Roads

To reach the Berry Petroleum Company well, LC Tribal 11-26D-46, in Section 26-T4S-R6W:

Start in Duchesne, Utah. Proceed southwest on US Highway 191. Travel southwest 3.5 miles. Turn west, then travel approx.6.6miles on existing two track. At fork in road go south, travel 4.1 miles south (down Skitzy Canyon) at next bend in road take sharp left and go North 2.3 miles. Turn left (west) go 0.3 miles into location for LC Tribal 11-26D-46.

The existing oilfield service road may need some surface material to prevent or repair holes in the road due to heavy truck traffic during the drilling and completion operation. If repairs are made the operator will secure material from private sources.

Please see the attached map for additional details.

### 2 Planned Access Road

See Topographic Map "B" for the location of the proposed access road.

# 3 Location of Existing Wells

See Topographic Map "C" for the location of existing wells within a 1mile radius.

# 4 Location of Tank Batteries, Production Facilities and Production Gathering and Service Lines

All permanent (on site for six months or longer) structures constructed or installed will be painted a flat, non-reflective, earth tone color to match one of the standard environmental colors, as determined by the five state Rocky Mountain Inter-Agency Committee. All facilities will be painted within six months of installation. Facilities required to comply with the Occupational Safety and Health Act (OSHA) will be excluded. The required paint color is desert brown (10YR 6/4) unless otherwise designated by the Authorized Officer.

A containment dike will be constructed completely around those production facilities which contain fluids (i.e., production tanks, produced water tanks). This dike will be constructed of compacted subsoil, be impervious, hold 100% of the capacity of the largest tank. The site specific APD will address additional capacity if such is needed due to environmental concerns. The use of topsoil for the construction of dikes will not be allowed. If a Spill Prevention, Control, and Countermeasure (SPCC) Plan is required by the Environmental Protection Agency, the containment dike may be expanded with the Authorized Agency Officer's approval to meet SPCC requirements.

Berry Petroleum Company Multi Point Surface Use & Operations Plan LC Tribal 11-26D-46 Duchesne County, Utah Page Two

A description of the proposed pipeline and a map illustrating the proposed route is attached.

All site security guidelines identified in Federal regulation 43 CFR 3126.7, will be adhered to. All off-lease storage, off-lease measurement, or commingling on-lease or off-lease production will have prior written approval form the Authorized Agency Officer.

Gas meter runs will be located approximately 100 feet from the wellhead. Where necessary, the gas line will be anchored down from the wellhead to the meter.

# 5 Location and Type of Water Supply

Water for the drilling and completion will be pumped or trucked from the Berry source wells located in Sec. 23, T5S, R5W or Sec. 24, T5S, R5W, permit # 43-11041, or from Douglas E. & Yordis Nielsen source well located in Sec. 12, T5S, R6W, permit # 43-1628, or from Duchesne City Culinary Water Dock located in Sec. 1, T4S, R5W or from East Duchesne Water, Arcadia Feedlot, Sec. 28, T3S, R3W or from Petroglyph Operating Company 08-04 Waterplant, Sec. 8, T5S, R3W.

#### 6 Source of Construction Materials

All construction materials for this location site and access road shall be borrow material accumulated during construction of the location site and access road.

Additional gravel or pit lining material will be obtained from a private source.

The use of materials under Authorized Agency jurisdiction will conform with 43 CFR 3610.2-3.

# 7 Methods of Handling Waste Materials

Drill cuttings will be contained and buried in the reserve pit.

Drilling fluids, including salts and chemicals, will be contained in the reserve pit. Upon termination of drilling and completion operations, the liquid contents of the reserve pit will be used at the next drill site or will be removed and disposed of at an approved waste disposal facility within 180 days after drilling is terminated. Upon well completion, weather permitting (summer months), any hydrocarbons in the pit shall be removed in accordance with 43 CFR 3162.7-1.

Unless otherwise specified, the reserve pit will be constructed on the location and will not be located within natural drainages, where a flood hazard exists or surface runoff will destroy or damage the pit walls. The reserve pit will be constructed so that it will not leak, break, or allow discharge of liquids.

If it is determined at the onsite that a pit liner is necessary, the reserve pit will be lined with a synthetic reinforced liner a minimum of 12 millimeters thick, with sufficient bedding used to cover any rocks. The liner will overlap the pit walls and be covered with dirt and/or rocks to hold it in place. Trash or scrap that could puncture the liner will not be disposed of in the pit.

Reserve pit leaks are considered an unacceptable and undesirable event and will be orally reported to the Authorized Agency Officer.

Berry Petroleum Company Multi Point Surface Use & Operations Plan LC Tribal 11-26D-46 Duchesne County, Utah Page Three

After first production, produced wastewater will be trucked to one of the following approved waste water disposal sites: R.N. Industries, Inc. Sec. 4, T2S, R2W, Bluebell; MC & MC Disposal Sec. 12, T6S, R19E, Vernal; LaPoint Recycle & Storage Sec. 12, T5S, R19E, LaPoint or Water Disposal Inc. Sec. 32, T1S, R1W, Roosevelt, used in the operations of the field or, unless prohibited by the Authorized Officer, confined to the approved pit or storage tank for a period not to exceed 90 days. The use of such pit is hereby approved as part of this Application for Permit to Drill.

Production fluids will be contained in leak-proof tanks. All production fluids will be disposed of at approved disposal sites. Produced water, oil, and other byproducts will not be applied to roads or well pads for control of dust or weeds. The indiscriminate dumping of produced fluids on roads, well sites, or other areas will not be allowed.

Any spills of oil, gas, salt water, or other noxious fluids will be immediately cleaned up and removed to an approved disposal site.

A chemical portable toilet will be furnished with the drilling rig.

Garbage, trash, and other waste materials will be collected in a portable, self-contained, fully enclosed trash cage during operations. Trash will not be burned on location.

All debris and other waste materials not contained in the trash cage will be cleaned up and removed from the location promptly after removal of the completion rig (weather permitting).

Any open pits will be fenced during the operations. The fencing will be maintained with best efforts until such time as the pits are backfilled.

No chemicals subject to reporting under SARA Title III (hazardous materials) in an amount equal to or greater than 10,000 pounds will be used, produced, stored, transported, or disposed of annually in association with the drilling, testing, or completing of wells. Furthermore, extremely hazardous substances, as defined in 40 CFR 355, in threshold planning quantities, will not be used, produced, stored, transported, or disposed of in association with the drilling, testing, or completing of wells within these areas.

# 8 Ancillary Facilities

There are no ancillary facilities planned for at this time and none are foreseen in the future.

# 9 Wellsite Layout

The attached Location Layout diagram describes drill pad cross-sections, cuts and fills, and locations of the mud tanks, reserve pit, pipe racks, trailer parking, spoil dirt stockpile(s) and surface material stockpile(s)

Berry Petroleum Company Multi Point Surface Use & Operations Plan LC Tribal 11-26D-46 Duchesne County, Utah Page Four

#### 10 Plans for Restoration of the Surface

The dirt contractor will be provided with approved copies of the Surface Use Plan prior to construction activities.

Upon well completion, within a reasonable time, the location and surrounding area will be cleared of all unused tubing, materials, trash, and debris not required for production.

Abandoned well sites, roads, and other disturbed areas will be restored as near as practical to their original condition. Where applicable, these conditions may include the re-establishment of irrigation systems, the re-establishment of appropriate soil conditions, and the re-establishment of vegetation as specified.

All disturbed areas will be re-contoured to the approximate natural contours.

Any drainage rerouted during the construction activities shall be restored to its original line of flow or as near as possible.

Prior to backfilling the reserve pit, the fence surrounding the reserve pit will be removed. The pit liner will be folded, torn, and perforated after the pit dries and prior to backfilling the reserve pit.

Before any dirt work associated with reserve pit restoration takes place, the reserve pit shall be as dry as possible. All debris in it will be removed. Other waste and spoil materials will be disposed of immediately upon completion of operations. The reserve pit will be reclaimed within 180 days from the date of well completion, weather permitting. Once reclamation activities have begun, the activities will be completed within 30 days.

After the reserve pit has been reclaimed, no depressions in the soil covering the reserve pit will be allowed. The object is to keep seasonal rainfall and runoff from seeping into the soil used to cover the reserve pit. Diversion ditches and water bars will be used to divert runoff as needed.

Prior to the construction of the location, the top 12 inches of soil material (if present) will be stripped and stockpiled. Placement of the topsoil is noted on the location plat attached. Topsoil shall be stockpiled separately from subsoil materials. Topsoil salvaged from the reserve pit shall be stockpiled separately near the reserve pit.

When restoration activities have been completed, the location site and new access road cuts and shoulders shall be reseeded. Prior to reseeding, all disturbed areas, including the old access road, will be scarified and left with a rough surface.

The Authorized Agency Officer shall be contacted for the required seed mixture. Seed will be broadcast and the amount of seed mixture per acre will be doubled. The seeded area will then be "walked" with a dozer to assure coverage of the seeds. The seed mixture will reflect the recommendation from the Archeology study done.

At final abandonment, all casing shall be cut off at the base of the cellar or 3 feet below final restored ground level, whichever is deeper, and cap the casing with a metal plate a minimum of

Berry Petroleum Company Multi Point Surface Use & Operations Plan LC Tribal 11-26D-46 Duchesne County, Utah Page Five

0.25 inches thick. The cap will be welded in place and the well location and identity will be permanently inscribed on the cap. The cap also will be constructed with a weep hole.

### 11 Surface Ownership

Division of Wildlife Resources 1594 W. North Temple, Suite 2110 Salt Lake City, UT 84114-6301 1-801-538-4792

### 12 Other information

All lease and/or unit operations will be conducted in such a manner that full compliance is made with all applicable laws, regulations, Onshore Oil and Gas Orders, the approved Plan of Operations, and any applicable Notice to Lessees. The operator is fully responsible for the actions of his subcontractors. A copy of these conditions will be furnished to the field representative to ensure compliance.

The operator will control noxious weeds along access road use authorizations, pipeline route authorizations, well sites or other applicable facilities. A list of noxious weeds may be obtained from the Authorized Agency or the appropriate County Extension Office.

Drilling rigs and/or equipment used during drilling operations on this location will not be stacked or stored on administered lands after the conclusion of drilling operations or at any other time without authorization by the Authorized Agency Officer. If authorization is obtained, such storage is only a temporary measure.

Travel is restricted to only approved travel routes.

A class III archaeological survey will be conducted on all lands, unless landowner waives rights for archaeological survey. All personnel will refrain from collecting artifacts and from disturbing any significant cultural resources in the area. The operator is responsible for informing all persons in the area who are associated with this project that they may be subject to prosecution for knowingly disturbing historic or archaeological sites or for collecting artifacts. All vehicular traffic, personnel movement, construction, and restoration activities shall be confined to the areas examined, as referenced in the archaeological report, and to the existing roadways and/or evaluated access routes. If historic or archaeological materials are uncovered during construction, the Operator is to immediately stop work that might further disturb such materials and contact the Authorized Agency Officer.

Within five working days, the Authorized Agency Officer will inform the operator as to:

Whether the materials appear eligible for the National Historic Register of Historic Places:

The mitigation measures the operator will likely have to undertake before the site can be used (assuming in-situ preservation is not necessary); and,

Berry Petroleum Company Multi Point Surface Use & Operations Plan LC Tribal 11-26D-46 Duchesne County, Utah Page Six

The time frame for the Authorized Officer to complete an expedited review under 36 CFR 800.11 to confirm, through the State Historic Preservation Officer, that the findings of the Authorized Officer are correct and that the mitigation measures are appropriate.

If the operator wishes, at any time, to relocate activities to avoid the expense of mitigation and/or the delays associated with this process, the Authorized Agency Officer and/or the surface owner will assume responsibility for whatever recordation and stabilization of the exposed materials may be required. Otherwise the operator will be responsible for mitigation costs. The Authorized Agency Officer and/or the surface owner will provide technical and procedural guidelines for the conduct of mitigation. Upon verification from the Authorized Agency Officer that required mitigation has been completed, the Operator will then be allowed to resume construction.

All Surface Use Conditions of Approval associated with the Landowner Surface Use Agreement and Environmental Analysis Mitigation Stipulations will be adhered to.

All well site locations will have appropriate signs indicating the name of the operator, the lease serial number, the well name and number, the survey description of the well (either footages or the quarter/quarter section, the section, township, and range).

Berry Petroleum Company Multi Point Surface Use & Operations Plan LC Tribal 11-26D-46 Duchesne County, Utah Page Seven

# 13 Operator's Representative and Certification

A)

Representative

NAME:

Shelley E. Crozier

ADDRESS:

Berry Petroleum Company 4000 South 4028 West Route 2, Box 7735 Roosevelt, Utah 84066

PHONE:

435-722-1325

All lease and/or unit operations will be conducted in such a manner that full compliance is made with all applicable laws, regulations and onshore oil and gas orders. The operator is fully responsible for the actions of its subcontractors. A copy of these conditions will be furnished to the field representative to ensure compliance.

The drilling permit will be valid for a period of one year from the date of approval. After permit termination, a new application will be filed for approval for any future operations.

# B) 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 and belief, true and correct; and that the work associated with the operations proposed herein will be performed by Berry Petroleum Company and its contractors and subcontractors in conformity with this plan and the terms and conditions under which it is approved. This statement is subject to the provisions of 18 U.S.C. 1001 for the filing of a false statement.

CAMY 24, 2007

Shelley E. Crozier

Regulatory & Permitting Specialist

Berry Petroleum Company



# **Berry Petroleum Company**

Brundage Canyon Field

4000 South 4028 West Route 2 Box 7735 Roosevelt, UT 84066

> Ph. (435) 722-1325 Fax: (435) 722-1321 www.bry.com

May 11, 2007

Berry Petroleum Company will be using either Manual or Electronic Drilling Fluid Monitoring Systems, for the following wells that have previously been submitted and all future APD's will be duely noted in the Self Certification Statement of future APD's.

LC TRIBAL 1-17-56	<b>LC TRIBAL 14-2-56</b>	LC TRIBAL 16-21-46
LC TRIBAL 2-11D-56	LC TRIBAL 3-11D-56	LC TRIBAL 2-16D-56
LC TRIBAL 3-17-56	LC TRIBAL 4-16-56	<b>LC TRIBAL 4-27-46</b>
LC TRIBAL 7-3-56	LC TRIBAL 8-28-46	<b>LC TRIBAL 14-4-56</b>
LC TRIBAL 1-9-56	LC TRIBAL 10-9D-56	<b>LC TRIBAL 12-34-46</b>
<b>LC TRIBAL 14-22D-46</b>	<b>LC TRIBAL 14-34-46</b>	LC TRIBAL 15-3D-56
LC TRIBAL 16-3-56	LC TRIBAL 3-18-56	LC TRIBAL 3-5-56
LC TRIBAL 5-4-56	LC TRIBAL 8-4-56	LC TRIBAL 8-7-56
LC TRIBAL 9-6-56	<b>FEDERAL 10-2-65</b>	<b>FEDERAL 11-10-65</b>
<b>FEDERAL 16-5-65</b>	FEDERAL 5-3-64	FEDERAL 5-4-64
FEDERAL 5-6-65	<b>FEDERAL 6-11-65</b>	FEDERAL 8-1-64
FEDERAL 8-2D-64		

Sincerely,

Tim D. McDonald Drilling Supervisor

Berry Petroleum Company

# 4. Proposed Surface Casing and Cementing Program:

The proposed Casing Program will be as follows:

Purpose	Depth	Hole Size	Casing Size	Type	Connection	Weight
Surface	300'+	12 ¼"	8-5/8"	J-55	ST&C or LT&C	C 24#

The proposed casing and cementing program shall be conducted as approved to protect and/or isolate all usable water zones, potentially productive zones, lost circulation zones, abnormally pressured zones, and any prospectively valuable deposits of minerals. Any isolating medium other than cement shall receive approval prior to use. The casing setting depth shall be calculated to position the casing seat opposite a competent formation, which will contain the maximum pressure to which it will be exposed during normal drilling operations. Determination of casing setting depth shall be based on all relevant factors, including: presence/absence of hydrocarbons, fracture gradients, usable water zones, formation pressures, lost circulation zones, other minerals, or other unusual characteristics.

All casing, except conductor casing, shall be new or reconditioned and tested. Used casing shall meet or exceed API standards for new casing.

The surface casing shall be cemented back to the surface either during the primary cement job or by remedial cementing. If drive pipe is used, it may be left in place if its total length is less than twenty feet below the surface. If the total length of the drive pipe is equal to or greater than twenty feet, it will be pulled prior to cementing, or it will be cemented in place.

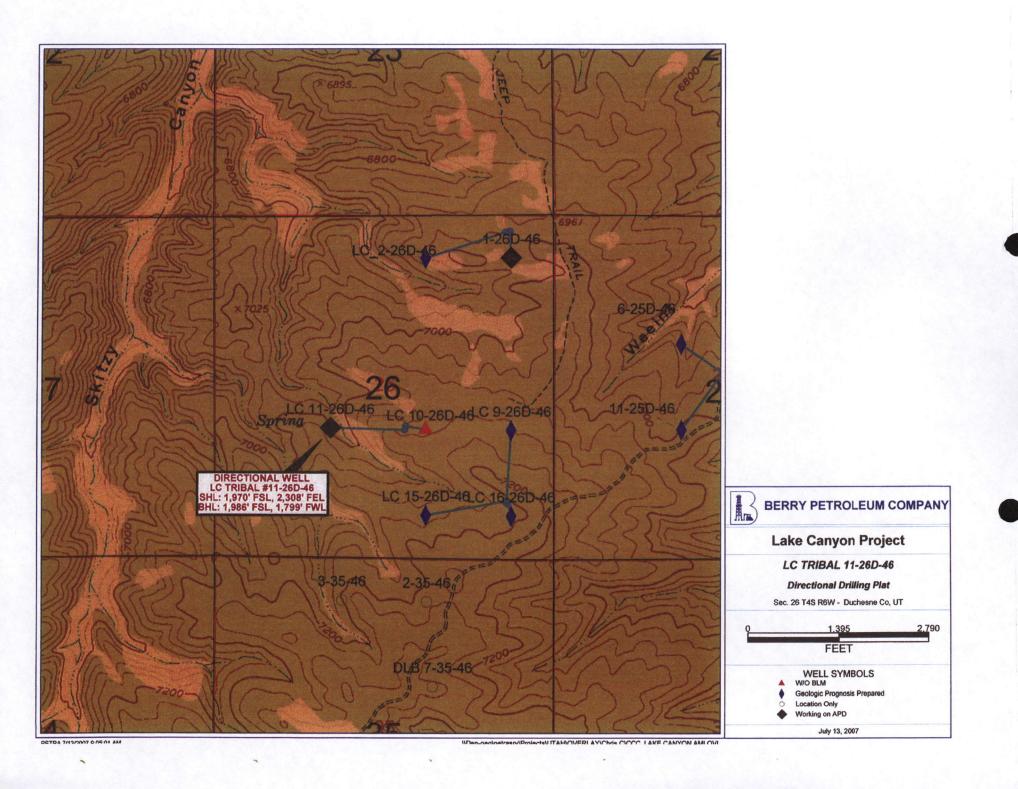
Surface casing shall have centralizers on the bottom three joints, with a minimum of one centralizer per joint.

All casing strings below the conductor shall be pressure tested to 0.22 psi per foot of casing string length or to 1500 psi, whichever is greater, but not to exceed 70% of the minimum internal yield. If pressure declines more than 10% in 30 minutes, corrective action shall be taken.

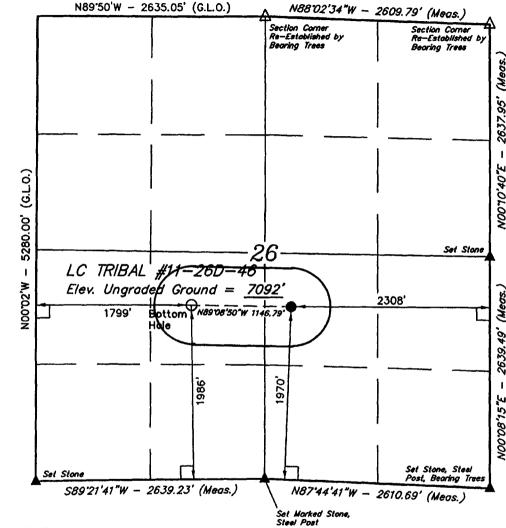
Casing design will be subject to revision based on geologic conditions encountered.

The cementing program will be as follows:

Surface	Fill	Type & Amount
0'-300'	300'	Approximately 135 sx Class "G" (Type III) cement + additives or a similar slurry with a minimum weight of 15.8 ppg and approximate yield of 1.17 cf/sk, minimum 24 hr compressive strength = 500 psi (Cement will be circulated to surface and topped off, if necessary.)



# T4S, R6W, U.S.B.&M.



# LEGEND:

= 90' SYMBOL

= PROPOSED WELL HEAD.

= SECTION CORNERS LOCATED.

 $\triangle$  = SECTION CORNERS RE-ESTABLISHED. (Not Set on Ground)

(NAD 83)

LATITUDE =  $40^{\circ}06'08.76''$  (40.102433)

LONGITUDE = 110'31'45.44" (110.529289)

(NAD 27)

LATITUDE =  $40^{\circ}06'08.61"$  (40.102392)

LONGITUDE =  $110^{\circ}31'48.00''$  (110.530000)

# BERRY PETROLEUM COMPANY

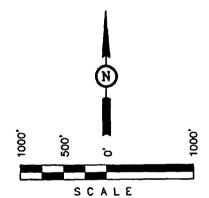
Well location, LC TRIBAL #11-26D-46, located as shown in the NW 1/4 SE 1/4 of Section 26, T4S, R6W. U.S.B.&M., Duchesne County, Utah.

# BASIS OF ELEVATION

BENCH MARK (M67) LOCATED IN THE SW 1/4 OF SECTION 9, T5S, R4W, U.S.B.&M., TAKEN FROM THE DUCHESNE SE QUADRANGLE, UTAH, DUCHESNE COUNTY, 7.5 MINUTE QUAD. (TOPOGRAPHIC MAP) PUBLISHED BY THE UNITED STATES DEPARTMENT OF THE INTERIOR, GEOLOGICAL SURVEY. SAID ELEVATION IS MARKED ON CAP AS BEING 6097 FEET.

# BASIS OF BEARINGS

BASIS OF BEARINGS IS A G.P.S. OBSERVATION.



THIS IS TO CERTIFY THAT THE MEDITION PREPARED FROM FIELD NOTES OF ACTUAL SUPERISH MADE BY LIE OF UNDER MY SUPERVISION AND THAT THE SAME ARE TRUE WAS EXPRECT TO THE NO EDRRECT TO THE BEST OF MY KNOWLEDGE AN

# UINTAH ENGINEERING & LAND SURVEYING 85 SOUTH 200 EAST - VERNAL, UTAH 84078 (435) 789-1017

SCALE 1" = 1000'	DATE SURVEYED: DATE DRAWN: 05-16-07 07-06-07
PARTY S.H. J.O. P.M.	REFERENCES G.L.O. PLAT
WEATHER WARM	FILE BERRY PETROLEUM COMPANY



Proposal No: 1001104605A

# Berry Petroleum Co Lake Canyon 11-26D-46

26 T4S R6W Duchesne County, Utah July 16, 2007

# **Cement Recommendation**

Prepared for:

Tim McDonald Berry Petroleum Co. Prepared by:

WESLEY D COOK

**District Technical Supervisor** 

Vernal, Utah

Bus Phone: (435)781-2294

Mobile:

(435)828-4121



# PowerVision®

POWERPRO \* POWERTRAX \* POWERLINK

# **Service Point:**

Vernal

Bus Phone: (435) 781-2294

Fax:

(435) 789-4530

Service Representatives:

Darrin Bailey Senior Sales Rep

Vernal, Utah

Bus Phone: (435) 781-2294

Operator Name: Berry Petroleum Co Lake Canyon 11-26D-46

Well Name:

Job Description: Cement 5-1/2 inch Production Casing

Date:

July 16, 2007



Proposal No: 1001104605A

# **JOB AT A GLANCE**

Depth (TVD)

6,204 ft

Depth (MD)

6.281 ft

**Hole Size** 

7.875 in

Casing Size/Weight:

5 1/2 in, 15.5 lbs/ft

Pump Via

5 1/2" O.D. (4.950" .I.D) 15.5 #

**Total Mix Water Required** 

7,235 gals

Pre-Flush

Fresh Water

10 bbls

Density

8.3 ppg

Spacer

**KCI Water** 

10 bbls

Density

8.4 ppg

**Spacer** 

Fresh Water

20 bbls

Density

8.3 ppg

**Lead Slurry** 

PL2+SF+3#CSE+3%KCL+0.25

257 sacks

Density

11.0 ppg

Yield

3.46 cf/sack

**Tail Slurry** 

50:50:2+3%KCL+0.5%EC-1+0.:

323 sacks

Density

14.3 ppg

Yield

1.27 cf/sack

Displacement

Fresh Water

149 bbls

**Density** 

8.3 ppg

Well Name:

Operator Name: Berry Petroleum Co Lake Canyon 11-26D-46

Job Description: Cement 5-1/2 inch Production Casing

Date:

July 16, 2007



Proposal No: 1001104605A

# **WELL DATA**

# **ANNULAR GEOMETRY**

ANNULAR I.D.	DE	PTH(ft)
(in)	MEASURED	TRUE VERTICAL
8.097 CASING	342	342
7.875 HOLE	6,281	6,204

# SUSPENDED PIPES

DIAMETE	ER (in)	WEIGHT	DEPTH(ft)		
O.D.	I.D.	(lbs/ft)	MEASURED	TRUE VERTICAL	
5.500	4.950	15.5	6,281	6,204	

6,241 ft Float Collar set @ **Mud Density** 8.40 ppg **Mud Type** Water Based 145 ° F Est. Static Temp. Est. Circ. Temp. 115°F

# **VOLUME CALCULATIONS**

342 ft	х	0.1926 cf/ft	with	0 % excess	=	65.9 cf
3,758 ft	x	0.1733 cf/ft	with	27 % excess	=	824.5 cf
2,181 ft	×	0.1733 cf/ft	with	7 % excess	=	403.4 cf
40 ft	х	0.1336 cf/ft	with	0 % excess	=	5.3 cf (inside pipe)

TOTAL SLURRY VOLUME = 1299.1 cf

232 bbls

Confirm well data with customer representative prior to pumping.

Well Name:

Operator Name: Berry Petroleum Co Lake Canyon 11-26D-46

Job Description: Cement 5-1/2 inch Production Casing

Date:

July 16, 2007



Proposal No: 1001104605A

# **FLUID SPECIFICATIONS**

Pre-Flush	10.0 bbls Fresh Water @ 8.34 ppg
Spacer	10.0 bbls KCI Water @ 8.4 ppg
Spacer	20.0 bbls Fresh Water @ 8.34 ppg

VOLUME VOLUME

FLUID	CU-FT	FACTOR	AMOUNT AND TYPE OF CEMENT
Lead Slurry	890	/ 3.46 =	= 257 sacks Premium Lite II Cement + 0.05 lbs/sack Static Free + 3% bwow Potassium Chloride + 0.25 lbs/sack Cello Flake + 5 lbs/sack Kol Seal + 0.002 gps FP-6L + 10% bwoc Bentonite + 0.5% bwoc Sodium Metasilicate + 3 lbs/sack CSE-2 + 201.6% Fresh Water
Tail Slurry	409	/ 1.27 =	= 323 sacks (50:50) Poz (Fly Ash):Class G Cement + 0.05 lbs/sack Static Free + 3% bwow Potassium Chloride + 0.5% bwoc EC-1 + 0.25 lbs/sack Cello Flake + 0.002 gps FP-6L + 2% bwoc Bentonite + 0.3% bwoc Sodium Metasilicate + 56.3% Fresh Water

Displacement 148.6 bbls Fresh Water @ 8.34 ppg

# **CEMENT PROPERTIES**

	SLURRY NO. 1	SLURRY NO. 2
Slurry Weight (ppg)	11.00	14.30
Slurry Yield (cf/sack)	3.46	1.27
Amount of Mix Water (gps)	21.03	5.67
Amount of Mix Fluid (gps)	21.03	5.67
Estimated Pumping Time - 70 BC (HH:MM)	4:30	3:30
COMPRESSIVE STRENGTH		
24 hrs @ 144 ° F (psi)		2300
72 hrs @ 144 ° F (psi)		2550

Compressive strengths and thickening times are estimates only. Final laboratory testing will determine retarder loadings, if necessary.

Slurry volumes are based off of 25% excess with gauge hole.



### CONDITIONS

BJ Services' performance of services and sale of materials is expressly conditioned upon the applicability of the Terms and Conditions contained in the current BJ Services Price Book. The Terms and Conditions include, among other things, an indemnity in favor of BJ Services from Customer for damage to the well bore, reservoir damage, loss of the hole, blowouts and loss of control of the well, even if caused by the negligence or other fault of BJ Services. The Terms and Conditions also limit the warranties provided by the BJ Services and the remedies to which Customer may be entitled in the event of a breach of warranty by BJ Services. For these reasons, we strongly recommend that you carefully review a copy of the Terms and Conditions. If you do not have a copy of the BJ Services Price Book, you can view the Terms and Conditions on BJ Services Web Site, www.bjservices.com. By requesting that BJ Services perform the services described herein, Customer acknowledges that such Terms and Conditions are applicable to the services. Further, by requesting the services, Customer warrants that its representative on the well location or other service site will be fully authorized to acknowledge such Terms and Conditions by executing a Field Receipt or other document presented by BJ Services containing such Terms and Conditions.

In the event that Customer and BJ Services have executed a Master Services Agreement covering the work to be performed, such Master Services Agreement shall govern in place of the Terms and

Conditions. If you are interested in entering into Master Services Agreement with BJ Services, please contact us through the "Go BJ" button on the BJ Services Web Site.

Report Printed on. JUL-16-07 04:28 PM

Well Name:

Operator Name: Berry Petroleum Co Lake Canvon 11-26D-46

Date:

July 16, 2007



Proposal No: 1001104605A

# PRODUCT DESCRIPTIONS

#### **Bentonite**

Commonly called gel, it is a clay material used as a cement extender and to control excessive free water.

#### CSE-2

An additive which contributes to low density, high compressive strength development of cement slurries at all temperature ranges. This material also controls free water without the need for standard extenders.

### Cello Flake

Graded (3/8 to 3/4 inch) cellophane flakes used as a lost circulation material.

#### **Class G Cement**

Intended for use as a basic cement from surface to 8000 ft as manufactured, or can be used with accelerators and retarders to cover a wide range of well depths and temperatures.

A proprietary product that provides expansive properties and improves bonding at low to moderate temperatures.

#### FP-6L

A clear liquid that decreases foaming in slurries during mixing.

A granular, lightweight material (specific gravity of 1.3) used to control lost circulation in zones of natural and induced fractures, cavities and high permeability.

### Potassium Chloride

A granular salt used to reduce clay swelling caused by water-base stimulation fluids.

### **Potassium Chloride**

A granular salt used to reduce clay swelling caused by water-base cementing fluids.

# Poz (Flv Ash)

A synthetic pozzolan, (primarily Silicon Dioxide). When blended with cement, Pozzolan can be used to create lightweight cement slurries used as either a filler slurry or a sulfate resistant completion cement.

### **Premium Lite II Cement**

Premium Lite II is a high-yield, cost effective lightweight cement blend that provides exceptional compressive strength and reduced permeability when mixed at low slurry weights.

# **Sodium Metasilicate**

An accelerator used to decrease the thickening time of cement slurries.

### **Sodium Metasilicate**

An extender used to produce an economical, low density cement slurry.

Operator Name: Berry Petroleum Co Well Name:

Lake Canyon 11-26D-46

Date:

July 16, 2007

Proposal No: 1001104605A

# **PRODUCT DESCRIPTIONS** (Continued)

# Static Free

An anti-static additive used to prevent air entrainment due to agglomerated particles. Can be used in Cementing and Fracturing operations to aid in the flow of dry materials.

Operator Name: Berry Petroleum Co
Well Name: Lake Canyon 11-26D-46
Date: July 16, 2007



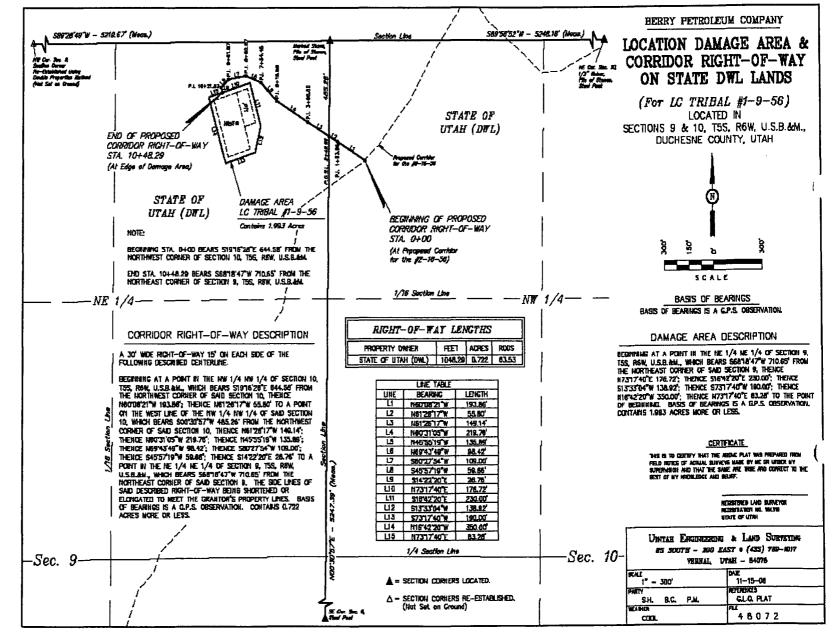
Proposal No: 1001104605A

**End of Report** 

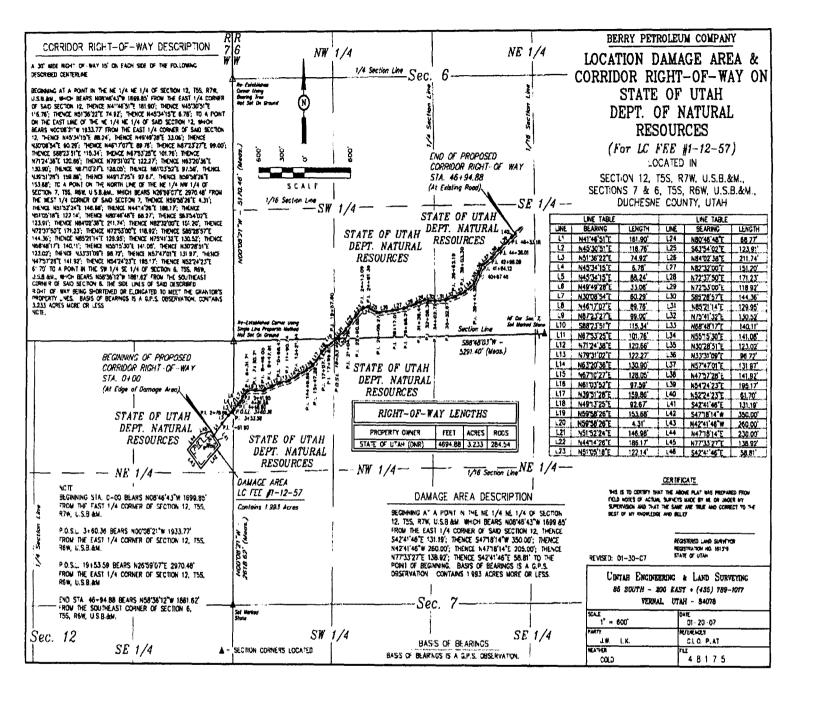
# **EXHIBIT A**

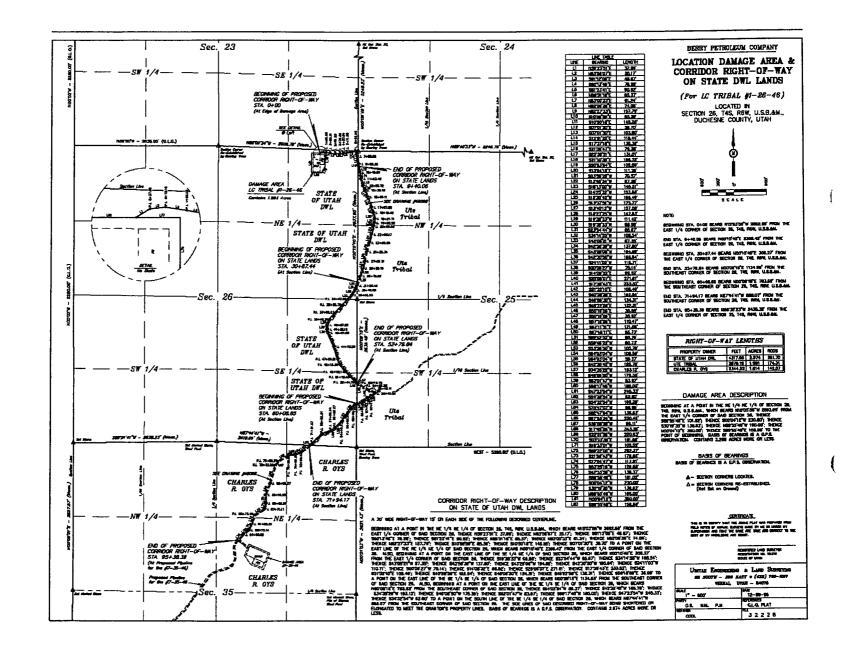
DWG	SUBDIVISION	S.T.R.	FACILITY	DISTANCE	EXI
	NE 1/4,NE 1/4 NW 1/4,NW 1/4	9, T5S, R6W 10, T5S, R6W	WELL/ROAD/PIPELINE 1-9-56 ROAD/PIPELINE	798.63'/48.40rds/2.543ac 249.66'/15.13rds/0.172ac	В
	NE 1/4,NE 1/4 N 1/2,NW 1/4 S 1/2	12, T5S, R7W 7, T5S, R6W 6, T5S, R6W	WELL/ROAD/PIPELINE 1-12-57 ROAD/PIPELINE ROAD/PIPELINE	360.36'/21.84rds/2.241ac 1593.13'/96.55rds/1.097ac 2741.39'/166.14rds/1.888ac	B-1
32228	E 1/2	26, T4S, R6W	WELL/ROAD/PIPELINE 1-26-46	4317.98'/261.70rds/4.967ac	B-2
48174 48174		18, T5S, R6W 7, T5S, R6W	WELL/ROAD/PIPELINE 3-18-56 ROAD/PIPELINE	2029.50'/123.00rds/3.391ac 5693.60'/345.07rds/3.921ac	B-3
	NW 1/4 SW 1/4,SE 1/4	4, T5S, R6W 32, T4S, R6W	WELL/ROAD/PIPELINE 5-4-56 ROAD/PIPELINE	800.29'/48.50rds/2.544ac 54.77'/3.32rds/0.038ac	B-4
	SE 1/4,NE 1/4 SW 1/4,NW 1/4	4, T5S, R6W 3, T5S, R6W	WELL/ROAD/PIPELINE 8-4-56 ROAD/PIPELINE	346.42'/21.00rds/2.232ac 480.31'/29.11rds/0.331ac	B-5
	E 1/2,NE 1/4 NE 1/4,SE 1/4	7, T5S, R6W 6, T5S, R6W	WELL/ROAD/PIPELINE 8-7-56 ROAD/PIPELINE	1895.09'/114.85rds/3.298ac 609.53'/36.94rds/0.420ac	B-6
48087	N 1/2,SE 1/4	26, T4S, R6W	WELL/ROAD/PIPELINE 10-26-56	1577.53'/95.61rds/3.079ac	B-7

Total Feet <u>29, 548.19</u> Total Rods <u>1,427.16</u> Total well site acres 15.94

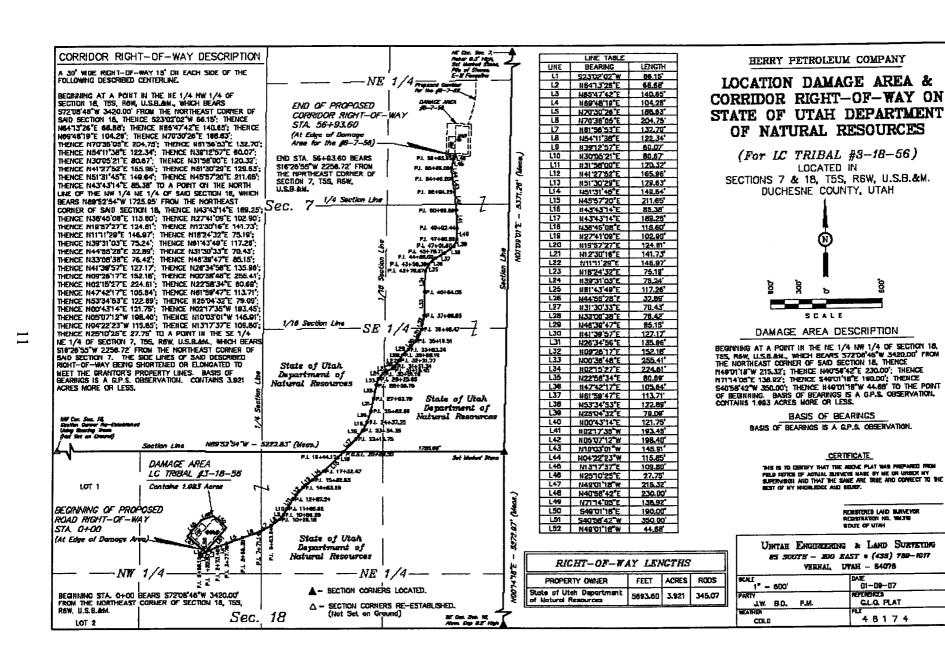


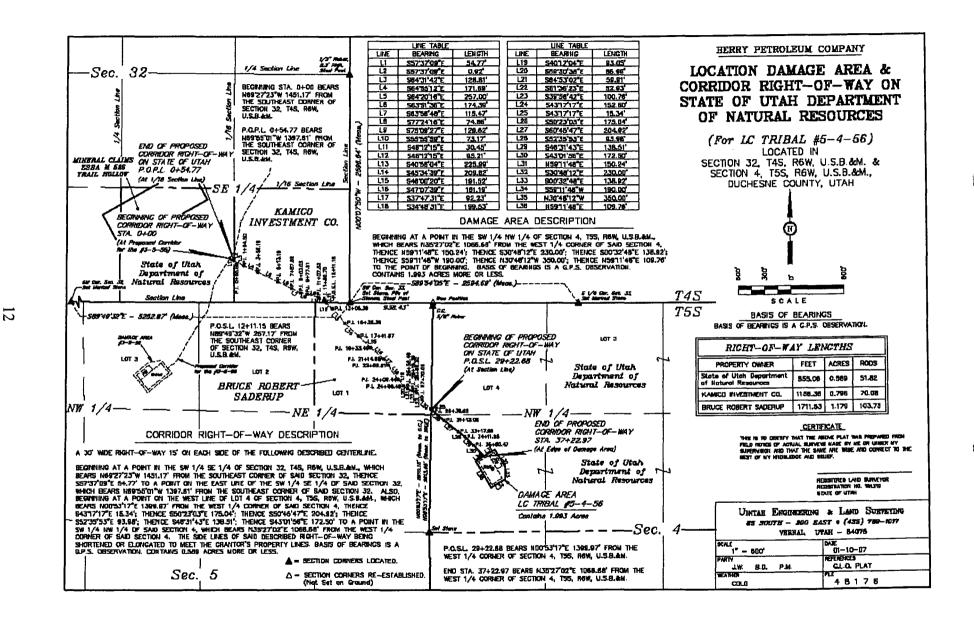
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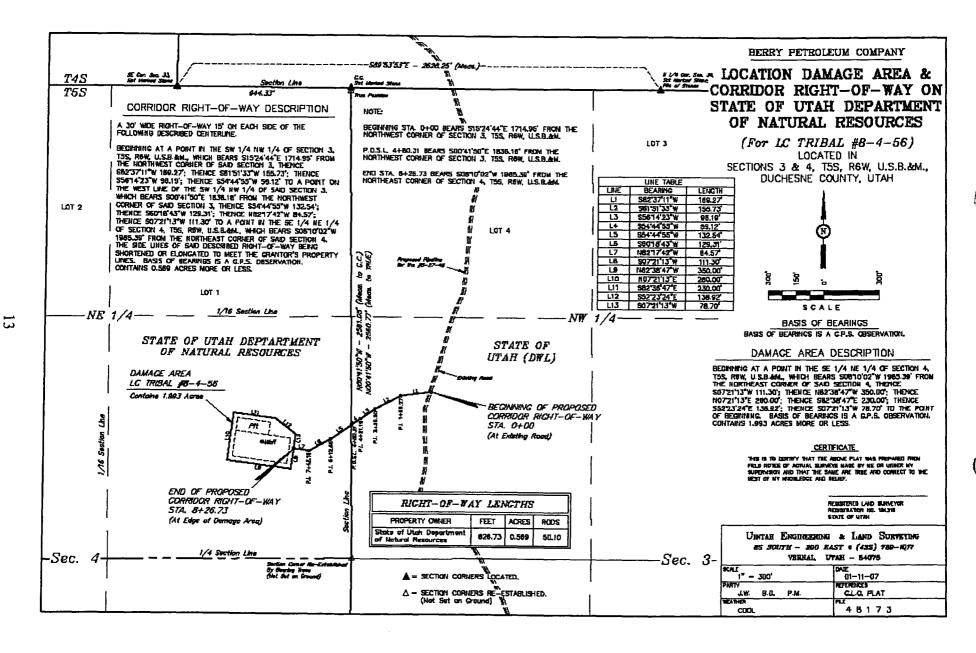


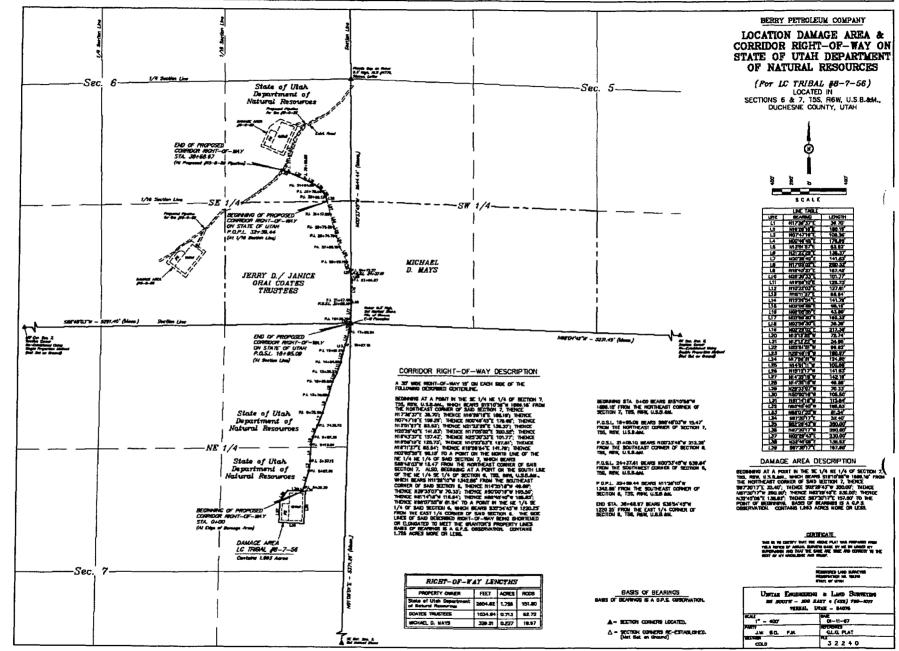


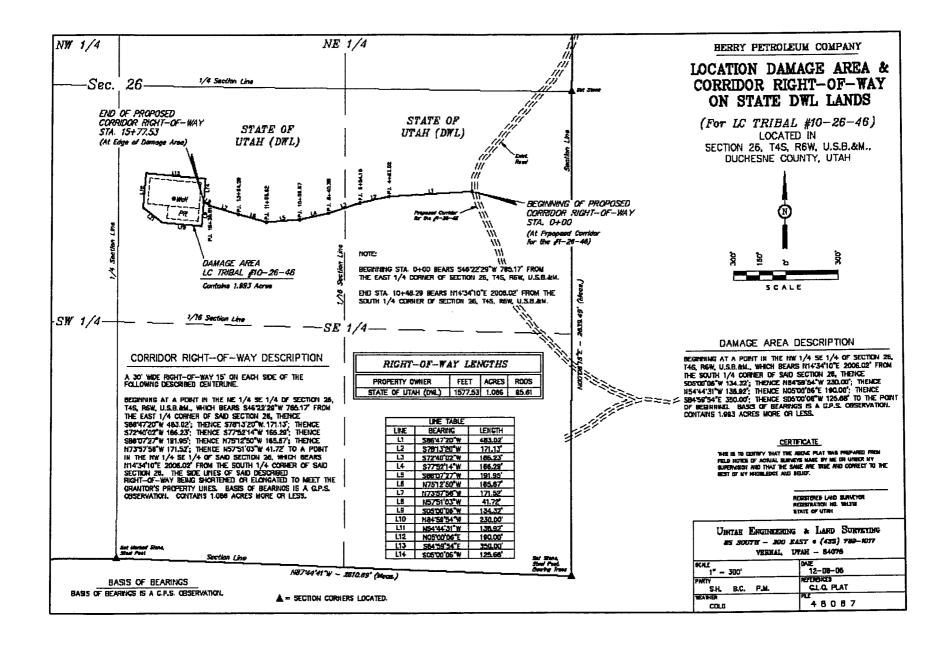
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#### **EXHIBIT C**

# BERRY PETROLEUM COMPANY UTE TRIBAL FIELD DUCHESNE COUNTY, UTAH STANDARD OPERATING PRACTICES DIVISION OF WILDLIFE RESOURCES LANDS November 10, 2004

#### MULTI POINT SURFACE USE & OPERATIONS PLAN

Surface use will be accordance with the Division of Wildlife Resources (GRANTOR) Right-of-Way (ROW).

#### 1. Existing Roads:

THE SITING OF A PARTICULAR WELL LOCATION WILL BE SHOWN ON MAPS AND DESCRIBED IN THE SITE SPECIFIC APD.

Improvements to existing access roads will be noted in the site specific APD and in accordance with the GRANTOR's specification.

All existing roads will be maintained and kept in good repair during all drilling, completion, and producing operations associated with this well.

#### 2. Planned Access Roads:

Descriptions of the access road will be included in the site specific APD.

On Ute Tribal, private, and/or state (GRANTOR) surface, access roads will be constructed according to the surface owners' specifications. These specifications or ROWs will be attached to the site specific APD when approved.

SURFACE DISTURBANCE AND VEHICULAR TRAFFIC WILL BE LIMITED TO THE APPROVED LOCATION AND APPROVED ACCESS ROUTE. ANY ADDITIONAL AREA NEEDED WILL BE APPROVED IN ADVANCE.

Access roads and surface disturbing activities will conform to standards outlined in the BLM and Forest Service publication, <u>Surface Operating Standards for Oil and Gas Exploration and Development</u>, Third Edition, 1989.

New access roads will be crowned (2 to 3%), ditched, and constructed with a running surface of 18 feet and a maximum disturbed width of 32 feet. Graveling or capping the roadbed will be performed as necessary to provide a well-constructed, safe road. Prior to construction or upgrading, the proposed road shall be cleared of any snow and shall be allowed to dry completely.

The disturbed width needed may be wider than 32 feet to accommodate larger equipment where deep cuts are required for road construction; intersections or sharp curves occur; or, as proposed by the operator. Approval will be required from the GRANTOR and the BLM/VFO Authorized Officer.

Appropriate water control structures will be installed to control erosion.

If requested by the GRANTOR a "DEAD END ROAD" sign will be installed and maintained at a

designated location.

Unless specified in the site specific APD, the following specifications will apply:

No pipelines will be crossed with the new construction.

The maximum grade will be less than 10%.

There will be no turnouts.

There will be no major cuts and fills, culverts, or bridges. If it becomes necessary to install a culvert at some time after approval of the APD, the operator will submit a Sundry Notice requesting approval to the BLM/VFO Authorized Officer with concurrence of the GRANTOR.

The access road will be centerline flagged during time of staking.

There will be no gates, cattle guards, fence cuts, or modifications to existing facilities without concurrence of the GRANTOR.

Surfacing material may be necessary, depending upon weather conditions.

THE ROAD SURFACE AND SHOULDERS WILL BE KEPT IN A SAFE AND USABLE CONDITION AND WILL BE MAINTAINED IN ACCORDANCE WITH THE ORIGINAL CONSTRUCTION STANDARDS. ALL DRAINAGE DITCHES AND CULVERTS WILL BE KEPT CLEAR AND FREE FLOWING AND WILL BE MAINTAINED ACCORDING TO THE ORIGINAL CONSTRUCTION STANDARDS. THE ACCESS ROAD ROW WILL BE KEPT FREE OF TRASH DURING OPERATIONS. ALL TRAFFIC WILL BE CONFINED TO THE APPROVED RUNNING SURFACE. ROAD DRAINAGE CROSSINGS SHALL BE OF THE TYPICAL DRY CREEK DRAINAGE CROSSING TYPE. CROSSINGS SHALL BE DESIGNED SO THEY WILL NOT CAUSE SILTATION OR ACCUMULATION OF DEBRIS IN THE DRAINAGE CROSSING, NOR SHALL THE DRAINAGES BE BLOCKED BY THE ROADBED. EROSION OF DRAINAGE DITCHES BY RUNOFF WATER SHALL BE PREVENTED BY DIVERTING WATER OFF AT FREQUENT INTERVALS BY MEANS OF CUTOUTS. SHOULD MUD HOLES DEVELOP, THE HOLES SHALL BE FILLED IN AND DETOURS AROUND THE HOLES AVOIDED. WHEN SNOW IS REMOVED FROM THE ROAD DURING THE WINTER MONTHS, THE SNOW SHOULD BE PUSHED OUTSIDE THE BORROW DITCHES, AND THE TURNOUTS KEPT CLEAR SO THAT SNOWMELT WILL BE CHANNELED AWAY FROM THE ROAD.

#### 3. Location of Existing Wells Within a 1-Mile Radius:

A map will be provided with the site specific APD showing the location of existing wells within a one-mile radius.

## 4. <u>Location of Tank Batteries, Production Facilities, and Production Gathering and Service Lines:</u>

The following guidelines will apply if the well is productive:

All permanent (on site for six months or longer) structures constructed or installed will be painted a flat, non-reflective, earth tone color to match one of the standard environmental colors, as determined by the five state Rocky Mountain Inter-Agency Committee. All facilities will be painted within six months of installation. Facilities that are required to

comply with the Occupational Safety and Health Act (OSHA) will be excluded. The required paint color is desert brown (10YR 6/4) unless otherwise designated by the Authorized Officer.

A containment dike will be constructed completely around those production facilities which contain fluids (i.e., production tanks, produced water tanks). This dike will be constructed of compacted subsoil, be impervious, hold 100% of the capacity of the largest tank, and be independent of the back cut. The site specific APD will address additional capacity if such is needed due to environmental concerns. The use of topsoil for the construction of dikes will not be allowed. If a Spill Prevention, Control, and Countermeasure (SPCC) Plan is required by the Environmental Protection Agency, the containment dike may be expanded with the BLM/VFO Authorized Officer's approval to meet SPCC requirements.

A description of the proposed pipeline and a map illustrating the proposed route will be submitted with the site specific APD.

All site security guidelines identified in Federal regulation 43 CFR 3126.7, will be adhered to. All off-lease storage, off-lease measurement, or commingling on-lease or off-lease production will have prior written approval form the BLM/VFO Authorized Officer.

Gas meter runs will be located approximately 100 feet from the wellhead. Where necessary, the gas line will be buried, or anchored down from the wellhead to the meter. Where necessary, meter runs will be housed and/or fenced.

#### 5. Location and Type of Water Supply

The location and type of water supply will be submitted with the site specific APD.

#### 6. Source of Construction Materials:

All construction materials for this location site and access road shall be borrow (local) material accumulated during construction of the location site, access road or pipeline

Additional gravel or pit lining material will be obtained from a private source.

The use of materials under BLM jurisdiction will conform with 43 CFR 3610.2-3.

#### 7. Methods of Handling Waste Materials:

DRILL CUTTINGS WILL BE CONTAINED AND BURIED IN THE RESERVE PIT.

Drilling fluids, including salts and chemicals, will be contained in the reserve pit. Upon termination of drilling and completion operations, the liquid contents of the reserve pit will be used at the next drill site or will be removed and disposed of at an approved waste disposal facility within 180 days after drilling is terminated. Immediately upon well completion, any hydrocarbons in the pit shall be removed in accordance with 43 CFR 3162.7-1.

Unless specified in the site specific APD, the reserve pit will be constructed on the location and will not be located within natural drainages, where a flood hazard exists or surface runoff will

destroy or damage the pit walls. The reserve pit will be constructed so that it will not leak, break, or allow discharge of liquids.

If it is determined at the onsite that a pit liner is necessary, the reserve pit will be lined with a synthetic reinforced liner a minimum of 12 millimeters thick, with sufficient bedding used to cover any rocks. The liner will overlap the pit walls and be covered with dirt and/or rocks to hold it in place. Trash or scrap that could puncture the liner will not be disposed of in the pit.

Reserve pit leaks are considered an unacceptable and undesirable event and will be orally reported to the Authorized Officer.

After first production, produced wastewater will be trucked to one of the following approved waste water disposal sites: R.N. Industries, Inc. Sec. 4, T2S, R2W, Bluebell; MC & MC Disposal Sec. 12, T6S, R19E, Vernal; LaPoint Recycle & Storage Sec. 12, T5S, R19E, LaPoint or Water Disposal Inc. Sec. 32, T1S, R1W, Roosevelt; used in the operations of the field or, unless prohibited by the Authorized Officer, confined to the approved pit or storage tank for a period not to exceed 90 days. The use of such pit is hereby approved as part of this Application for Permit to Drill.

On GRANTOR administered lands, production fluids will be contained in leak-proof tanks. All production fluids will be disposed of at approved disposal sites. Produced water, oil, and other byproducts will not be applied to roads or well pads for control of dust or weeds. The indiscriminate dumping of produced fluids on roads, well sites, or other areas will not be allowed.

Any spills of oil, gas, salt water, or other noxious fluids will be immediately cleaned up and removed to an approved disposal site.

A chemical portable toilet will be furnished with the drilling rig.

Garbage, trash, and other waste materials will be collected in a portable, self-contained, fully enclosed trash cage during operations. Trash will not be burned on location.

All debris and other waste materials not contained in the trash cage will be cleaned up and removed from the location immediately after removal of the drilling rig.

Any open pits will be fenced during the operations. The fencing will be maintained until such time as the pits are backfilled.

No chemicals subject to reporting under SARA Title III (hazardous materials) in an amount equal to or greater than 10,000 pounds will be used, produced, stored, transported, or disposed of annually in association with the drilling, testing, or completing of wells. Furthermore, extremely hazardous substances, as defined in 40 CFR 355, in threshold planning quantities, will not be used, produced, stored, transported, or disposed of in association with the drilling, testing, or completing of wells within these areas. Specific APD's shall address any modifications from this policy.

#### 8. Ancillary Facilities:

THERE ARE NO ANCILLARY FACILITIES PLANNED FOR AT THIS TIME AND NONE ARE FORESEEN IN THE FUTURE.

#### 9. Wellsite Layout:

A LOCATION LAYOUT DIAGRAM DESCRIBING DRILL PAD CROSS-SECTIONS, CUTS AND FILLS, AND LOCATIONS OF MUD TANKS, RESERVE PIT, FLARE PIT, PIPE RACKS, TRAILER PARKING, SPOIL DIRT STOCKPILE(S), AND THE SURFACE MATERIALS STOCKPILE(S) WILL BE INCLUDED WITH THE SITE SPECIFIC APD.

The diagram will describe rig orientation, parking areas, and access roads as well as the location of the following:

The reserve pit.

THE STOCKPILED TOPSOIL, WHICH SHALL NOT BE USED FOR FACILITY BERMS. ALL BRUSH REMOVED FROM THE WELL PAD DURING CONSTRUCTION WILL BE STOCKPILED WITH THE TOPSOIL.

The flare pit, which will be located downwind from the prevailing wind direction.

The access road.

All pits will be fenced according to the following minimum standards:

39-inch net wire shall be used with at least one strand of wire on top of the net wire. Barbed wire is not necessary if pipe or some type of reinforcement rod is attached to the top of the entire fence.

The net wire shall be no more than two inches above the ground. The barbed wire shall be three inches over the net wire. Total height of the fence shall be at least 42 inches.

Corner posts shall be cemented and/or braced in such a manner as to keep the fence tight at all times.

Standard steel, wood, or pipe posts shall be used between the corner braces. Distance between any two posts shall be no greater than 16 feet.

All wire shall be stretched using a stretching device before it is attached to the corner posts.

The reserve pit fencing will be on two sides during drilling operations, and on the third and fourth sides when the rig moves off location. Pits will be fenced and maintained until cleanup.

#### 10. Plans for Restoration of the Surface:

The dirt contractor will be provided with approved copies of the Surface Use Plan and these Standard Operating Procedures prior to construction activities.

Immediately upon well completion, the location and surrounding area will be cleared of all unused tubing, materials, trash, and debris not required for production.

ON LANDS ADMINISTERED BY THE GRANTOR, ABANDONED WELL SITES, ROADS, AND OTHER

DISTURBED AREAS WILL BE RESTORED AS NEAR AS PRACTICAL TO THEIR ORIGINAL CONDITION. WHERE APPLICABLE, THESE CONDITIONS MAY INCLUDE THE RE-ESTABLISHMENT OF IRRIGATION SYSTEMS, THE RE-ESTABLISHMENT OF APPROPRIATE SOIL CONDITIONS, AND THE RE-ESTABLISHMENT OF VEGETATION AS SPECIFIED.

All disturbed areas will be re-contoured to the approximate natural contours.

Any drainage rerouted during the construction activities shall be restored to its original line of flow or as near as possible.

Prior to backfilling the reserve pit, the fence surrounding the reserve pit will be removed. The pit liner will be cut off at the water or mud line and disposed of at an approved landfill site. The liner will also be torn and perforated after the pit dries and prior to backfilling the reserve pit.

Before any dirt work associated with reserve pit restoration takes place, the reserve pit shall be as dry as possible. All debris in it will be removed. Other waste and spoil materials will be disposed of immediately upon completion of operations. The reserve pit will be reclaimed within 180 days from the date of well completion, weather permitting. Once reclamation activities have begun, the activities will be completed within 30 days.

After the reserve pit has been reclaimed, no depressions in the soil covering the reserve pit will be allowed. The object is to keep seasonal rainfall and runoff from seeping into the soil used to cover the reserve pit. Diversion ditches and water bars will be used to divert runoff as needed.

Prior to the construction of the location, the top 12 inches of soil material will be stripped and stockpiled. Placement of the topsoil will be noted on the location plat attached to the site specific APD. Topsoil shall be stockpiled separately from subsoil materials. Topsoil salvaged from the reserve pit shall be stockpiled separately near the reserve pit. When all drilling and completion activities have been completed, the unused portion of the location (area outside the deadmen) will be re-contoured and topsoil spread over the area.

Topsoil to be stored for more than one year:

Shall be windrowed, where possible, to a depth of three (3) to four (4) feet at a specified location near the margin of the site.

Broadcast seeded with the prescribed seed mixture immediately after windrowing. The Authorized Officer of the appropriate surface management agency shall be contacted for the required seed mixture. Seed will be drilled on the contour to an appropriate depth.

The stockpile then "walked" with a dozer to cover the seed.

Mulching may be one method considered to enhance the re-establishment of desired native plant communities. If straw or hay mulch is used, the straw and hay must be certified to be weed-free and the documentation submitted prior to usage.

When restoration activities have been completed, the location site and new access road cuts and shoulders shall be reseeded. Prior to reseeding, all disturbed areas, including the old access road will be scarified and left with a rough surface.

The Authorized Officer or the appropriate surface management agency shall be contacted for the

required seed mixture. Seed will be drilled on the contour to an appropriate depth. If broadcast seeded, the amount of seed mixture per acre will be doubled, and a harrow or some other implement will be dragged over the seeded area to assure coverage of the seeds.

For GRANTOR administered surface, at final abandonment, all casing shall be cut off at the base of the cellar or 3 feet below final restored ground level, whichever is deeper, and cap the casing with a metal plate a minimum of 0.25 inches thick. The cap will be welded in place and the well location and identity will be permanently inscribed on the cap. The cap also will be constructed with a weep hole.

#### 11. Surface Ownership:

The ownership of the access roads will be specified in the site specific APD.

The ownership of the well pad will be specified in the site specific APD.

#### 12. Other Information:

All lease and/or unit operations will be conducted in such a manner that full compliance is made with all applicable laws, regulations, Onshore Oil and Gas Orders, the approved Plan of Operations, and any applicable Notice to Lessees. The operator is fully responsible for the actions of his subcontractors. A copy of these conditions will be furnished to the field representative to ensure compliance.

The operator will control noxious weeds along access road use authorizations, pipeline route authorizations, well sites or other applicable facilities. A list of noxious weeds may be obtained from the GRANTOR, BLM or the appropriate County Extension Office. On GRANTOR administered land, it is required that a Pesticide Use Proposal be submitted and approved prior to the application of herbicides or other pesticides or possibly hazardous chemicals.

Drilling rigs and/or equipment used during drilling operations on this location will not be stacked or stored on GRANTOR administered lands after the conclusion of drilling operations or at any other time without authorization by the GRANTOR Authorized Officer. If GRANTOR authorization is obtained, such storage is only a temporary measure.

Travel is restricted to only the approved travel routes.

Unless previously conducted, a class III archaeological survey will be conducted on all Federal, State (GRANTOR) or Tribal lands. All personnel will refrain from collecting artifacts and from disturbing any significant cultural resources in the area. The operator is responsible for informing all persons in the area who are associated with this project that they may be subject to prosecution for knowingly disturbing historic or archaeological sites or for collecting artifacts. All vehicular traffic, personnel movement, construction, and restoration activities shall be confined to the areas examined, as referenced in the archaeological report, and to the existing roadways and/or evaluated access routes. If historic or archaeological materials are uncovered during construction, the Operator is to immediately stop work that might further disturb such materials and contact the Authorized Officer and/or the Ute Tribe Energy and Mineral Department.

Within five working days, the Authorized Officer will inform the operator as to:

Whether the materials appear eligible for the National Historic Register of Historic

#### Places;

The mitigation measures the operator will likely have to undertake before the site can be used (assuming in-situ preservation is not necessary); and,

The time frame for the Authorized Officer to complete an expedited review under 36 CFR 800.11 to confirm, through the State Historic Preservation Officer, that the findings of the Authorized Officer are correct and that the mitigation measures are appropriate.

If the operator wishes, at any time, to relocate activities to avoid the expense of mitigation and/or the delays associated with this process, the Authorized Officer and/or the GRANTOR will assume responsibility for whatever recordation and stabilization of the exposed materials may be required. Otherwise the operator will be responsible for mitigation costs. The Authorized Officer and/or the GRANTOR will provide technical and procedural guidelines for the conduct of mitigation. Upon verification from the Authorized Officer that required mitigation has been completed, the Operator will then be allowed to resume construction.

On surface administered by the GRANTOR, all Surface Use Conditions of Approval associated with the BIA Concurrence letter and Environmental Analysis Mitigation Stipulations will be adhered to, including:

Any/all contractors used by Grantee Petroleum Company will have acquired a Tribal Business License and shall have access permits prior to construction.

If the surface rights are owned by the Ute Indian Tribe and mineral rights are owned by another entity, an Application For Corridor Right-of-Way will be obtained from the BIA before the Operator begins any construction activities. The BIA right-of-way application will be delivered under separate cover. If the surface is owned by the GRANTOR and the mineral rights are owned by the Ute Indian Tribe, a right-of-way will be obtained from the GRANTOR.

Operator's employees, including subcontractors, will not gather firewood along roads constructed by the operator. Grantee Petroleum Company has a Joint Venture Agreement with the Ute Tribe. This agreement makes it unnecessary for Grantee Petroleum Company to obtain a wood permit. Please see the Joint Venture Agreement, which has been assigned to Grantee Petroleum Company, for additional information.

All roads constructed by the operator will have appropriate signs. Signs will be neat and of sound construction. The sign will state: (a) that the land is owned by the GRANTOR, (b) the name of the Operator, (c) that firearms are prohibited (d) that permits must be obtained from the GRANTOR before cutting firewood or other timber products, and (e) only authorized personnel permitted.

All well site locations will have appropriate signs indicating the name of the operator, the lease serial number, the well name and number, the survey description of the well (either footages or the quarter/quarter section, the section, township, and range).

#### 13. <u>Lessees or Operator's Representative and Certification:</u>

REPRESENTATIVE:

NAME:

TOM RAND

ENGINEERING MANAGER

ADDRESS:

BERRYPETROLEUM COMPANY 950 17<sup>TH</sup> STREET, SUITE 2400 DENVER, CO 80202

PHONE:

303-825-3344 720-384-5149

CELLULAR:

ALL LEASE AND/OR UNIT OPERATIONS WILL BE CONDUCTED IN SUCH A MANNER THAT FULL COMPLIANCE IS MADE WITH ALL APPLICABLE LAWS, REGULATIONS, ONSHORE OIL AND GAS ORDERS AND ANY APPLICABLE NOTICE TO LESSEES.

THE OPERATOR WILL BE FULLY RESPONSIBLE FOR THE ACTIONS OF ITS SUBCONTRACTORS. A COMPLETE COPY OF THE APPROVED "APPLICATION FOR PERMIT TO DRILL" AND THE STANDARD OPERATING PROCEDURES WILL BE FURNISHED TO THE FIELD REPRESENTATIVE(S) TO ENSURE COMPLIANCE AND SHALL BE ON LOCATION DURING ALL CONSTRUCTION AND DRILLING OPERATIONS.

THE DRILLING PERMIT WILL BE VALID FOR A PERIOD OF ONE YEAR FROM THE DATE OF APPROVAL. AFTER PERMIT TERMINATION, A NEW APPLICATION WILL BE FILED FOR APPROVAL FOR ANY FUTURE OPERATIONS.

SITE-SPECIFIC CERTIFICATION WILL BE SUBMITTED WITH THE SITE-SPECIFIC APD.

#### EPA'S LIST OF NONEXEMPT EXPLORATION AND PRODUCTION WASTES

WHILE THE FOLLOWING WASTES ARE NONEXEMPT, THEY ARE NOT NECESSARILY HAZARDOUS.

- Unused fracturing fluids or acids
- GAS PLANT COOLING TOWER CLEANING WASTES
- PAINTING WASTES
- OIL AND GAS SERVICE COMPANY WASTES, SUCH AS EMPTY DRUMS, DRUM RINSATE, VACUUM TRUCK RINSATE, SANDBLAST MEDIA, PAINTING WASTES, SPEND SOLVENTS, SPILLED CHEMICALS, AND WASTE ACIDS
- VACUUM TRUCK AND DRUM RINSATE FROM TRUCKS AND DRUMS, TRANSPORTING OR CONTAINING NONEXEMPT WASTE
- REFINERY WASTES
- LIQUID AND SOLID WASTES GENERATED BY CRUDE OIL AND TANK BOTTOM RECLAIMERS

- USED EQUIPMENT LUBRICATION OILS
- WASTE COMPRESSOR OIL, FILTERS, AND BLOWDOWN
- USED HYDRAULIC FLUIDS
- WASTE SOLVENTS
- WASTE IN TRANSPORTATION PIPELINE-RELATED PITS
- CAUSTIC OR ACIDS CLEANERS
- BOILER CLEANING WASTES
- BOILER REFRACTORY BRICKS
- INCINERATOR ASH
- LABORATORY WASTES
- SANITARY WASTES
- PESTICIDE WASTE

\

- RADIOACTIVE TRACER WASTES
- DRUMS, INSULATION AND MISCELLANEOUS SOLIDS

Exhibit D Field Reclamation Bond

#### BOND NO. RJ.B0009627

#### LICENSE OR PERMIT BOND

Principal, and theRLI Insurance Company	<u>காரு 62</u> 01 7 <u>டிரும் Avenue, Suilo 3CO, Bakorefield CA</u> 93309 as an பிடும்த corporation,
	imeni el Natural Resources, Digis on of Widdlife Resources, 161 W
in the sum of	
	ilibris. prociitors administrators, syccessore and sanlgna, jointly and
WiteREAS, เทีย Principal has been บา ให shout to be gramed a Rig	r/i-of-Vvay No. DUC 1808 EAD45 by the Obligee
MOW, THEREFORM, THE CONDITION OF THIS OBLICATION I Section of Wakilite Measures Administrative Rulo R457-28, and word; observate to remain in \$25 force and affect. In no event what it	is such that if the Principal whell walf and buly comply with Ulah conduct business in conformity therewith, than this obligations to be the bability hereunder exceed the penal outh hereof
PROVIDED AND SUBJECT TO THE CONDITIONS PRINCEDENT	r.
this obtgettion may be concelled by the Surely by giving it and the Surety shall be relieved of any further habity. Obligate, except for defaults occaring print thereto.	hirty (30) days actice in writing of its intention to go so to the Obligate under this Bond thirty (30) days after receipt of soid notice by the
2 Any claim must be presented in writing to Ri,I insurance Suite 400 Houston, Yoran, 17045	e Company to the attention of Greg E. Chilson, 8 Greenway Plaza .
The Obligue of any other paramit or analy by reason of act	ne of any other person or entity for any ties authered by the Principal s or amications which are or could be covered by the Chilipre's or the trance, completed operations insurance or any other requirence
4 No Aghlior action whall accrue under this Bond to or to the	suse or bariefit of whyone other then the neined Obligge
. 5 The Obsigor will issue a release of this Bond within a ris	aconable period, but in no visitence lunger than thirty (30) days after
in WITHESS WHEREOF, the above bound parties have miscute 200d, the name and corporate seal of much corporate party being representative pursuant to each of its governing body.	d this matriament under their several seats this <u>26th</u> day of <u>Audust,</u> given the affixed and those presents duty signed by its undersigned
	četry <del>Patroleuns Co</del> rregos Principal
	89
	Kr. Juan auce Company
	By RC(7)). OSC. Paul M O'Sullvan, Altorroy-in-had

#### **EXHIBIT D-1**

DR1581500P 17:24 \132010503

UNDERWALIERS ALL THS

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RLI

Rt.I insurance Company | 9025 North Lindbergh Dr. Peore, IL 61815-1409 | Ph. (309) 892 1809 RLB0009627

### POWER OF ATTORNEY RLI Insurance Company

#### Know All Men by These Presents:

That the RLI INSURANCE COMPANY, a corporation organized and existing under the laws of the State	of Illinois, and authorized and licensed
to do business in all states and the District of Columbia does hereby make, constitute and appoint:	PAUL M. O'SULLIVAN
in the City of HOUSTON . State of TEXAS, as Attorney-in-Fact, with full power and authorit	y hereby conferred upon him to sign.
execute, acknowledge and deliver for and on its behalf as Surety and as its act and deed, all of the fo	flowing classes of documents to-wit:

\$100,000.00

Indemnity. Surety and Undertainings that may be desired by contract, of may be given in any action or proceeding in any court of law or requity policies indemnitying employees official, bit and surely and Udelliy bonds Indemnity in all cases where indemnity may be lawfully given, and with full power and addition to change or, extend any bonds or document executed by this Company and the compromise and cases where indemnity may be lawfully given, and with full power and addition or document executed by this Company and the compromise.

The company is a surely any and all claims or dominate made or existing against and Company.

The RLI INSURANCE COMPANY further certifies that the following is a true and exact copy of a Resolution adopted by the Board of Directors of RLI Insurance Company, and now in force to-wit:

All bonds; policies, undertekting, Powers of Attorney, or other obligations of the corporation shall be executed in the corporation in the secretary. Treasurer, or any Vice President, or by such other officers as the Board of Directors may buildone. The resident, any Vice President, or by such other officers as the Board of Directors may buildone. The resident, any Vice President, servetary, any Assistant Secretary, or the Treasurer appoint Attorneys in Pact or Agents who shall have authority to issue bonds; policies, or undertakings in the native of the Company. The corporate seal is not officer and the validity of any bonds, policies, undertakings. Powers of Attorney, or other obligations of the corporation. The signature of any such officer and the corporate leaf may be printed by licitifile.

(Blue shaded areas above indicate authenticity)

IN WITNESS WHEREOF, the RLI Insurance Company has caused these presents to be executed by its <u>PRESIDENT. CEO</u> with its corporate seal affixed this

HANCE COM

Corporate Secretary

State of Himons ) 63
County of Paoria )

On this 28 day of Aug. 2006 before me, a Notary Public, personally appeared <u>Michael J. Stone</u> and <u>Camille J. Hensey</u>, who being by me duly sworn, acknowledged that they signed the above Power of Attorney as President, CEO and Corporate Secretary, respectively, of the said RLI INSURANCE COMPANY, and acknowledged said instrument to be the voluntary act and deed of said corporation.

Cherce & Montgomery

"OFFICIAL SEAL"
CHEEFE I. MONTGOMERY
COMMISSION DIVINIS 02/02/08

UICS 904 (03/04)

BLI INSUBANCE COMPANY

### **BERRY PETROLEUM COMPANY**

LC TRIBAL #10-26-46 & #11-26D-46 LOCATED IN DUCHESNE COUNTY, UTAH

**SECTION 26, T4S, R6W, U.S.B.&M.** 



PHOTO: VIEW FROM CORNER #5 TO LOCATION STAKE

**CAMERA ANGLE: NORTHERLY** 

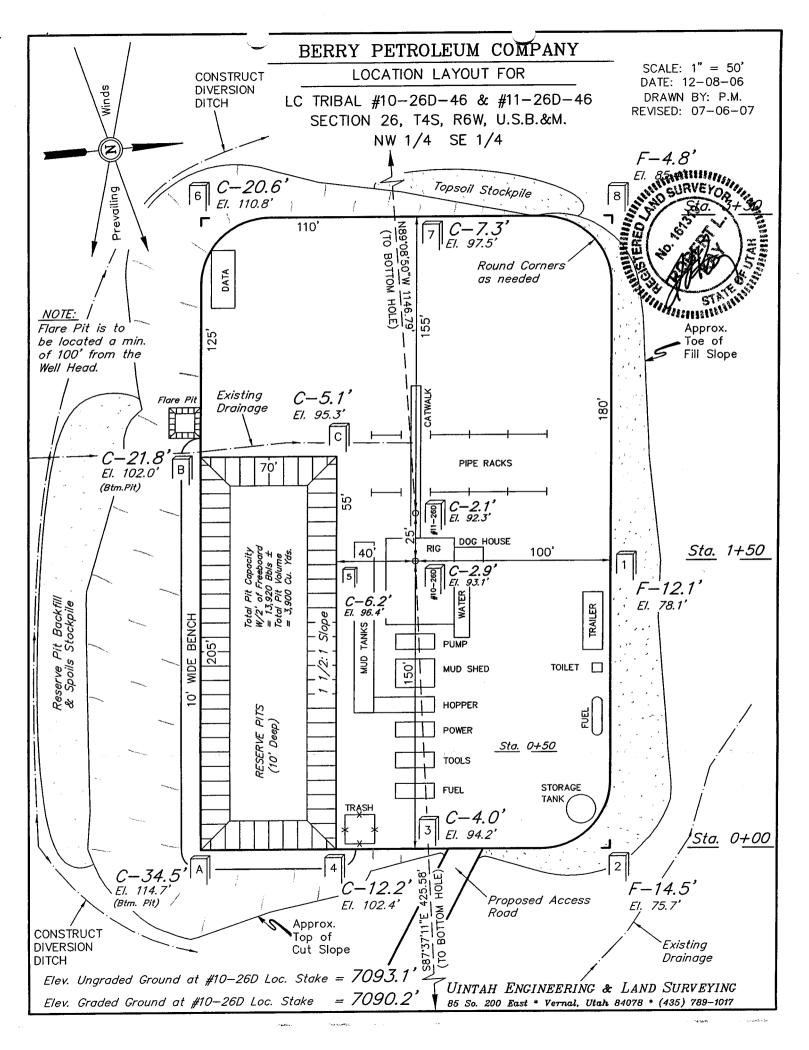


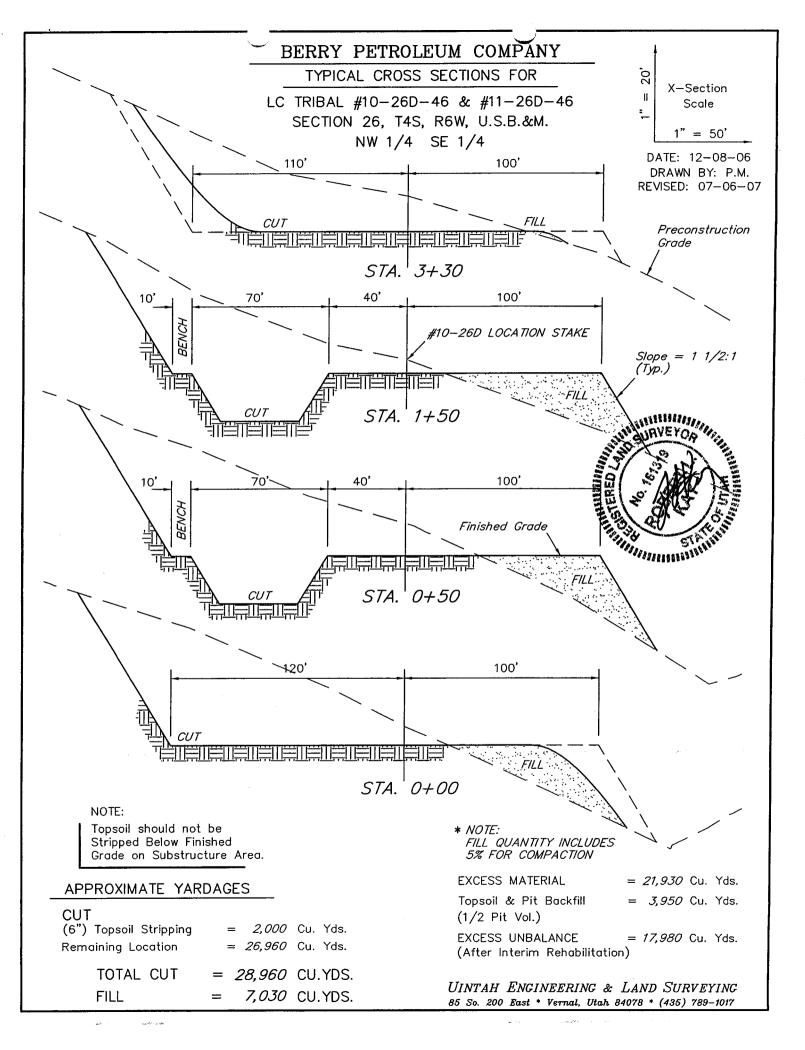
PHOTO: VIEW FROM BEGINNING OF PROPOSED ACCESS

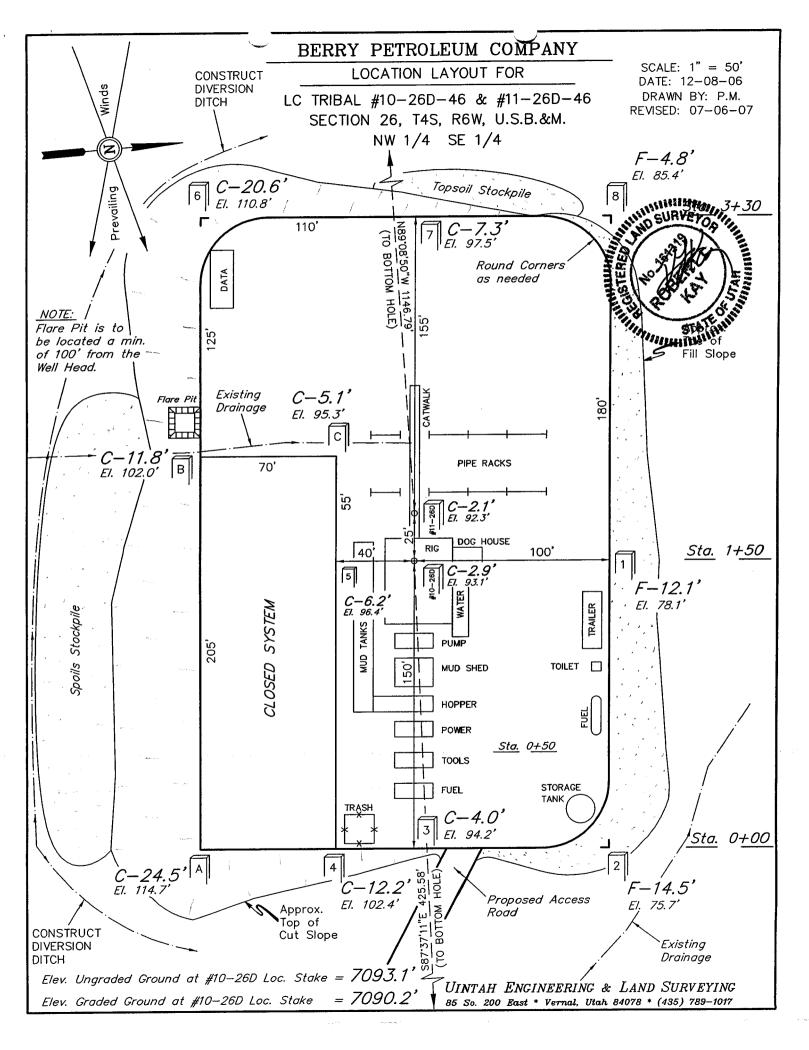
**CAMERA ANGLE: WESTERLY** 

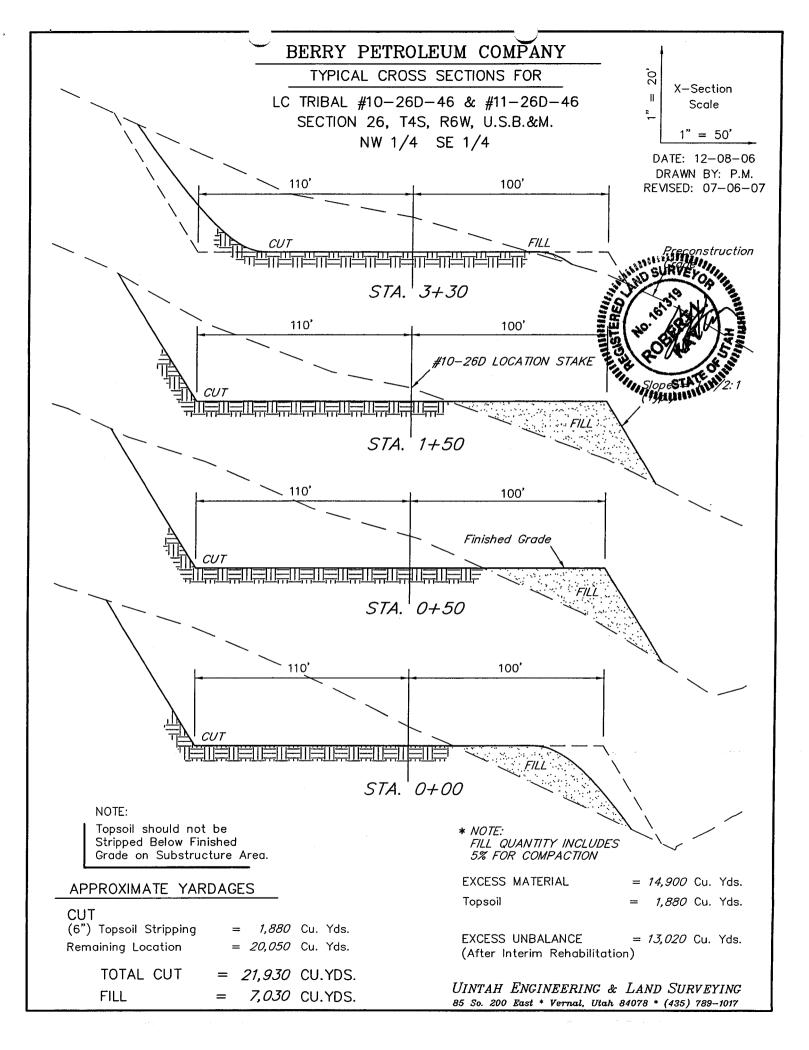


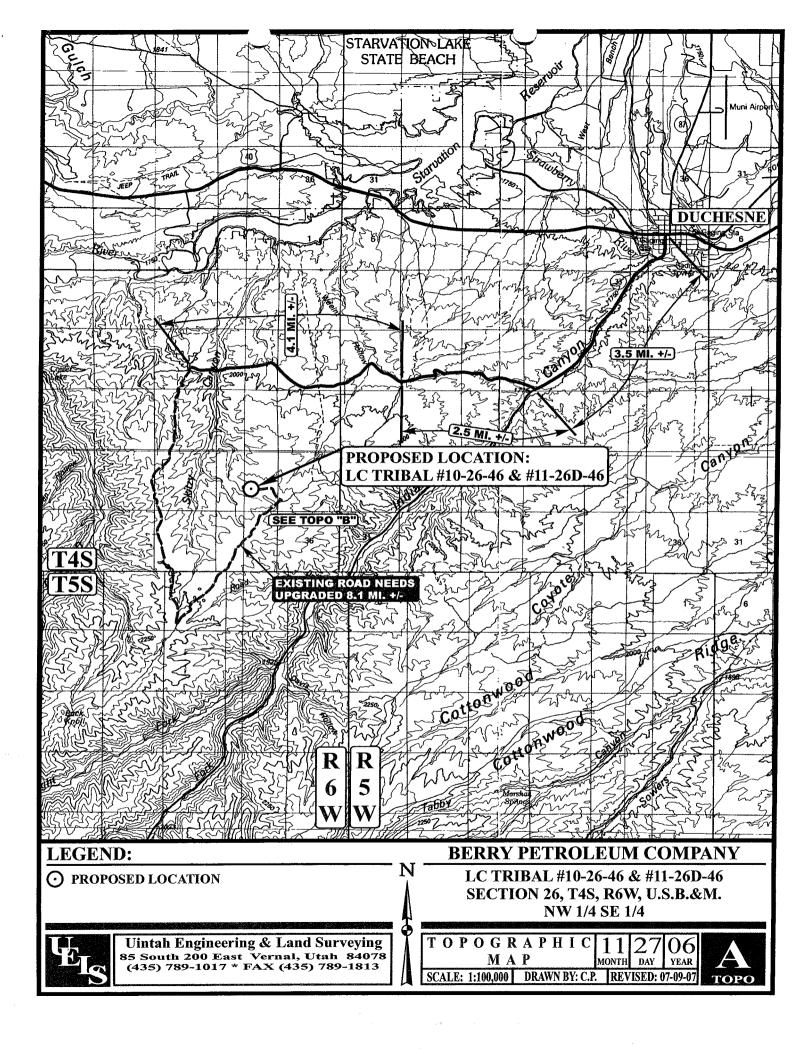


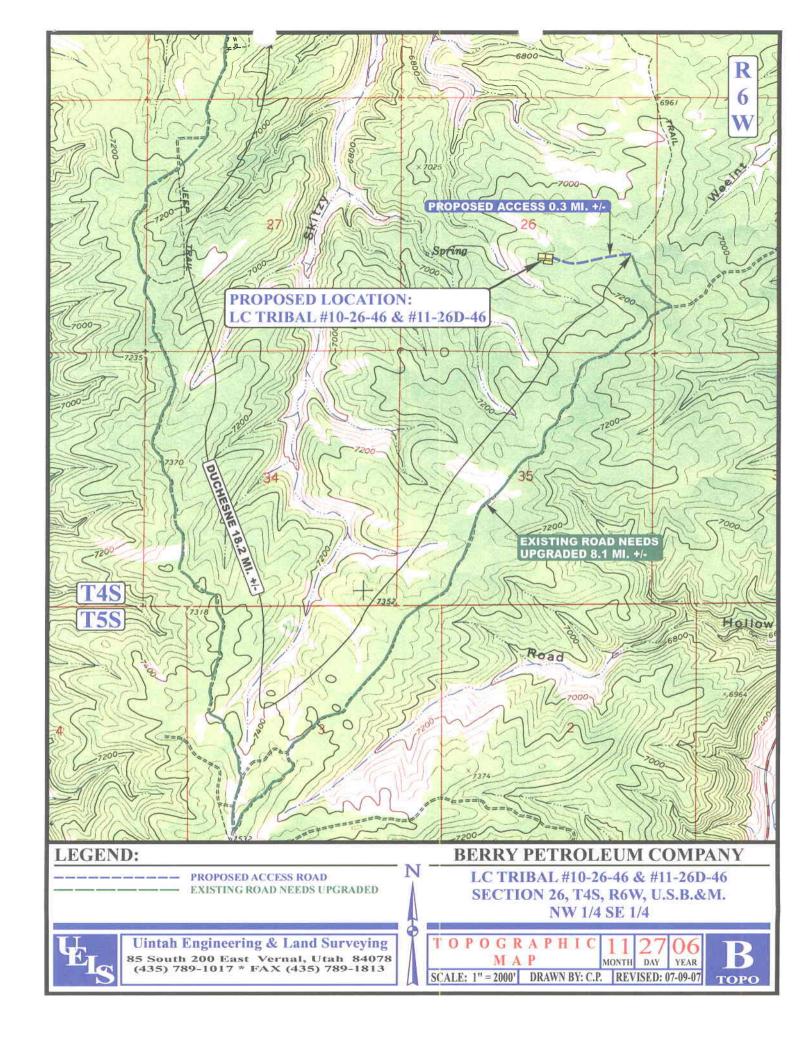


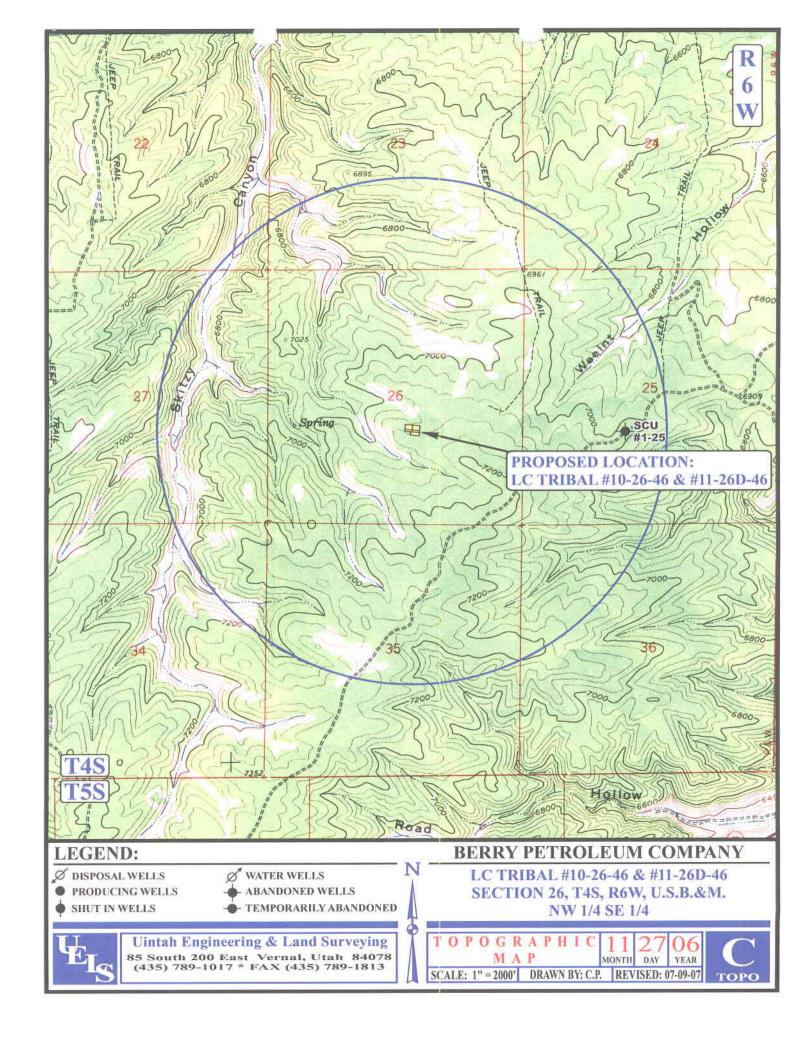


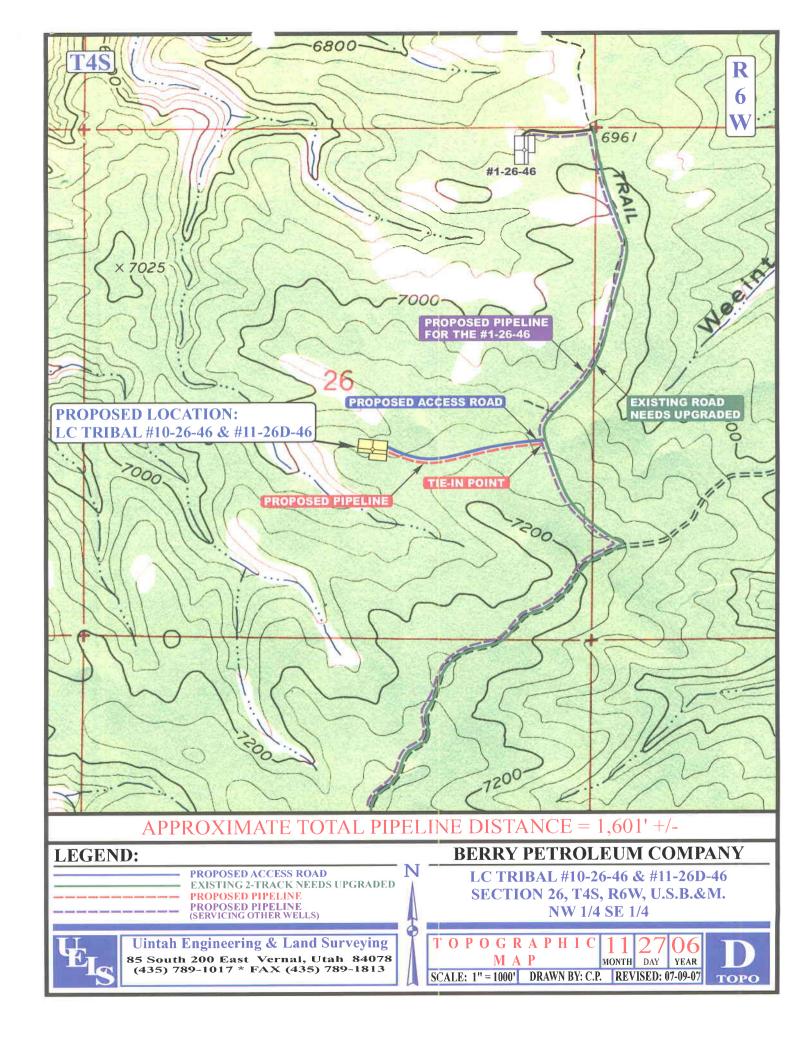


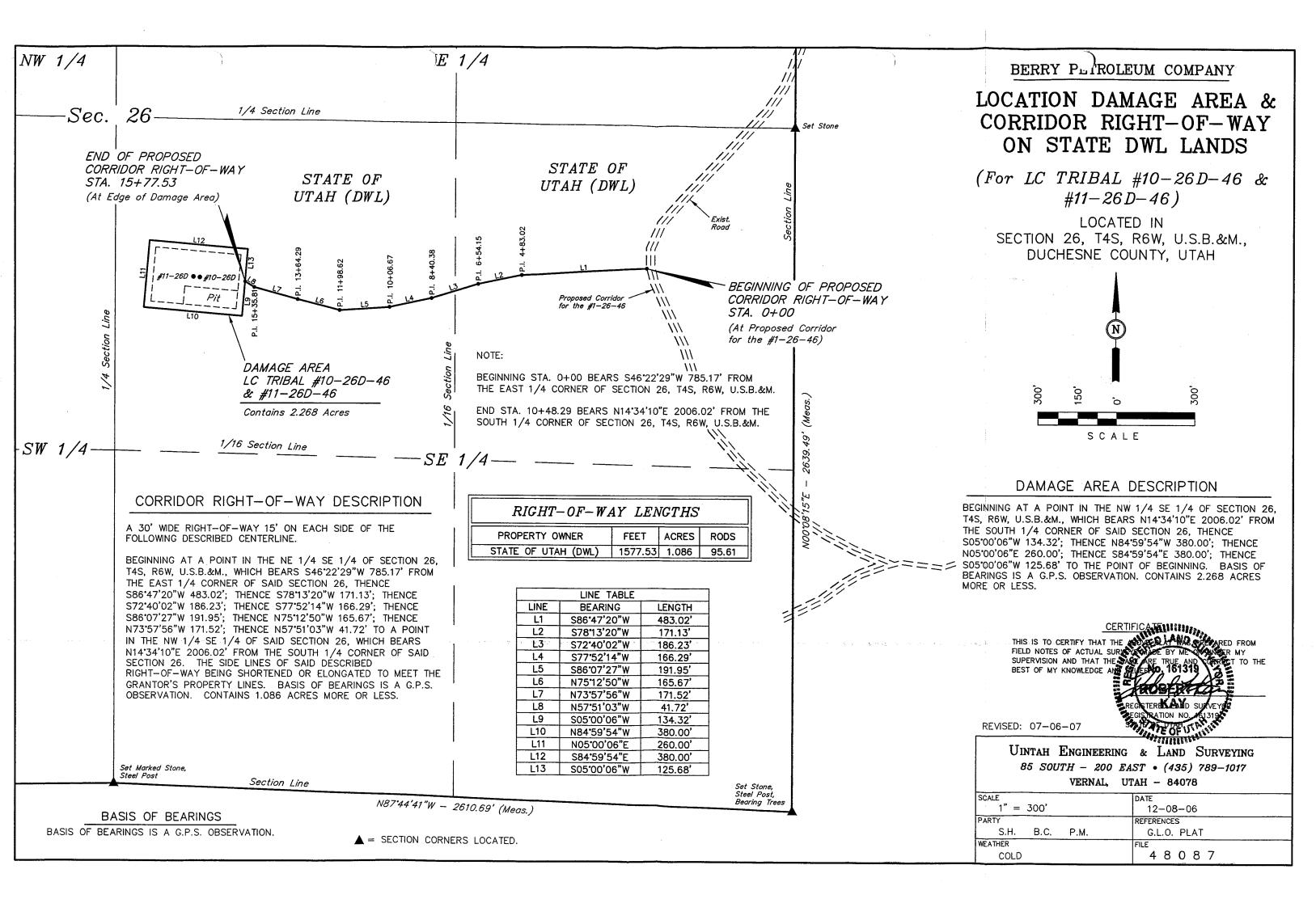


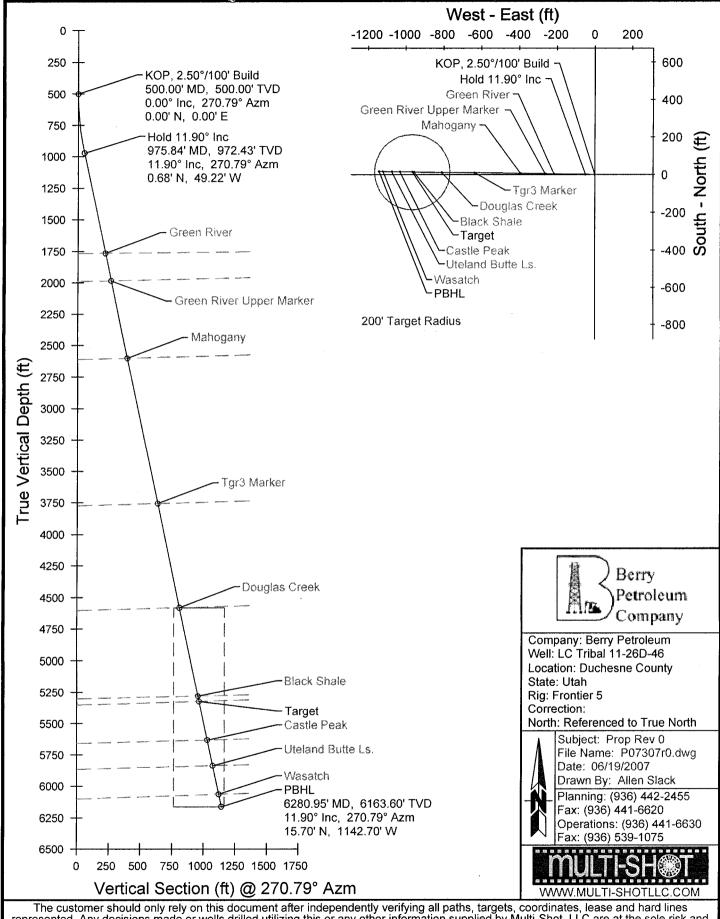












The customer should only rely on this document after independently verifying all paths, targets, coordinates, lease and hard lines represented. Any decisions made or wells drilled utilizing this or any other information supplied by Multi-Shot, LLC are at the sole risk and responsibility of the customer. Multi-Shot, LLC is not responsible for the accuracy of this schematic or the information contained herein.

MULTI-SH®T

Job Number: P07-307

Company: Berry Petroleum

Lease/Well: LC Tribal 11-26D-46

**Location: Duchesne County** 

Rig Name: Frontier 5

RKB: 14'

G.L. or M.S.L.: 7092'

State/Country: Utah

Declination:

**Grid: Referenced to True North** 

File name: F:\WELLPL~1\2007\P07300'S\P07307\07307.SVY

Date/Time: 18-Jun-07 / 17:07

Curve Name: Prop Rev 0

#### WINSERVE SURVEY CALCULATIONS

Minimum Curvature Method Vertical Section Plane 270.79 Vertical Section Referenced to Wellhead Rectangular Coordinates Referenced to Wellhead

Measured Depth FT	Incl Angle Deg	Drift Direction Deg	True Vertical Depth	N-S FT	E-W FT	Vertical Section FT	C L O . Distance FT	S U R E Direction Deg	Dogleg Severity Deg/100	
								· · · · · · · · · · · · · · · · · · ·		
KOP, 2.5	50°/100' Bui	ild								
500.00	.00	270.79	500.00	.00	.00	.00	.00	.00	.00	
600.00	2.50	270.79	599.97	.03	-2.18	2.18	2.18	270.79	2.50	_
700.00	5.00	270.79	699.75	.12	-8.72	8.72	8.72	270.79	2.50	
800.00	7.50	270.79	799.14	.27	-19.61	19.61	19.61	270.79	2.50	
900.00	10.00	270.79	897.97	.48	-34.81	34.82	34.82	270.79	2.50	
11.1.1.44	000 1		10 (10 10 10 10 10 10 10 10 10 10 10 10 10 1			· · · · · · · · · · · · · · · · · · ·				וד
Hold 11.	90° inc									li
975.84	11.90	270.79	972.43	.68	-49.22	49.22	49.22	270.79	2.50	
Green R	iver				•					
1786.61	11.90	270.79	1765.79	2.97	-216.33	216.35	216.35	270.79	.00	
Green R	iver Upper	Marker								$\prod$
2010.74	11.90	270.79	1985.10	3.61	-262.53	262.55	262.55	270.79	.00	
Mahoga	ny									7
2641.90	11.90	270.79	2602.71	5.39	-392.62	392.66	392.66	270.79	.00	
Tgr3 Ma	rker				······································					
3821.49	11.90	270.79	3756.96	8.73	-635.76	635.82	635.82	270.79	.00	
Douglas	Creek		· · · · · · · · · · · · · · · · · · ·							
4664.09	11.90	270.79	4581.47	11.12	-809.43	809.51	809.51	270.79	.00	
Black Sh	nale									Ī
5379.22	11.90	270.79	5281.24	13.15	-956.83	956.92	956.92	270.79	.00	

Measured Depth FT	Incl Angle Deg	Drift Direction Deg	True Vertical Depth	N-S FT	E-W FT	Vertical Section FT	C L O Distance FT	S U R E Direction Deg	Dogleg Severity Deg/100
Target									
5422.92	11.90	270.79	5324.00	13.27	-965.84	965.93	965.93	270.79	.00
Castle Pe	ak								
5738.12	11.90	270.79	5632.43	14.16	-1030.81	1030.91	1030.91	270.79	.00
Uteland B	utte Ls.								
5948.41	11.90	270.79	5838.20	14.76	-1074.15	1074.25	1074.25	270.79	.00
Wasatch									
6179.75	11.90	270.79	6064.57	15.41	-1121.84	1121.94	1121.94	270.79	.00
PBHL	<del>.</del>								
6280.95	11.90	270.79	6163.60	15.70	-1142.70	1142.80	1142.80	270.79	.00

## WORKSHEET APPLICATION FOR PERMIT TO DRILL

APD RECEIVED: 07/26/2007		API NO. ASSIG	GNED: 43-013	3-33741
WELL NAME: LC TRIBAL 11-26D-46  OPERATOR: BERRY PETROLEUM COMPANY ( N2480 )  CONTACT: SHELLEY CROZIER		PHONE NUMBER:	435-722-132	5
PROPOSED LOCATION:		INSPECT LOCATE	1 BY: /	/
NWSE 26 040S 060W SURFACE: 1970 FSL 2308 FEL		Tech Review	Initials	Date
50 BOTTOM: 1986 FSL 1799 FWL		Engineering		
COUNTY: DUCHESNE		Geology		
LATITUDE: 40.10222 LONGITUDE: -110.5286		-	+	<del></del>
UTM SURF EASTINGS: 540183 NORTHINGS: 44389 FIELD NAME: ALTAMONT ( 55		Surface		
RECEIVED AND/OR REVIEWED:		ON AND SITING:		
LEASE TYPE: 2 - Indian LEASE NUMBER: 14-20-H62-5500		PROPOSED FORMA	TION: GRR	
Plat		649-2-3.		
Bond: Fed[] Ind[2] Sta[] Fee[]	Unit:_			<del></del>
(No. RLB0005651 ) Potash (Y/N)	R		cal	
Oil Shale 190-5 (B) or 190-3 or 190-13		iting: 460 From Q	tr/Qtr & 920' B	etween Wells
✓ Water Permit	R	649-3-3. Excep	otion	
(No. $\frac{43-11041}{\text{RDCC Review (Y/N)}}$ )	D	rilling Unit		
(Date:		Board Cause No: Eff Date:		
Fee Surf Agreement (X/N)		Siting:		
Intent to Commingle (Y/N)	<u> </u>	.649-3-11. Dire	ectional Dril	.1
COMMENTS: PRESITE (	06-12	-07)		
STIPULATIONS: 1- deden appro-	na			
	WT OF	F BASIS		

#### **T4S R6W**

#### **ALTAMONT FIELD**

26



OPERATOR: BERRY PETRO CO (N2480)
SEC: 26 T.4S R. 6W

FIELD: ALTAMONT (55)

COUNTY: DUCHESNE

SPACING: R649-3-11 / DIRECTIONAL DRILLING

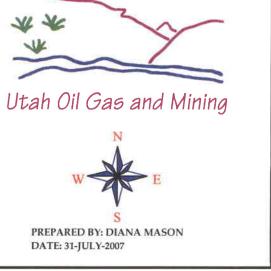
# Field Status ABANDONED ACTIVE COMBINED INACTIVE PROPOSED STORAGE TERMINATED





WATER DISPOSAL

DRILLING



# **Application for Permit to Drill Statement of Basis**

8/6/2007

#### Utah Division of Oil, Gas and Mining

Page 1

APD No

Operator

API WellNo

BERRY PETROLEUM COMPANY

Status

Well Type OW Surf Ownr P CBM No

476

43-013-33741-00-00

Surface Owner-APD

Well Name LC TRIBAL 11-26D-46

Unit

Field ALTAMONT

Type of Work

Location

NWSE 26 4S 6W U 1970 FSL 2308 FEL G

1970 FSL 2308 FEL GPS Coord (UTM) 540183E 4438999N

#### **Geologic Statement of Basis**

The mineral rights for the proposed well are owned by the Ute Tribe. The BLM will be the agency responsible for evaluating and approving the drilling, casing and cement programs.

**Brad Hill** 

8/6/2007

**APD Evaluator** 

Date / Time

#### **Surface Statement of Basis**

The location is proposed in middle Skitzy area between the Right Fork of Indian Canyon and Lake Canyon. The area is approximately 17 road miles southwest of Duchesne, Utah. Access from the Indian Canyon State Highway 91 is following the Skitzy road to a recently improved oil field development road that leads across the Skitzy benches a distance of approximately 8.1 miles. From this point a new road will be constructed for 0.3 miles. The non-highway access is across Ute Tribal, Utah Division of Wildlife Resources and private lands.

General topography in the area is broken pinion-juniper ridges with frequent draws and interspersed bench lands. Much of the bench lands have been chained to reduce the pinion/juniper trees and reseeded to provide forage for wintering deer and elk. Slopes are not excessively steep on top of the benches or ridges, but side slopes are frequently overly steep. All drainages are ephemeral and no seeps, springs or surface water are known to exist in the area.

The proposed LC Tribal 11-26D-46 is planned on a twin pad with the proposed LC Tribal 10-26-46 oil well. The pad is planned on the east slope of a gentle ridge that breaks off steeply into draws to the north and east. The location is partially within a bowl on the side-hill. Approximately ½ of the pad is within an area that was chained about 3 years ago while the east part of the pad is in native pinion and juniper. Diversion ditches are planned on both the west and north sides to intercept possible overland flows following summer storms. Berry plans to drill the well using a closed loop mud circulation system. However if plans change a reserve pit will be constructed and is planned in an acceptable location.

The selected location appears to be the best site for drilling and operating a well in the immediate area.

The Utah Division of Wildlife Resources owns the surface and the minerals are Tribal, administered by the BLM for the Ute Indian Tribe. Daniel Emmett represented the UDWR at the pre-site. Michael Cutler represented the BLM. He had no comments regarding the proposed actions.

To reduce the impact on wintering deer and elk in Lake Canyon the UDWR will require as part of their surface use agreement that no road or pad construction, drilling or use of work-over rigs occur during the critical wintering period of December 1 thru April 15. In addition he requested that if a pump jack is installed on the location that a reduced sound emission muffler be installed on the motor.

Mr. Emmitt gave Mr. Crozier of Berry Petroleum a copy of his wildlife evaluation and a seed mixture to be used to re-vegetate un-used portions of the disturbed area.

# **Application for Permit to Drill Statement of Basis**

Utah Division of Oil, Gas and Mining

Page 2

In addition he said that UDWR is currently working with Berry Petroleum and Barrett Resources for actions that would reduce the impact on these wintering herds. Both companies propose several wells on nearby UDWR properties.

Floyd Bartlett

6/12/2007

Onsite Evaluator

Date / Time

#### Conditions of Approval / Application for Permit to Drill

Category

**Condition** 

Pits

8/6/2007

A synthetic liner with a minimum thickness of 16 mils with a felt subliner shall be

properly installed and maintained in the reserve pit unless a closed loop mud circulation

system is used.

Surface

Drainages adjacent to the proposed pad shall be diverted around the location.

#### ON-SITE PREDRILL EVALUATION

#### Utah Division of Oil, Gas and Mining

Operator

BERRY PETROLEUM COMPANY

Well Name

LC TRIBAL 11-26D-46

**API Number** 

43-013-33741-0

**APD No 476** 4S

Field/Unit ALTAMONT

Location: 1/4,1/4 NWSE

**Sec** 26 Tw Rng 6W

1970 FSL 2308 FEL

**GPS Coord (UTM)** 540183

4439029

**Surface Owner** 

#### **Participants**

Floyd Bartlett (DOGM), Jeff Crozier (Berry Petroleum), Daniel Emmett, (UDWR), Michael Cutler (BLM).

#### Regional/Local Setting & Topography

The location is proposed in middle Skitzy area between the Right Fork of Indian Canyon and Lake Canyon. The area is approximately 17 road miles southwest of Duchesne, Utah. Access from the Indian Canyon State Highway 91 is following the Skitzy road to a recently improved oil field development road that leads across the Skitzy benches a distance of approximately 8.1 miles. From this point a new road will be constructed for 0.3 miles. The non-highway access is across Ute Tribal, Utah Division of Wildlife Resources and private lands.

General topography in the area is broken pinion-juniper ridges with frequent draws and interspersed bench lands. Much of the bench lands have been chained to reduce the pinion/juniper trees and reseeded to provide forage for wintering deer and elk. Slopes are not excessively steep on top of the benches or ridges, but side slopes are frequently overly steep. All drainages are ephemeral and no seeps, springs or surface water are known to exist in the area.

The proposed LC Tribal 11-26D-46 is planned on a twin pad with the proposed LC Tribal 10-26-46 oil well. The pad is planned on the east slope of a gentle ridge that breaks off steeply into draws to the north and east. The location is partially within a bowl on the side-hill. Approximately ½ of the pad is within an area that was chained about 3 years ago while the east part of the pad is in native pinion and juniper. Diversion ditches are planned on both the west and north sides to intercept possible overland flows following summer storms. Berry plans to drill the well using a closed loop mud circulation system. However if plans change a reserve pit will be constructed and is planned in an acceptable location.

The selected location appears to be the best site for drilling and operating a well in the immediate area.

#### Surface Use Plan

#### **Current Surface Use**

Recreational

Wildlfe Habitat

Deer Winter Range

**New Road** 

Miles Well Pad Src Const Material

**Surface Formation** 

Page 1

0.3

Width 220

Length 300

Onsite

UNTA

Ancillary Facilities N

#### Waste Management Plan Adequate? Y

#### **Environmental Parameters**

Affected Floodplains and/or Wetland N

#### Flora / Fauna

The portion of the location that was chained has a good establishing vegetative cover containing numerous plant species. Common plants are orchard grass, wheat grasses, small burnet, re-sprouting mahogany, Indian ricegrass, gilia, flax and numerous sprang annuals. The other half is moderately dense pinnon juniper with little under-story.

Elk, deer, coyotes, rabbits and small mammals, birds and raptors.

#### Soil Type and Characteristics

Shallow shaley sandy loam

Erosion Issues N

Sedimentation Issues N

Site Stability Issues N

#### Drainage Diverson Required Y

Diversion ditches are planned on both the west and north sides to intercept possible overland flows following summer storms.

#### Berm Required? N

Erosion Sedimentation Control Required? N

Paleo Survey Run? N Paleo Potental Observed? N Cultural Survey Run? N Cultural Resources?

#### Reserve Pit

Site-Specific Factors		Site 1	Ranking		
Distance to Groundwater (feet)	>200		0		
Distance to Surface Water (feet)	>1000		0		
Dist. Nearest Municipal Well (ft)	>5280		0		
Distance to Other Wells (feet)	<300		20		
Native Soil Type	Mod permeability		10		
Fluid Type	Fresh Water		5		
<b>Drill Cuttings</b>	Normal Rock		0		
<b>Annual Precipitation (inches)</b>	10 to 20		5		
Affected Populations	<10		0		
Presence Nearby Utility Conduits	Not Present		0		
		Final Score	40	1	Sensitivity Level

#### Characteristics / Requirements

Berry plans to drill the well using a closed loop mud circulation system. However if plans change a reserve pit will be constructed within an area of cut on the southwest corner of the location. Pit size would be 70'x 180' x 10' deep with a 10' wide bench. The pit would be lined with a minimum of a 12mil liner.

Closed Loop Mud Required? N Liner Required? Y Liner Thickness 12 Pit Underlayment Required? Y

#### Other Observations / Comments

Evaluator	Date / Time
Floyd Bartlett	6/12/2007

From:

Bill James

To:

Brad Hill; Diana Mason

Date:

1/14/2008 2:20 PM

Subject:

LC Tribal 10-26-46 has been approved by DWR; 11-26-46 will be on the same well

site and is OKAY

**Attachments:** 

billjames\_businesscard.gif

CC:

Jeffrey C. Crozier

Brad & Diana:

As you may realize, Berry Petroleum has received our authorization for surface use related to LC Tribal 10-26-46. Their proposed well 11-26-46, for which they have made application, would be located on the same well pad. Although the second well was not described in the surface-use agreement, authorizing it is acceptable to us. It involves no added surface acreage, DWR would not have exacted additional fees for the second well under the set of circumstances, and we will not need to seek a U.S. Fish and Wildlife Service grant amendment to authorize the newer well. We will urge you to proceed with your review of 11-26-46 as though it had been described in the DWR surface use plan.

If you have any questions please advise and I'll try to get answers. Thank you,

#### Bill James

Energy Development / NEPA Coordinator Utah Division of Wildlife Resources Salt Lake City, Utah (801) 538-4752 office (801) 230-1778 mobile



# State of Utah DEPARTMENT OF NATURAL RESOURCES

MICHAEL R. STYLER Executive Director

Division of Oil Gas and Mining

JOHN R. BAZA
Division Director

January 14, 2008

Berry Petroleum Company Rt. 2, Box 7735 Roosevelt, UT 84066

Re:

LC Tribal 11-26D-46 Well, Surface Location 1970' FSL, 2308' FEL, NW SE, Sec. 26,

T. 4 South, R. 6 West, Bottom Location 1986' FSL, 1799' FWL, NE SW, Sec. 26,

T. 4 South, R. 6 West, Duchesne County, Utah

#### Gentlemen:

Pursuant to the provisions and requirements of Utah Code Ann.§ 40-6-1 *et seq.*, Utah Administrative Code R649-3-1 *et seq.*, and the attached Conditions of Approval, approval to drill the referenced well is granted.

This approval shall expire one year from the above date unless substantial and continuous operation is underway, or a request for extension is made prior to the expiration date. The API identification number assigned to this well is 43-013-33741.

Sincerely,

Gil Hunt

Associate Director

Mig7/t

pab Enclosures

cc:

**Duchesne County Assessor** 

Bureau of Land Management, Vernal Office



Operator:	Berry P	etroleum Company				
Well Name & Number	LC Trib	LC Tribal 11-26D-46				
API Number:	43-013-	43-013-33741				
Lease:	14-20-F	H62-5500				
Surface Location: NW SE	Sec. 26	T. 4 South	R. 6 West			
Bottom Location: NE SW	Sec. <u>26</u>	T. 4 South	R. 6 West			

#### **Conditions of Approval**

#### 1. General

Compliance with the requirements of Utah Admin. R. 649-1 *et seq.*, the Oil and Gas Conservation General Rules, and the applicable terms and provisions of the approved Application for permit to drill.

#### 2. Notification Requirements

Notify the Division within 24 hours of spudding the well.

Contact Carol Daniels at (801) 538-5284

Notify the Division prior to commencing operations to plug and abandon the well.

• Contact Dustin Doucet at (801) 538-5281 (801) 733-0983 home

#### 3. Reporting Requirements

All required reports, forms and submittals will be promptly filed with the Division, including but not limited to the Entity Action Form (Form 6), Report of Water Encountered During Drilling (Form 7), Weekly Progress Reports for drilling and completion operations, and Sundry Notices and Reports on Wells requesting approval of change of plans or other operational actions.

- 4. State approval of this well does not supersede the required federal approval, which must be obtained prior to drilling.
- 5. In accordance with Utah Admin. R.649-3-11, Directional Drilling, the operator shall submit a complete angular deviation and directional survey report to the Division within 30 days following completion of the well.
- 6. Compliance with the Conditions of Approval/Application for Permit to Drill outlined in the Statement of Basis. (Copy Attached)

Page 2 43-013-33741 January 14, 2008

7. This proposed well is located in an area for which drilling units (well spacing patterns) have not been established through an order of the Board of Oil, Gas and Mining (the "Board"). In order to avoid the possibility of waste or injury to correlative rights, the operator is requested, once the well has been drilled, completed, and has produced, to analyze geological and engineering data generated therefrom, as well as any similar data from surrounding areas if available. As soon as is practicable after completion of its analysis, and if the analysis suggests an area larger than the quarter-quarter section upon which the well is located is being drained, the operator is requested to seek an appropriate order from the Board establishing drilling and spacing units in conformance with such analysis by filing a Request for Agency Action with the Board.

RECEIVED \_\_

Form 3160-3 (April 2004) RECEIVED VERNAL FIELD OFFICE

UNITED STATES 7007 SEP -5

2007 SEP -5 PM 4: 09

FORM APPROVED OMB No. 1004-0137 Expires March 31, 2007

DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENTEPT. OF THE INTERIOR

5. Lease Serial No. 20G-000-5500

APPLICATION FOR PERMIT TO DR	ILE OR REENTER	6. If Indian, Allotee	or Tribe Name	
1a. TYPE OF WORK    √ DRILL    REEI	7. Unit or CA Agree	7. Unit or CA Agreement, Name and No.		
TIS TIFE OF WORK		N/A		
<u> </u>	<u></u>	8. Lease Name and	I Well No. TRIBAL 11-26D-46	
1b. Type of Well: V Oil well Gas well Other	. Type of Well: Voil well Gas well Other V Single zone Multiple zone			
2. Name of Operator BERRY PETROLEUM COMPANY		9. API Well No. 43	013 33741	
3a. Address 4000 SOUTH 4028 WEST	3b. Phone No. (include are code)	10. Field and Pool,	or Exploratory	
RT. 2 BOX 7735, ROOSEVELT, UT. 84066	(435) 722-1325	LA	KE CANYON	
4. Location of Well (Report location clearly and in accordance with any State requirement	nts.*) NAD 27	11. Sec., T. R. M. o	r BLK. and Survey or Area	
At surface (NW/SE) 1970' FSL, 2308' FEL	40.102392 LAT	SEC. 2	26, T.4S., R.6W.	
At proposed prod. zone BHL: 1986' FSL 1799' FWL	110.530000 LONG	1	U.S.B.&M.	
14. Distance in miles and direction from nearest town or post office*		12. County or Parris	sh 13. State	
16.8 MILES FROM DUCHESNE, UTAH		DUCHE		
15. Distance from proposed* location to nearest property of lease line, it. (Also to neaset drig. Unit line, if any)	16. No. of acres in lease 1 80.00	17. Spacing Unit dedicated to this well 40		
18. Distance from proposed*	19. Proposed Depth 2	0. BLM/BIA Bond No. on		
to nearest well, drilling, completed, applied for, on this lease, ft.	6204'	6204' UTB000035 / RLB000		
21. Elevations (Show whether DF, KDB, RT, GR, etc.)	22. Approximate date work will start*	23. Estimated duration		
7090' GR	REFER TO BPC SOP	REFER TO BPC SOP PLAN REFER TO		
. 24	Attachments			
The following, completed in accordance with the requirements of Onshore Oil and Gas C	Order No. 1, shall be attached to this form:			
<ol> <li>Well plat certified by a registered surveyor.</li> <li>A Drilling Plan.</li> <li>A Surface Use Plan (if the location is on National Forest System Lnads, the SUPO shall be filed with the appropriate Forest Service Office).</li> </ol>	<ul><li>4. Bond to cover the operations ur item 20 above.</li><li>5. Operator certification.</li><li>6. Such other site specific informa authorized officer.</li></ul>	•		
25. Signature	Name (Printed/Typed)		Date	
Ouelles Z. Crosser	SHELLEY E. CR	OZIER	07/24/07	
REGULATORY & PERMITTING SPECIALIST				
Approved by (Signatrue)	Name (Printed/Typed)		Date	
My hand	TELLY HENCEKA		3-6-2008	
Title Assistant Field Manager	Office			

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 allicant to

conduct operations thereon.

Conditions of approval, if any, are attached.

<u>CONDITIONS OF APPROVAL ATTACHED</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.

\*(Instructions on page 2)



NOTICE OF APPROVAL

RECEIVED MAR 1 0 2008

DIV. OF OIL, GAS & MINING



#### UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT VERNAL FIELD OFFICE

VERNAL FIELD OFFICE VERNAL, UT 84078

(435) 781-4400



#### CONDITIONS OF APPROVAL FOR APPLICATION FOR PERMIT TO DRILL

Company: Berry Petroleum Company Location: NWSE, Sec 26, T4S, R6W (Surface)

NESW, Sec 26, T4S, R6W (Bottom)

Well No: LC Tribal 11-26D-46 Lease No: 2OG0005500

API No: 43-013-33741 Agreement N/A

170 South 500 East

Title	Name	Office Phone Number	Cell Phone Number
Petroleum Engineer:	Matt Baker	(435) 781-4490	(435) 828-4470
Petroleum Engineer:	Michael Lee	(435) 781-4432	(435) 828-7875
Petroleum Engineer:	James Ashley	(435) 781-4470	(435) 828-7874
Petroleum Engineer:	Ryan Angus	(435) 781-4430	(435) 828-7368
Supervisory Petroleum Technician:	Jamie Sparger	(435) 781-4502	(435) 828-3913
Supervisory NRS:	Karl Wright	(435) 781-4484	(435) 828-7381
NRS/Enviro Scientist:	_	(435) 781- 4475	(435) 828-4029
NRS/Enviro Scientist:	Holly Villa	(435) 781-4404	
NRS/Enviro Scientist:	Chuck MacDonald	(435) 781-4441	(435) 828-7481
NRS/Enviro Scientist:	Jannice Cutler	(435) 781-3400	(435) 828-3544
NRS/Enviro Scientist:	Michael Cutler	(435) 781-3401	(435) 828-3546
NRS/Enviro Scientist:	Anna Figueroa	(435) 781-3407	(435)828-35484
NRS/Enviro Scientist:	Verlyn Pindell	(435) 781-3402	(435) 828-3547
NRS/Enviro Scientist:	Darren Williams	(435) 781-4447	
NRS/Enviro Scientist:	Nathan Packer	(435) 781-3405	(4350 828-3545
		Fax: (435) 781-3420	

### A COPY OF THESE CONDITIONS SHALL BE FURNISHED TO YOUR

FIELD REPRESENTATIVE TO INSURE COMPLIANCE

All lease and/or unit operations are to be conducted in such a manner that full compliance is made with the applicable laws, regulations (43 CFR Part 3160), and this approved Application for Permit to Drill including Surface and Downhole Conditions of Approval. The operator is considered fully responsible for the actions of his subcontractors. A copy of the approved APD must be on location during construction, drilling, and completion operations. This permit is approved for a two (2) year period, or until lease expiration, whichever occurs first. An additional extension, up to two (2) years, may be applied for by sundry notice prior to expiration.

#### NOTIFICATION REQUIREMENTS

Construction Activity	-	The Ute Tribe Energy & Minerals Dept. shall be notified in writing 48 hours in advance of any construction activity. The Ute Tribal office is open Monday through Thursday.
Construction Completion	-	Upon completion of the pertinent APD/ROW construction, notify the Ute Tribe Energy & Minerals Dept. for a Tribal Technician to verify the Affidavit of Completion.
Spud Notice	-	Twenty-Four (24) hours prior to spudding the well.
(Notify Petroleum Engineer)		
Casing String & Cementing	_	Twenty-Four (24) hours prior to running casing and cementing
(Notify Supv. Petroleum Tech.)		all casing strings.
BOP & Related Equipment Tests (Notify Supv. Petroleum Tech.)	-	Twenty-Four (24) hours prior to initiating pressure tests.
First Production Notice	_	Within Five (5) business days after new well begins or
(Notify Petroleum Engineer)		production resumes after well has been off production for more
		than ninety (90) days.

COAs: Page 2 of 7 Well: LC Tribal 11-26D-46

#### SURFACE USE PROGRAM CONDITIONS OF APPROVAL (COAs)

#### SURFACE COAs:

From: State of Utah

Department of Natural Resources Division of Oil, Gas & Mining

Company/Operator:

Berry Petroleum Company

Well Information:

Well Name & No

Location

Lease

L C Tribal 11-26D-46

NWSE sec. 26 T4S R6W

14-20-H62-5500 (EDA)

Surface Ownership:

Utah State (UDWR)

7/25/07

Date State Concurrence Letter Received:

Date APD Received:

1/23/08

#### **CATEGORY**

#### **CONDITION**

Pits

A synthetic liner with a minimum thickness of 16 mils with a felt subliner shall be properly installed and maintained in the reserve pit, unless a closed loop mud circulation

system is used.

Surface

Drainages adjacent to the proposed pad shall be diverted around the location.

For any other additional stipulations, see the State of Utah, Department of Natural Resources, Division of Oil, Gas and Mining approval letter, dated January 14, 2008.

COAs: Page 3 of 7 Well: LC Tribal 11-26D-46

#### DOWNHOLE CONDITIONS OF APPROVAL

#### SITE SPECIFIC DOWNHOLE COAs:

None

All provisions outlined in Onshore Oil & Gas Order #2 Drilling Operations shall be strictly adhered to. The following items are emphasized:

#### DRILLING/COMPLETION/PRODUCING OPERATING STANDARDS

- The spud date and time shall be reported orally to Vernal Field Office within 24 hours of spudding.
- <u>Notify Vernal Field Office Supervisory Petroleum Engineering Technician at least 24 hours in advance</u> of casing cementing operations and BOPE & casing pressure tests.
- Blowout prevention equipment (BOPE) shall remain in use until the well is completed or abandoned. Closing unit controls shall remain unobstructed and readily accessible at all times. Choke manifolds shall be located outside of the rig substructure.
- All BOPE components shall be inspected daily and those inspections shall be recorded in the daily
  drilling report. Components shall be operated and tested as required by Onshore Oil & Gas Order No. 2
  to insure good mechanical working order. All BOPE pressure tests shall be performed by a test pump
  with a chart recorder and NOT by the rig pumps. Test shall be reported in the driller's log.
- BOP drills shall be initially conducted by each drilling crew within 24 hours of drilling out from under the surface casing and weekly thereafter as specified in Onshore Oil & Gas Order No. 2.
- Casing pressure tests are required before drilling out from under all casing strings set and cemented in place.
- No aggressive/fresh hard-banded drill pipe shall be used within casing.
- Cement baskets shall not be run on surface casing.
- The operator must report all shows of water or water-bearing sands to the BLM. If flowing water is encountered it must be sampled, analyzed, and a copy of the analyses submitted to the BLM Vernal Field Office.
- The operator must report encounters of all non oil & gas mineral resources (such as Gilsonite, tar sands, oil shale, trona, etc.) to the Vernal Field Office, in writing, within 5 working days of each encounter. Each report shall include the well name/number, well location, date and depth (from KB or GL) of encounter, vertical footage of the encounter and, the name of the person making the report (along with a telephone number) should the BLM need to obtain additional information.

COAs: Page 4 of 7 Well: LC Tribal 11-26D-46

• A complete set of angular deviation and directional surveys of a directional well will be submitted to the Vernal BLM office engineer within 30 days of the completion of the well.

- While actively drilling, chronologic drilling progress reports shall be filed directly with the BLM, Vernal Field Office on a weekly basis in sundry, letter format or e-mail to the Petroleum Engineers until the well is completed.
- A cement bond log (CBL) will be run from the production casing shoe to the <u>top of cement</u> and shall be utilized to determine the bond quality for the production casing. Submit a field copy of the CBL to this office.
- Please submit an electronic copy of all other logs run on this well in LAS format to UT\_VN\_Welllogs@BLM.gov. This submission will supersede the requirement for submittal of paper logs to the BLM.
- There shall be no deviation from the proposed drilling, completion, and/or workover program as approved. Safe drilling and operating practices must be observed. Any changes in operation must have prior approval from the BLM Vernal Field Office.

COAs: Page 5 of 7 Well: LC Tribal 11-26D-46

#### **OPERATING REQUIREMENT REMINDERS:**

• All wells, whether drilling, producing, suspended, or abandoned, shall be identified in accordance with 43 CFR 3162.6. There shall be a sign or marker with the name of the operator, lease serial number, well number, and surveyed description of the well.

- In accordance with 43 CFR 3162.4-3, this well shall be reported on the "Monthly Report of Operations" (Oil and Gas Operations Report ((OGOR)) starting with the month in which operations commence and continue each month until the well is physically plugged and abandoned. This report shall be filed in duplicate, directly with the Minerals Management Service, P.O. Box 17110, Denver, Colorado 80217-0110, or call 1-800-525-7922 (303) 231-3650 for reporting information.
- Should the well be successfully completed for production, the BLM Vernal Field office must be notified when it is placed in a producing status. Such notification will be by written communication and must be received in this office by not later than the fifth business day following the date on which the well is placed on production. The notification shall provide, as a minimum, the following informational items:
  - Operator name, address, and telephone number.
  - Well name and number.
  - Well location (¼¼, Sec., Twn, Rng, and P.M.).
  - o Date well was placed in a producing status (date of first production for which royalty will be paid).
  - The nature of the well's production, (i.e., crude oil, or crude oil and casing head gas, or natural gas and entrained liquid hydrocarbons).
  - The Federal or Indian lease prefix and number on which the well is located; otherwise the non-Federal or non-Indian land category, i.e., State or private.
  - o Unit agreement and/or participating area name and number, if applicable.
  - o Communitization agreement number, if applicable.
- Any venting or flaring of gas shall be done in accordance with Notice to Lessees (NTL) 4A and needs prior approval from the BLM Vernal Field Office.
- All undesirable events (fires, accidents, blowouts, spills, discharges) as specified in NTL 3A will be reported to the BLM, Vernal Field Office. Major events, as defined in NTL3A, shall be reported verbally within 24 hours, followed by a written report within 15 days. "Other than Major Events" will be reported in writing within 15 days. "Minor Events" will be reported on the Monthly Report of Operations and Production.
- Whether the well is completed as a dry hole or as a producer, "Well Completion and Recompletion Report and Log" (BLM Form 3160-4) shall be submitted not later than 30 days after completion of the

COAs: Page 6 of 7 Well: LC Tribal 11-26D-46

well or after completion of operations being performed, in accordance with 43 CFR 3162.4-1. Two copies of all logs run, core descriptions, and all other surveys or data obtained and compiled during the drilling, workover, and/or completion operations, shall be filed on BLM Form 3160-4. Submit with the well completion report a geologic report including, at a minimum, formation tops, and a summary and conclusions. Also include deviation surveys, sample descriptions, strip logs, core data, drill stem test data, and results of production tests if performed. Samples (cuttings, fluid, and/or gas) shall be submitted only when requested by the BLM, Vernal Field Office.

- All off-lease storage, off-lease measurement, or commingling on-lease or off-lease, shall have prior written approval from the BLM Vernal Field Office.
- Oil and gas meters shall be calibrated in place prior to any deliveries. The BLM Vernal Field Office
  Petroleum Engineers will be provided with a date and time for the initial meter calibration and all future
  meter proving schedules. A copy of the meter calibration reports shall be submitted to the BLM Vernal
  Field Office. All measurement facilities will conform to the API standards for liquid hydrocarbons and
  the AGA standards for natural gas measurement. All measurement points shall be identified as the point
  of sale or allocation for royalty purposes.
- A schematic facilities diagram as required by Onshore Oil & Gas Order No. 3 shall be submitted to the BLM Vernal Field Office within 30 days of installation or first production, whichever occurs first. All site security regulations as specified in Onshore Oil & Gas Order No. 3 shall be adhered to. All product lines entering and leaving hydrocarbon storage tanks will be effectively sealed in accordance with Onshore Oil & Gas Order No. 3.
- Any additional construction, reconstruction, or alterations of facilities, including roads, gathering lines, batteries, etc., which will result in the disturbance of new ground, shall require the filing of a suitable plan and need prior approval of the BLM Vernal Field Office. Emergency approval may be obtained orally, but such approval does not waive the written report requirement.
- No location shall be constructed or moved, no well shall be plugged, and no drilling or workover equipment shall be removed from a well to be placed in a suspended status without prior approval of the BLM Vernal Field Office. If operations are to be suspended for more than 30 days, prior approval of the BLM Vernal Field Office shall be obtained and notification given before resumption of operations.
- Pursuant to Onshore Oil & Gas Order No. 7, this is authorization for pit disposal of water produced from this well for a period of 90 days from the date of initial production. A permanent disposal method must be approved by this office and in operation prior to the end of this 90-day period. In order to meet this deadline, an application for the proposed permanent disposal method shall be submitted along with any necessary water analyses, as soon as possible, but no later than 45 days after the date of first production. Any method of disposal which has not been approved prior to the end of the authorized 90-day period will be considered as an Incident of Noncompliance and will be grounds for issuing a shut-in order until an acceptable manner for disposing of said water is provided and approved by this office.

COAs: Page 7 of 7 Well: LC Tribal 11-26D-46

• Unless the plugging is to take place immediately upon receipt of oral approval the Field Office Petroleum Engineers must be notified at least 24 hours in advance of the plugging of the well in order that a representative may witness plugging operations. If a well is suspended or abandoned, all pits must be fenced immediately until they are backfilled. The "Subsequent Report of Abandonment" (Form BLM 3160-5) must be submitted within 30 days after the actual plugging of the well bore, showing location of plugs, amount of cement in each, amount of casing in hole and the current status of the surface restoration.

## STATE OF UTAH DIVISION OF OIL, GAS, AND MINING

			5. Lease Designation and Serial Number:
	Y NOTICES AND REPORTS		20G-000-5500  6. If Indian, Allottee or Tribe Name:
SUNDR	or at minima, religited of a libe Hallie;		
	to drill new wells, deepen existing wells, or to re-enter plugg ON FOR PERMIT TO DRILL OR DEEPEN form for such prop		7. Unit Agreement Name: N/A
[			8. Well Name and Number:
1. Type of Well: OIL X GAS	OTHER:	- 10-10 10-10 10-10 10 10 10-	LC TRIBAL 11-26D-46
2. Name of Operator:			9. API Well Number:
BERRY PETROLEUM COMPANY 3. Address and Telephone Number:			43-013-33741 10. Field and Pool, or Wildcat:
4000 SOUTH 4028 WEST, RT. 2 BOX	7735 ROOSEVELT, UTAH 84066	(435) 722-1325	LAKE CANYON
4. Location of Well:			
Footages: 1970' FSL, 2308' FEL	BHL: 1986' FSL, 1799 <b>' FW</b> L		County: DUCHESNE,
QQ, Sec., T., R., M.: NW/SE SEC	. 26, T4S, R6W USB&M	•	State: UTAH
11. CHECK APPROPI	RIATE BOXES TO INDICATE NATURE	OF NOTICE, REPORT, OR OTHER DATA	
NOTICE OF IN	YTENT	SUBSEQUENT REPORT	
(Submit in Dup		(Submit Original Form Only	)
· ·			
Abandon	New Construction	Abandon	New Construction
Repair Casing	Pull or Alter Casing	Repair Casing	Pull or Alter Casing
Change of Plans	Recomplete	Change of Plans	Reperforate
Convert to Injection	Reperforate	Convert to Injection	Vent or Flare
Fracture Treat or Acidize	Vent or Flare	Fracture Treat or Acidize	Water Shut-Off
Multiple Completion	Water Shut-Off	Other	
X Other ONE YEAR EXTENSION			
		Date of work completion	
Approximate date work will start		Report results of Multiple Completions and Recompletions	
	OG form.		
·		* Must be accompanied by a cement verification report.	
12. DESCRIBE PROPOSED OR COMPLETED OPERAT	IONS (Clearly state all pertinent details, and give pertinent da	ates. If well is directionally drilled, give subsurface locations and me	asured and true
vertical depths for all markers and zones pertinent to		,	
	. 4.7		
BERRY PETROEUM COMPA	ANY RESPECTFULLY REQUESTS THA	AT THE APPROVED APPLICATION	
TO DRILL FOR THE ABOVE	CUR LECT WELL BE EVIENDED FOR	A DEDICE OF ONE (4) YEAR	
TO DRILL FOR THE ABOVE	SUBJECT WELL BE EXTENDED FOR	A PERIOD OF ONE (1) TEAR.	
	STATE BOND	Approved by the	
		Utah Division of	
		Oil, Gas and Mining	
COPY SENT TO OPER		- ^^ ~ ~	
1.10.01		Date: 01-12-09/11	
Date: 1:13.200			
Initials: K6	·	By:	
nations.	aptions and MARK		
13		7	
Name & Signature: SHELLEY E. Cl	ROZIER SYLLLY HOZILL TILLE:	REGULATORY & PERMITTING SPECIALIST Da	te: <u>1/6/2009</u>
(This space for Federal or State office use)	<u> </u>		

RECEIVED
JAN 08 2009



# Application for Permit to Drill Request for Permit Extension Validation

Validation
(this form should accompany the Sundry Notice requesting permit extension)

API: 43-013-33741  Well Name: LC TRIBAL 11-26D-46  Location: (NW/SE) 1970' FSL, 2308' FEL, SEC. 26-T4S-R6W  Company Permit Issued to: BERRY PETROLEUM COMPANY  Date Original Permit Issued: 1/14/2008				
The undersigned as owner with legal rights to drill on the property as permitted above, hereby verifies that the information as submitted in the previously approved application to drill, remains valid and does not require revision.				
Following is a checklist of some items related to the application, which should be verified.				
If located on private land, has the ownership changed, if so, has the surface agreement been updated? Yes □ No ☑				
Have any wells been drilled in the vicinity of the proposed well which would affect the spacing or siting requirements for this location? Yes□No☑				
Has there been any unit or other agreements put in place that could affect the permitting or operation of this proposed well? Yes□ No ☑				
Have there been any changes to the access route including ownership, or right-of-way, which could affect the proposed location? Yes □ No ☑				
Has the approved source of water for drilling changed? Yes□No☑				
Have there been any physical changes to the surface location or access route which will require a change in plans from what was discussed at the onsite evaluation? Yes□No☑				
Is bonding still in place, which covers this proposed well? Yes ☑ No ☐				
Signature Date				
Title: Regulatory & Permitting Specialist				
Representing: Berry Petroleum Company				
BECEIVE				

JAN 0.8 2009

# STATE OF UTAH

DIVISION OF OIL, GAS AND MINING  5. LEASE DESIGNATION AND SERIAL NUMBER: 2OG-000-5500  SUNDRY NOTICES AND REPORTS ON WELLS  Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.  5. LEASE DESIGNATION AND SERIAL NUMBER: 2OG-000-5500  6. IF INDIAN, ALLOTTEE OR TRIBE NAME: UTE TRIBE (minerals)  7. UNIT or CA AGREEMENT NAME: N/A				
SUNDRY NOTICES AND REPORTS ON WELLS  Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.  UTE TRIBE (minerals)  7. UNIT or CA AGREEMENT NAME: N/A				
Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.				
O MELLANAR ANNARCO				
1. TYPE OF WELL OIL WELL  GAS WELL  OTHER  8. WELL NAME and NUMBER: LC TRIBAL 11-26D-46				
2. NAME OF OPERATOR:  BERRY PETROLEUM COMPANY  9. API NUMBER: 4301333741				
3. ADDRESS OF OPERATOR: 4000 S. 4028 W. CITY Roosevelt STATE UT ZIP 84066 PHONE NUMBER: (435) 722-1325 LAKE CANYON				
4. LOCATION OF WELL  FOOTAGES AT SURFACE: 1970' FSL, 2308' FEL BHL: 1986' FSL, 1799' FWL  COUNTY: DUCHESNE				
QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: NWSE 26 T4S R6W STATE:				
11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA				
TYPE OF SUBMISSION TYPE OF ACTION				
NOTICE OF INTENT  ACIDIZE  DEEPEN  REPERFORATE CURRENT FORMATION				
(Submit in Duplicate)  ALTER CASING  FRACTURE TREAT  SIDETRACK TO REPAIR WELL				
Approximate date work will start: CASING REPAIR NEW CONSTRUCTION TEMPORARILY ABANDON				
CHANGE TO PREVIOUS PLANS OPERATOR CHANGE TUBING REPAIR				
CHANGE TUBING PLUG AND ABANDON VENT OR FLARE				
SUBSEQUENT REPORT CHANGE WELL NAME PLUG BACK WATER DISPOSAL				
(Submit Original Form Only)  CHANGE WELL STATUS  PRODUCTION (START/RESUME)  WATER SHUT-OFF				
Date of work completion:  COMMINGLE PRODUCING FORMATIONS RECLAMATION OF WELL SITE   OTHER: 1 YR. EXTENSION				
CONVERT WELL TYPE RECOMPLETE - DIFFERENT FORMATION				
DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.  BERRY PETROLEUM COMPANY RESPECTFULLY REQUESTS THAT THE APPROVED APPLICATION TO DRILL FOR THE ABOVE SUBJECT WELL BE EXTENDED FOR A PERIOD OF ONE (1) YEAR.  Approved by the  STATE BOND #RLB0005651				
Oil, Gas and Mining RECEIVED				
COPY SENT TO OPERATOR  Date: 12-31-99  DEC 29 2003				
Date: 1.5.2010 Initials: 165 By: DIV. OF OIL, GAS & MINING				
NAME (PLEASE PRINT) SHELLEY E. CROZIER TITLE REGULATORY & PERMITTING SPECIALIST				

(This space for State use only)

10.0 ( 10

# Application for Permit to Drill Request for Permit Extension Validation

Validation
(this form should accompany the Sundry Notice requesting permit extension)

API: 43-013-337	AND DESCRIPTION OF THE PROPERTY OF THE PROPERT			
	AL 11-26D-46 1970' FSL, 2308' FEL, SE(	C. 26-T4S-R6W		
Company Permit Issue	•			
Date Original Permit Is	ssued: 1/14/2008			
above, hereby verifies t	hat the information a	to drill on the property as permitted s submitted in the previously nd does not require revision.		
Following is a checklist verified.	of some items relate	d to the application, which should be		
f located on private lan agreement been update	•	changed, if so, has the surface		
Have any wells been drilled in the vicinity of the proposed well which would affect he spacing or siting requirements for this location? Yes ☐ No ☑				
Has there been any unit or other agreements put in place that could affect the permitting or operation of this proposed well? Yes□ No ☑				
Have there been any changes to the access route including ownership, or right- of-way, which could affect the proposed location? Yes ☐ No ☑				
Has the approved sourc	ce of water for drilling	rchanged? Yes□No☑		
	nge in plans from wh	e surface location or access route at was discussed at the onsite		
s bonding still in place,	which covers this pro	oposed well? Yes⊠No□		
Shallow & Ar		12/28/2009		
<u> </u>	wzer	Date		
Fitle: Regulatory & Permi	tting Specialist			
Representing: Berry Per	troleum Company	RECEIVE	D	
		DEC 29 20		

DIV. OF OIL, GAS & MINING

Form 3160-5 (August 2007)

# UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT

FC	ORM A	PPRC	VEI
O	MB No.	1004	-013
Ex	nires: J	ulv 31	201

	Expires: July	31, 201
ease Serial No.		

				20G-000-5500	•			
SUNDRY NOTICES AND REPORTS ON WELLS			6. If Indian, Allottee or Tribe Name					
Do not use this form for proposals to drill or to re-enter an abandoned well. Use Form 3160-3 (APD) for such proposals.					UTE			
SUBMI	T IN TRIPLICATE - Other	instructions or	page 2.		7. If Unit of CA/Agreeme	ent, Name a	nd/or No.	
1. Type of Well					N/A			
Oil Well Gas W	Vell Other				8. Well Name and No. LC TRIBAL 11-26D-46	;		
2. Name of Operator BERRY PETROLEUM COMPANY					9. API Well No. 4301333741			
3a. Address 4000 SOUTH 4028 WEST, RT. 2, BOX 7735 ROOSEVELT, UTAH 84066		3b. Phone No. (435) 722-132	(include area code 25	e)	10. Field and Pool or Exploratory Area  LAKE CANYON			
4. Location of Well (Footage, Sec., T.,	R., M., or Survey Description	)			11. Country or Parish, State			
1970' FSL 2308' FEL NW/SE SEC. 26-T45	S-R6W				DUCHESNE COUNTY	′, UTAH 		·
12. CHEC	CK THE APPROPRIATE BO	OX(ES) TO IND	ICATE NATURE	OF NOTIO	CE, REPORT OR OTHER	. DATA		
TYPE OF SUBMISSION			TYP	E OF ACT	ION		,	
✓ Notice of Intent	Acidize	Deepe	en	Prod	uction (Start/Resume)	Water	Shut-Off	
Thomas of missis	Alter Casing	Fracti	ure Treat	Recla	amation		ntegrity	
Subsequent Report	Casing Repair	☐ New	Construction	Reco	mplete	Other 2 YR EXTENSION		
Subsequent report	Change Plans	Plug a	and Abandon	Temp	Temporarily Abandon			
Final Abandonment Notice	Convert to Injection	Plug l	Back	☐ Wate	r Disposal			
Describe Proposed or Completed Of the proposal is to deepen directions. Attach the Bond under which the violeting completion of the involvitesting has been completed. Final determined that the site is ready for the proposed	ally or recomplete horizontal work will be performed or pred operations. If the operation Abandonment Notices must refinal inspection.)	ly, give subsurfa ovide the Bond ? on results in a m be filed only afta	ace locations and n No. on file with BI sultiple completion or all requirements	neasured ar LM/BIA. R I or recomp , including	nd true vertical depths of a dequired subsequent repor letion in a new interval, a reclamation, have been co	all pertinent ts must be f Form 3160 omp Bist an OF STATE	markers at filed within 4 miss be d the open	nd zones. 1 30 days e filed once
14. I hereby certify that the foregoing is to	CONDITIC		FAPPF	ROVA	AL ATTAC	HEL		MB (Carlotter)
VATUV V EIEI DOTED			THE SP DEG	III ATODS	AND DEDMITTING TO	ECH		

14. I hereby certify that the foregoing is true and correct. Name (Printed/Typed)	
KATHY K. FIELDSTED	Title SR. REGULATORY AND PERMITTING TECH.
Signature LAM L. Franklin	Date 03/04/2010
THIS SPACE FOR FEDI	ERAL OR STATE OFFICE USE
Approved by Casey J. Jone	Retroleum Engineer Date MAR 1 9 2010
Conditions of approval, if any, are attached Approval of this notice does not warrant or that the applicant holds legal or equitable title to those rights in the subject lease which wentitle the applicant to conduct operations thereon.	vould 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,

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 fals fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

(Instructions on page 2)

APR 0 6 2010

## **CONDITIONS OF APPROVAL**

## **Berry Petroleum Company**

### **Notice of Intent APD Extension**

Lease:

20G-000-5500

Well:

LC Tribal 11-26D-46

Location:

NWSE Sec 26-T4S-R6W

An extension for the referenced APD is granted with the following conditions:

1. The extension and APD shall expire on March 5<sup>th</sup>, 2012.

2. No other extension shall be granted.

If you have any other questions concerning this matter, please contact Carey Doyle of this office at (435) 781-3406





MICHAEL R. STYLER Executive Director

Division of Oil, Gas and Mining

JOHN R. BAZA Division Director

January 27, 2011

Kathy Fieldsted Berry Petroleum Company Rt. 2, Box 7735 Roosevelt, UT 84066

Re:

APD Rescinded – LC Tribal 11-26D-46, Sec. 26, T. 4S, R. 6W

Duchesne County, Utah API No. 43-013-33741

Dear Ms. Fieldsted:

The Application for Permit to Drill (APD) for the subject well was approved by the Division of Oil, Gas and Mining (Division) on January 14, 2008. On January 12, 2009 and December 31, 2009 the Division granted a one-year APD extension. On January 26, 2011, you requested that the division rescind the state approved APD. No drilling activity at this location has been reported to the division. Therefore, approval to drill the well is hereby rescinded, effective January 26, 2011.

A new APD must be filed with this office for approval prior to the commencement of any future work on the subject location.

If any previously unreported operations have been performed on this well location, it is imperative that you notify the Division immediately.

Sincerely,

Diana Mason

**Environmental Scientist** 

and Mason

cc:

Well File

Bureau of Land Management, Vernal

