

001

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

FORM 3

AMENDED REPORT   
(highlight changes)

APPLICATION FOR PERMIT TO DRILL

1A. TYPE OF WORK: DRILL <input checked="" type="checkbox"/> REENTER <input type="checkbox"/> DEEPEN <input type="checkbox"/>		5. MINERAL LEASE NO: FEE	6. SURFACE: Fee
B. TYPE OF WELL: OIL <input type="checkbox"/> GAS <input checked="" type="checkbox"/> OTHER _____ SINGLE ZONE <input checked="" type="checkbox"/> MULTIPLE ZONE <input type="checkbox"/>		7. IF INDIAN, ALLOTTEE OR TRIBE NAME:	
2. NAME OF OPERATOR: Wolverine Gas and Oil Corporation Co. Wt. (N1655)		8. UNIT or CA AGREEMENT NAME: Wolverine Fed. Exploration Unit	
3. ADDRESS OF OPERATOR: One Riverfront Plaza CITY Grand Rapids STATE MI ZIP 49503		PHONE NUMBER: (616) 458-1150	9. WELL NAME and NUMBER: Kings Meadow Ranches 17-1
4. LOCATION OF WELL (FOOTAGES) AT SURFACE: 2000' FWL & 2040' FNL AT PROPOSED PRODUCING ZONE:		10. FIELD AND POOL, OR WILDCAT: Wildcat	
4295303Y 38.80463 418874X -111.93428		11. QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: SEOW 17 23S 1W S N	
14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE: 5.4 Miles south of Sigerd		12. COUNTY: Sevier	13. STATE: UTAH
15. DISTANCE TO NEAREST PROPERTY OR LEASE LINE (FEET) 2000'	16. NUMBER OF ACRES IN LEASE: 510	17. NUMBER OF ACRES ASSIGNED TO THIS WELL: 40	
18. DISTANCE TO NEAREST WELL (DRILLING, COMPLETED, OR APPLIED FOR) ON THIS LEASE (FEET) N/A	19. PROPOSED DEPTH: 9,720	20. BOND DESCRIPTION: Individual Well - 19-10755-6	
21. ELEVATIONS (SHOW WHETHER DF, RT, GR, ETC.): 5723' GR	22. APPROXIMATE DATE WORK WILL START: 11/1/2003	23. ESTIMATED DURATION: 30 Days	

PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	CASING SIZE, GRADE, AND WEIGHT PER FOOT	SETTING DEPTH	CEMENT TYPE, QUANTITY, YIELD, AND SLURRY WEIGHT		
17 1/2"	13-3/8" K-55 54.5#	700	Class "H"	830 sks	1.18 cuft/sk 15.6 #/gal
12 1/4"	9-5/8" S-95 53.5#	7,480	Class "H"	400 sks	1.18 cuft/sk 15.6 #/gal
7-7/8"	5 1/2" L-80 17#	9,720	50-50 pcz	425sks	1.26 cuft/sk 14.2 #/gal

ATTACHMENTS:

VERIFY THE FOLLOWING ARE ATTACHED IN ACCORDANCE WITH THE UTAH OIL AND GAS CONSERVATION GENERAL RULES:

- WELL PLAT OR MAP PREPARED BY LICENSED SURVEYOR OR ENGINEER
- EVIDENCE OF DIVISION OF WATER RIGHTS APPROVAL FOR USE OF WATER

- COMPLETE DRILLING PLAN
- FORM 5, IF OPERATOR IS PERSON OR COMPANY OTHER THAN THE LEASE OWNER

NAME (PLEASE PRINT) Vince Guinn TITLE Consulting Engineer  
 SIGNATURE Vince Guinn DATE 9/2/2003  
*\*Timothy J. Brock, PE 10/6/03*

(This space for State use only)

API NUMBER ASSIGNED: 43-041-30030

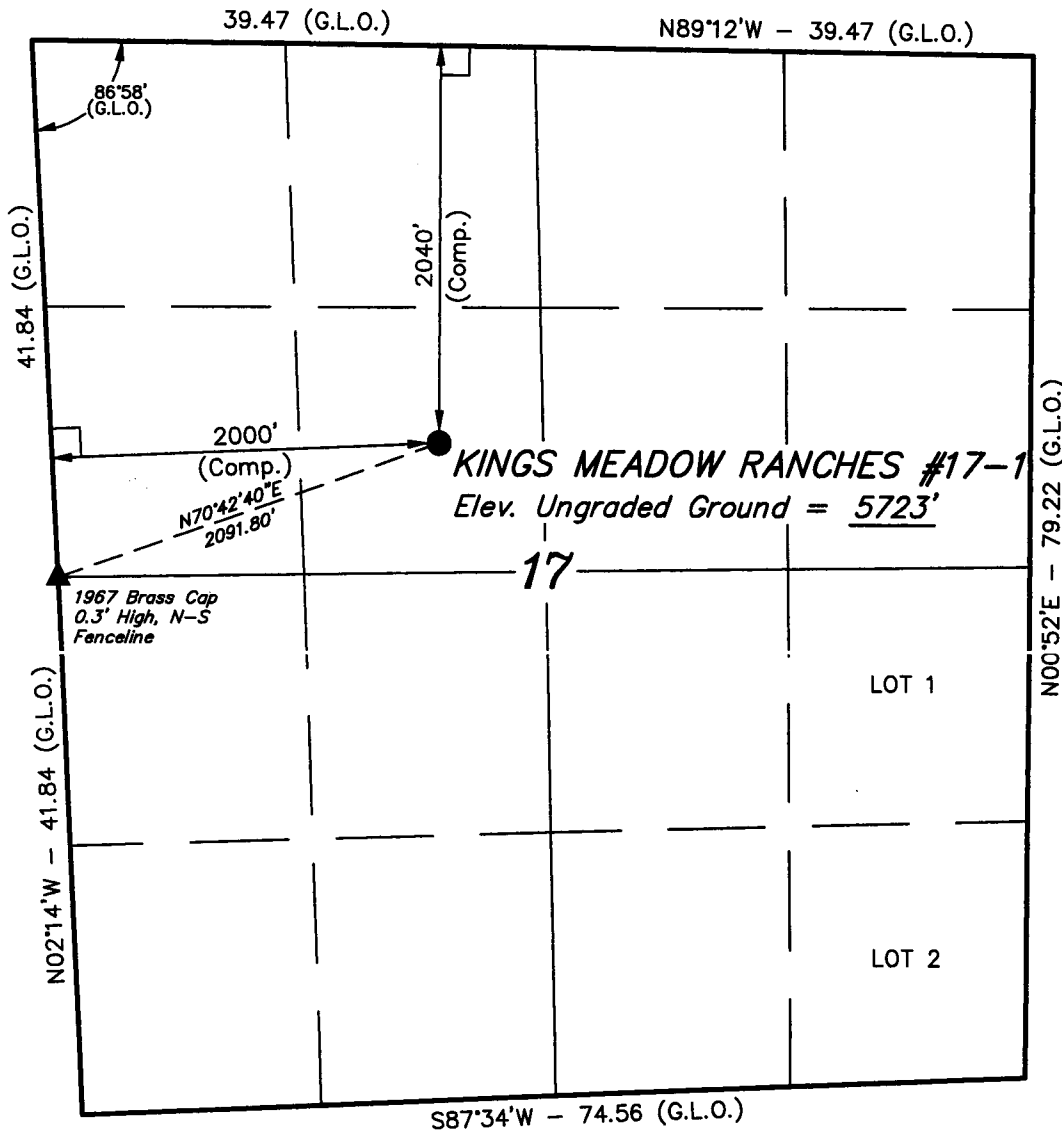
Approved by the  
Utah Division of  
Oil, Gas and Mining  
APPROVAL:  
Date: 0-23-03  
(See instructions on reverse side)

RECEIVED  
SEP 6 3 2003  
DIV. OF OIL, GAS & MINING

# T23S, R1W, S.L.B.&M.

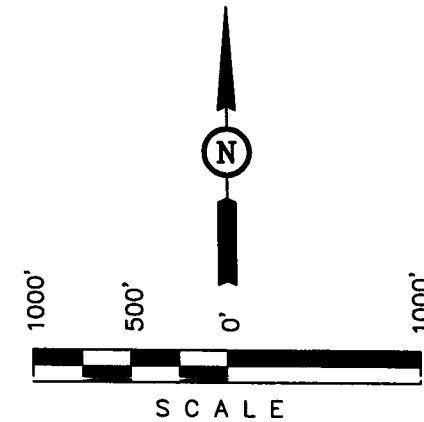
## WOLVERINE GAS & OIL CORP.

Well location, KINGS MEADOW RANCHES #17-1, located as shown in the SE 1/4 NW 1/4 of Section 17, T23S, R1W, S.L.B.&M., Sevier County, Utah.



### BASIS OF ELEVATION

SPOT ELEVATION LOCATED NEAR A ROAD IN THE SW 1/4 OF SECTION 17, T23S, R1W, S.L.B.&M., TAKEN FROM THE SIGURD QUADRANGLE, UTAH, SEVIER COUNTY, 7.5 MINUTE SERIES (TOPOGRAPHICAL MAP) PUBLISHED BY THE UNITED STATES DEPARTMENT OF THE INTERIOR, GEOLOGICAL SURVEY. SAID ELEVATION IS MARKED AS BEING 5774 FEET.



### CERTIFICATE

THIS IS TO CERTIFY THAT THE ABOVE PLAT WAS PREPARED FROM FIELD NOTES OF ACTUAL SURVEYS MADE BY ME OR UNDER MY SUPERVISION AND THAT THE SAME ARE TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.

*Robert J. ...*  
 REGISTERED LAND SURVEYOR  
 REGISTRATION NO. 161312  
 STATE OF UTAH

### LEGEND:

- = 90° SYMBOL
- = PROPOSED WELL HEAD.
- = SECTION CORNERS LOCATED.

### BASIS OF BEARINGS

BASIS OF BEARINGS IS A G.P.S. OBSERVATION.  
 (AUTONOMOUS NAD 83)  
 LATITUDE = 38°48'16.13" (38.804481)  
 LONGITUDE = 111°56'05.35" (111.934819)

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

SCALE 1" = 1000'	DATE SURVEYED: 08-21-03	DATE DRAWN: 08-28-03
PARTY B.B. J.W. D.R.B.	REFERENCES G.L.O. PLAT	
WEATHER WARM	FILE WOLVERINE GAS & OIL CORP.	

**STATE OF UTAH**  
DEPARTMENT OF NATURAL RESOURCES  
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B. TYPE OF WELL: OIL <input type="checkbox"/> GAS <input checked="" type="checkbox"/> OTHER _____ SINGLE ZONE <input checked="" type="checkbox"/> MULTIPLE ZONE <input type="checkbox"/>				8. UNIT or CA AGREEMENT NAME: <b>Wolverine Fed. Exploration Unit</b>	
2. NAME OF OPERATOR: <b>Wolverine Gas and Oil Corporation</b>				9. WELL NAME and NUMBER: <b>Kings Meadow Ranches 17-1</b>	
3. ADDRESS OF OPERATOR: <b>One Riverfront Plaza</b> CITY <b>Grand Rapids</b> STATE <b>MI</b> ZIP <b>49503</b>			PHONE NUMBER: <b>(616) 458-1150</b>	10. FIELD AND POOL, OR WILDCAT: <b>Wildcat</b>	
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14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE: <b>5.4 Miles south of Sigerd</b>				12. COUNTY: <b>Sevier</b>	13. STATE: <b>UTAH</b>
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**24. PROPOSED CASING AND CEMENTING PROGRAM**

SIZE OF HOLE	CASING SIZE, GRADE, AND WEIGHT PER FOOT			SETTING DEPTH	CEMENT TYPE, QUANTITY, YIELD, AND SLURRY WEIGHT			
17½"	13-3/8"	K-55	54.5#	700	Class "H"	830 sks	1.18 cuft/sk	15.6 #/gal
12¼"	9-5/8"	S-95	53.5#	7,480	Class "H"	400 sks	1.18 cuft/sk	15.6 #/gal
7-7/8"	5½"	L-80	17#	9,720	50-50 poz:	425sks	1.26 cuft/sk	14.2 #/gal

**25. ATTACHMENTS**

VERIFY THE FOLLOWING ARE ATTACHED IN ACCORDANCE WITH THE UTAH OIL AND GAS CONSERVATION GENERAL RULES:

- |  |  |
|--|--|
| <input checked="" type="checkbox"/> WELL PLAN OR MAP PREPARED BY LICENSED SURVEYOR OR ENGINEER     | <input checked="" type="checkbox"/> COMPLETE DRILLING PLAN                                   |
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NAME (PLEASE PRINT) <u>Vince Guinn</u>	TITLE <u>Consulting Engineer</u>
SIGNATURE <u>Vince Guinn</u>	DATE <u>9/2/2003</u>

(This space for State use only)

API NUMBER ASSIGNED: 43-041-30030

APPROVAL:

**RECEIVED**  
**SEP 03 2003**

DIV. OF OIL, GAS & MINING

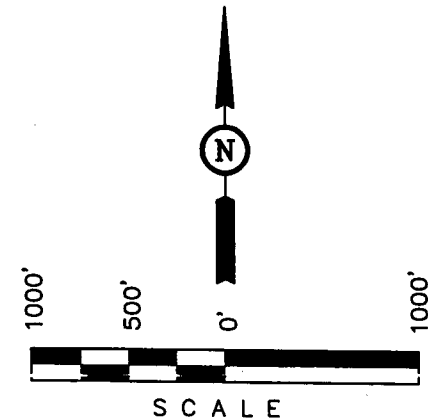
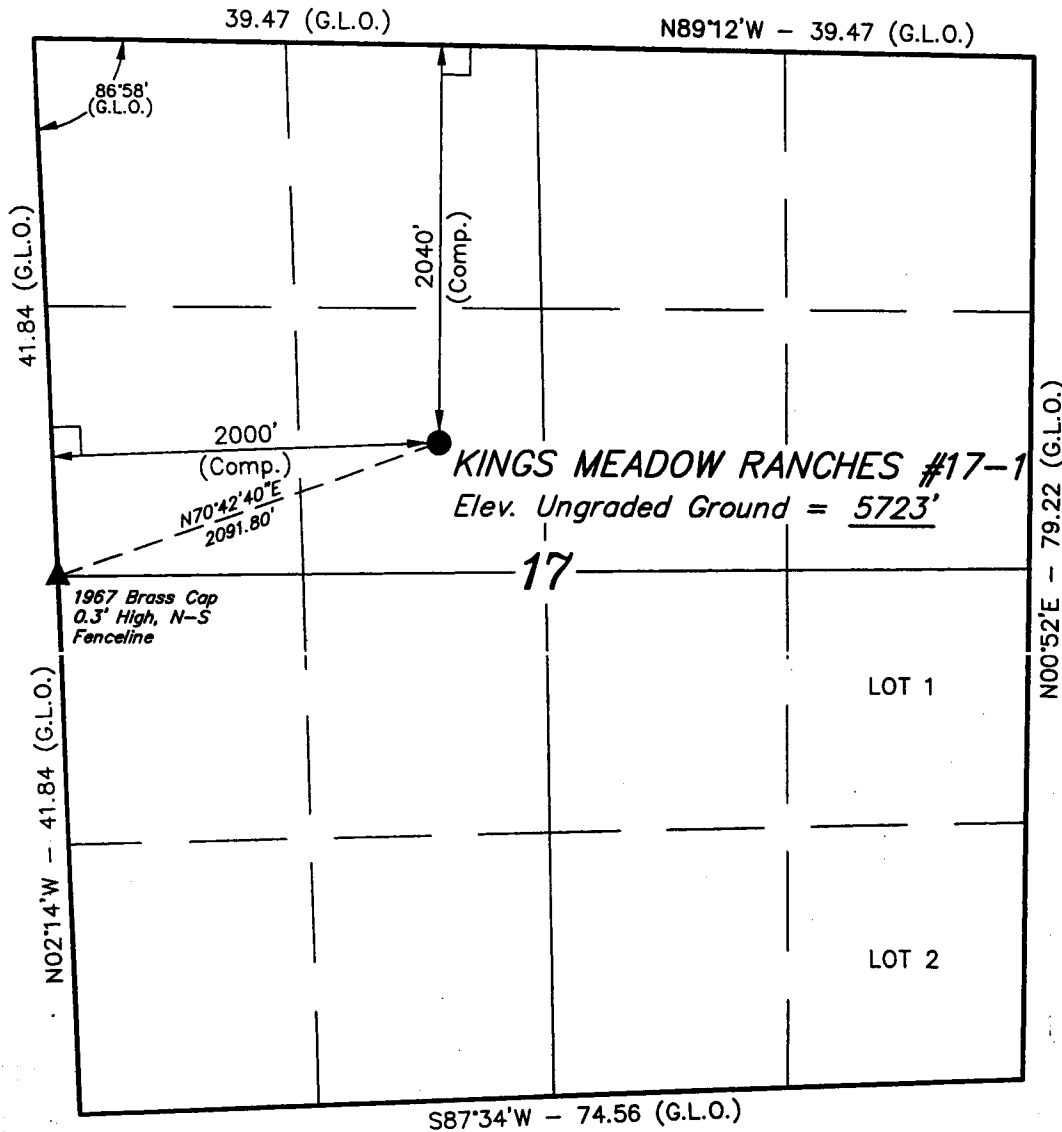
# T23S, R1W, S.L.B.&M.

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ROBERT L. [Signature]  
REGISTERED LAND SURVEYOR  
REGISTRATION NO. 0161319  
STATE OF UTAH

### LEGEND:

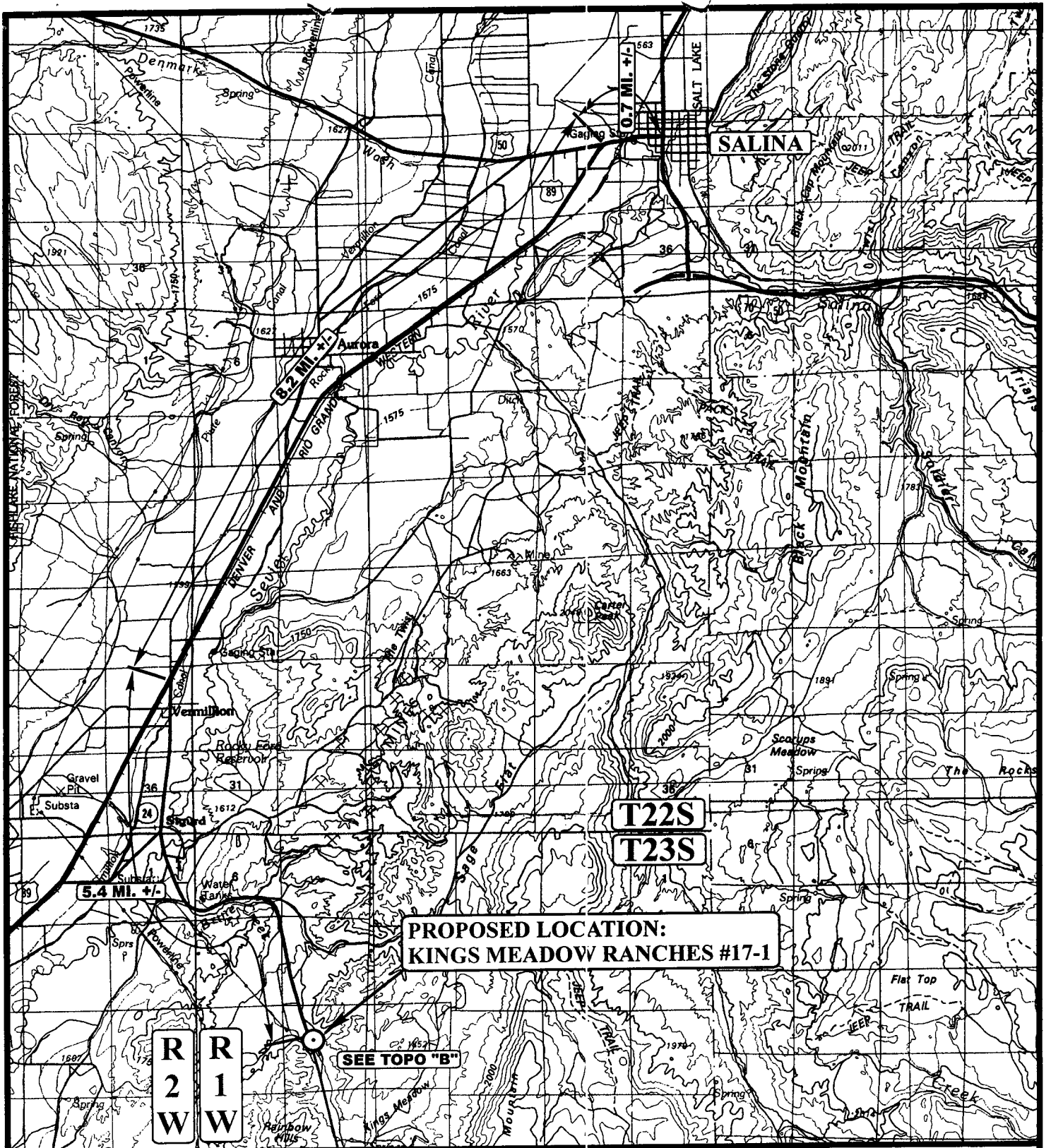
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PARTY B.B. J.W. D.R.B.	REFERENCES G.L.O. PLAT	
WEATHER WARM	FILE WOLVERINE GAS & OIL CORP.	



**PROPOSED LOCATION:  
KINGS MEADOW RANCHES #17-1**

**R  
2  
W**

**R  
1  
W**

**SEE TOPO "B"**

**LEGEND:**

○ PROPOSED LOCATION



**WOLVERINE GAS & OIL CORP.**

**KINGS MEADOW RANCHES #17-1  
SECTION 17, T23S, R1W, S.L.B.&M.  
2040' FNL 2000' FWL**



**Uintah Engineering & Land Surveying**  
85 South 200 East Vernal, Utah 84078  
(435) 789-1017 \* FAX (435) 789-1813

**TOPOGRAPHIC  
MAP**

**08 29 03**  
MONTH DAY YEAR

SCALE: 1:100,000

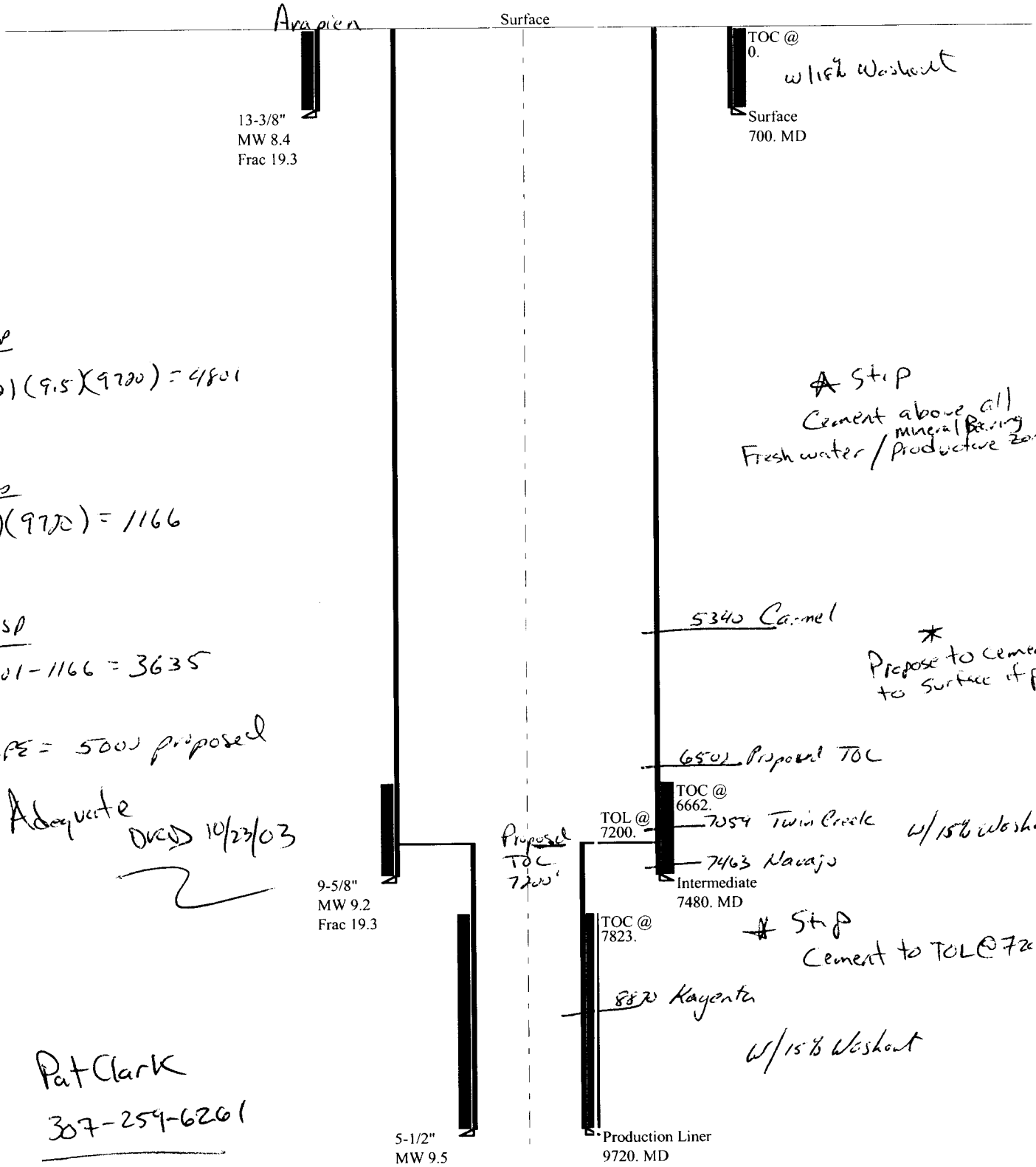
DRAWN BY: P.M.

REVISED: 00-00-00



# 1 03 Woverine Kings Meadow anch 17-1

## Casing Schematic



ASHP

$$(0.52)(9.5)(9720) = 4801$$

Gas

$$(0.12)(9720) = 1166$$

MASD

$$4801 - 1166 = 3635$$

BOPE = 5000 proposed

Adequate

Dec 10/23/03

Pat Clark

307-259-6261

\* Strip  
Cement above all  
mineral bearing  
Fresh water / Productive zones

\*  
Propose to cement  
to surface of productive

\* Strip  
Cement to TOC @ 7200'

w/15% Washout

Well name:	<b>10-03 Woverine Kings Meadow Ranch 17-1</b>	
Operator:	<b>Woverine G&amp;O Corp.</b>	Project ID:
String type:	Surface	43-041-30030
Location:	Sevier	

**Design parameters:**

**Collapse**  
Mud weight: 8.400 ppg  
Design is based on evacuated pipe.

**Minimum design factors:**

**Collapse:**  
Design factor 1.125

**Burst:**  
Design factor 1.00

**Environment:**

H2S considered? No  
Surface temperature: 65 °F  
Bottom hole temperature: 75 °F  
Temperature gradient: 1.40 °F/100ft  
Minimum section length: 250 ft  
Cement top: 0 ft

**Burst**

Max anticipated surface pressure: 616 psi  
Internal gradient: 0.120 psi/ft  
Calculated BHP 700 psi

No backup mud specified.

**Tension:**  
8 Round STC: 1.80 (J)  
8 Round LTC: 1.80 (J)  
Buttress: 1.60 (J)  
Premium: 1.50 (J)  
Body yield: 1.50 (B)

Tension is based on buoyed weight.  
Neutral point: 613 ft

Non-directional string.

**Re subsequent strings:**

Next setting depth: 7,480 ft  
Next mud weight: 9.200 ppg  
Next setting BHP: 3,575 psi  
Fracture mud wt: 19.250 ppg  
Fracture depth: 700 ft  
Injection pressure 700 psi

Run Seq	Segment Length (ft)	Size (in)	Nominal Weight (lbs/ft)	Grade	End Finish	True Vert Depth (ft)	Measured Depth (ft)	Drift Diameter (in)	Internal Capacity (ft³)
1	700	13.375	54.50	K-55	ST&C	700	700	12.49	75.4

Run Seq	Collapse Load (psi)	Collapse Strength (psi)	Collapse Design Factor	Burst Load (psi)	Burst Strength (psi)	Burst Design Factor	Tension Load (Kips)	Tension Strength (Kips)	Tension Design Factor
1	305	1130	3.700	700	2730	3.90	33	547	16.37 J

Prepared by: Clinton Dworshak  
Utah Div. of Oil & Mining

Phone: 801-538-5280  
FAX: 810-359-3940

Date: October 23, 2003  
Salt Lake City, Utah

Remarks:  
Collapse is based on a vertical depth of 700 ft, a mud weight of 8.4 ppg. The casing is considered to be evacuated for collapse purposes. Collapse strength is based on the Westcott, Dunlop & Kemler method of biaxial correction for tension.

Burst strength is not adjusted for tension.

*Engineering responsibility for use of this design will be that of the purchaser.*

Well name: **10-03 Woverine Kings Meadow Ranch 17-1**

Operator: **Woverine G&O Corp.**

String type: **Intermediate**

Project ID:  
43-041-30030

Location: **Sevier**

**Design parameters:**

**Collapse**

Mud weight: 9.200 ppg  
Design is based on evacuated pipe.

**Minimum design factors:**

**Collapse:**

Design factor 1.125

**Burst:**

Design factor 1.00

**Environment:**

H2S considered? No  
Surface temperature: 65 °F  
Bottom hole temperature: 170 °F  
Temperature gradient: 1.40 °F/100ft  
Minimum section length: 700 ft

Cement top: 6,662 ft

**Burst**

Max anticipated surface pressure: 3,630 psi  
Internal gradient: 0.120 psi/ft  
Calculated BHP 4,528 psi

No backup mud specified.

**Tension:**

8 Round STC: 1.80 (J)  
8 Round LTC: 1.80 (J)  
Buttress: 1.60 (J)  
Premium: 1.50 (J)  
Body yield: 1.50 (B)

Tension is based on buoyed weight.  
Neutral point: 6,441 ft

Non-directional string.

**Re subsequent strings:**

Next setting depth: 9,720 ft  
Next mud weight: 9.500 ppg  
Next setting BHP: 4,797 psi  
Fracture mud wt: 19.250 ppg  
Fracture depth: 7,480 ft  
Injection pressure 7,480 psi

Run Seq	Segment Length (ft)	Size (in)	Nominal Weight (lbs/ft)	Grade	End Finish	True Vert Depth (ft)	Measured Depth (ft)	Drift Diameter (in)	Internal Capacity (ft³)
1	7480 ✓	9.625 ✓	53.50 ✓	S-95 ✓	LT&C ✓	7480	7480	8.5	807.6
Run Seq	Collapse Load (psi)	Collapse Strength (psi)	Collapse Design Factor	Burst Load (psi)	Burst Strength (psi)	Burst Design Factor	Tension Load (Kips)	Tension Strength (Kips)	Tension Design Factor
1	3575	8850	2.476 ✓	4528	9410	2.08 ✓	345	1235	3.58 J ✓

Prepared by: Clinton Dworshak  
Utah Div. of Oil & Mining

Phone: 801-538-5280  
FAX: 810-359-3940

Date: October 23, 2003  
Salt Lake City, Utah

Remarks:

Collapse is based on a vertical depth of 7480 ft, a mud weight of 9.2 ppg. The casing is considered to be evacuated for collapse purposes. Collapse strength is based on the Westcott, Dunlop & Kemler method of biaxial correction for tension.

Burst strength is not adjusted for tension.

Engineering responsibility for use of this design will be that of the purchaser.



Well name:	<b>10-03 Woverine Kings Meadow Ranch 17-1</b>	
Operator:	<b>Woverine G&amp;O Corp.</b>	Project ID:
String type:	Production Liner	43-041-30030
Location:	Sevier	

**Design parameters:**

**Collapse**

Mud weight: 9.500 ppg  
 Design is based on evacuated pipe.

**Burst**

Max anticipated surface pressure: 3,630 psi  
 Internal gradient: 0.120 psi/ft  
 Calculated BHP: 4,797 psi  
  
 No backup mud specified.

**Minimum design factors:**

**Collapse:**

Design factor 1.125

**Burst:**

Design factor 1.00

**Tension:**

8 Round STC: 1.80 (J)  
 8 Round LTC: 1.80 (J)  
 Buttress: 1.60 (J)  
 Premium: 1.50 (J)  
 Body yield: 1.50 (B)

Tension is based on buoyed weight.  
 Neutral point: 9,357 ft

**Environment:**

H2S considered? No  
 Surface temperature: 65 °F  
 Bottom hole temperature: 201 °F  
 Temperature gradient: 1.40 °F/100ft  
 Minimum section length: 1,500 ft

Cement top: 7,823 ft

Liner top: 7,200 ft  
 Non-directional string.

Run Seq	Segment Length (ft)	Size (in)	Nominal Weight (lbs/ft)	Grade	End Finish	True Vert Depth (ft)	Measured Depth (ft)	Drift Diameter (in)	Internal Capacity (ft <sup>3</sup> )
1	2520 ✓	5.5 ✓	17.00 ✓	L-80 ✓	LT&C	9720	9720	4.767	86.8
Run Seq	Collapse Load (psi)	Collapse Strength (psi)	Collapse Design Factor	Burst Load (psi)	Burst Strength (psi)	Burst Design Factor	Tension Load (Kips)	Tension Strength (Kips)	Tension Design Factor
1	4797	6290	1.311 ✓	4797	7740	1.61 ✓	37	338	9.22 J ✓

Prepared by: Clinton Dworshak  
 Utah Div. of Oil & Mining

Phone: 801-538-5280  
 FAX: 810-359-3940

Date: October 23, 2003  
 Salt Lake City, Utah

**Remarks:**

For this liner string, the top is rounded to the nearest 100 ft. Collapse is based on a vertical depth of 9720 ft, a mud weight of 9.5 ppg. The Collapse strength is based on the Westcott, Dunlop & Kemler method of biaxial correction for tension.

Burst strength is not adjusted for tension.

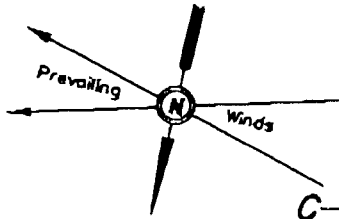
*Engineering responsibility for use of this design will be that of the purchaser.*

**WOLVERINE GAS & OIL CORP.**

**FIGURE #1**

LOCATION LAYOUT FOR

KINGS MEADOW RANCHES #17-1  
SECTION 17, T23S, R1W, S.L.B.&M.  
2040' FNL 2000' FWL



SCALE: 1" = 60'  
DATE: 08-28-03  
Drawn By: D.R.B.  
Rev.: 10-08-03 D.R.B.

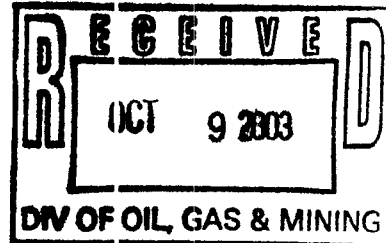
C-8.7'  
El. 31.1'

C-6.1'  
El. 28.5'

C-7.9'  
El. 30.3'

Approx. Top of Cut Slope

**NOTE:**  
Flare Pit is to be located a min. of 100' from the Well Head.



CATWALK 215'

Topsoil Stockpile

- 1- Pit Capacity
- 2- Water Permit
- 3- Amend surf. agreement. TDA Foundation
- 4- H2S Cont. Plan (wildcat)
- 5- New pad size, revised maps.
- 6- DOT permit 130-140' fr. pad Hwy 24

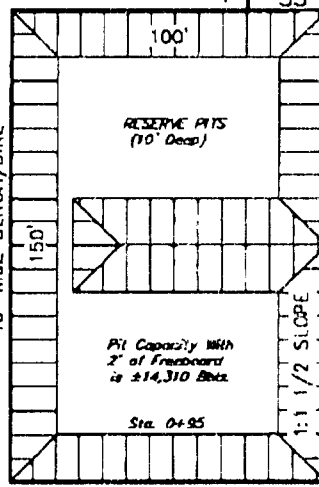
F-2.2'  
El. 20.2'

Approx. Toe of Fill Slope

El. 28.0'  
C-15.6'  
(blm. pit)

C-2.8'  
El. 25.2'

Reserve Pit Backfill & Spalls Stockpile  
10' WIDE BENCH/DIKE



Pit Capacity With 2' of Freeboard is ±14,310 Bbls.

Sta. 0+95

El. 25.0'  
C-12.6'  
(blm. pit)

F-0.8'  
El. 21.6'

FUEL

STORAGE TANK

Sta. 0+00

F-7.3'  
El. 15.1'

F-2.0'  
El. 20.4'

F-3.5'  
El. 18.9'

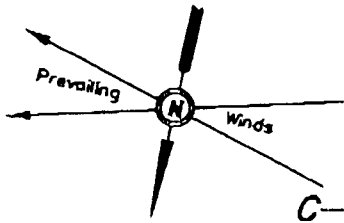
Proposed Access Road

Elev. Ungraded Ground at Location Stake = 5722.9'  
Elev. Graded Ground at Location Stake = 5722.4'

# WOLVERINE GAS & OIL CORP. LOCATION LAYOUT FOR

FIGURE #1

KINGS MEADOW RANCHES #17-1  
SECTION 17, T23S, R1W, S.L.B.&M.  
2040' FNL 2000' FWL



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DATE: 08-28-03  
Drawn By: D.R.B.  
Rev.: 10-08-03 D.R.B.

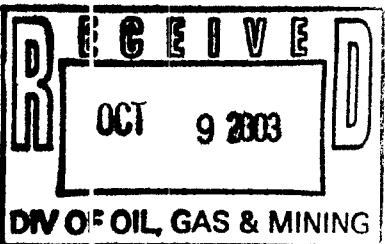
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El. 31.1'

C-6.1'  
El. 28.5'

C-7.9'  
El. 30.3'

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Approx. Top of Cut Slope

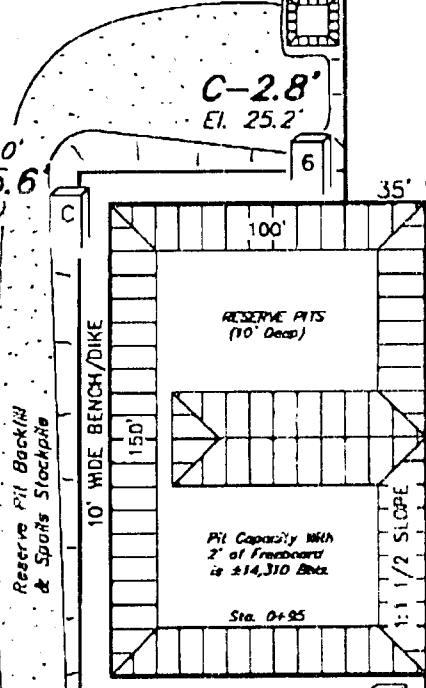


El. 28.0'  
C-15.6'  
(btm. pit)

C-2.8'  
El. 25.2'

C-1.9'  
El. 24.3'

C-0.5'  
El. 22.9'

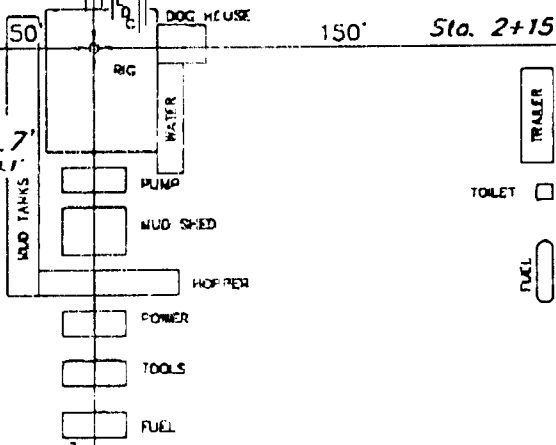


C-1.7'  
El. 24.1'

F-2.2'  
El. 20.2'

El. 25.0'  
C-12.6'  
(btm. pit)

F-0.8'  
El. 21.6'



Approx. Toe of Fill Slope

F-2.0'  
El. 20.4'

F-3.5'  
El. 18.9'

F-7.3'  
El. 15.1'

Elev. Ungraded Ground at Location Stake = 5722.9'  
Elev. Graded Ground at Location Stake = 5722.4'

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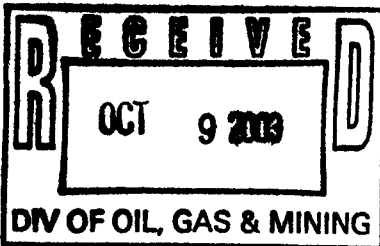
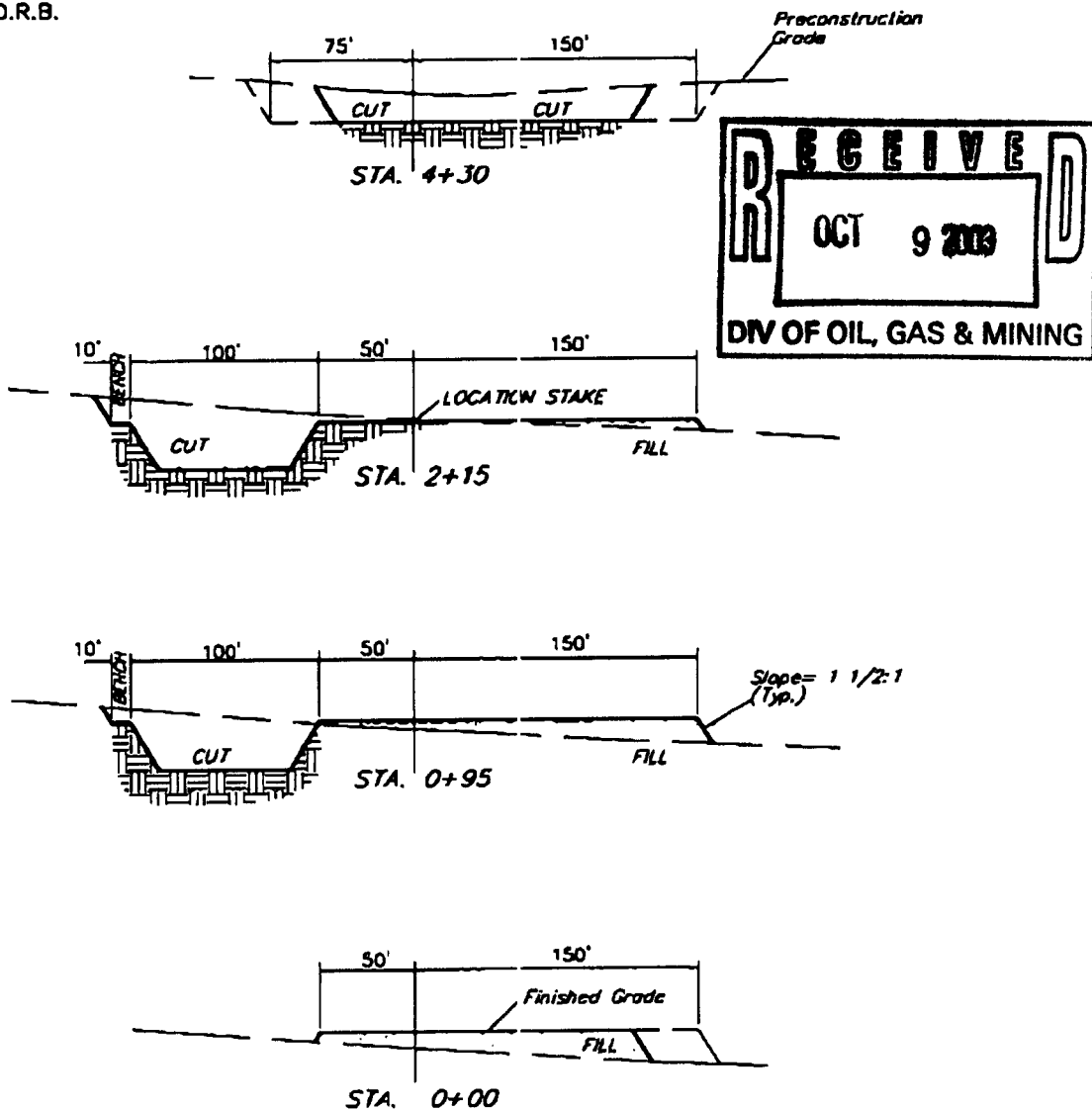
**WOLVERINE GAS & OIL CORP.**

**FIGURE #2**

**TYPICAL CROSS SECTIONS FOR  
KINGS MEADOW RANCHES #17-1  
SECTION 17, T23S, R1W, S.L.B.&M.  
2040' FNL 2000' FWL**

1" = 40'  
X-Section  
Scale  
1" = 100'

DATE: 08-28-03  
Drawn By: D.R.B.  
Rev.: 10-08-03 D.R.B.



**NOTE:**

Topsoil should not be Stripped Below Finished Grade on Substructure Area.

**APPROXIMATE YARDAGES**

(6") Topsoil Stripping	=	2,030 Cu. Yds.
Remaining Location	=	10,190 Cu. Yds.
<b>TOTAL CUT</b>	<b>=</b>	<b>12,220 CU.YDS.</b>
<b>FILL</b>	<b>=</b>	<b>5,670 CU.YDS.</b>

EXCESS MATERIAL AFTER 5% COMPACTION	=	6,250 Cu. Yds.
Topsoil & Pit Backfill (1/2 Pit Vol.)	=	3,970 Cu. Yds.
EXCESS UNBALANCE (After Rehabilitation)	=	2,280 Cu. Yds.

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

FORM 3

AMENDED REPORT   
(highlight changes)

**APPLICATION FOR PERMIT TO DRILL**

1A. TYPE OF WORK: DRILL <input checked="" type="checkbox"/> REENTER <input type="checkbox"/> DEEPEN <input type="checkbox"/>		5. MINERAL LEASE NO: <b>FEE</b>	6. SURFACE: Fee
B. TYPE OF WELL: OIL <input type="checkbox"/> GAS <input checked="" type="checkbox"/> OTHER _____ SINGLE ZONE <input checked="" type="checkbox"/> MULTIPLE ZONE <input type="checkbox"/>		7. IF INDIAN, ALLOTTEE OR TRIBE NAME:	
2. NAME OF OPERATOR: <b>Wolverine Gas and Oil Corporation Wt. (N1655)</b>		8. UNIT or CA AGREEMENT NAME: <b>Wolverine Fed. Exploration Unit</b>	
3. ADDRESS OF OPERATOR: <b>One Riverfront Plaza</b> CITY <b>Grand Rapids</b> STATE <b>MI</b> ZIP <b>49503</b>		PHONE NUMBER: <b>(616) 458-1150</b>	9. WELL NAME and NUMBER: <b>Kings Meadow Ranches 17-1</b>
4. LOCATION OF WELL (FOOTAGES) AT SURFACE: <b>2000' FWL &amp; 2040' FNL</b> AT PROPOSED PRODUCING ZONE:		10. FIELD AND POOL, OR WILDCAT: <b>Wildcat</b>	11. QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: <b>SE 17 23S 1W S</b> <b>N</b>
14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE: <b>5.4 Miles south of Sigerd</b>		12. COUNTY: <b>Sevier</b>	13. STATE: <b>UTAH</b>
15. DISTANCE TO NEAREST PROPERTY OR LEASE LINE (FEET) <b>2000'</b>	16. NUMBER OF ACRES IN LEASE: <b>510</b>	17. NUMBER OF ACRES ASSIGNED TO THIS WELL: <b>40</b>	
18. DISTANCE TO NEAREST WELL (DRILLING, COMPLETED, OR APPLIED FOR) ON THIS LEASE (FEET) <b>N/A</b>	19. PROPOSED DEPTH: <b>9,720</b>	20. BOND DESCRIPTION: <b>Individual Well - 19-10755-6</b>	
21. ELEVATIONS (SHOW WHETHER DF, RT, GR, ETC.): <b>5723' GR</b>	22. APPROXIMATE DATE WORK WILL START: <b>11/1/2003</b>	23. ESTIMATED DURATION: <b>30 Days</b>	

**PROPOSED CASING AND CEMENTING PROGRAM**

SIZE OF HOLE	CASING SIZE, GRADE, AND WEIGHT PER FOOT	SETTING DEPTH	CEMENT TYPE, QUANTITY, YIELD, AND SLURRY WEIGHT		
17 1/2"	13-3/8" K-55 54.5#	700	Class "H"	830 sks	1.18 cuft/sk 15.6 #/gal
12 1/4"	9-5/8" S-95 53.5#	7,480	Class "H"	400 sks	1.18 cuft/sk 15.6 #/gal
7-7/8"	5 1/2" L-80 17#	9,720	50-50 pcz	425sks	1.26 cuft/sk 14.2 #/gal

**ATTACHMENTS:**

VERIFY THE FOLLOWING ARE ATTACHED IN ACCORDANCE WITH THE UTAH OIL AND GAS CONSERVATION GENERAL RULES:

- |  |  |
|--|--|
| <input checked="" type="checkbox"/> WELL PLAT OR MAP PREPARED BY LICENSED SURVEYOR OR ENGINEER     | <input checked="" type="checkbox"/> COMPLETE DRILLING PLAN                                   |
| <input checked="" type="checkbox"/> EVIDENCE OF DIVISION OF WATER RIGHTS APPROVAL FOR USE OF WATER | <input type="checkbox"/> FORM 5, IF OPERATOR IS PERSON OR COMPANY OTHER THAN THE LEASE OWNER |

NAME (PLEASE PRINT) Vince Guinn Tim Brock 9/22 TITLE Brock Engineering (517) 676-7023 Consulting Engineer

SIGNATURE Vince Guinn DATE 9/2/2003

(This space for State use only)

API NUMBER ASSIGNED: 43-041-30030

APPROVAL:

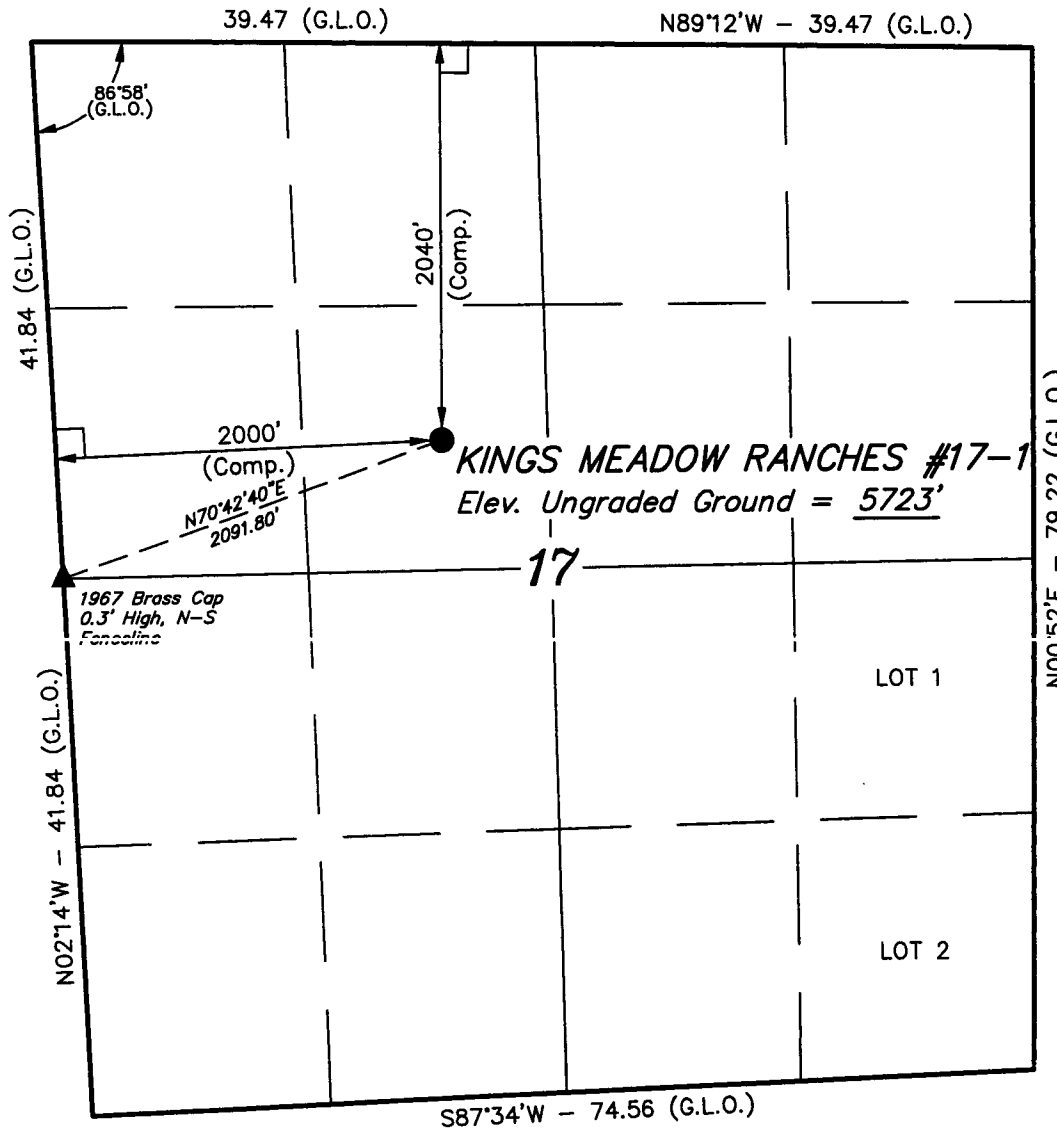
**RECEIVED**  
**SEP 03 2003**

DIV. OF OIL, GAS & MINING

# T23S, R1W, S.L.B.&M.

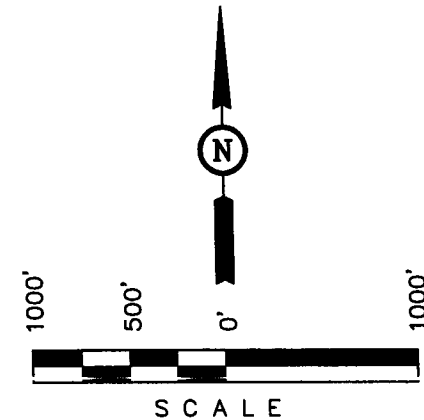
## WOLVERINE GAS & OIL CORP.

Well location, KINGS MEADOW RANCHES #17-1, located as shown in the SE 1/4 NW 1/4 of Section 17, T23S, R1W, S.L.B.&M., Sevier County, Utah.



### BASIS OF ELEVATION

SPOT ELEVATION LOCATED NEAR A ROAD IN THE SW 1/4 OF SECTION 17, T23S, R1W, S.L.B.&M., TAKEN FROM THE SIGURD QUADRANGLE, UTAH, SEVIER COUNTY, 7.5 MINUTE SERIES (TOPOGRAPHICAL MAP) PUBLISHED BY THE UNITED STATES DEPARTMENT OF THE INTERIOR, GEOLOGICAL SURVEY. SAID ELEVATION IS MARKED AS BEING 5774 FEET.



### CERTIFICATE

THIS IS TO CERTIFY THAT THE ABOVE PLAT WAS PREPARED FROM FIELD NOTES OF ACTUAL SURVEYS MADE BY ME OR UNDER MY SUPERVISION AND THAT THE SAME ARE TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.

ROBERT L. [Signature]  
REGISTERED LAND SURVEYOR  
REGISTRATION NO. 61519  
STATE OF UTAH

### LEGEND:

- └─┘ = 90° SYMBOL
- = PROPOSED WELL HEAD.
- ▲ = SECTION CORNERS LOCATED.

### BASIS OF BEARINGS

BASIS OF BEARINGS IS A G.P.S. OBSERVATION.  
(AUTONOMOUS NAD 83)  
LATITUDE = 38°48'16.13" (38.804481)  
LONGITUDE = 111°56'05.35" (111.934819)

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

SCALE 1" = 1000'	DATE SURVEYED: 08-21-03	DATE DRAWN: 08-28-03
PARTY B.B.      J.W.      D.R.B.	REFERENCES G.L.O. PLAT	
WEATHER WARM	FILE WOLVERINE GAS & OIL CORP.	

**Drilling Plan  
Wolverine Gas & Oil Corp.**

**Kings Meadow Ranch #17-1**

1. **Estimated Formation Tops (Depth from Surface):**

Arapien	Surface
Carmel	5340'
Twin Creek	7059'
Navajo	7463'
Kayenta	8877'
Total Depth	9720'

2. **The mud program for the well will be:**

Air/Air mist	surface – 700'
Saturated KCL mud	700' – 7480'
LSND w/ air	7480 – 9720'

3. **Estimated depth at which oil, gas, water or other mineral bearing zones are expected to be encountered are 7480' – 8900'.**

4. **The primary objective of this well is to log and test the potential of the Navajo Formation at the depth of 7480'. All shows of fresh water, oil and gas will be reported and protected. The well will be drilled using the following programs:**

<u>Hole Size</u>	<u>Casing Size</u>	<u>Depth</u>	<u>Cement</u>
17½"	13-3/8"	700'	830 sks
12¼"	9-5/8"	7480'	400 sks
7-7/8"	5½"	9720'	425 sks

5. **R649-3-7 BOP Equipment:**

- A. **5,000 psi WP Double Gate Blowout Preventer with Annular Preventer (schematic diagram attached fig. 3) will be used.**
- B. **BOPE will be pressure tested upon installation, whenever a seal subject to test pressure is broken or repairs are made; and at least once every 30 days.**
- C. **Ram-type preventers and related pressure control equipment will be pressure tested to the rated working pressure of the stack assembly if a test plug is used. If a test plug is not used, the stack assembly will be tested to the rated working pressure of the stack assembly or to 70% of the minimum internal yield pressure of the casing, which ever is less.**

D. Annular-type preventers will be pressure tested to 50% of rated working pressure.

6. Casing Program:

Pursuant to R649-3-8 of the Conservation Rules, the cementing of casing shall be pump and plug method.

	Setting Depth	Hole Size	Casing O.D.	Grade	Weight/Ft.
Surface	700'	17½"	13-3/8"	K-55	54.5#
Intermediate	7480'	12¼"	9-5/8"	S-95	53.5#
Production	9720'	7-7/8"	5½"	L-80	17#

7. Cement Program:

Surface Casing 0 – 700' – 830 sks Class "H" w/ additives

Cement Characteristics: Yield – 1.18 cu ft per sk  
Slurry Weight = 15.8 ppg  
Compressive strength = 3385 psi/24 hr. @ 80°F

Intermediate Casing 0 – 7480' – 400 sks Class "H" w/ additives

Cement Characteristics: Yield – 1.18 cu ft per sk  
Slurry Weight = 15.8 ppg  
Compressive strength = 3385 psi/24 hr. @ 80°F

Production Liner 7200' – 9720' – 425 sks 50:50 Pozmix w/ additives

Cement Characteristics: Yield – 1.26 cu ft per sk  
Slurry Weight = 14.2 ppg  
Compressive strength = 1125 psi/24 hr. @ 140°F

Actual cement volumes will be based on caliper log calculations and drilling experience. The objective will be to bring the cement to 6,500' for drilling purposes and then into surface casing should the well become a producer. The production liner will be cemented from TD to top of liner hanger.

All casing strings will be pressure tested to 0.22 psi/ft or 1500 psi, whichever is greater prior to drilling plug after cementing. Test pressure not to exceed 40% of the internal yield pressure of the casing.



8. Pursuant to R649-3-12, hydrogen sulfide is not expected to be encountered while drilling this well.
  
9. Upon completion of the drilling and testing of the well, should the well not contain commercial hydrocarbon, the well will be plugged and abandoned pursuant to R649-3-24, and the surface will be restored pursuant to R649-3-34. Anticipated plan for plugging includes cutting and removal of the 9-5/8" casing, setting a 100' cement plug in and out of the casing stub, and spotting a 100' plug from 750' – 650' in and out of the bottom of the surface casing. The surface casing will then be cut off and plugged at the top of the stub. All cement will be with class "G" cement.

## SURFACE USE PLAN WOLVERINE GAS AND OIL CORPORATION

### KINGS MEADOW RANCH #17-1

1. A vicinity map Topo "A" indicates location of the well site. Access to the well pad will be obtained by traveling 0.7 miles in a westerly direction from Salina, Utah along U.S. 50 to the junction of U.S. highway 89. Exit left and proceed in a southwesterly direction for approximately 8.2 miles to the junction of state highway 24. Turn left and travel through the town of Sigurd, Utah and south on 24 for approximately five and four tenths (5.4) miles between mile markers #13 and #14 to the proposed access road. Access to the location will be following the flags in a southeasterly direction 400'. Surface Use Agreement with Wolverine for the well pad and access to the well is attached and labeled as exhibit "1".
2. The reserve pit for waste mud and drill cuttings will be located on the <sup>East</sup> south side of the well site plan. The pit will be 100 feet X 150 feet and will be 10 feet deep. **Volume of the pit is 26,000 barrels.** The pit will be lined and will be evaporated prior to reclamation. Rules pursuant to R649-3-16 will be followed regarding the reserve pit.
3. Pursuant to R649-3-14, all rubbish and debris shall be kept in containers on the well site, and will be hauled to an approved disposal site upon completion of drilling and completion operations.

21,390

\* ~~Not~~ Including  
2' freeboard.

(8' - 21,390)

10'

### SOURCE OF WATER

1. Water for drilling the Kings Meadow Ranch #17-1 will be purchased from Rich Porter or from water wells drilled on location pending the air drilling of the surface hole. Water for drilling will be hauled to location and stored in storage tanks on the drill site. Wastewater will not be discharged on the surface at this site, and the drilling of the well will not require a wastewater management plan.
2. In addition, after air drilling the 700' surface hole, ground water will be evaluated and a water well will be permitted and drilled on site.

\* Need  
new permit  
WR (fish field)

OPERATOR'S REPRESENTATIVE

~~Vince Guinn~~  
~~Brandywine Operating, L.L.C.~~  
~~869 N. Canyon View Dr. #416-16~~  
~~Roosevelt, UT 84066~~  
~~Office - 435-722-8324~~ 9/22/03  
~~Fax - 435-722-8323~~  
~~Cell - 435-722-6604~~

Tim Brock (Replaced Vince Guinn 9/22/03)  
Brock Engineering  
(517) 676-7023

\* Mark Doler

Kings Meadow Ranches Inc.  
Meck Dastrip (or Lamar, brother)  
(435) 896-5206

T.D.A. Foundation

## Exhibit "1"

**SURFACE DAMAGE AGREEMENT**

This agreement is between Kings Meadow Ranches, Inc., a Utah Corporation, whose address is P. O. Box 570125, Sigurd, UT 84657 and T.D.A. Foundation, whose address is 620 South Main Street, Bountiful, Utah 84047, collectively hereinafter referred to as "Kings Meadow", and Wolverine Gas and Oil Corporation, hereinafter referred to as "Wolverine", whose address is One Riverfront Plaza, Grand Rapids, MI 49503-2616.

The above parties agree to the basic understanding as follows:

1. Wolverine plans to commence drilling operations for the #17-1 well, located in the SE $\frac{1}{4}$ NW $\frac{1}{4}$  of Section 17, Township 23 South, Range 1 West, Sevier County, Utah ("Subject Lands"). Prior to the commencement of any drilling operation Wolverine shall pay Kings Meadow One Thousand Dollars (\$1,000.00) as compensation for damage to the surface for a drill site location not to exceed three acres, and access road to well site. The route for access roads shall be mutually agreed upon by parties herein, and Wolverine shall diligently attempt to avoid irrigated and pasture lands owned by Kings Meadow. In the event roads are abandoned by Wolverine, Kings Meadow shall have the option to take over operations of the roads free of cost, and accept liability and upkeep of the access road.
2. Any and all access roads shall not exceed 30 feet in width (maximum).
3. In the event of a dry hole, drill site and roadways will be restored to their original condition as nearly as practicable within 180 days after plugging date of the well.
4. In the event of production, Wolverine shall have the right to install production equipment, upgrade access roads, lay pipeline, power lines and telephone lines (below plow depth) on the surface of Kings Meadow. Wolverine shall pay an annual rental fee of \$800.00 for use of said surface at well site, and shall pay a one time fee equal to \$8.00 per rod for pipelines, power lines and telephone lines.
5. Firearms, dogs and liquor shall be prohibited from the well location and access roads.
6. All gates (if applicable) shall remain closed during operations by Wolverine and if requested by Kings Meadow, the well site will be fenced.
7. Only Wolverine personnel and authorized contractors performing work for Wolverine will have the combination (or key) to the locked gate and will lock it each time they pass through it.

Page 2  
Surface Damage Agreement

- 8. Unauthorized personnel, contractors, etc. will not be allowed on location or access to location.
- 9. Wolverine will make every reasonable effort to have a company representative on the location at all times during drilling/completion operations.
- 10. This agreement shall be binding upon Wolverine, Kings Meadow and their executors, administrators, successors, and assigns and all contract workers, and shall inure to the benefit of all parties herein.
- 11. This agreement may be executed in counterparts, and each signature shall be binding upon the parties who have executed such counterparts hereto with the same force and effect as if all parties have signed the same document.

Signed this 17<sup>th</sup> day of January, 2003.

Kings Meadow Ranches, Inc.

By: [Signature]  
Title: PRESIDENT

T.D.A. Foundation

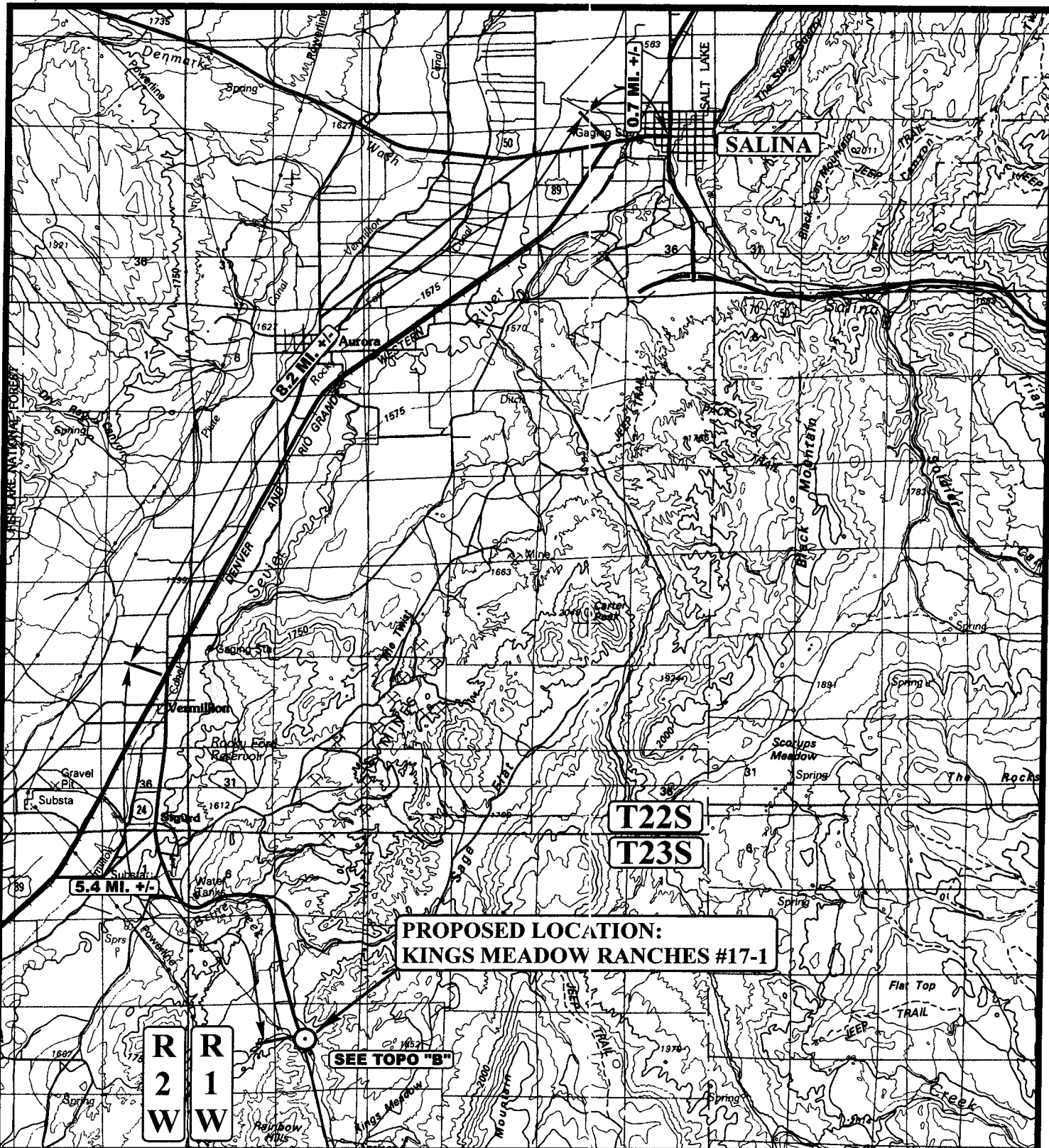
By: [Redacted Signature]  
Title: [Redacted Title]

Signed this 18<sup>th</sup> day of February ~~January~~, 2003.

Wolverine Gas and Oil Corporation

By: [Signature]  
Title: Vice President - Legal

\* 10/3/03 updated document being mailed w/o T.D.A. Foundation.



**LEGEND:**

○ PROPOSED LOCATION

**WOLVERINE GAS & OIL CORP.**

**KINGS MEADOW RANCHES #17-1**  
**SECTION 17, T23S, R1W, S.L.B.&M.**  
**2040' FNL 2000' FWL**



**Uintah Engineering & Land Surveying**  
 85 South 200 East Vernal, Utah 84078  
 (435) 789-1017 \* FAX (435) 789-1813



**TOPOGRAPHIC MAP** 08 29 03  
 MONTH DAY YEAR  
 SCALE: 1:100,000 DRAWN BY: P.M. REVISED: 00-00-00



**WOLVERINE GAS & OIL CORP.**  
**KINGS MEADOW RANCHES #17-1**  
 LOCATED IN SEVIER COUNTY, UTAH  
 SECTION 17, T23S, R1W, S.L.B.&M.

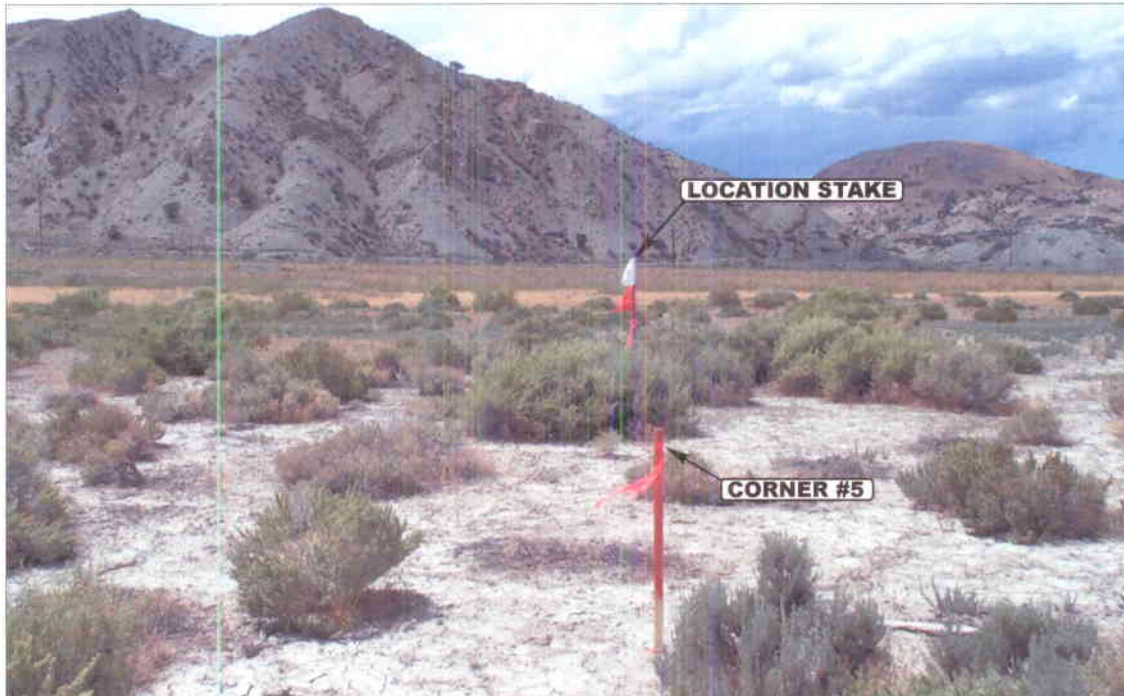


PHOTO: VIEW FROM CORNER #5 TO LOCATION STAKE

CAMERA ANGLE: SOUTHWESTERLY



PHOTO: VIEW FROM BEGINNING OF PROPOSED ACCESS

CAMERA ANGLE: SOUTHEASTERLY



- Since 1964 -

**UELS** Uintah Engineering & Land Surveying  
 85 South 200 East Vernal, Utah 84078  
 435-789-1017 uels@uelsinc.com

<b>LOCATION PHOTOS</b>			<b>08</b>	<b>29</b>	<b>03</b>	<b>PHOTO</b>
			MONTH	DAY	YEAR	
TAKEN BY: B.B.		DRAWN BY: P.M.		REVISED: 00-00-00		

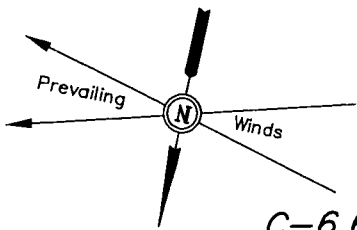
# WOLVERINE GAS & OIL CORP.

FIGURE #1

## LOCATION LAYOUT FOR

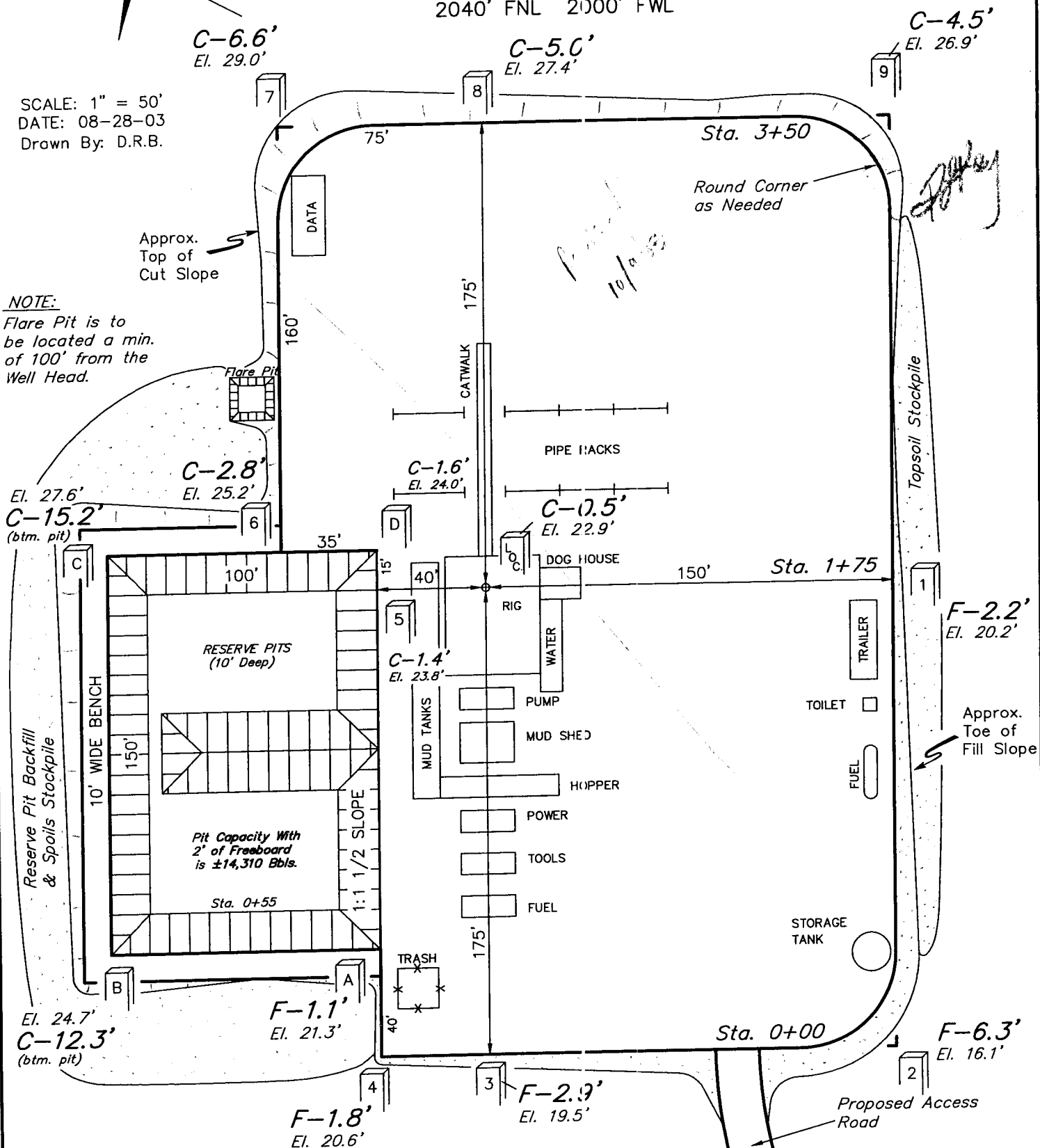
KINGS MEADOW RANCHES #17-1  
SECTION 17, T23S, R1W, S.L.B.&M.

2040' FNL 2000' FWL



SCALE: 1" = 50'  
DATE: 08-28-03  
Drawn By: D.R.B.

**NOTE:**  
Flare Pit is to be located a min. of 100' from the Well Head.



Elev. Ungraded Ground at Location Stake = 5722.9'  
Elev. Graded Ground at Location Stake = 5722.4'

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**WOLVERINE GAS & OIL CORP.**

**FIGURE #2**

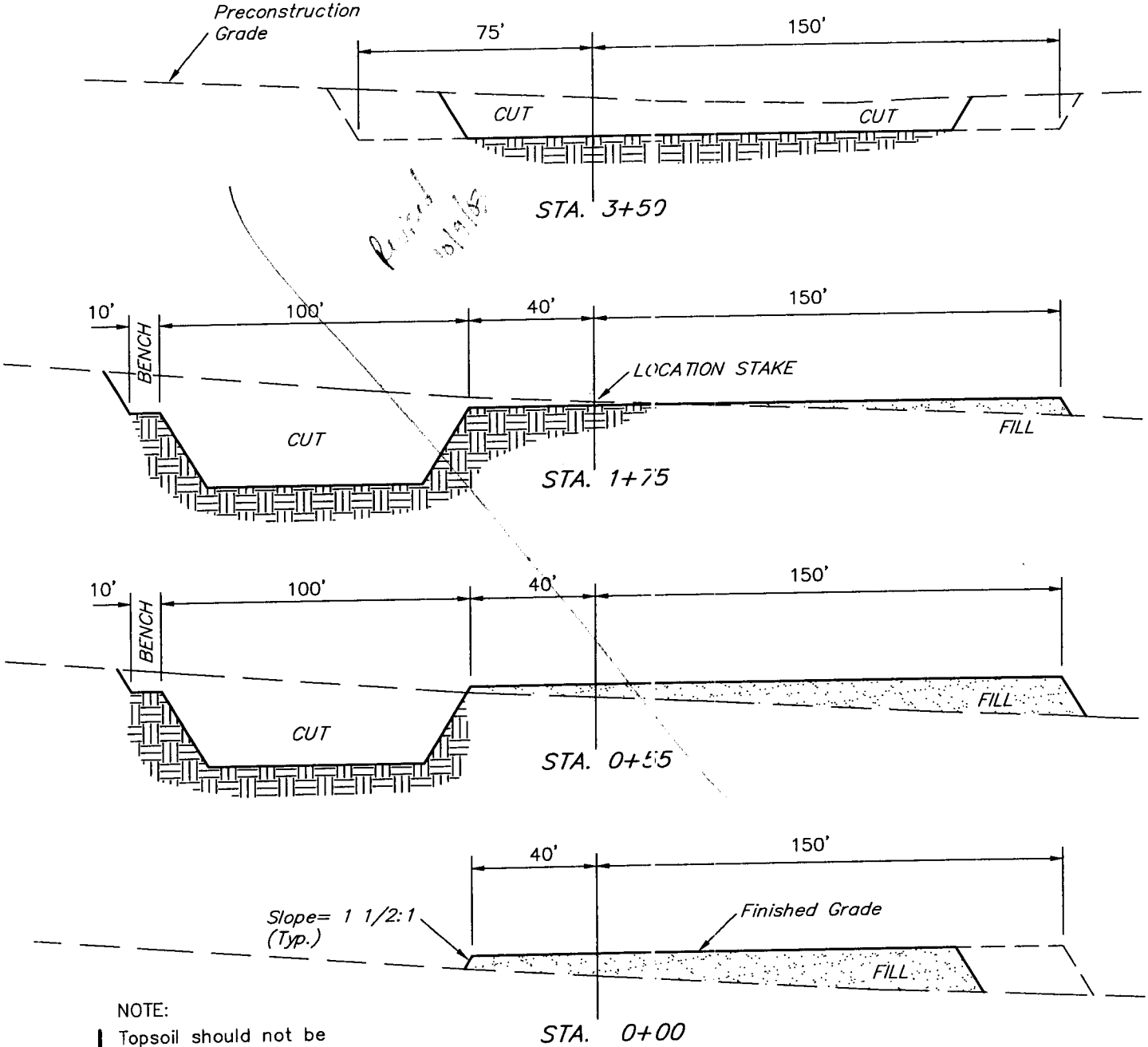
**TYPICAL CROSS SECTIONS FOR**

**KINGS MEADOW RANCHES #17-1  
SECTION 17, T23S, R1'W, S.L.B.&M.**

**2040' FNL 2000' FWL**

*[Handwritten signature]*

1" = 20'  
X-Section Scale  
1" = 50'



**NOTE:**  
Topsoil should not be Stripped Below Finished Grade on Substructure Area.

**APPROXIMATE YARDAGES**

(6") Topsoil Stripping	= 1,680 Cu. Yds.
Remaining Location	= 7,910 Cu. Yds.
<b>TOTAL CUT</b>	<b>= 9,590 CU.YDS.</b>
<b>FILL</b>	<b>= 4,050 CU.YDS.</b>

EXCESS MATERIAL AFTER 5% COMPACTION	= 5,330 Cu. Yds.
Topsoil & Pit Backfill (1/2 Pit Vol.)	= 3,620 Cu. Yds.
EXCESS UNBALANCE (After Rehabilitation)	= 1,710 Cu. Yds.

**UINTAH ENGINEERING & LAND SURVEYING**  
85 So. 200 East \* Vernal, Utah 84078 \* (801) 789-1017

T23S

HIGHWAY 89 5.4 MI. +/-  
SALINA 14.3 MI. +/-

PROPOSED LOCATION:  
KINGS MEADOW RANCHES #17-1

PROPOSED ACCESS 400' +/-

R  
2  
W

R  
1  
W

**LEGEND:**

- EXISTING ROAD
- - - PROPOSED ACCESS ROAD

**WOLVERINE GAS & OIL CORP.**

**KINGS MEADOW RANCHES #17-1**  
**SECTION 17, T23S, R1W, S.L.B.&M.**  
**2040' FNL 2000' FWL**



Uintah Engineering & Land Surveying  
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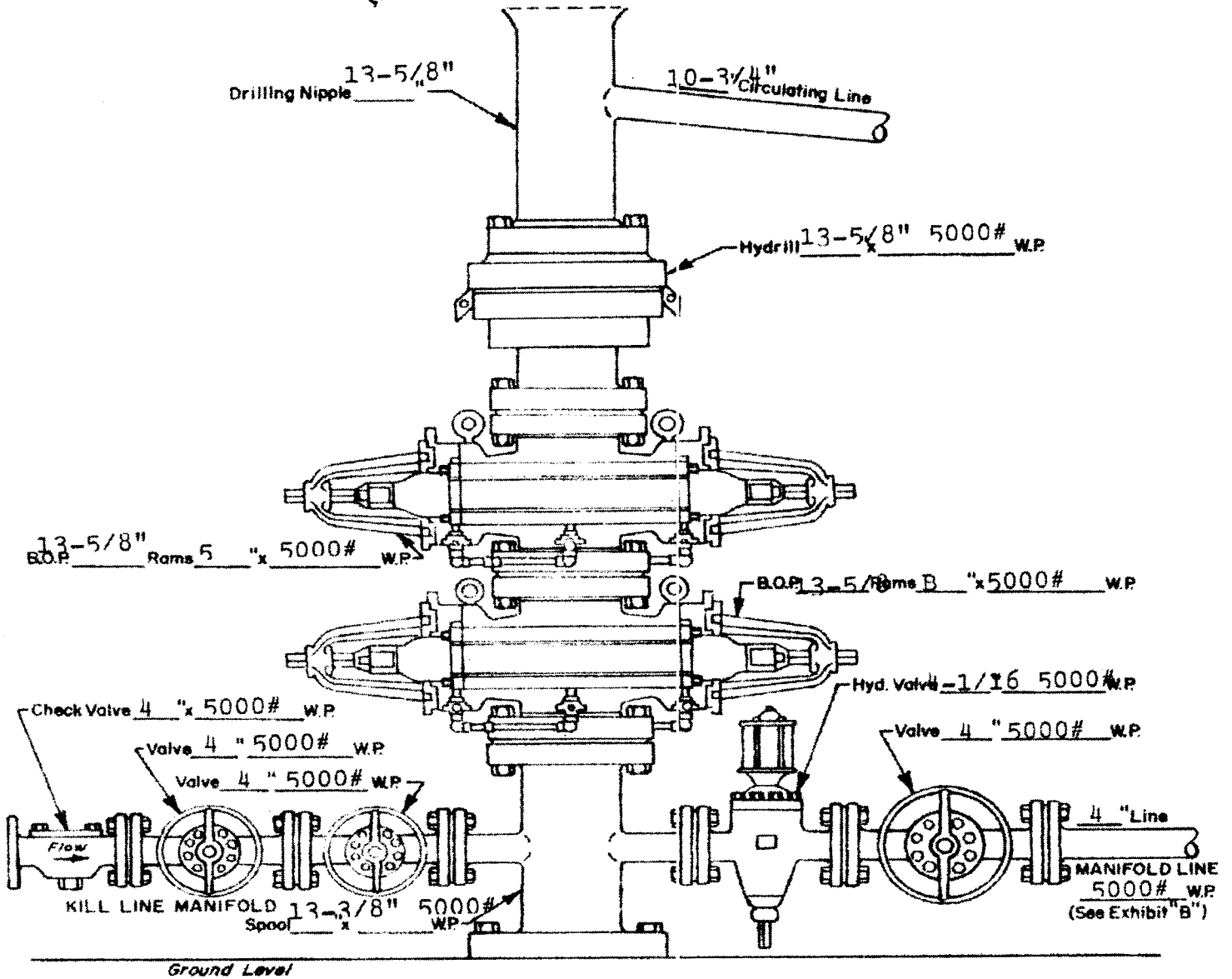
**TOPOGRAPHIC**  
**MAP**

**08 29 03**  
MONTH DAY YEAR

SCALE: 1" = 2000' DRAWN BY: P.M. REVISED: 00-00-00

**B**  
TOPO

Figure #3



WELL HEAD B.O.P.  
5000# #W.P.

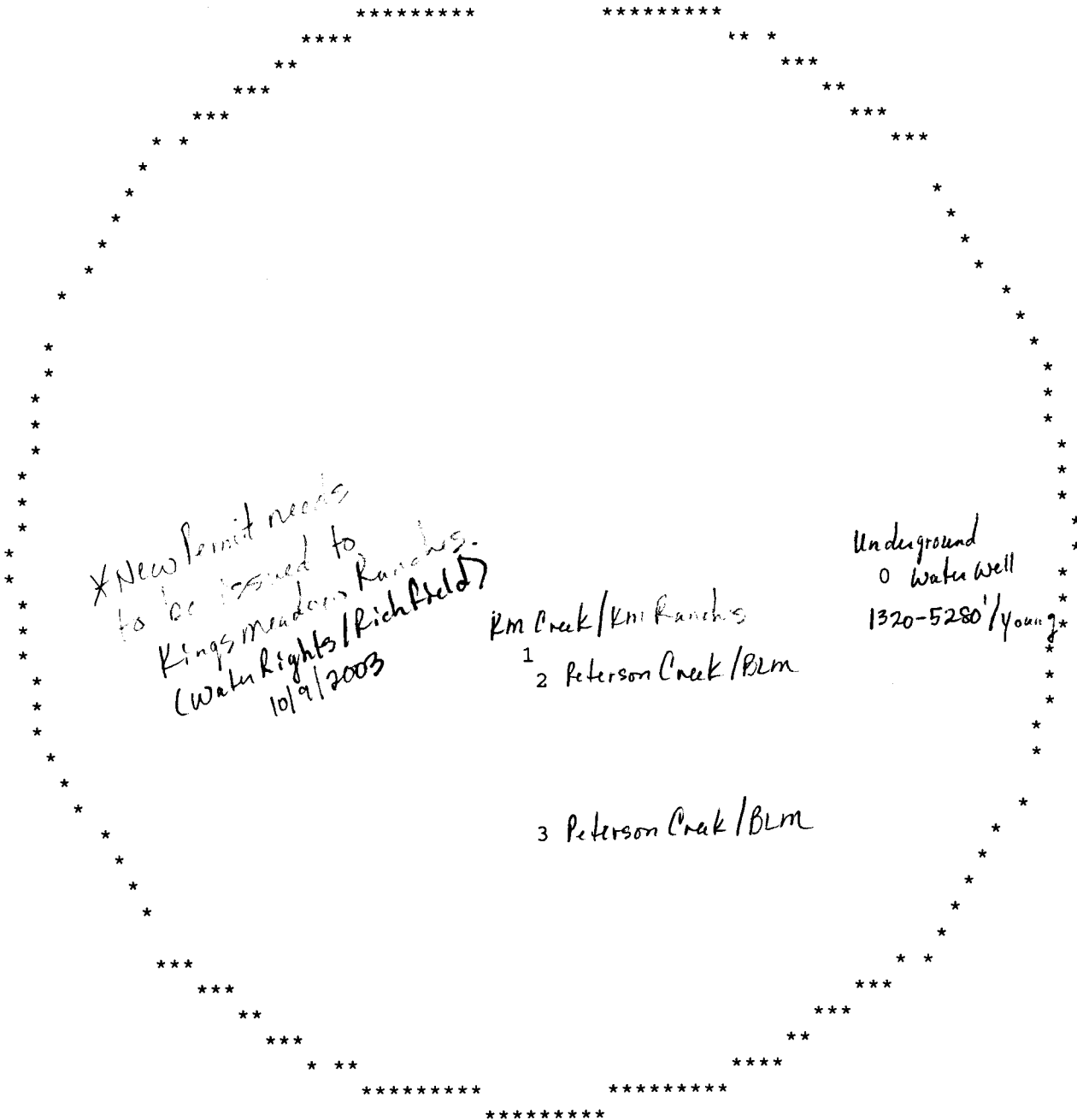
- Manual
- Hydraulic

UTAH DIVISION OF WATER RIGHTS  
WATER RIGHT POINT OF DIVERSION PLOT CREATED WED, SEP 17, 2003, 1:39  
PLOT SHOWS LOCATION OF 5 POINTS OF DIVERSION

PLOT OF AN AREA WITH A RADIUS OF 5280 FEET FROM A POINT  
S 2040 FEET, E 2000 FEET OF THE NW CORNER,  
SECTION 17 TOWNSHIP 23S RANGE 1W SL BASE AND MERIDIAN

PLOT SCALE IS APPROXIMATELY 1 INCH = 2000 FEET

N O R T H  
\*\*\*\*\*



UTAH DIVISION OF WATER RIGHTS  
NWPLAT POINT OF DIVERSION LOCATION PROGRAM

MAP CHAR	WATER RIGHT	CFS	QUANTITY		SOURCE DESCRIPTION or WELL INFO			POINT OF DIVERSION					
			AND/OR	AC-FT	DIAMETER	DEPTH	YEAR LOG	NORTH	EAST	CNR SE			
0	63 319	.0150		.00	4	156		N	330	E	100	W4	1
			WATER USE(S): STOCKWATERING Young, A. Bryant and J. Llewellyn										
1	63 3180	3.1600		.00	Kings Meadow Creek			S	2900	E	1800	NW	1
			WATER USE(S): IRRIGATION Nebeker, G. W. (Jr.) Dastrup, Lamar A.										
1	63 3181	.0100		.00	Kings Meadow Creek			S	2900	E	1800	NW	1
			WATER USE(S): DOMESTIC STOCKWATERING Nebeker, G. W. (Jr.) Dastrup, Lamar A.										
2	63 2050	.0100		.00	Peterson Creek								
			WATER USE(S): STOCKWATERING OTHER USA Bureau of Land Management (Richfield 150 East 900 North)										
3	63 2050	.0100		.00	Peterson Creek								
			WATER USE(S): STOCKWATERING OTHER USA Bureau of Land Management (Richfield 150 East 900 North)										



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# UTAH DIVISION OF WATER RIGHTS

Select Related Information

**(WARNING: Water Rights makes NO claims as to the accuracy of this data.)** RUN DATE: 09/17/2003

WRNUM: 63-319 APPLICATION/CLAIM NO.: A27813 CERT. NO.:

OW. RSHIP\*\*\*\*\*

NAME: Young, A. Bryant and J. Llewellyn OWNER MISC:  
ADDR:  
CITY: Richfield STATE: UT ZIP: 84701  
LAND OWNED BY APPLICANT?

DATES, ETC.\*\*\*\*\*

FILING: 01/21/1956 | PRIORITY: 01/21/1956 | ADV BEGAN: | ADV ENDED: | NEWSPAPER:  
PROTST END: | PROTESTED: [No ] | APPR/REJ: [ ] | APPR/REJ: 02/28/1957 | PROOF DUE: | EXTENSION:  
ELEC/PROOF:[ ] | ELEC/PROOF: | CERT/WUC: | LAP, ETC: | PROV LETR: | RENOVATE:  
RECON REQ: | TYPE: [ ]  
PD Book No. Map: Date Verified: 09/21/1988 Initials: KF  
Type of Right: Application to Appropriate Source of Info: Application to Appropriate Status: No Prf Req

LOCATION OF WATER RIGHT\*\*\*\*\*

FLOW: 0.015 cfs SOURCE: Underground Water Well  
COUNTY: Sevier COMMON DESCRIPTION:

POINT OF DIVERSION -- UNDERGROUND:  
(1) N 330 ft E 100 ft from W4 cor, Sec 16, T 23S, R 1W, SLBM DIAM: 4 ins. DEPTH: 156 to ft. YEAR DRILLED: WELL LO  
Comment:

USES OF WATER RIGHT\*\*\*\*\*

CLAIMS USED FOR PURPOSE DESCRIBED: 319  
Referenced To: Claims Groups: 1 Type of Reference -- Claims: Purpose: Remarks:  
###STOCKWATERING: 250 Cattle or Equivalent Diversion Limit: PERIOD OF USE: 01/01 TO 1


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# UTAH DIVISION OF WATER RIGHTS

Select Related Information ▾

**(WARNING: Water Rights makes NO claims as to the accuracy of this data.)** RUN DATE: 09/17/2003

WRNUM: 63-3180 APPLICATION/CLAIM NO.: CERT. NO.:

-----  
**OWNERSHIP**-----

NAME: Dastrup, Lamar A. OWNER MISC:  
 ADDR:  
 CITY: Sigurd STATE: UT ZIP: INTEREST: 59%  
 INT: 75.1 acs in Secs. 7 & 17  
 NAME: Nebeker, G. W. (Jr.) OWNER MISC:  
 ADDR:  
 CITY: Sigurd STATE: UT ZIP: 84657 INTEREST: 41%  
 INT: 51.4 acs. in Sec. 8 and Sec. 18  
 LAND OWNED BY APPLICANT?

-----  
**DATES, ETC.**-----

FILING:	PRIORITY: 00/00/1870	ADV BEGAN:	ADV ENDED:	NEWSPAPER:	
PROTST END:	PROTESTED: [No ]	APPR/REJ: [ ]	APPR/REJ:	PROOF DUE:	EXTENSION:
ELFC/PROOF:[ ]	ELEC/PROOF:	CERT/WUC:	LAP, ETC:	PROV LETR:	RENOVATE:
RI ) REQ:	TYPE: [ ]				
PD Book No. Map:	Date Verified: 05/16/1991	Initials: CSW			
Type of Right: Decree	Source of Info: Decree			Status:	

-----  
**LOCATION OF WATER RIGHT**-----

FLOW: 3.16 cfs SOURCE: Kings Meadow Creek  
 COUNTY: Sevier COMMON DESCRIPTION:  
 POINT OF DIVERSION -- SURFACE:  
 (1) S 2900 ft E 1800 ft from NW cor, Sec 17, T 23S, R 1W, SLBM  
 Diverting Works: Nebeker Ditch Source: Kings Meadow Creek

-----  
**USES OF WATER RIGHT**-----

WRPRINT

CLAIMS USED FOR PURPOSE DESCRIBED: 3180

Referenced To:

Claims Groups: 1

Type of Reference -- Claims:

Purpose:

Remarks:

###IRRIGATION	*-----NORTH WEST QUARTER-----*				*-----NORTH EAST QUARTER-----*				*-----SOUTH WEST QUARTER-----*				
	NW	NE	SW	SE	NW	NE	SW	SE	NW	NE	SW	SE	NW
Tot Acrg.: 126.5	*				*				*				*
Sec 07 T 23S R 1W SLBM *	X	X	X	X*	X	X	X	X	X*	X	X	X	X*
Sec 08 T 23S R 1W SLBM *	X	X	X	X*	X	X	X	X	X*	X	X	X	X*
Sec 17 T 23S R 1W SLBM *	X	X	X	X*	X	X	X	X	X*	X	X	X	X*
Sec 18 T 23S R 1W SLBM *	X	X	X	X*	X	X	X	X	X*	X	X	X	X*

or a Total of 0.00 acres.

Sole Supply:

Diversion Limit:

PERIOD OF USE: 04/01 TO 1

\*\*Culinary, domestic and/or stockwatering from Oct. 15th to April 1st.

\*\*\*\*\*  
 \*\*\*\*\*  
 \*\*\*\*\***E N D O F D A T A**\*\*\*\*\*  
 \*\*\*\*\*  
 \*\*\*\*\*

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# UTAH DIVISION OF WATER RIGHTS

Select Related Information ▼

**(WARNING: Water Rights makes NO claims as to the accuracy of this data.)** RUN DATE: 09/17/2003

WRNUM: 63-3181 APPLICATION/CLAIM NO.: CERT. NO.:

OK RSHIP\*\*\*\*\*

NAME: Dastrup, Lamar A. OWNER MISC:  
 ADDR: INTEREST: 59%  
 CITY: Sigurd STATE: UT ZIP: INTEREST: 59%  
 INT: 75.1 acres in Sec. 7 & 17  
 NAME: Nebeker, G. W. (Jr.) OWNER MISC:  
 ADDR: INTEREST: 41%  
 CITY: Sigurd STATE: UT ZIP: 84657 INTEREST: 41%  
 INT: 51.4 acs in Sec. 8 & Sec. 18  
 LAND OWNED BY APPLICANT?

DATES, ETC.\*\*\*\*\*

FILING:	PRIORITY: 00/00/1870	ADV BEGAN:	ADV ENDED:	NEWSPAPER:	
PROTST END:	PROTESTED: [No ]	APPR/REJ: [ ]	APPR/REJ:	PROOF DUE:	EXTENSION:
ELEC/PROOF: [ ]	ELEC/PROOF:	CERT/WUC:	LAP, ETC:	PROV LETR:	RENOVATE:
RI N REQ:	TYPE: [ ]				

PD Book No. Map: Date Verified: 05/16/1991 Initials: CSW  
 Type of Right: Decree Source of Info: Decree Status:

LOCATION OF WATER RIGHT\*\*\*\*\*

FLOW: 0.01 cfs SOURCE: Kings Meadow Creek  
 COUNTY: Sevier COMMON DESCRIPTION:

POINT OF DIVERSION -- SURFACE:  
 (1) S 2900 ft E 1800 ft from NW cor, Sec 17, T 23S, R 1W, SLBM  
 Diverting Works: Nebeker Ditch Source: Kings Meadow Creek

PLACE OF USE OF WATER RIGHT\*\*\*\*\*

WRPRINT

	NORTH-WEST%	NORTH-EAST%	SOUTH-WEST%	SOUTH-EAST%
	NW NE SW SE	NW NE SW SE	NW NE SW SE	NW NE SW SE
Sec 07 T 23S R 1W SLBM	* X: X: X: X*	* X: X: X: X*	* X: X: X: X*	* X: X: X: X*
Sec 08 T 23S R 1W SLBM	* X: X: X: X*	* X: X: X: X*	* X: X: X: X*	* X: X: X: X*
Sec 17 T 23S R 1W SLBM	* X: X: X: X*	* X: X: X: X*	* X: X: X: X*	* X: X: X: X*
Sec 18 T 23S R 1W SLBM	* X: X: X: X*	* X: X: X: X*	* X: X: X: X*	* X: X: X: X*

USES OF WATER RIGHT

CLAIMS USED FOR PURPOSE DESCRIBED: 3181

Referenced To:	Claims Groups:	1	Type of Reference -- Claims:	Purpose:	Remarks:
###STOCKWATERING: 100 Cattle or Equivalent			Diversion Limit:	PERIOD OF USE: 01/01 TO 1	
)#DOMESTIC: 5 Persons			Diversion Limit:	PERIOD OF USE: 01/01 TO 1	
*Culinary, domestic and/or stockwatering from Oct. 15th to April 1st.					

\*\*\*\*\*END OF DATA\*\*\*\*\*

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# UTAH DIVISION OF WATER RIGHTS

Select Related Information ▼

**(WARNING: Water Rights makes NO claims as to the accuracy of this data.)** RUN DATE: 09/17/2003

WRNUM: 63-2050 APPLICATION/CLAIM NO.: D3133 CERT. NO.:

-----  
 Ov. ) RSHIP\*\*\*\*\*  
 -----

NAME: USA Bureau of Land Management (Richfield District) OWNER MISC:  
 ADDR: 150 East 900 North  
 CITY: Richfield STATE: UT ZIP: 84701 INTEREST: 100%  
 LAND OWNED BY APPLICANT?

-----  
**DATES, ETC.**\*\*\*\*\*  
 -----

FILING: 06/19/1975	PRIORITY: 00/00/1903	ADV BEGAN:	ADV ENDED:	NEWSPAPER:	
PROTST END:	PROTESTED: [No ]	APPR/REJ: [ ]	APPR/REJ:	PROOF DUE:	EXTENSION:
ELEC/PROOF: [ ]	ELEC/PROOF:	CERT/WUC:	LAP, ETC:	PROV LETR:	RENOVATE:
RECON REQ:	TYPE: [ ]				
PD Book No. Map:	Date Verified: 03/30/1990	Initials: MSA			
Type of Right: Diligence Claim	Source of Info: Water User's Claim	Status:			

-----  
**LOCATION OF WATER RIGHT**\*\*\*\*\*  
 -----

FLOW: 0.01 cfs SOURCE: Peterson Creek  
 COUNTY: Sevier COMMON DESCRIPTION:

POINT OF DIVERSION -- POINT TO POINT:  
 ( 1) Stockwatering directly on stream from a point in SE4SW4 Sec 17, T23S, R1W, SLBM,  
 to a point in NE4SW4 Sec 17, T23S, R1W, SLBM.  
 Source:

-----  
**USES OF WATER RIGHT**\*\*\*\*\*  
 -----

CLAIMS USED FOR PURPOSE DESCRIBED: 2050		Type of Reference -- Claims:	Purpose:	Remarks:
Referenced To:	Claims Groups: 1			

WRPRINT

###STOCKWATERING: 240 Cattle or Equivalent

Diversion Limit:

PERIOD OF USE: 01/01 TO 1

.....

###WILDLIFE      Wildlife; Deer 100, and numerous small animals and birds.

\*\*\*\*\*

\*\*\*\*\*END OF DATA\*\*\*\*\*

\*\*\*\*\*

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# UTAH DIVISION OF WATER RIGHTS

Select Related Information ▾

**(WARNING: Water Rights makes NO claims as to the accuracy of this data.)** RUN DATE: 09/17/2003

WRNUM: 63-2050 APPLICATION/CLAIM NO.: D3133 CERT. NO.:

**OWNERSHIP**

NAME: USA Bureau of Land Management (Richfield District) OWNER MISC:  
 ADDR: 150 East 900 North  
 CITY: Richfield STATE: UT ZIP: 84701 INTEREST: 100%  
 LAND OWNED BY APPLICANT?

**DATES, ETC.**

FILING: 06/19/1975	PRIORITY: 00/00/1903	ADV BEGAN:	ADV ENDED:	NEWSPAPER:	
PROTST END:	PROTESTED: [No ]	APPR/REJ: [ ]	APPR/REJ:	PROOF DUE:	EXTENSION:
ELEC/PROOF: [ ]	ELEC/PROOF:	CERT/WUC:	LAP, ETC:	PROV LETR:	RENOVATE:
RECON REQ:	TYPE: [ ]				
PD Book No. Map:	Date Verified: 03/30/1990	Initials: MSA			
Type of Right: Diligence Claim	Source of Info: Water User's Claim		Status:		

**LOCATION OF WATER RIGHT**

FLOW: 0.01 cfs SOURCE: Peterson Creek  
 COUNTY: Sevier COMMON DESCRIPTION:

POINT OF DIVERSION -- POINT TO POINT:  
 ( 1) Stockwatering directly on stream from a point in SE4SW4 Sec 17, T23S, R1W, SLBM,  
 to a point in NE4SW4 Sec 17, T23S, R1W, SLBM.  
 Source:

**USES OF WATER RIGHT**

CLAIMS USED FOR PURPOSE DESCRIBED: 2050  
 Referred To: Claims Groups: 1 Type of Reference -- Claims: Purpose: Remarks:

WRPRINT

###STOCKWATERING: 240 Cattle or Equivalent

Diversion Limit:

PERIOD OF USE: 01/01 TO 1

###WILDLIFE Wildlife; Deer 100, and numerous small animals and birds.

\*\*\*\*\*E N D O F D A T A\*\*\*\*\*

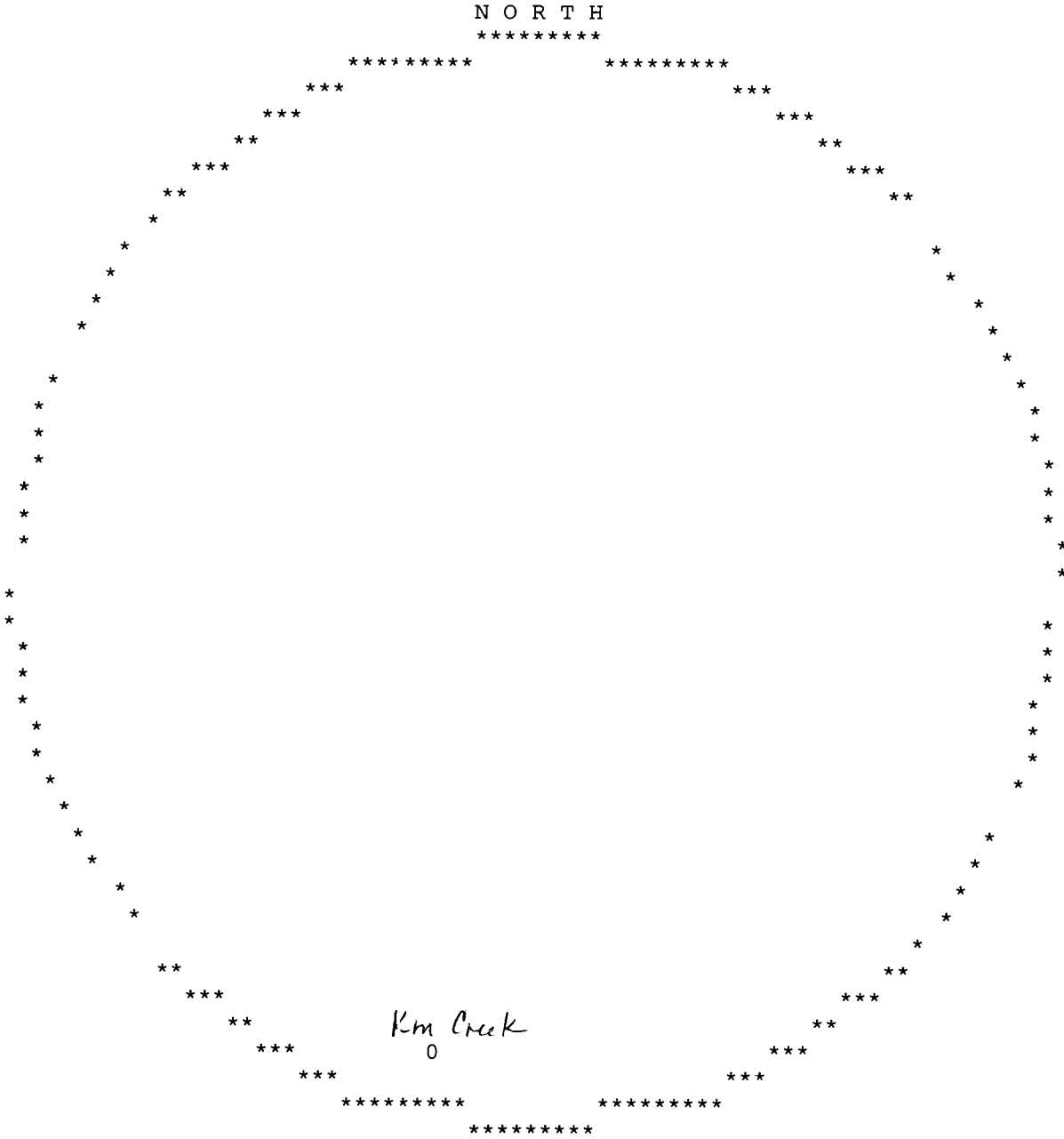
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UTAH DIVISION OF WATER RIGHTS  
WATER RIGHT POINT OF DIVERSION PLOT CREATED THU, OCT 2, 2003, 11:40  
PLOT SHOWS LOCATION OF 2 POINTS OF DIVERSION

*#Surface Water 300-1000'*

PLOT OF AN AREA WITH A RADIUS OF 1000 FEET FROM A POINT  
S 2040 FEET, E 2000 FEET OF THE NW CORNER,  
SECTION 17 TOWNSHIP 23S RANGE 1W SL BASE AND MERIDIAN

PLOT SCALE IS APPROXIMATELY 1 INCH = 400 FEET



UTAH DIVISION OF WATER RIGHTS  
 NWPLAT POINT OF DIVERSION LOCATION PROGRAM

---

MAP CHAR	WATER RIGHT	CFS	QUANTITY		SOURCE DESCRIPTION or WELL INFO			POINT OF DIVERSION				
			AND/OR	AC-FT	DIAMETER	DEPTH	YEAR LOG	NORTH	EAST	CNR	SE	
0	63 3180	3.1600		.00	Kings Meadow Creek			S	2900	E	1800	NW 1
					WATER USE(S): IRRIGATION							PRIORI
					Nebeker, G. W. (Jr.)							Sig
					Dastrup, Lamar A.							Sig
0	63 3181	.0100		.00	Kings Meadow Creek			S	2900	E	1800	NW 1
					WATER USE(S): DOMESTIC STOCKWATERING							PRIORI
					Nebeker, G. W. (Jr.)							Sig
					Dastrup, Lamar A.							Sig

---



WORKSHEET  
APPLICATION FOR PERMIT TO DRILL

APD RECEIVED: 09/03/2003

API NO. ASSIGNED: 43-041-30030

WELL NAME: KINGS MEADOW FANCHES 17-1  
OPERATOR: WOLVERINE GAS & OIL CO ( N1655 )  
CONTACT: VINCE GUINN

PHONE NUMBER: 435-722-8324

PROPOSED LOCATION:

SENW 17 230S 010W  
SURFACE: 2000 FWL 204) FNL  
BOTTOM: 2000 FWL 204) FNL  
SEVIER  
WILDCAT ( 1 )

INSPECT LOCATN BY: / /		
Tech Review	Initials	Date
Engineering	DKD	10/23/03
Geology		
Surface		

LEASE TYPE: 4 - Fee  
LEASE NUMBER: FEE  
SURFACE OWNER: 4 - Fee  
PROPOSED FORMATION: NAVA

LATITUDE: 38.80463  
LONGITUDE: 111.93428

RECEIVED AND/OR REVIEWED:

- Plat
- Bond: Fed[] Ind[] Sta[] Fee[4]  
(No. 19-10755-6 )
- Potash (Y/N)
- Oil Shale 190-5 (B) or 190-3 or 190-13
- Water Permit  
(No. T28334 )
- RDCC Review  Y/N  
(Date: 09/23/2003 )
- Fee Surf Agreement  Y/N Amended 10-15-03

LOCATION AND SITING:

- R649-2-3.  
Unit \_\_\_\_\_
- R649-3-2. General  
Siting: 460 From Qtr/Qtr & 920' Between Wells
- R649-3-3. Exception
- Drilling Unit  
Board Cause No: \_\_\_\_\_  
Eff Date: \_\_\_\_\_  
Siting: \_\_\_\_\_
- R649-3-11. Directional Drill

COMMENTS:

Needs review (Rec'd 10/9/03)

STIPULATIONS:

- 1. Spacing Strip
- (2) 9 5/8" Intermediate Casing should be cemented above all freshwater or mineral bearing zones
- (3) 5 1/2" production liner shall be cemented through top of liner (TOL) @ ± 7200'
- (4) STATEMENT OF BASIS

T23S R1W

7

8

9

KINGS MEADOW  
RANCHES 17-1



18

17

16

19

20

21

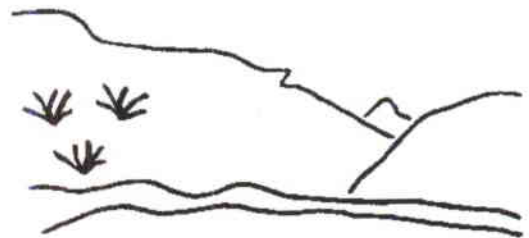
OPERATOR: WOLVERINE G&O CORP (N1665)

SEC. 17 T.23S, R.1W

FIELD: WILDCAT (001)

COUNTY: SEVIER

SPACING: R649-3-2 / GENERAL SITING



Utah Oil Gas and Mining

Wells

- GAS INJECTION
- GAS STORAGE
- LOCATION ABANDONED
- NEW LOCATION
- PLUGGED & ABANDONED
- PRODUCING GAS
- PRODUCING OIL
- SHUT-IN GAS
- SHUT-IN OIL
- TEMP. ABANDONED
- TEST WELL
- WATER INJECTION
- WATER SUPPLY
- WATER DISPOSAL

Unit Status

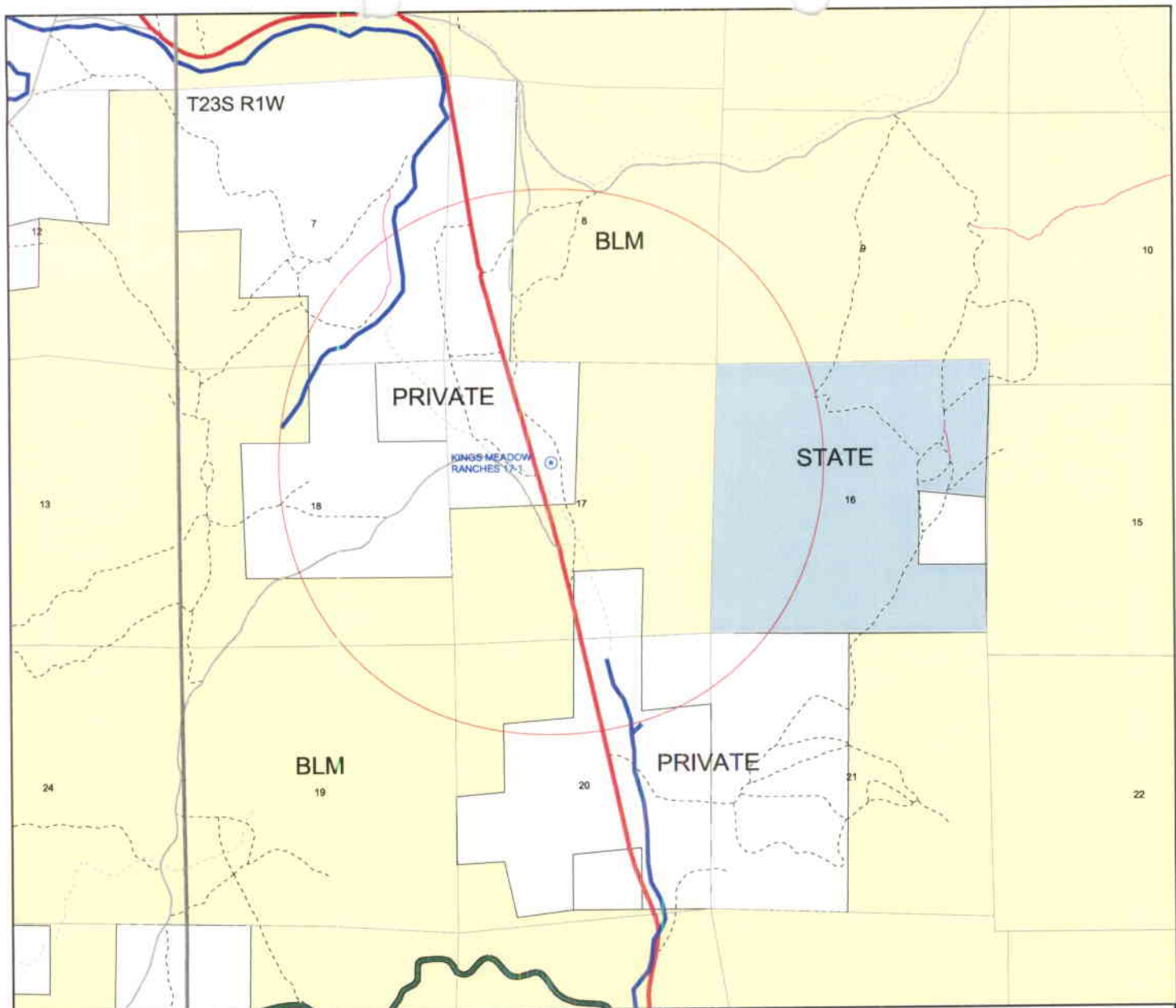
- EXPLORATORY
- GAS STORAGE
- NF PP OIL
- NF SECONDARY
- PENDING
- PI OIL
- PP GAS
- PP GEOTHERML
- PP OIL
- SECONDARY
- TERMINATED

Field Status

- ABANDONED
- ACTIVE
- COMBINED
- INACTIVE
- PROPOSED
- STORAGE
- TERMINATED



PREPARED BY: DIANA MASON  
DATE: 08-SEPTEMBER-2003



## Legend

### Wells

- GAS INJECTION
- GAS STORAGE
- LOCATION ABANDONED
- NEW LOCATION
- PLUGGED & ABANDONED
- PRODUCING GAS
- PRODUCING OIL
- SHUT-IN GAS
- SHUT-IN OIL
- TEMP. ABANDONED
- TEST WELL
- WATER INJECTION
- WATER SUPPLY
- WATER DISPOSAL

- County Boundary
- Field Status**
- ABANDONED
- ACTIVE
- COMBINED
- INACTIVE
- PROPOSED
- STORAGE
- TERMINATED
- Sections



Utah Oil Gas and Mining



Prepared by: Lisha Cordova  
Date: September 17, 2003

**From:** "Tim Brock" <TBrock@wolvgas.com>  
**To:** <lishaccrdova@utah.gov>  
**Date:** 10/6/03 12:56PM  
**Subject:** Wolverine Kings Meadow Ranches 17-1

Lisha,

Pursuant to our recent phone discussion, the following narrative will hopefully answer the concerns that you have:

*TJB* To the best of our knowledge, TDA Foundation's option expired at the end of last month. As soon as it is available, we will provide documentation of same to your office. Therefore, the surface use agreement will be only between Wolverine Gas and Oil Co. of Utah and Kings Meadow Ranches, Inc.

*TJB* Since it is privately owned land, no archeological or paleontological studies were conducted on this site.

*TJB* If successful, we anticipate that this well will be a gas well. As such, production equipment would likely consist of a line heater, separation and dehydration equipment and probably two tanks. Considering the topography of the site and the prevailing winds, we would anticipate this equipment to be located on the south side of the location. The tanks would be in a diked enclosure that would meet or exceed Utah DOGM specifications. Naturally, a gas sales line would be necessary as well. While we have not specced out the line as yet, we anticipate that it would connect into the Kern River Pipeline about 25 miles away. Due to the distance and the fact that we do not as yet have a discovery, we have not set a specific delivery point.

*TJB* We do not believe that any flood plains or wetlands will be affected as a result of our drilling this well. The US Fish and Wildlife service website has a mapping capability that identifies wetlands and many other things. We do not see any wetlands associated with this wellsite.

*TJB* While our permit application states the Operator as Wolverine Gas and Oil Corporation, it is meant to say Wolverine Gas and Oil Co. of Utah, to be consistent with our bonding. If necessary, we will be happy to submit a revised APD to account for this.

*TJB* With regard to the on-site pre-drill inspection, I am trying to arrange this meeting with Mr. Mark Dolar, our local representative and Mr. Pat Clark, our drilling supervisor. We would like to set this meeting for either Wednesday or Thursday of this week.

If you have any questions please feel free to call or send back an e-mail. I am usually in this office on Mondays from 8:30 AM to 4:30 PM EDT. Otherwise, I am available at 517-676-7023.

Tim Brock

Timothy J. Brock, PE  
Wolverine Gas and Oil Corporation  
One Riverfront Plaza, 55 Campau NW  
Grand Rapids, Michigan 49503  
Phone: (616) 458-1150  
Fax: (616) 458-0869

**CC:** "Richard Moritz" <rmoritz@wolvgas.com>, "Pat Clark (E-mail)" <PATCLARK@WYOMING.COM>, "Mark S. Dolar (E-mail)" <dolarenergy@yahoo.com>

**SALINA CANYON MOUTH**

		FEET			
TERTIARY	Alluvium, colluvium, lake beds	0-300			
	Osiris Tuff	0-350		23 m.y. volcanoclastic ss	
	Fm of Black Cap Mtn	0-600			
	Tuff of Albinus Canyon ?	0-250		25 m.y.	
	Three Creeks Tuff Mbr	0-30		27 m.y.	
	Unnamed ss, cg, mudstone	0-100		30 m.y. tuffaceous ss	
	Formation of Aurora	0-1400		bentonitic 39 m.y. formerly Bald Knoll Fm	
	Crazy Hollow Formation	500-1000		red & pink mudstone salt & pepper ss pale yellow algal ls	
	Green River Fm	Upper member	730		44 m.y. K-Ar on tuffs
		Lower member	430		green shale
Colton Formation	100-530		red mudstone		
Flagstaff Limestone	0-100		ss, cg, ls, mudstone		
CRETACEOUS	North Horn Formation	0-1500		STRATA BELOW THE NORTH HORN FM ARE STEEPLY TILTED	
	Indianola Group	Sixmile Canyon Formation (not exposed in Salina Canyon) (fluvial sandstone & siltstone in upward-fining cycles)	4500	Names of equivalent units on east side of Wasatch Plateau	
				Castlegate Ss*	
				Blackhawk Fm*	
				Upper Blue Gate Sh* (formerly Masuk Sh)	
				Emery Ss*	
	Funk Valley Formation (only lower third exposed in Salina Canyon) (marine shale and near-shore sandstone)	2400	Lower Blue Gate Sh* <i>Iucetanus</i>		
			Ferron Ss*		
			<i>Collignoniceras</i>		
			Tununk Shale*		
Allen Valley Shale	900		Dakota Ss*		
Sanpete Formation	1200				
Cedar Mountain Fm	850		90-96 m.y. FT zircon from bentonite bed		
JURASSIC	Twist Gulch Fm	Summerville equiv?	10	yellow ss	
		Curtis Fm equiv	200		
	Arapien Shale	Entrada Ss equivalent	1700	reddish-brown siltstone mudstone & sandstone	
		Unit E	400	salt-bearing shale	
		Unit D	3000	gypsiferous shale mudstone & sandstone	
Unit C	1000	gypsum			
Units A & B	400	equivalent to Leeds Creek Mbr. Twin Creek Ls			
Mz	Subsurface Mesozoic strata	3300 +	pre-Arapien strata likely nearly horizontal		
Pz	Subsurface Paleozoic strata	3400 +			

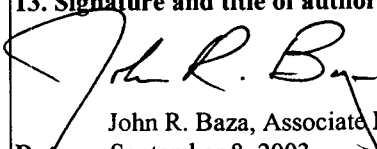
PRINCIPAL REFERENCE--Willis, 1986; TERTIARY--Weiss, 1982; Sperry, 1980; CRETACEOUS--Lawton, 1982; Fouch et al, 1982; Spieker, 1949; JURASSIC--Imlay, 1980; Standlee, 1982; STRUCTURE--Witkind & Page, 1982; Stokes, 1982; Lawton, 1985; Hardy, 1952.

**UPPER SALINA CANYON I-70**

		FEET			
EO	Alluvium and colluvium	0-100			
	Green River Formation	1000 +		white green	
PALEOCE	Colton Formation	500		red	
	Flagstaff Limestone	300-1000		fresh-water ls	
	North Horn Formation	900-1200		red and gray mudstone, ss. prone to slumping	
CRETACEOUS	Mesa-verde Group	Price River Fm	700		
		Castlegate Sandstone	210-240		
		Blackhawk Formation	800-900		coal
		Star Point Sandstone	400		
	Mancos Shale	Upper Blue Gate Shale Member	500		formerly Masuk Sh M
		Emery Ss Member	1200		coal
		Lower Blue Gate Shale Member	1500		<i>Iucetanus</i>
		Ferron Ss Member	720		coal
	Tununk Shale Member	940		<i>Iucetanus</i>	
	Dakota Sandstone	100			
Cedar Mountain Fm	300				
JURASSIC	Morrison Fm	400			
	Summerville Fm	600			
	Curtis Formation	190			
	Entrada Sandstone	1000		silty redbeds Twist Gulch equivalent	
	Arapien Shale	1100		salt & gypsum Arapien is equivalent to upper 2 members of Imlay's Twin Creek Ls As used here the Twin Creek includes Imlay's lower 5 members	
	Twin Creek Limestone	550			
	Navajo Sandstone	900			
	Kayenta Formation	120			
	Wingate Sandstone	330			
	TRIASSIC	Chinle Fm	Upper member	200	bentonitic
Moss Back Ss M			60		
Moenkopi Formation	Upper member	1200			
	Sinbad Ls Mbr	270			
	Black Dragon Mbr	250			
PERM	Kaibab Fm	Harrisburg Mbr	150	Plympton Fm equivalent	
		Fossil Mtn Mbr	110	Black Box Dolo equivalent	
M	Pakoon Dolomite	800 +			
M	Redwall Limestone	800 +			
D	Undivided Devonian ls, dolomite, & ss	600 +			
CAMB	Undivided Cambrian dolomite, limestone shale & quartzite	1500 +			

EXPOSED TERTIARY & CRETACEOUS--Bachman, 1959; Baughman, 1959; Doelling, 1972; Stanley & Collinson, 1979; Spieker & Baker, 1928; SUBSURFACE--Phillips Petroleum No. 1 United States D well log as interpreted by J. L. Baer and J. E. Welsh.

**STATE ACTIONS**  
**Governor's Office of Planning and Budget**  
**Resource Development Coordinating Committee**  
P.O. Box 145610  
1594 W. North Temple, Suite 3710  
SLC, UT 84114-5610  
538-5535

<b>1. Administering State Agency</b> Oil, Gas and Mining 1594 West North Temple, Suite 1210 Salt Lake City, UT 84114-5801	<b>2. Approximate date project will start:</b>  Upon Approval or November 1, 2003
<b>3. Areawide clearinghouse(s) receiving state action:</b> (to be sent out by agency in block 1)  Six County Association of Governments	
<b>4. Type of action:</b> // Lease /X/ Permit // License // Land Acquisition  // Land Sale // Land Exchange // Other _____	
<b>5. Title of proposed action:</b>  Application for Permit to Drill	
<b>6. Description:</b>  Wolverine Gas and Oil Corporation proposes to drill the Kings Meadow Ranches 17-1 well (wildcat) on Fee lease , Sevier County, Utah. This action is being presented to the RDCC for consideration of resource issues affecting state interests. The Division of Oil, Gas and Mining is the primary administrative agency in this action and must issue approval before operations commence.	
<b>7. Land affected (site location map required) (indicate county) – include UTM coordinates where possible</b> 2000' FWL 2040' FNL SE/4, NW/4, Section 17, Township 23 South, Range 01 West, Sevier County, Utah	
<b>8. Jordan River Natural Areas Forum review – If the proposed action affects lands within the Jordan River Natural Areas Corridor.</b> N/A	
<b>9. Has the local government(s) been contacted?</b> No If yes, a. How was contact made? b. Who was contacted? c. What was the response? d. If no response, how is the local government(s) likely to be impacted?	
<b>10. Possible significant impacts likely to occur:</b>  Degree of impact is based on the discovery of oil or gas in commercial quantities.	
<b>11. Name and phone of district representative from your agency near project site, if applicable:</b> N/A	
<b>12. For further information, contact:</b>  Diana Mason Phone: (801) 538-5312	<b>13. Signature and title of authorized officer</b>  John R. Baza, Associate Director Date: September 8, 2003

Division of Oil, Gas and Mining  
PHONE CONVERSATION DOCUMENTATION FORM

Route original/copy to:

Well File \_\_\_\_\_  
Kings Meadows Ranches 17-1  
(Loc.) Sec 17 Twp 23S Rng. 1W  
(API No.) 43-041-30030

Suspense \_\_\_\_\_  
(Return Date) \_\_\_\_\_  
 Other \_\_\_\_\_  
(To-Initials) \_\_\_\_\_

1. Date of Phone Call: 10/8/03 Time: 9:30

2. DOGM Employee (name) J. Cordova ( Initiated Call)  
Talked to:  
Name Norma Dastrip ( Initiated Call) - Phone No. (435) 896-5206  
of (Company/Organization) Kings Meadows Ranches Inc (Surf. Owner)

3. Topic of Conversation: Presite on 10/9/03 10:30 a.m.

4. Highlights of Conversation:  
Norma & Mack Dastrip  
↳ Evan Dastrip (Macks brother, Ken's father)  
↳ Ken Dastrip (son)

\* All are aware of presite date, will probably not be able to attend. Will notify DoSim if they have any special concerns however none at this time.

004



**State of Utah**  
 DEPARTMENT OF NATURAL RESOURCES  
 DIVISION OF WATER RIGHTS

Michael O. Leavitt  
 Governor

Robert L. Morgan  
 Executive Director

Jerry D. Olds  
 State Engineer

Southern Area  
 130 North Main Street  
 PO Box 563  
 Richfield, Utah 84701-0563  
 (435) 886-4429 telephone  
 (435) 883-8114 fax  
 www.nr.utah.gov

October 9, 2003

A

Sevier Valley Canal Company  
 c/o Mark S. Dolar  
 935 East South Union Avenue, Suite D - 202  
 Midvale, UT 84047-2393

RE: TEMPORARY CHANGE APPLICATION  
 128334

Dear Sir:

The above numbered Temporary Change Application has been approved subject to prior rights and the following condition:

Review has been made of the proposed temporary change and the underlying right. The historic use of water for irrigation diverted 14.0 acre-feet (3 ac-ft per acre x 4.667 acre) of which about 78.7(11.01 ac ft) would have been consumed (Consumptive Use of Irrigated Crops. Research Report 145) (NWS Station at Circleville). The proposed construction use would consume 100%. This would result in enlarged depletion. Therefore, the proposed construction use is limited to a diversion of 11.01 acre-feet.

Copies are herewith returned to you for your records and future reference.

Sincerely,

Kirk Forbush, P.E.  
 Regional Engineer  
 for Jerry Olds, State Engineer

JO **Utah!**  
 enclosure

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OCT 15 2003

DIV. OF OIL, GAS & MINING



# APPLICATION FOR TEMPORARY CHANGE OF WATER

DIVISION OF WATER RIGHTS

Rec. by \_\_\_\_\_

OCT 9 2003

Fee Paid \$ \_\_\_\_\_

Receipt # 03-04536

STATE OF UTAH RICHFIELD AREA

Microfilmed \_\_\_\_\_

OK # 2809

Roll # \_\_\_\_\_

For the purpose of obtaining permission to make a temporary change of water in the State of Utah, application is hereby made to the State Engineer, based upon the following showing of facts, submitted in accordance with the requirements of Section 73-3-3 Utah Code Annotated 1953, as amended.

\*WATER RIGHT NO. \_\_\_\_\_ \*APPLICATION NO. 1

Changes are proposed in (check those applicable)

point of diversion.  place of use.  nature of use.  period of use.

1. OWNER INFORMATION

Name: Sevier Valley Canal Company \*Interest: \_\_\_\_\_%

Address: P.O. Box 245

City: Richfield State: Utah Zip Code: 84701

2. \*PRIORITY OF CHANGE: \_\_\_\_\_ \*FILING DATE: \_\_\_\_\_

3. RIGHT EVIDENCED BY: A portion 103-2812

Prior Approved Temporary Change Applications for this right: \_\_\_\_\_

\*\*\*\*\* HERETOFORE \*\*\*\*\*

4. QUANTITY OF WATER: \_\_\_\_\_ cfs and/or 14 ac-ft.

5. SOURCE: Sevier River

6. COUNTY: Sevier

7. POINT(S) OF DIVERSION: ± 1261', E 1444' from NW Cor. Sec 27, T27S R4W S38M

Description of Diverting Works: SEVIER VALLEY CANAL

8. POINT(S) OF REDIVERSION

The water has been rediverted from \_\_\_\_\_ at a point: \_\_\_\_\_

Description of Diverting Works: \_\_\_\_\_

9. POINT(S) OF RETURN

The amount of water consumed is \_\_\_\_\_ cfs or \_\_\_\_\_ ac-ft.

The amount of water returned is \_\_\_\_\_ cfs or \_\_\_\_\_ ac-ft.

The water has been returned to the natural stream/source at a point(s): \_\_\_\_\_

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OCT 15 2003

\*These items are to be completed by the Division of Water Rights.

DIV. OF OIL, GAS & MINING

Temporary Change

20. NATURE AND PERIOD OF USE

Irrigation: From \_\_\_/\_\_\_/\_\_\_ to \_\_\_/\_\_\_/\_\_\_  
 Stockwatering: From \_\_\_/\_\_\_/\_\_\_ to \_\_\_/\_\_\_/\_\_\_  
 Domestic: From \_\_\_/\_\_\_/\_\_\_ to \_\_\_/\_\_\_/\_\_\_  
 Municipal: From \_\_\_/\_\_\_/\_\_\_ to \_\_\_/\_\_\_/\_\_\_  
 Mining: From \_\_\_/\_\_\_/\_\_\_ to \_\_\_/\_\_\_/\_\_\_  
 Power: From \_\_\_/\_\_\_/\_\_\_ to \_\_\_/\_\_\_/\_\_\_  
 Other: From 10/ /03 to 10/02/04

21. PURPOSE AND EXTENT OF USE

Irrigation: \_\_\_\_\_ acres. Sole supply of \_\_\_\_\_ acres.  
 Stockwatering (number and kind): \_\_\_\_\_  
 Domestic: \_\_\_\_\_ Families and/or \_\_\_\_\_ Persons.  
 Municipal (name): \_\_\_\_\_  
 Mining: \_\_\_\_\_ Mining District at the \_\_\_\_\_ Mine.  
 Ores mined: \_\_\_\_\_  
 Power: Plant name: \_\_\_\_\_ Type: \_\_\_\_\_ Capacity: \_\_\_\_\_  
 Other (describe): USE WATER FOR GAS WELL DRILLING

22. PLACE OF USE

Legal description of place of use by 40 acre tract(s): E 1/2 NW 1/4 Cor. Sec. 17, T23S R1W S14M

23. STORAGE


Reservoir Name: \_\_\_\_\_ Storage Period: from \_\_\_\_\_ to \_\_\_\_\_  
 Capacity: \_\_\_\_\_ ac-ft. Inundated Area: \_\_\_\_\_ acres.  
 Height of dam: \_\_\_\_\_ feet.  
 Legal description of inundated area by 40 tract(s): \_\_\_\_\_

24. EXPLANATORY

The following is set forth to define more clearly the full purpose of this application. Include any supplemental water rights used for the same purpose. (Use additional pages of same size if necessary): 201-561-3121

RICK PORTER (896-8633) (201-9760) / MARK S. DOLAR  
 15 NORTH MAIN 935 East South Union Ave.  
 CENTRAL VALLEY 84754 SUITE D-207  
 MIDVALE, UT 84047-2393

The undersigned hereby acknowledges that even though he/she/they may have been assisted in the preparation of the above-numbered application through the courtesy of the employees of the Division of Water Rights, all responsibility for the accuracy of the information contained herein, at the time of filing, rests with the applicant(s).

  
 Signature of Applicant(s)

10. NATURE AND PERIOD OF USE

Irrigation: From April to Oct 15  
 Stockwatering: From \_\_\_\_\_ to \_\_\_\_\_  
 Domestic: From \_\_\_\_\_ to \_\_\_\_\_  
 Municipal: From \_\_\_\_\_ to \_\_\_\_\_  
 Mining: From \_\_\_\_\_ to \_\_\_\_\_  
 Power: From \_\_\_\_\_ to \_\_\_\_\_  
 Other: From \_\_\_\_\_ to \_\_\_\_\_

11. PURPOSE AND EXTENT OF USE

Irrigation: 4.627 acres. Sole supply of \_\_\_\_\_ acres.  
 Stockwatering (number and kind): \_\_\_\_\_  
 Domestic: \_\_\_\_\_ Families and/or \_\_\_\_\_ Persons.  
 Municipal (name): \_\_\_\_\_  
 Mining: \_\_\_\_\_ Mining District in the \_\_\_\_\_ Mine.  
 Ores mined: \_\_\_\_\_  
 Power: Plant name: \_\_\_\_\_ Type: \_\_\_\_\_ Capacity: \_\_\_\_\_  
 Other (describe): \_\_\_\_\_

12. PLACE OF USE

Legal description of place of use by 40 acre tract(s): SEC 15, T24S, R3W SUBM

13. STORAGE

Reservoir Name: \_\_\_\_\_ Storage Period: from \_\_\_\_\_ to \_\_\_\_\_  
 Capacity: \_\_\_\_\_ ac-ft. Inundated Area: \_\_\_\_\_ acres.  
 Height of dam: \_\_\_\_\_ feet.  
 Legal description of inundated area by 40 tract(s): \_\_\_\_\_

\*\*\*\*\* THE FOLLOWING CHANGES ARE PROPOSED \*\*\*\*\*

14. QUANTITY OF WATER: \_\_\_\_\_ cfs and/or 14 ac-ft.

15. SOURCE: Kings Meadow Creek

Balance of the water will be abandoned: \_\_\_\_\_, or will be used as heretofore: \_\_\_\_\_

16. COUNTY: SEVIER

17. POINT(S) OF DIVERSION: South 2100 ft. & West 1400 ft. from NE Corner of Section 20, T23S, R1W SUBM

Description of Diverting Works: Kings Meadow Reservoir Creek  
 COMMON DESCRIPTION: 3.5 miles SE of Sigurd

18. POINT(S) OF REDIVERSION

The water will be rediverted from \_\_\_\_\_ at a point: \_\_\_\_\_

Description of Diverting Works: \_\_\_\_\_

19. POINT(S) OF RETURN

The amount of water to be consumed is \_\_\_\_\_ cfs or \_\_\_\_\_ ac-ft.

The amount of water to be returned is \_\_\_\_\_ cfs or \_\_\_\_\_ ac-ft.

The water will be returned to the natural stream/source at a point(s): \_\_\_\_\_

## TERMINATION OF OPTION

## KNOW BY THESE PRESENTS:

That certain "Option" dated May 8, 2001, by and between Kings Meadow Ranch, Inc. as Sellers, and T.D.A. Foundation, as Buyer, Recorded in Book 410, at Page 535, Sevier County Records Office has terminated under its own terms and conditions.

The property described in the "Option" was located in Sevier County, Utah, to-wit:

- 4-182-1: BEG AT NE CORN SEC 18 TP 23 S R 1 W SLM S 420 FT S 900 FT W 820 FT N 1320 FT E 1320 FT TO BEG AREA 29.67 ACRES .
- 4-181-5: BEG AT NW COR SEC 17 TP 23 S R 1 W SKN S 420 FT E 275 FT S 12105'40"E 920.50 FT W 367.48 FT S 1320 FT E 2640 FT N 2640 FT W 2640 FT TO BEG AREA 153.36 AC LESS CO RD.
- 4-179-3: THE E $\frac{1}{2}$  OF NE 14 AND E $\frac{1}{2}$  OF SE $\frac{1}{4}$  OF SEC 7, T23 S, R 1 W, SLMER AREA 160.00 ACRES. TRACT 1.
- 4-179-4: W $\frac{1}{4}$  OF W $\frac{1}{2}$  OF SEC 8 TP 23 S R 1 W SLM AREA 150.34 AC LESS 9.66 AC DEDDED TO ST ROAD & LESS 4.26 AC TO SEVIER CO AREA 146.08 ACRES
- 63-3180: WATER RIGHT #

Signed this 15 day of October, 2003.

Kings Meadow Ranches, Inc.

Mack T. Dastrup

Mack T. Dastrup

Its: President

CORPORATE NOTARY

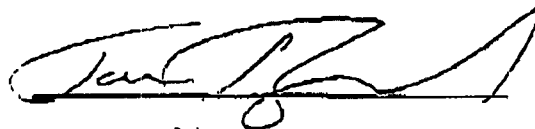
STATE OF UTAH )  
COUNTY OF SEVIER ) ss.

BEFORE ME, the undersigned authority, on this day personally appeared Mack T. Dastrup known to me to be the person whose name is subscribed to the foregoing instrument as the President of Kings Meadow Ranches, Inc. and acknowledged to me that he executed the same for the purposes and consideration therein expressed, in the capacity stated, and as the act and deed of said corporation.

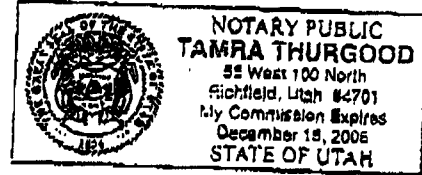
GIVEN UNDER MY HAND AND SEAL OF OFFICE THIS 15 day of Oct, 2003.

My commission expires:

12/15/06



Notary Public





# DOLAR ENERGY L.L.C.

Phone: (801) 561-3121  
Fax: (801) 561-3133

935 East South Union Avenue  
Suite D-202  
Midvale, UT 84047-2393

## FACSIMILE TRANSMITTAL COVER SHEET

TO: LCSM Cardova

FACSIMILE NUMBER: 359-3940

FROM: Mark S. Dolar

DATE: 10/15, 2003 TIME SENT: 11:25

NUMBER OF PAGES: 6 (Including cover sheet)

MESSAGE: Wolverine 17-1 well:

1) Water Rights permit

2) Termination of T.D.A. agreement

If documents described above are not properly received, please call (801) 561-3121. Our fax number is (801) 561-3133

RECEIVED

OCT 15 2003

DIV. OF OIL, GAS & MINING

## Drilling Plan Wolverine Gas & Oil Corp.

### Kings Meadow Ranch #17-1

1. Estimated Formation Tops (Depth from Surface):

Arapien	Surface
Carmel	5340'
Twin Creek	7059'
Navajo	7463'
Kayenta	8877'
Total Depth	9720'

2. The mud program for the well will be:

Air/Air mist	surface – 700'
Saturated KCL mud	700' – 7480'
LSND w/ air	7480 – 9720'

3. Estimated depth at which oil, gas, water or other mineral bearing zones are expected to be encountered are 7480' – 8900'.

4. The primary objective of this well is to log and test the potential of the Navajo Formation at the depth of 7480'. All shows of fresh water, oil and gas will be reported and protected. The well will be drilled using the following programs:

<u>Hole Size</u>	<u>Casing Size</u>	<u>Depth</u>	<u>Cement</u>
17½"	13-3/8"	700'	830 sks
12¼"	9-5/8"	7480'	400 sks
7-7/8"	5½"	9720'	425 sks

5. R649-3-7 BOP Equipment:

- A. 5,000 psi WP Double Gate Blowout Preventer with Annular Preventer (schematic diagram attached fig. 3) will be used.
- B. BOPE will be pressure tested upon installation, whenever a seal subject to test pressure is broken or repairs are made; and at least once every 30 days.
- C. Ram-type preventers and related pressure control equipment will be pressure tested to the rated working pressure of the stack assembly if a test plug is used. If a test plug is not used, the stack assembly will be tested to the rated working pressure of the stack assembly or to 70% of the minimum internal yield pressure of the casing, which ever is less.

D. Annular-type preventers will be pressure tested to 50% of rated working pressure.

6. Casing Program:

Pursuant to R649-3-8 of the Conservation Rules, the cementing of casing shall be pump and plug method.

	Setting Depth	Hole Size	Casing O.D.	Grade	Weight/Ft.
Surface	700'	17½"	13-3/8"	K-55	54.5#
Intermediate	7480'	12¼"	9-5/8"	S-95	53.5#
Production	9720'	7-7/8"	5½"	L-80	17#

7. Cement Program:

Surface Casing 0 – 700' – 830 sks Class "H" w/ additives

Cement Characteristics: Yield – 1.18 cu ft per sk  
Slurry Weight = 15.8 ppg  
Compressive strength = 3385 psi/24 hr. @ 80°F

Intermediate Casing 0 – 7480' – 400 sks Class "H" w/ additives

Cement Characteristics: Yield – 1.18 cu ft per sk  
Slurry Weight = 15.8 ppg  
Compressive strength = 3385 psi/24 hr. @ 80°F

Production Liner 7200' – 9720' – 425 sks 50:50 Pozmix w/ additives

Cement Characteristics: Yield – 1.26 cu ft per sk  
Slurry Weight = 14.2 ppg  
Compressive strength = 1125 psi/24 hr. @ 140°F

Actual cement volumes will be based on caliper log calculations and drilling experience. The objective will be to bring the cement to 6,500' for drilling purposes and then into surface casing should the well become a producer. The production liner will be cemented from TD to top of liner hanger.

All casing strings will be pressure tested to 0.22 psi/ft or 1500 psi, whichever is greater prior to drilling plug after cementing. Test pressure not to exceed 40% of the internal yield pressure of the casing.



**Wolverine Gas & Oil Corp.  
Kings Meadow Ranch #17-1**

8. Pursuant to R649-3-12, hydrogen sulfide is not expected to be encountered while drilling this well.
  
9. Upon completion of the drilling and testing of the well, should the well not contain commercial hydrocarbon, the well will be plugged and abandoned pursuant to R649-3-24, and the surface will be restored pursuant to R649-3-34. Anticipated plan for plugging includes cutting and removal of the 9-5/8" casing, setting a 100' cement plug in and out of the casing stub, and spotting a 100' plug from 750' – 650' in and out of the bottom of the surface casing. The surface casing will then be cut off and plugged at the top of the stub. All cement will be with class "G" cement.

## **SURFACE USE PLAN WOLVERINE GAS AND OIL CORPORATION**

### **KINGS MEADOW RANCH #17-1**

1. A vicinity map Topo "A" indicates location of the well site. Access to the well pad will be obtained by traveling 0.7 miles in a westerly direction from Salina, Utah along U.S. 50 to the junction of U.S. highway 89. Exit left and proceed in a southwesterly direction for approximately 8.2 miles to the junction of state highway 24. Turn left and travel through the town of Sigurd, Utah and south on 24 for approximately five and four tenths (5.4) miles between mile markers #13 and #14 to the proposed access road. Access to the location will be following the flags in a southeasterly direction 400'. Surface Use Agreement with Wolverine for the well pad and access to the well is attached and labeled as exhibit "1".
2. The reserve pit for waste mud and drill cuttings will be located on the south side of the well site plan. The pit will be 100 feet X 150 feet and will be 10 feet deep. Volume of the pit is 26,000 barrels. The pit will be lined and will be evaporated prior to reclamation. Rules pursuant to R649-3-16 will be followed regarding the reserve pit.
3. Pursuant to R649-3-14, all rubbish and debris shall be kept in containers on the well site, and will be hauled to an approved disposal site upon completion of drilling and completion operations.

### **SOURCE OF WATER**

1. Water for drilling the Kings Meadow Ranch #17-1 will be purchased from Rich Porter or from water wells drilled on location pending the air drilling of the surface hole. Water for drilling will be hauled to location and stored in storage tanks on the drill site. Wastewater will not be discharged on the surface at this site, and the drilling of the well will not require a wastewater management plan.
2. In addition, after air drilling the 700' surface hole, ground water will be evaluated and a water well will be permitted and drilled on site.

**OPERATOR'S REPRESENTATIVE**

Vince Guinn  
Brandywine Operating, L.L.C.  
869 N. Canyon View Dr. #416-16  
Roosevelt, UT 84066  
Office - 435-722-8324  
Fax - 435-722-8323  
Cell - 435-722-6604

1 each 13-5/8" – 5,000 psi Shaffer SPH annular BOP S/N 1493 with studded top and flanged bottom, H2S trim, API gasket BX 160.

1 each 13-5/8" – 5,000 psi Shaffer type L.W.S. double gate BOP S/N 1466 with 4-1/16" outlets, studded top and bottom, H2S trim, API gasket BX 160.

1 each 13-5/8" ID x 25"H, 5,000 psi drilling spool with 4-1/16" flanged outlets, H2S trim, API gaskets 13-5/8" BX 160 and 4-1/16" RX 39 (Stainless armored hose sets for BOP's in cellar).

### **BOP Accumulator**

On rig floor, model # MGBK5EH Serial # 7903.

### **BOP Closing Unit**

Stewart & Stevenson Koomey Model T20160-3S blowout preventer control unit with 280 gallon volume tank, main energy provided by a 20 HP electric motor driven triplex plunger pump charging (16 each) 11-gallon bladder type separate accumulator bottles. Second energy system consists of two (2) air pumps. The above two systems are back up by (4 each) 220 cubic feet nitrogen bottles connected to the manifold system. The unit is controlled by a Model SU2KB5S series manifold with five (5) manual control stations at the unit.

### **Choke Manifold**

2-1/16" CIWS 5,000 psi WP.

1 each OCT manual adjustable choke.

1 each 2" 10,000 psi pressure gauge.

### **Mud Mix Pump**

Mud mixing hopper rated 700 GPM.

### **Crown Block**

6-sheave crown with 1 fastline sheave, 400-ton rating.

### **Links & Elevators**

2 each 3-1/2" x 140" elevator links, 350-ton.

2 each 3-1/2" x 108" elevator links, 350-ton.

## Exhibit "1"

**SURFACE DAMAGE AGREEMENT**

This agreement is between Kings Meadow Ranches, Inc., a Utah Corporation, whose address is P. O. Box 570125, Sigurd, UT 84657 and T.D.A. Foundation, whose address is 620 South Main Street, Bountiful, Utah 84047, collectively hereinafter referred to as "Kings Meadow", and Wolverine Gas and Oil Corporation, hereinafter referred to as "Wolverine", whose address is One Riverfront Plaza, Grand Rapids, MI 49503-2616.

The above parties agree to the basic understanding as follows:

1. Wolverine plans to commence drilling operations for the #17-1 well, located in the SE $\frac{1}{4}$ NW $\frac{1}{4}$  of Section 17, Township 23 South, Range 1 West, Sevier County, Utah ("Subject Lands"). Prior to the commencement of any drilling operation Wolverine shall pay Kings Meadow One Thousand Dollars (\$1,000.00) as compensation for damage to the surface for a drill site location not to exceed three acres, and access road to well site. The route for access roads shall be mutually agreed upon by parties herein, and Wolverine shall diligently attempt to avoid irrigated and pasture lands owned by Kings Meadow. In the event roads are abandoned by Wolverine, Kings Meadow shall have the option to take over operations of the roads free of cost, and accept liability and upkeep of the access road.
2. Any and all access roads shall not exceed 30 feet in width (maximum).
3. In the event of a dry hole, drill site and roadways will be restored to their original condition as nearly as practicable within 180 days after plugging date of the well.
4. In the event of production, Wolverine shall have the right to install production equipment, upgrade access roads, lay pipeline, power lines and telephone lines (below plow depth) on the surface of Kings Meadow. Wolverine shall pay an annual rental fee of \$800.00 for use of said surface at well site, and shall pay a one time fee equal to \$8.00 per rod for pipelines, power lines and telephone lines.
5. Firearms, dogs and liquor shall be prohibited from the well location and access roads.
6. All gates (if applicable) shall remain closed during operations by Wolverine and if requested by Kings Meadow, the well site will be fenced.
7. Only Wolverine personnel and authorized contractors performing work for Wolverine will have the combination (or key) to the locked gate and will lock it each time they pass through it.

Page 2  
Surface Damage Agreement

- 8. Unauthorized personnel, contractors, etc. will not be allowed on location or access to location.
- 9. Wolverine will make every reasonable effort to have a company representative on the location at all times during drilling/completion operations.
- 10. This agreement shall be binding upon Wolverine, Kings Meadow and their executors, administrators, successors, and assigns and all contract workers, and shall inure to the benefit of all parties herein.
- 11. This agreement may be executed in counterparts, and each signature shall be binding upon the parties who have executed such counterparts hereto with the same force and effect as if all parties have signed the same document.

Signed this 17<sup>th</sup> day of January, 2003.

**Kings Meadow Ranches, Inc.**

By: [Signature]  
Title: PRESIDENT

**T.D.A. Foundation**

By: \_\_\_\_\_  
Title: \_\_\_\_\_

Signed this 18<sup>th</sup> day of February, 2003.

**Wolverine Gas and Oil Corporation**

By: [Signature]  
Title: Vice President - Legal

**WOLVERINE GAS & OIL CORP.**  
**KINGS MEADOW RANCHES #17-1**  
 LOCATED IN SEVIER COUNTY, UTAH  
 SECTION 17, T23S, R1W, S.L.B.&M.

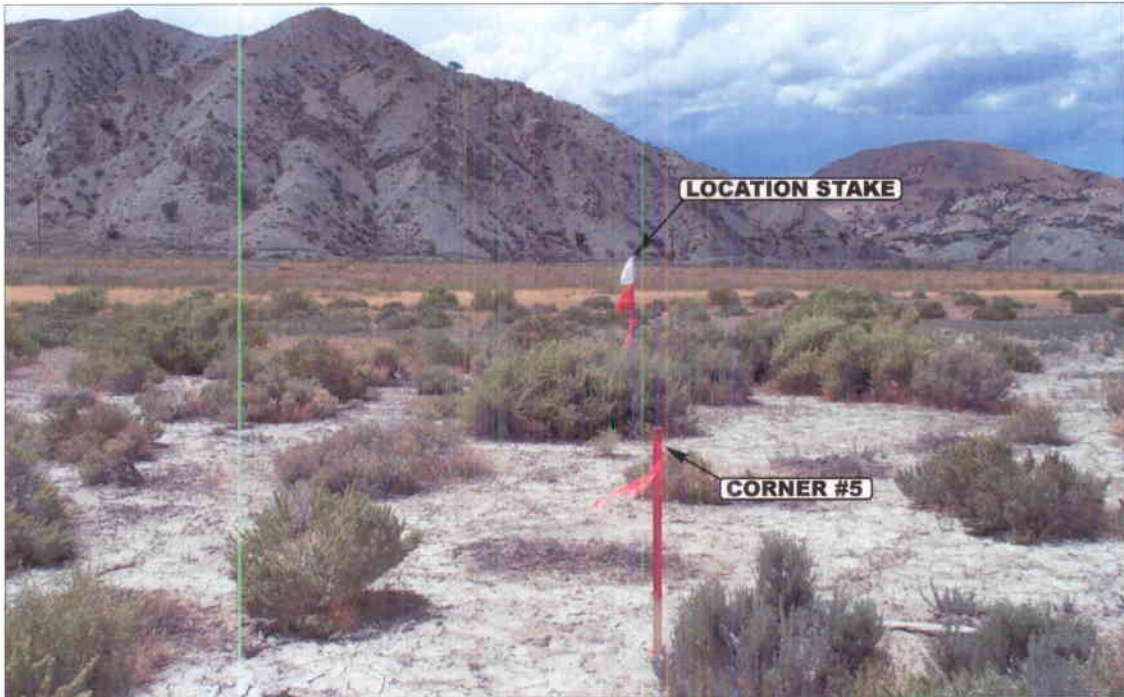


PHOTO: VIEW FROM CORNER #5 TO LOCATION STAKE

CAMERA ANGLE: SOUTHWESTERLY



PHOTO: VIEW FROM BEGINNING OF PROPOSED ACCESS

CAMERA ANGLE: SOUTHEASTERLY



- Since 1964 -

**UELS** Uintah Engineering & Land Surveying  
 85 South 200 East Vernal, Utah 84078  
 435-789-1017 uels@uelsinc.com

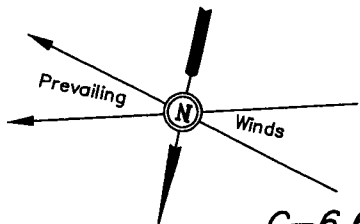
<b>LOCATION PHOTOS</b>			<b>08</b>	<b>29</b>	<b>03</b>	<b>PHOTO</b>
			MONTH	DAY	YEAR	
TAKEN BY: B.B.	DRAWN BY: P.M.	REVISED: 00-00-00				

# WOLVERINE GAS & OIL CORP.

**FIGURE #1**

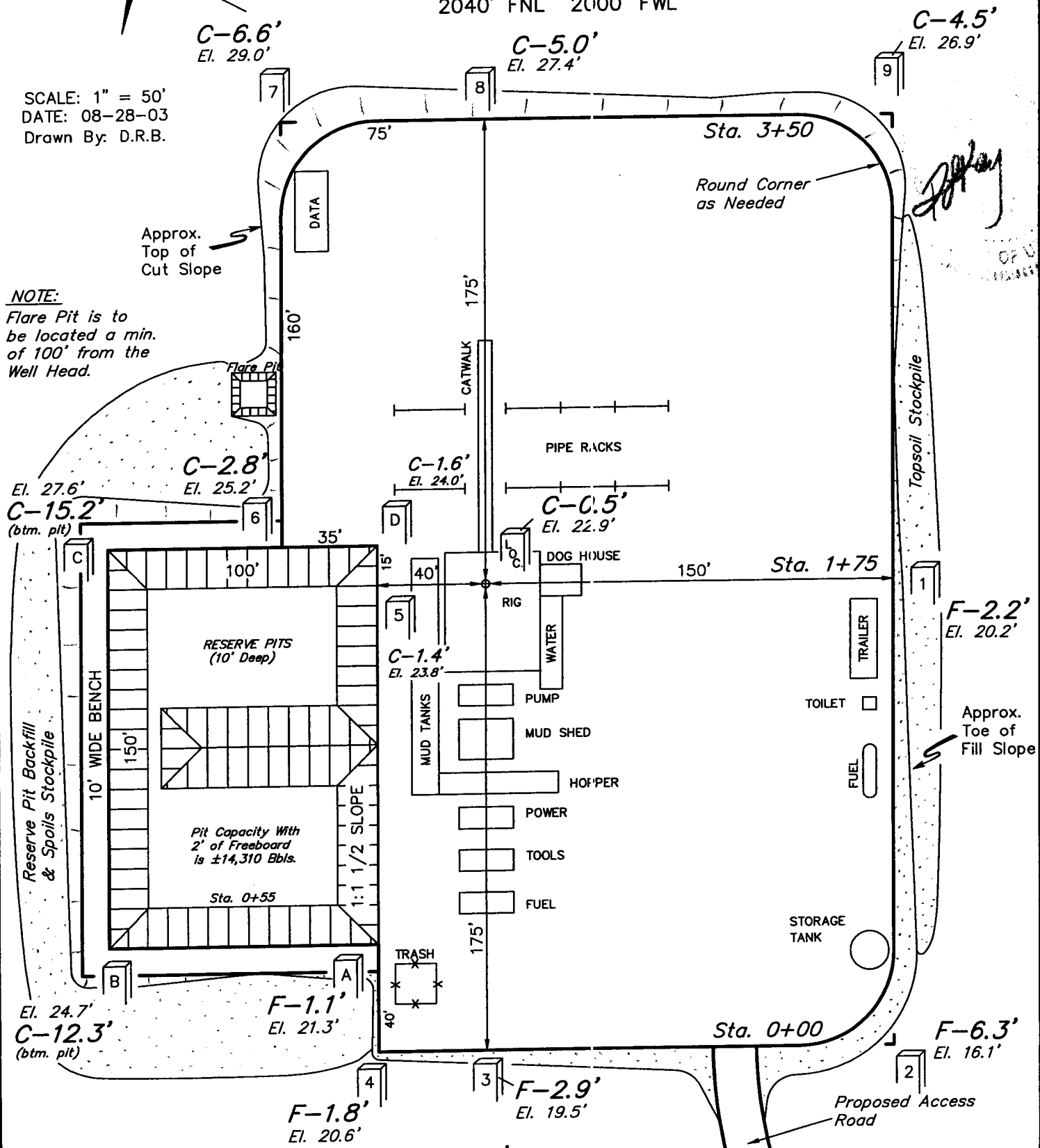
## LOCATION LAYOUT FOR

KINGS MEADOW RANCHES #17-1  
SECTION 17, T23S, R1W, S.L.B.&M.  
2040' FNL 2000' FWL



SCALE: 1" = 50'  
DATE: 08-28-03  
Drawn By: D.R.B.

**NOTE:**  
Flare Pit is to be located a min. of 100' from the Well Head.



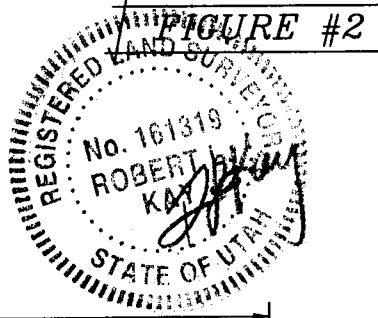
Elev. Ungraded Ground at Location Stake = 5722.9'  
Elev. Graded Ground at Location Stake = 5722.4'



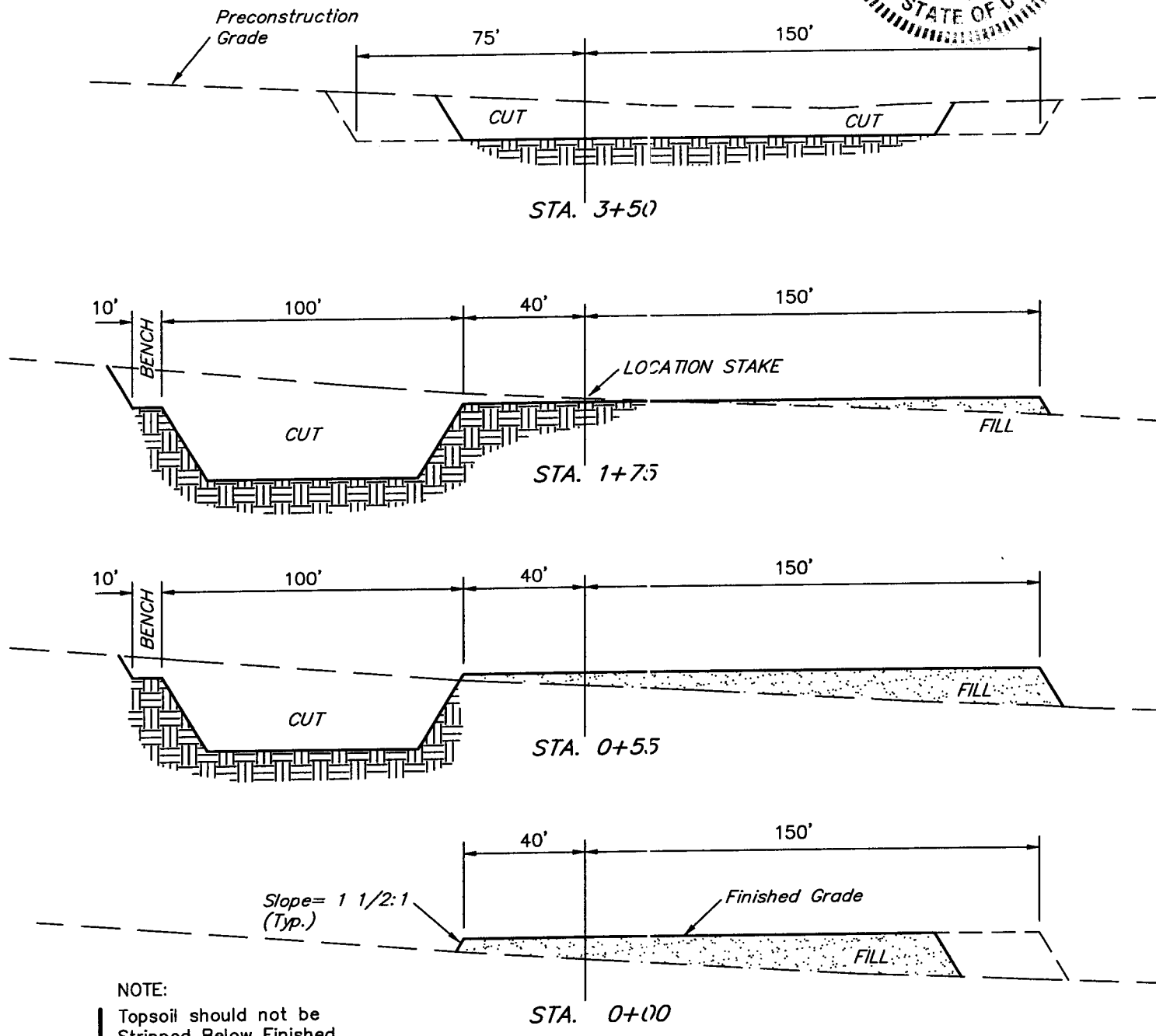
**WOLVERINE GAS & OIL CORP.**

**TYPICAL CROSS SECTIONS FOR**

**KINGS MEADOW RANCHES #17-1  
SECTION 17, T23S, R1W, S.L.B.&M.  
2040' FNL 2000' FWL**



1" = 20'  
X-Section Scale  
1" = 50'

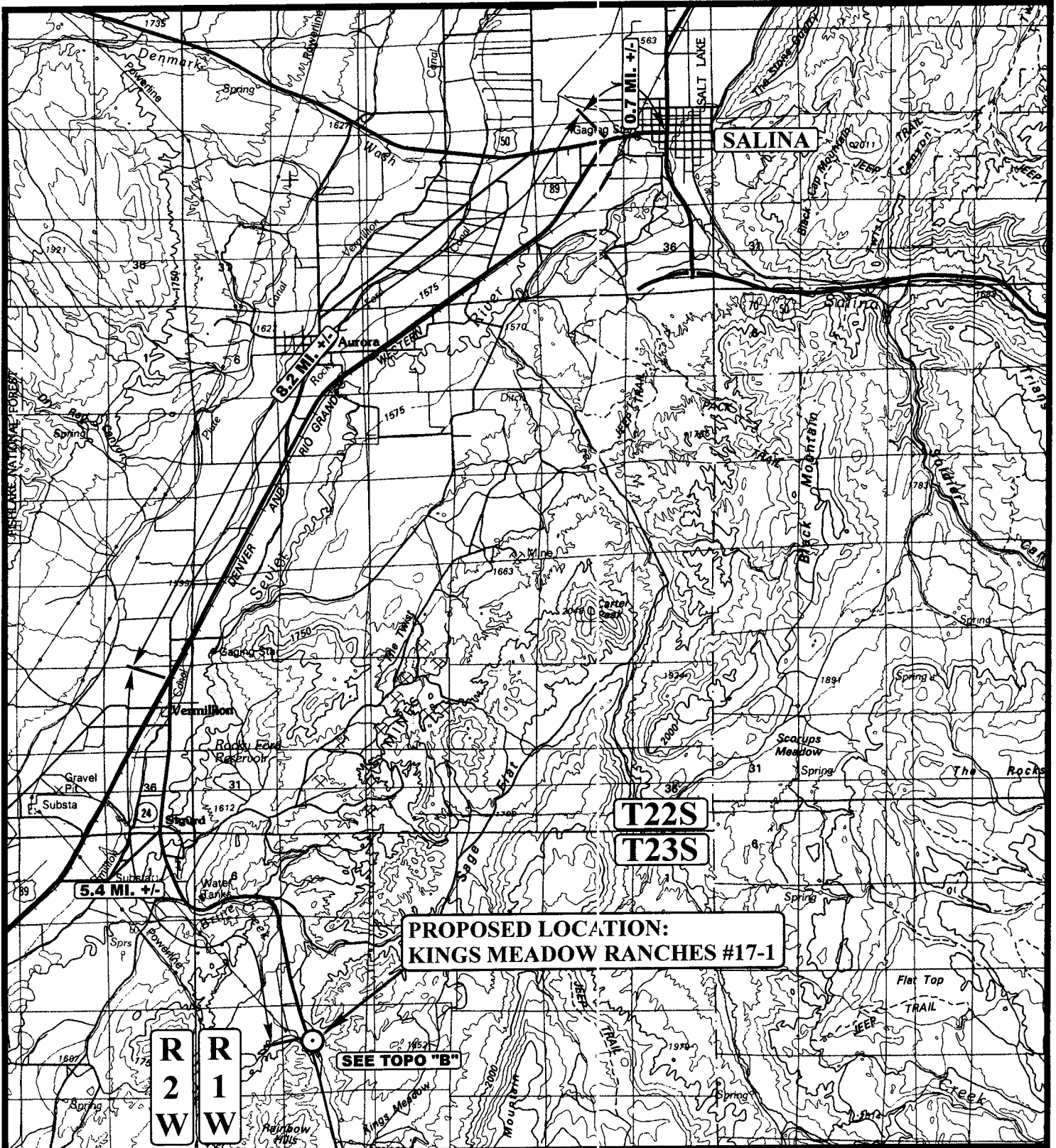


**NOTE:**  
Topsoil should not be Stripped Below Finished Grade on Substructure Area.

**APPROXIMATE YARDAGES**

(6") Topsoil Stripping	=	1,680 Cu. Yds.
Remaining Location	=	7,910 Cu. Yds.
<b>TOTAL CUT</b>	=	<b>9,590 CU.YDS.</b>
<b>FILL</b>	=	<b>4,050 CU.YDS.</b>

EXCESS MATERIAL AFTER 5% COMPACTION	=	5,330 Cu. Yds.
Topsoil & Pit Backfill (1/2 Pit Vol.)	=	3,620 Cu. Yds.
EXCESS UNBALANCE (After Rehabilitation)	=	1,710 Cu. Yds.



**PROPOSED LOCATION:  
KINGS MEADOW RANCHES #17-1**

**R  
2  
W**   **R  
1  
W**

**SEE TOPO "B"**

**T22S**  
**T23S**

**LEGEND:**

○ PROPOSED LOCATION



**WOLVERINE GAS & OIL CORP.**

**KINGS MEADOW RANCHES #17-1  
SECTION 17, T23S, R1W, S.L.B.&M.  
2040' FNL 2000' FWL**



**Utah Engineering & Land Surveying**  
85 South 200 East Vernal, Utah 84078  
(435) 789-1017 \* FAX (435) 789-1813

**TOPOGRAPHIC** 08 29 03  
**MAP** MONTH DAY YEAR  
SCALE: 1:100,000 DRAWN BY: P.M. REVISED: 00-00-00



T23S

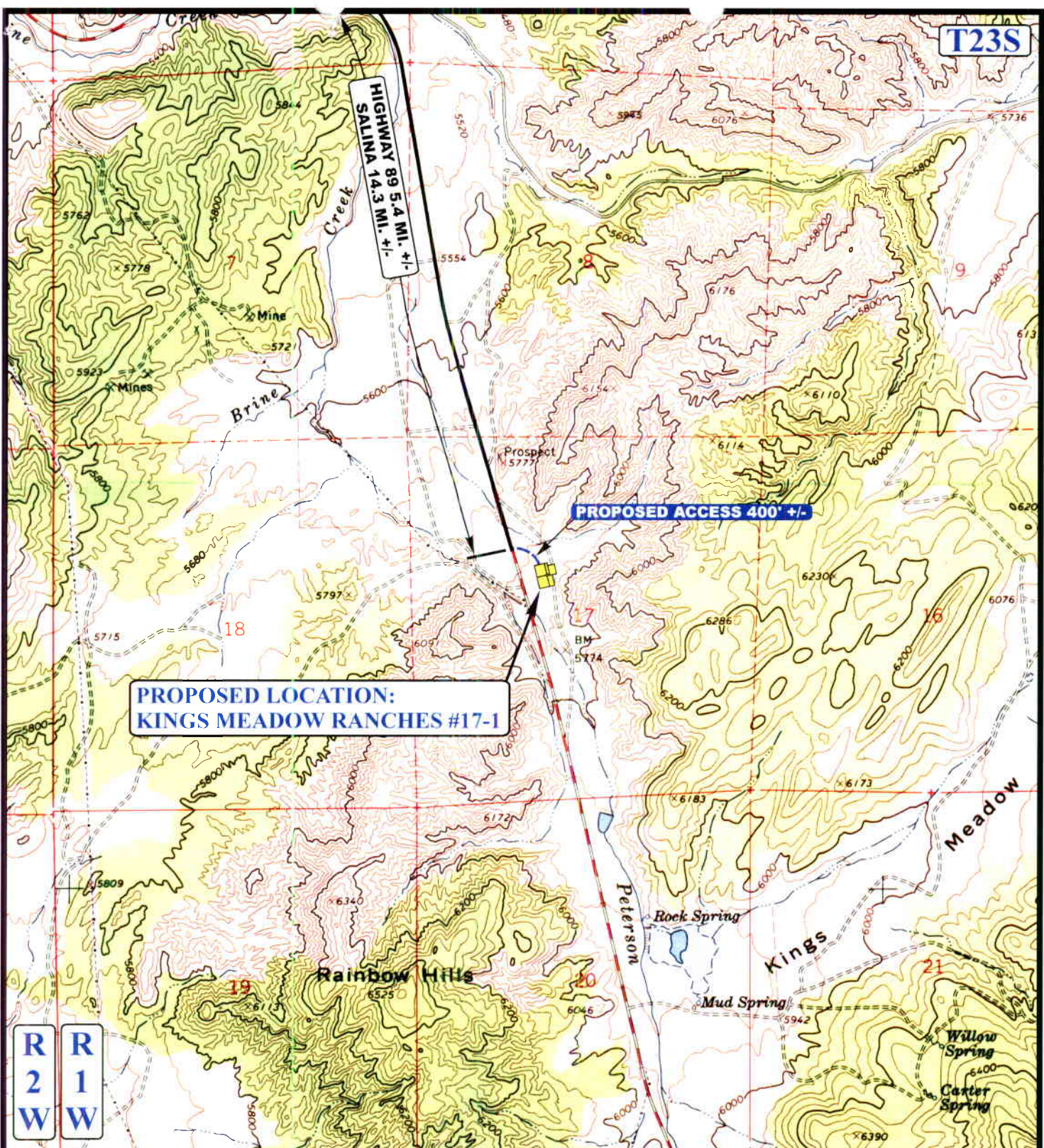
HIGHWAY 89 5.4 MI. +/-  
SALINA 14.3 MI. +/-

PROPOSED ACCESS 400' +/-

PROPOSED LOCATION:  
KINGS MEADOW RANCHES #17-1

R  
2  
W

R  
1  
W



**LEGEND:**

- EXISTING ROAD
- - - PROPOSED ACCESS ROAD



**WOLVERINE GAS & OIL CORP.**

**KINGS MEADOW RANCHES #17-1**  
**SECTION 17, T23S, R1W, S.L.B.&M.**  
**2040' FNL 2000' FWL**



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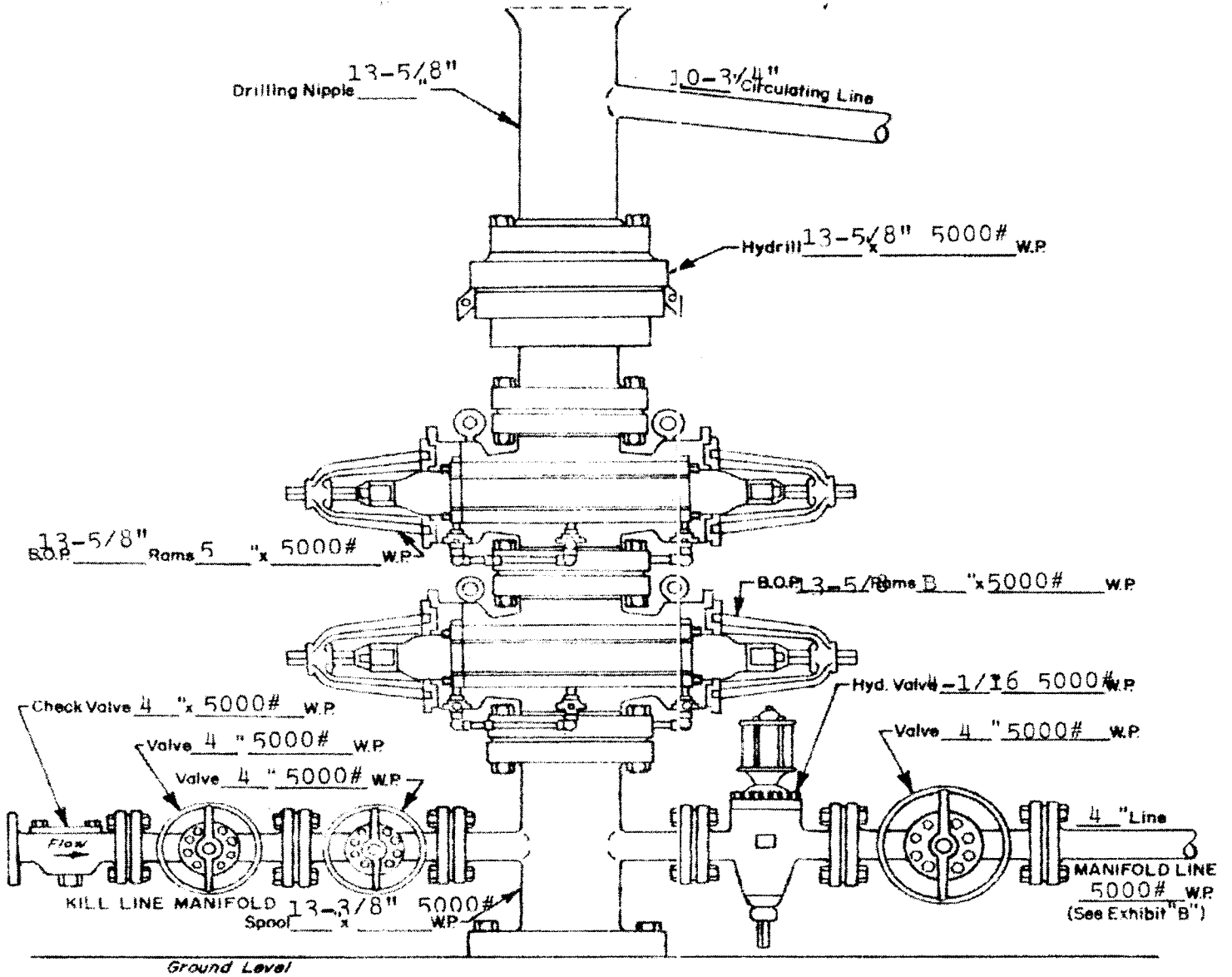
**TOPOGRAPHIC**  
**MAP**

**08 29 03**  
MONTH DAY YEAR

SCALE: 1" = 2000' DRAWN BY: P.M. REVISED: 00-00-00

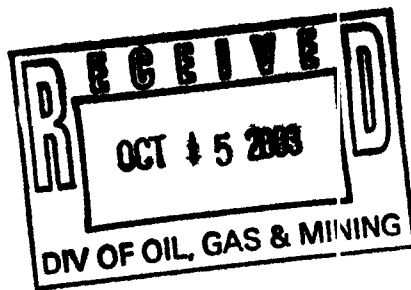


Figure #3



WELL HEAD B.O.P.  
5000# # W.P.

- Manuel
- Hydraulic



**H<sub>2</sub>S Contingency Plan**

for

**KINGS MEADOW RANCHES #17-1**

Township 23S, Range 1W

Section 17

Sevier County, Utah

**Wolverine Gas & Oil of Utah, LLC**  
One Riverfront Plaza  
55 Campau NW  
Grand Rapids, MI 49503

## Table of Contents

	<u>Page</u>
Introduction and directions	3
I. Responsibilities and Duties	4
A. All personnel	4
B. Drilling Foreman	5
C. Rig Supervisor – Toolpusher	6
D. Safety Consultant	6
II. Drilling Rig Layout	7
A. Location	7
III. Safety Procedures	9
A. Training	9
B. Operating Conditions	10
C. Evacuation Plan	10
D. Emergency Rescue Procedures	10
IV. H <sub>2</sub> S Safety Equipment on Drilling Location	11
A. Map of Showing Location of H <sub>2</sub> S Equip.	13
V. Well Ignition Procedures	14
A. Ignition Equipment	14
B. Ignition Procedures	14
VI. Residents - Public in Radius of Exposure	15
A. Map of Area Around Location	16
B. Map of Escape Route	17
VII. Emergency Phone Directory	18
A. Wolverine Gas & Oil Of Utah, LLC	18
B. Emergency Services Phone List	18
VIII. Properties of Gas	19
A. Hydrogen Sulfide	20
B. Sulfur Dioxide	24

## **Introduction**

It is the policy of Wolverine Gas & Oil of Utah, L.L.C to provide a safe and healthful work environment for all of its employees as well as contractors that may work on Wolverine Leases. Wolverine Gas & Oil of Utah, LLC makes a continued effort to comply with laws and regulations relative to worker safety and health, and to manage all operations in a manner to reduce risk.

The following is a H<sub>2</sub>S contingency plan for the Wolverine Kings Meadow Ranches #17-1 well. It is designed for personnel working on this project to follow in case of an accidental release of hydrogen sulfide during drilling and or completion operations. For the plan to be effective, all personnel must review and be familiar with onsite duties as well as the safety equipment involved.

The purpose of this plan is to act as a guideline for personnel working on the wellsite in the event of a sudden release of hydrogen sulfide. All personnel working on the wellsite as well as service personnel that may travel to location on an unscheduled basis must be familiar with this program. The cooperation and participation of all personnel involved with the drilling operation is necessary for this plan to be effective.

## **I. Responsibilities and Duties**

In order to assure proper execution of the contingency plan, it is essential that one person be responsible for and in complete charge of implementing the procedures outlined in this plan. The order of Responsibility will be as follows:

1. Wolverine Gas & Oil Of Utah, LLC drilling representative on location - if unable to perform his / her duties
2. Alternate Wolverine Gas & Oil Of Utah, LLC representative - if unable to perform his / her duties
3. Rig Toolpusher / Supervisor - if unable to perform his / her duties
4. Safety consultant representative - if available

### **A. All Personnel**

1. Always be alert for possible H<sub>2</sub>S alarms - both audible and visual.
2. Be familiar with location of Safe Briefing Areas (SBA) and protective breathing equipment.
3. Develop a "wind awareness". Be aware of prevailing wind direction as well as nearby uphill areas, should there be no wind.
4. Familiarize yourself with nearest escape routes for safe evacuation
5. Should H<sub>2</sub>S alarms sound, DON'T PANIC - Remain calm and follow instructions of person in charge.
6. If the H<sub>2</sub>S alarms sound:
  - a. Essential personnel shall don the appropriate respiratory protective equipment and follow company procedures. Essential personnel will continue to wear respiratory protective equipment until the area is deemed safe (H<sub>2</sub>S concentration less than 10 PPM)
  - b. Non-essential personnel shall evacuate to the appropriate safe briefing area using escape breathing systems. Wait there for further instructions from Wolverine drilling representative.



- c. Initiate rescue protocol if necessary - following training procedures.

## **B. Drilling Foreman**

1. The Wolverine drilling foreman will confirm that all personnel on location are trained in H<sub>2</sub>S safety and aware of above list of duties when the H<sub>2</sub>S plan becomes effective at drill out of intermediate casing shoe above the Navajo Formation.
2. The Wolverine foreman will ensure that all safety and emergency procedures are observed by all personnel.
3. The Wolverine foreman will make an effort to keep the number of personnel on location to a minimum and to ensure that only essential personnel are on location during critical operations.
4. Should any extreme danger condition exist, the Wolverine foreman will:
  - a. Assess the situation and advise all personnel by appropriate means of communication.
  - b. Be responsible for determining that the extreme danger condition is warranted and the red flag shall be posted at location entrance.
  - c. Go to safe briefing area and give clear instructions relative to hazard on location, and actions for personnel to follow.
  - d. Notify company and regulatory groups of current situation as outlined in company protocol.
  - e. Proceed to rig floor and supervise operations with rig supervisor. Take action to control and reduce the H<sub>2</sub>S hazard.
  - f. Ensure that essential personnel are properly protected with supplied air breathing equipment and that non-essential personnel are in a "poison gas free" area.
  - g. Be responsible for authorizing evacuation of persons / residents in area surrounding the drilling location.
  - h. Commence any ignition procedures if ignition criteria are met.

### **C. Rig Supervisor - Toolpusher**

1. If the Wolverine drilling foreman is unable to perform his / her duties, and the alternate drilling foreman is also unable or unavailable to perform his / her duties, the drilling rig Toolpusher will assume command of wellsite operations and all responsibilities listed above for drilling foreman.
2. Ensure that all rig personnel are properly trained to work in H<sub>2</sub>S environment and fully understand purpose of H<sub>2</sub>S alarms and actions to take when alarms activate. Ensure that all crew personnel understand the buddy system, safe briefing areas, and individual duties as well as emergency evacuation procedures.
3. Should an extreme danger operational condition arise, the rig Toolpusher shall assist the Wolverine foreman by:
  - a. Proceeding to the rig floor and assist in supervising rig operations.
  - b. Ensure that only essential working personnel remain in hazardous areas.
  - c. Ensure that all crew members that remain in hazardous area wear respiratory protective equipment until notified that area is "clear" of any toxic gases.
  - d. Assign rig crew member or other service representative to block entrance to location. No unauthorized personnel will be allowed entry to location.
  - e. Help to determine hazardous "danger zones" on location using portable detection equipment and position electric fans to move gas in any high concentration areas.

### **D. Safety Consultant**

1. During normal operations (no H<sub>2</sub>S present), the safety consultant will be responsible for the following:
  - a. Ensure that all wellsite safety equipment is in place and operational.

- b. Ensure that all wellsite personnel are familiar with location safety layout and operation of all safety equipment.
  - c. Assist the Wolverine foreman in performing weekly H<sub>2</sub>S drills for location personnel.
2. When an operational condition is classified as extreme danger, the safety consultant will be responsible for the following:
- a. Account for all wellsite personnel
  - b. Assess any injuries and direct first aid measure.
  - c. Ensure that all safety and monitoring equipment is functioning properly and available.
  - d. Monitor the safety of wellsite personnel
  - e. Maintain a close communication with Wolverine foreman.
  - f. Be prepared to assist Wolverine foreman with support for rig crew or other personnel using breathing equipment.
  - g. Be prepared to assist Wolverine foreman with emergency procedures including possible well ignition.
  - h. Be prepared to assist with evacuation of any area residents or other personnel working in the immediate area.

## **II. Drilling Rig Layout**

### **A. Location**

1. All respiratory protective equipment and H<sub>2</sub>S detection equipment will be rigged up prior to drilling out intermediate casing and entering the first zone suspected to contain hydrogen sulfide. The rig crews and other service personnel will be trained at this time.
2. The drilling rig will be situated on location to allow for the prevailing winds to blow across the rig toward the circulation tanks or at right angles to the lines from the BOP to the circulation tanks.
3. The entrance to the location is designed so that it can be barricaded if a hydrogen sulfide emergency condition arises. An auxiliary exit route will be available so that in case of an emergency, a shift in wind direction would not prevent escape from the location.

4. A minimum of 2 safe briefing areas (SBA) shall be designated for assembly of personnel during emergency conditions. These will be located at least 150 ft. or as practical, from the wellbore and in such a location that at least one area will be upwind of the well at all times. Upon recognition of an emergency situation, all personnel will be trained to assemble at the designated briefing area for instructions.
5. Smoking areas will be established and "No Smoking" signs will be posted around the location.
6. Reliable 24 hour radio and telephone communications will be available at the drilling foremen's office.
7. A mud-gas separator will be rigged up and manifolded to the choke system.
8. All equipment that might come into contact with hydrogen sulfide - drill pipe, drill stem test tools, blowout preventers, casing, and choke system will meet Wolverine's metallurgy requirements for H<sub>2</sub>S service.
9. The drilling rig will have a continuous electronic H<sub>2</sub>S detection system that automatically will activate visible and audible alarms if hydrogen sulfide is detected. The visible light will activate if 10 PPM H<sub>2</sub>S is present. The audible siren will activate if 15 PPM or higher concentration is present. There will be at least 4 H<sub>2</sub>S sensors in place on the drilling rig. They will be located to detect the presence of hydrogen sulfide in areas where it is most likely to come to surface. The sensor head locations will be: 1) rig floor by driller's console, 2) substructure area near the bell nipple, 3) the shale shaker, 4) the mud mixing area. Additional sensors will be positioned at the discretion of the drilling foreman. At least 1 light and 1 siren will be placed on the rig to indicate the presence of hydrogen sulfide. The light and siren will be strategically placed to be visible to all personnel on the drill site. Additional alarm lights & sirens may be added to ensure that all personnel on the drill site are able to notice the alarms at any time.
10. The H<sub>2</sub>S detection equipment will be calibrated as recommended by the manufacturer. Calibration records will be maintained on location.
11. At least 4 windsocks will be placed around the drill site to ensure that everyone on the drilling location can readily determine wind direction. One windsock will be mounted on or near the rig floor to be readily visible to rig crews when tripping pipe.

12. All respiratory protective equipment will be NIOSH/MSHA approved positive pressure type and maintained according to manufacturer's guidelines. All breathing air used for this equipment will be CGA type Grade D breathing air. Battery powered voice mikes will be available for communication when wearing masks.
13. Both 30 minute self-contained breathing apparatuses (SCBA) and workline units with escape cylinders will be available on location. There will be sufficient numbers of this supplied air breathing equipment on location to ensure that all personnel on location have 1 piece of equipment available to them. All Respiratory protective equipment will use nose cups to prevent fogging in temperatures below 32 F. Spectacle kits will be available for personnel that require corrective lenses when working under mask.
14. Electric explosion-proof ventilating fans (bug blowers) will be available to provide air movement in enclosed areas where gas might accumulate.
15. H<sub>2</sub>S drills will be conducted at least weekly to ensure that all well site personnel are competent in emergency donning procedures. These drills will be recorded in the driller's log.

## **Safety Procedures**

### **A. Training**

All personnel who come onto the drilling location must be properly trained in hydrogen sulfide, nitrogen, and oxygen deficient atmospheres safety. The personnel shall carry documentation with them indicating that the training has occurred within the previous 12 months.

Training topics shall include at a minimum:

1. Hazards and characteristics of hydrogen sulfide, nitrogen, and oxygen deficient atmospheres and symptoms of exposure to these gases.
2. Proper use, care and limitations of respiratory protective equipment with hands on practice.
3. Use of both fixed and portable toxic gas detection equipment.
4. Work practices to reduce opportunities for toxic gas exposure as well as confined space procedures.

5. First aid for toxic gas exposure and resuscitation equipment.
6. The buddy system
7. Emergency evacuation procedures
8. A review of the contingency plan for the well.

## **B. Operating Conditions**

A three color flag warning system will be used to notify personnel approaching the drill site as to operating conditions on the wellsite. This system is in compliance with BLM O.O. #6 and follows industry standards.

Green Flag - Potential Danger

Yellow Flag - Moderate Danger

Red Flag - Extreme Danger - Do Not approach if red flag is flying.

## **C. Evacuation Plan**

There is one resident within a one mile radius of the well site. Ron Dastrup lives approximately 1/2 mile west-northwest of the well location. In the event of an emergency requiring evacuation, Mr. Dastrup would be notified by Wolverine's drilling foreman and given specific directions as to how to evacuate, with due consideration to the wind at the time and other factors. Should a telephonic notification to Mr. Dastrup not be successful in reaching him, one of the non-critical rig personnel will be sent to his home to insure he can be evacuated to safety. Mr. Dastrup's contact information is:

Ron and Virginia Dastrup  
P.O. Box 57011  
Sigurd, UT 84657  
(435) 896-7259

## **D. Emergency Rescue Procedures**

Wellsite personnel should not attempt emergency rescues unless they have been properly trained. A trained person who discovers another person overcome by hydrogen sulfide should **not attempt to rescue without donning the proper breathing equipment**. When making an emergency rescue always use the following procedures:

1. Don rescue breathing equipment before attempting to rescue someone.
2. Remove the victim from the contaminated area to an area free of toxic gas by traveling upwind or cross wind. Be certain that you are in a safe area before removing your breathing equipment.
3. If the victim is not breathing, initiate mouth - to - mouth resuscitation immediately. Follow CPR guidelines and replace mouth to mouth with a bag mask resuscitator if available.
4. Treat the victim for shock, keeping the victim warm and calm. Never leave the victim alone.
5. Any personnel who experience hydrogen sulfide exposure must be taken to a hospital for examination and their supervisor notified of the incident.
6. Their supervisor shall follow the company Emergency Preparedness plan.

#### **IV. H<sub>2</sub>S Safety Equipment on Drilling Location**

<b>Item</b>	<b>Amount</b>	<b>Description</b>
1.	One (1)	safety trailer with a cascade system of 10-300 cu. ft bottles of compressed breathing air complete with high pressure regulators
2.	At least 1000 ft.	low pressure airline equipped with Hansen locking fittings. This airline will be rigged up with manifolds to supply breathing air to the rig floor, substructure, derrick, shale shaker area, and mud mixing areas. Three high pressure refill hoses will be attached to cascade systems for cylinder refill.
3.	Twelve (12)	Scott 30 minute self contained breathing apparatuses (SCBA)
4.	Twelve (12)	Scott airline units with emergency escape cylinders.
5.	One (1)	4 - channel continuous electronic H <sub>2</sub> S monitor with audible and visual alarms. The set points for these

alarms are 10 PPM for the low alarm and 15 PPM for the high alarm.

6. Two (2) Sensidyne portable hand operated pump type detection units with tubes for hydrogen sulfide and sulfur dioxide.
7. One (1) oxygen resuscitator with spare oxygen cylinder.
8. One (1) trauma first aid kit
9. One (1) stokes stretcher and one (1) KED.
10. Four (4) wind socks
11. At least one (1) well condition sign with 3 flag system
12. Two (2) Safe Briefing Area (SBA) signs
13. One (1) fire blanket
14. One (1) set air splints
15. Two (2) electric explosion proof fans
16. One (1) bullhorn and chalk board
17. Three (3) 300 cu. ft. air bottles for the safe briefing area.
18. Two (2) 30 # fire extinguishers
19. Six (6) battery powered voice mikes for communication when wearing air masks.
20. One (1) battery powered combustible gas meter





## **V. Well Ignition Procedures**

If it should become apparent that an uncontrolled release of hydrogen sulfide to the atmosphere may endanger the health and safety of the public or well site personnel, the Wolverine drilling foreman will make a decision to ignite the well. The following procedure should be followed before attempting to ignite the well.

**A. Ignition Equipment** - the following equipment will be available on-site for use by the ignition team.

1. 2 12-gauge flare guns with flare shells
2. 2 500 ft. fire resistant retrieval ropes
3. 1 portable combustible gas meter
4. Self contained breathing apparatus (SCBA) for each member of the ignition team.
5. 1 backup vehicle with communications equipment

### **B. Ignition Procedures**

1. The Wolverine drilling foreman will ensure that well site personnel are evacuated to a safe area upwind of the well bore prior to any ignition action.
2. The Wolverine foreman and a designated partner "buddy" backed up by well site safety personnel will comprise the ignition team. All team members will be wearing 30 minute SCBAs.
3. The backup crew will be positioned near a radio equipped vehicle at a safe distance from the sour gas release. They will standby to rescue the actual team igniting the well.
4. The partner of the ignition team will carry a combustible gas / hydrogen sulfide meter to continuously monitor the area in which they are working and define the perimeter of the gas cloud.
5. The Wolverine foreman will carry the flare gun and shells.

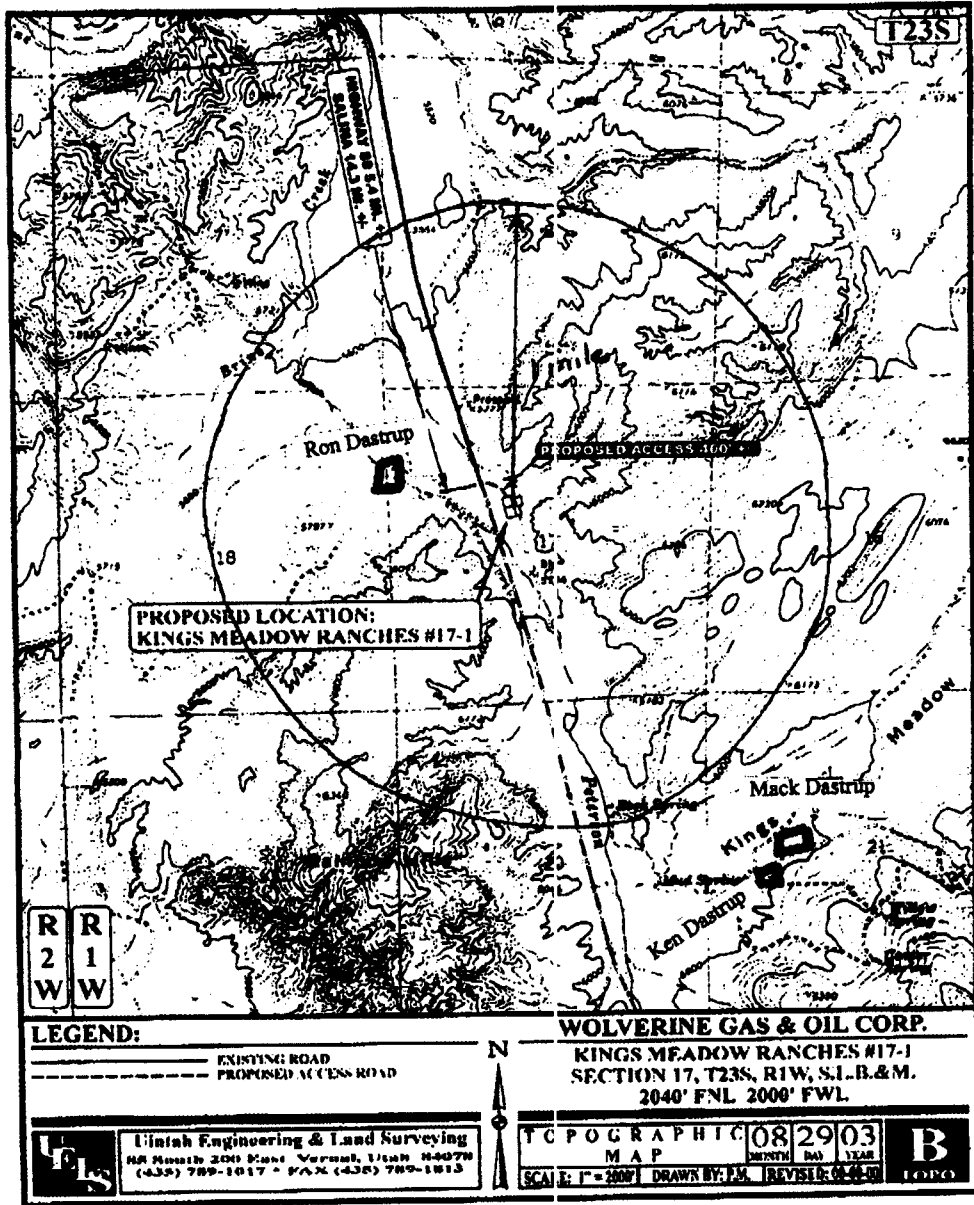
6. The ignition team will determine the hazardous area and establish safe working perimeters. Once this is identified the team will proceed upwind of the leak and fire into the area with flare gun. If trouble is encountered in trying to light the leak, retry to ignite by firing the flare shells at 45 and 90 degree angles to the gas source, but DO NOT approach closer to the leak.
7. After ignition, monitor for sulfur dioxide and work with the support group to restrict access to the contaminated area.

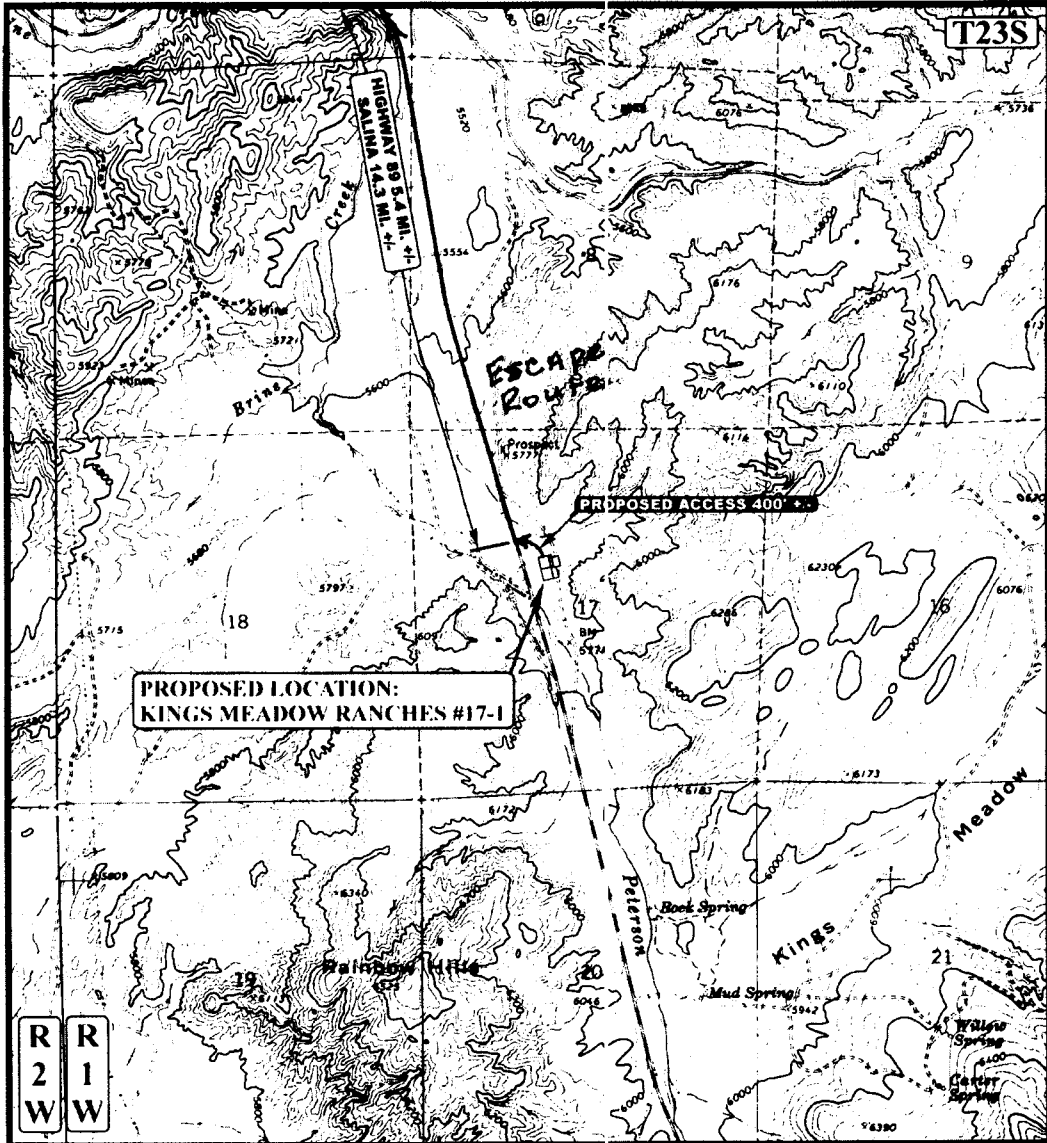
#### **VI. Residents - Public in Radius of Exposure**

There is one resident within a one mile radius of the well site. Ron Dastrup lives approximately 1/2 mile west-northwest of the well location. In the event of an emergency requiring evacuation, Mr. Dastrup would be notified by Wolverine's drilling foreman and given specific directions as to how to evacuate, with due consideration to the wind at the time and other factors. Should a telephonic notification to Mr. Dastrup not be successful in reaching him, one of the non-critical rig personnel will be sent to his home to insure he can be evacuated to safety. Mr. Dastrup's contact information is:

Ron and Virginia Dastrup  
P.O. Box 57011  
Sigurd, UT 84657  
(435) 896-7259

Wolverine Gas & Oil of Utah, LLC operates no other wells within a one mile radius.



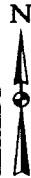


R  
2  
W

R  
1  
W

**LEGEND:**

————— EXISTING ROAD  
 - - - - - PROPOSED ACCESS ROAD



**WOLVERINE GAS & OIL CORP.**

KINGS MEADOW RANCHES #17-1  
 SECTION 17, T23S, R1W, S1.B.&M.  
 2040' ENL 2000' FWL



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TOPOGRAPHIC  
 MAP

08 29 03  
 MONTH DAY YEAR



SCALE: 1" = 2000' DRAWN BY: P.M. REVISED: 00-00-00

## VII. Emergency Phone Directory

**A. Wolverine Gas & Oil Of Utah, LLC**  
 One Riverfront Plaza  
 55 Campau NW  
 Grand Rapids, MI 49503-2616  
 616-458-1150

<u>Title</u>	<u>Name</u>	<u>Phone</u>
Wolverine Gas and Oil of Utah Drilling Supervisor	Pat Clark	M (307) 259-6261
Unit Drilling Drilling Superintendent	Leo Nolan	O (307) 266-2426 M (307) 262-2721
Wolverine Gas and Oil of Utah Manager of Engineering	Tim Brock	O (517) 676-7023 M (517) 242-6588

### **B. Emergency Services Phone List**

1. Sevier Valley Medical Center - Richfield, UT.....435-896-8271
2. Ambulance Services - Sevier County, UT .....911
3. Sheriff Department - Sevier County, UT.....435-896-2600
4. Highway Patrol - Utah.....800-222-0038
5. Fire Department - Richfield, UT.....435-896-5479
6. Utah Division Oil & Gas - Salt Lake City, UT .....801-538-5277
7. Medical Helicopter - Air Med- Salt Lake City, UT .....800-453-0120

## VIII. Properties of Gas

If gas should be produced, it could be a mixture of Carbon Dioxide, Hydrogen Sulfide, and Methane.

### TOXICITY OF VARIOUS GASES

Common Name	Chemical Formula	Specific Gravity (Air = 1)	1 Threshold Limit	2 Hazardous Limit	3 Lethal Concern
Hydrogen Sulfide	H <sub>2</sub> S	1.18	10 ppm	250 ppm/hr	600 ppm
Sulfur Dioxide	SO <sub>2</sub>	2.21	5 ppm	--	1000 ppm
Carbon Monoxide	CO	0.97	50 ppm	400 ppm/hr	1000 ppm
Carbon Dioxide	CO <sub>2</sub>	1.52	5000 ppm	5%	10%
Methane	CH <sub>4</sub>	0.55	90000 ppm	Combustible above 5% in Air	--

**1. Threshold** - Concentration at which it is believed that all workers may repeatedly be exposed, day after day, without adverse side effects.

**2. Hazardous** - Concentration that may cause death.

**3. Lethal** - Concentration that will cause death with short-term exposure

## A. Hydrogen Sulfide

### General Properties

Hydrogen Sulfide itself is a colorless and transparent gas and is flammable. It is heavier than air and, hence, may accumulate in low places.

Although the slightest presence of H<sub>2</sub>S in the air is normally detectable by its characteristic "rotten egg" odor, it is dangerous to rely on the odor as a means of detecting excessive concentrations because the sense of smell is rapidly lost, allowing lethal concentrations to be accumulated without warning. The following table indicates the poisonous nature of Hydrogen Sulfide, which is more toxic than Carbon Monoxide.

Common names: sour gas, acid gas, rotten egg gas, sulphur gas, sulphurated gas, sweet gas (H<sub>2</sub>S is a sweet tasting gas, but often the word "tasting" is left out).

### Physical - Chemical Properties

Chemical Formula .....	H <sub>2</sub> S
1. Specific Gravity (air = 1.000) .....	1.193 (@ 77 F)
2. Color .....	None
3. Odor .....	Compare to rotten eggs
4. Odor Threshold .....	0.13 part of 1 ppm
5. Corrosivity .....	Reacts with metals, plastics, tissues and nerves.
6. Solubility in Water .....	4.0 to 1 in H <sub>2</sub> O @ 32 F 2.6 to 1 in H <sub>2</sub> O @ 68 F
7. Effects on Humans .....	Olfactory nerves, respiratory nerves, irritates sensitive membranes in eyes, nose, and throat.
8. Vapor Pressure .....	19.6 atmospheres at 25 C



- 9. Explosive Limits..... 4.3% to 46% by volume in air
- 10. Ignition Temperature ..... 18 F (burns with a pale flame)
- 11. Molecular Weight..... 34.08
- 12. Conversion Factors ..... 1 mg / 1 of air = 717 ppm (at 25 C and 760 mm HG). 1 ppm = 0.00139 mg / 1 of air
- 13. pH..... 3 in water

**Industrial Occurrences**

Hydrogen Sulfide exposures occur in certain processes in the petroleum industry, chemical plants, chemical laboratories, sulfur and gypsum mines, viscose rayon and rubber industries, tanneries, and in the manufacture of some chemicals, dyes and pigments. It may be encountered in excavations in swampy or filled ground. It is produced when sulfur-containing organic matter decomposes, and it can therefore be found in sewage or organic-waste treatment plants. A common sewer gas, it may find its way into utility manholes, particularly dangerous when encountered in tanks, vessels, and other enclosed spaces.

**Toxic Properties**

Hydrogen Sulfide is an extremely toxic and irritating gas. Free Hydrogen Sulfide in the blood reduces its oxygen-carrying capacity, thereby depressing the nervous system. Sufficiently high concentrations cause blocking of the phrenic nerve, resulting in immediate collapse and death due to respiratory failure and asphyxiation.

Because Hydrogen Sulfide is oxidized quite rapidly to sulfates in the body, no permanent after effects occur in cases of recovery from acute exposures unless oxygen deprivation of the nervous system is prolonged. However, in cases of acute exposures, there is always the possibility that pulmonary edema may develop. It is also reported that symptoms such as nervousness, dry nonproductive coughing, nausea, headache, and insomnia, lasting up to about three days, have occurred after acute exposures to Hydrogen Sulfide.

At low concentrations the predominant effect of Hydrogen Sulfide is on the eyes and respiratory tract. Eye irritation, conjunctivitis, pain, lacrimation, keratitis, and photophobia may persist for several days. Respiratory tract symptoms include coughing, painful breathing, and pain in the nose and throat.

There is no evidence that repeated exposures to Hydrogen Sulfide result in accumulative or systemic poisoning. Effects such as eye irritation, respiratory tract irritation, slow pulse rate, lassitude, digestive disturbances, and cold sweats may occur, but these symptoms disappear in a relatively short time after removal from the exposure. Repeated exposures to Hydrogen Sulfide do not appear to cause any increase or decrease in susceptibility to this gas.

The paralytic effect of Hydrogen Sulfide on the olfactory nerve is probably the most significant property of the gas. This paralysis may create a false sense of security. A worker can be overcome after the typical rotten-egg odor has disappeared. Rather than the characteristic Hydrogen Sulfide odor, some victims of sudden acute overexposure have reported a brief, sickeningly sweet odor just prior to unconsciousness.

Subjective olfactory responses to various concentrations of Hydrogen Sulfide have been summarized as follows:

- 0.2 ppm.....No odor
- 0.13 ppm.....Minimal perceptible odor
- 0.77 ppm.....Faint, but readily perceptible odor
- 4.60 ppm.....Easily detectable, moderate odor
- 27.0 ppm.....Strong, unpleasant odor, but not intolerable

Physiological responses to various concentrations of Hydrogen Sulfide have been reported as follows:

- 10 ppm.....Beginning eye irritation
- 50-100 ppm.....Slight conjunctivitis and respiratory tract irritation after 1 hour exposure.

100 ppm.....	Coughing, eye irritation, loss of sense of smell after 2-15 minutes. Altered respiration, pain in the eyes, and drowsiness after 15-30 minutes, followed by throat irritation after 1 hour. Several hours' exposure results in gradual increase in severity of these symptoms and death may occur within the next 48 hours.
200-300 ppm.....	Marked conjunctivitis and respiratory tract irritation after 1 hour of exposure.
500-700 ppm.....	Loss of consciousness and possibility of death in 30 minutes to 1 hour.
700-1000 ppm.....	Rapid unconsciousness, cessation of respiration, and death.
1000-2000 ppm.....	Unconsciousness at once, with early cessation of respiration and death in a few minutes. Death may occur even if individual is removed to fresh air at once.

**Acceptable Concentrations**

**Acceptable Eight-Hour Time-Weighted Average**

To avoid discomfort, the time-weighted average concentration of Hydrogen Sulfide shall not exceed 10 ppm.

**Acceptable Ceiling Concentrations**

The acceptable concentration for protection of health for an eight-hour, five-day week shall be 20 ppm. Fluctuations are to occur below this concentration.

**Acceptable Maximum for Peaks Above Acceptable Base Line for Continuous Exposure**

A single-peak concentration not exceeding 50 ppm for a maximum of 10 minutes is allowable provided that the daily time-weighted average is not exceeded.

## H<sub>2</sub>S Equivalents

<u>Parts per Million</u>	<u>Percents</u>	<u>Grains per 100 cu. ft.</u>
1	.0001	.055
10	.001	.55
18	.0018	1.0
100	.01	5.5
1000	.1	55.5
10000	1.0	555.5

Grains per 100 cu. ft. = % by volume  
1% by volume = 10,000 ppm

### **B. Sulfur Dioxide**

Sulfur Dioxide (SO<sub>2</sub>) is a colorless, transparent gas and is non-flammable.

Sulfur Dioxide is produced during the burning of H<sub>2</sub>S. Although SO<sub>2</sub> is heavier than air, it will be picked up by a breeze and carried downwind at elevated temperatures. While Sulfur Dioxide is extremely irritating to the eyes and mucous membranes of the upper respiratory tract, it has exceptionally good warning powers in this respect.

#### **Physical - Chemical Properties**

- Chemical Formula ..... SO<sub>2</sub>
1. Specific Gravity (air = 1.000) ..... 2.212
  2. Color ..... None
  3. Flammable ..... No
  4. Odor ..... Characteristic, pungent, gives ample warning of its presence.
  5. Corrosivity ..... Dry – not corrosive to ordinary metals  
Wet – corrosive to most common metals
  6. Allowable Concentrations ..... 5 ppr (ACGIH)  
5 ppr (OSHA)
  7. Effects on Humans ..... Irritates eyes, throat and upper respiratory system

### **Concentrations & Effects**

<b>%SO<sub>2</sub></b>	<b>ppm</b>	<b>Effects</b>
.0005	5	Pungent odor-normally a person can detect SO <sub>2</sub> in this range.
.001	10	Safe for eight (8) hour exposure.
.0012	12	Throat irritation, coughing, constriction of the chest, tearing and smarting of the eyes.
.015	150	So irritating that it can only be endured for a few minutes.
.05	500	Causes a sense of suffocation, even with the first breath.

### **Toxic Properties**

Sulfur Dioxide is an irritating gas in its vapor form and the odor is so intensely irritating that concentrations of 3 to 5 parts per million in the air are readily detectable by the normal person. In higher concentrations, the severely irritating effect of the gas makes it unlikely that any person would be able to remain in a Sulfur Dioxide contaminated atmosphere unless he were unconscious or trapped.

Sulfur Dioxide gas is intensely irritating to the eyes, throat, and upper respiratory system. Inhalation of this gas in concentrations of 8 to 12 parts per million in air causes throat irritation, coughing, constriction of the chest, tearing and smarting of the eyes. 150 parts per million is so extremely irritating that it can be endured only for a few minutes. 500 parts per million is so acutely irritating to the upper respiratory tract that it causes a sense of suffocation, even with the first breath.

Out of numerous reported exposures to Sulfur Dioxide, there are few references that would indicate pneumonia as an after effect.

UTAH DEPARTMENT OF TRANSPORTATION

002

PERMIT

T-226(6/97)  
HIGHWAY RIGHT OF WAY  
ENCROACHMENT  
Region 4

01-1744-43

Date: 9/16/2003

Work Order No:

Application of: WOLVERINE GAS & OIL CORPORATION  
By: VINCE GUINN  
Address: 869 NORTH CANYON VIEW DRIVE, #416-16 ROOSEVELT

Phone: (435) 722-8324

Fax: (435) 722-8323

is hereby granted subject to: UDOT's Regulations For the Accommodation of Utilities on Federal Aid and Non Federal-Aid Highway Right of Way, Regulations for the Control and Protection of State Highway Rights of Way, Standard Specifications for Road and Bridge Construction, Specifications for Excavation of State Highway, State Occupational Safety and Health Laws, Manual on Uniform Traffic Control Devices, Instructions to Flaggers, the approved plans, and any special limitations set forth herein, permission for the purpose of CONSTRUCT A 16' ACCESS within the right of way limits of Highway No. 24 Milepost No. 13 - 14, in SEVIER County, in the following locations: SOUTH ON HWY 24 FOR APPROXIMATELY 5.4 MILES BETWEEN MP 13-14

Receipt of \$20 permit fee is hereby acknowledged. The work permitted herewith shall commence: 11/1/2003 and shall be diligently prosecuted to completion. The work shall be completed and all disturbed surfaces or objects restored on or before 12/31/2003. In the event work is commenced under this permit and the permittee fails or refuses to complete the work, the Utah Department of Transportation may, at its election, fill in or otherwise correct any existing deficiencies at the expense of and subject to immediate payment by the permittee.

Permittee shall execute a bond in the minimum amount of \$0.00, as determined by the Regional Director/District Engineering, to insure faithful performance of the permittee's obligation. The bond shall remain in force for three years after completion of work.

Before work permitted herewith is commenced, the permittee shall notify Maintenance Station No. 4327 Floyd Waters (435)896-1719 or ROGER SCOVIL, Richfield District Permits Officer at (435) 896-1302 and commencement of said work is understood to indicate that the permittee will comply with all instruction and regulations of the Utah Department of Transportation (as listed) with respect to performance of said work, and that she/he will properly control and warn the public of said work to prevent accident and shall indemnify and hold harmless the Utah Department of Transportation from all damages arising out of any and all operations performed under this Permit.

Permittee shall not perform any work on State Highway right of way beyond those areas of operation stipulated on this permit.

If permittee fails to comply with Utah Department of Transportation regulations, specifications, or instructions pertinent to this permit, the Region Director/District Engineer or his duly authorized representative, may by verbal order, suspend the work until the violation is corrected. If permittee fails or refuses to comply promptly, the Region Director/District Engineer or his authorized representative may issue a written order stopping all or any part of the work. When satisfactory corrective action is taken, an order permitting resumption of work may be issued.

Special Limitations:

- This agreement and/or permit is UDOT approval only. You are responsible to obtain clearances from private property owners and local jurisdictions that you are working within.
- See regulations above. Standard warning signs shall be used and if the flow of traffic is interrupted certified flag personnel are required.
- Licensee must comply with all environmental issues to include cultural and paleontological clearances. If a suspected historic, archeological, or paleontological item or site is encountered, construction shall be immediately stopped and UDOT notified.
- Call Marsha at (435) 896-1318 upon completion of project for final inspection.
- A 15" (minimum) CGM culvert with end sections shall be placed under approach long enough to accommodate a 12:1 side slope.
- There shall be a -2% grade for the first 25 ft. from the edge of the asphalt with 12:1 side slope.
- Licensee must restore shoulder of highway to its original or better condition to include reseeded, replacing sidewalk, fencing, pipes or signs removed or damaged during construction.

RECEIVED

OCT 20 2003

DIV. OF OIL, GAS & MINING

(Signature of Permittee)

Wolverine Gas Oil Inc  
By: Mark Dolak  
Agent

Approved By:

Maintenance Station No. 4327 Floyd Waters (435)896-1719



# DOLAR ENERGY L.L.C.

Phone: (801) 561-3121  
Fax: (801) 561-3133

935 East South Union Avenue  
Suite D-202  
Midvale, UT 84047-2393

## FACSIMILE TRANSMITTAL COVER SHEET

TO: Leha Corlora

FACSIMILE NUMBER: 359-3940

FROM: Mark S. Dolar

DATE: 10/20, 2003 TIME SENT: 9:55

NUMBER OF PAGES: 2 (Including cover sheet)

MESSAGE: Road permit for Wolverine well.

*M. Dolar*

If documents described above are not properly received, please call (801) 561-3121. Our fax number is (801) 561-3133

RECEIVED

OCT 20 2003

DIV. OF OIL GAS & MINING

**DIVISION OF OIL, GAS AND MINING**  
**APPLICATION FOR PERMIT TO DRILL**  
**STATEMENT OF BASIS**

**OPERATOR:** WOLVERINE GAS AND OIL CO UT (N1655)  
**WELL NAME & NUMBER:** KINGS MEADOW RANCHES 17-1  
**API NUMBER:** 43-041-30030  
**LEASE:** FEE      **FIELD/UNIT:** WILDCAT (001)      **LOCATION:** 1/4,1/4 SENW  
**SECTION** 17      **TOWNSHIP** 23S      **RANGE** 1W      **FOOTAGES:** 2040 FNL 2000 FWL

**Geology/Ground Water:**

This location is placed in the High Plateaus section of the Colorado Plateau physiographic province in western central Utah. Some people have characterized this area as being in the Basin and Range - Colorado Plateau transition zone. The location is on fee acreage a few miles east of the Sevier River, in the Peterson Creek drainage, a tributary of Brine Creek, which subsequently flows into the Sevier River. The rancher heavily allocates water rights for the local springs, which arise from the volcanic rocks just to the east, for agriculture.

The well will likely spud into a thin alluvium covering the evaporite-rich Jurassic age Arapien Shale. The proposal calls for a saturated KCL mud system from below the surface casing into the top of the Navajo Sandstone. The quality of any surface water that manages to escape upstream allocation is diminished as it flows past the location and into Brine Creek, owing to the evaporite minerals in the Arapien Shale. Any water contained in the Arapien Shale is also likely to be of poor quality. It is noted that the proposal calls for the drilling of a water supply well on site after drilling the hole for the surface casing and upon evaluation of the drilled lithologies as aquifers. The north northeast to south southwest trending Sevier Fault is likely to be found passing by about 1 to 2 miles to the northwest along the east side of the Sevier River Valley. The Arapien Shale may have been somewhat intruded or elevated into the area between the Sevier Fault and the considerable parallel secondary faulting mapped in the Cedar Mountain - Black Mountain area, just east of the location. A Division of Water Rights publication notes that aquifers in close proximity to the Arapien Shale are also likely to contain ground water with high TDS levels. Inasmuch as there do not appear to be any intervening aquifers documented in this area, which lie between the Arapien Shale and the underlying Navajo Sandstone, it is unlikely that any high quality ground water will be encountered. While it is noted that estimated formation tops for the Carmel Formation and Twin Creek Limestone are included in this location's drilling prognosis, this reviewer does not find any support for their existence in nearby offset drilling several miles north, on trend, along the Arapien Shale outcrop. This drilling (2 wells) cut nearly 9,000 feet of Arapien and made no mention of any other formation tops above the Navajo.

At this location it is unlikely that any high quality ground water resource will be encountered in the Navajo, at that depth, in any strata drilled below the Navajo or at all. The proposed casing, cementing and drilling fluid program should be sufficient to control and isolate the poor quality ground waters expected to be encountered in a well at this location. A water right, filed for a 156 feet deep water supply well, is found within a mile to the east.

**Reviewer:** Christopher J. Kierst      **Date:** October 21, 2003

**Surface:**

Operator representatives, state engineer (Water Rights/Richfield), and landowner were present at the onsite conducted on October 9, 2003. Reserve pit backfill & spoils will be stockpiled on the east end of the well pad, behind the reserve pit & dike, and next to flare pit behind dike. The reserve pit liner will need to be properly installed and maintained in the reserve pit with a synthetic liner with a minimum thickness of 12 mils, and if the pit is built in rock, geotextile or some other Division approved material will be required to underlay the liner. The Division would like to be notified prior to lining the reserve pit to allow for Division inspection.

**Reviewer:** Lisha Cordova      **Date:** October 9, 2003



**Conditions of Approval/Application for Permit to Drill:**

1. A synthetic liner with a minimum thickness of 12 mils shall be properly installed and maintained in the reserve pit.
2. If the reserve pit is built in rock, geotextile or some other Division approved material will be required to underlay the liner.
3. The Division shall be notified prior to lining the reserve pit to allow for Division inspection.

**ON-SITE PREDRILL EVALUATION**  
**Division of Oil, Gas and Mining**

OPERATOR: WOLVERINE GAS AND OIL CO UT (N1655)  
WELL NAME & NUMBER: KINGS MEADOW RANCHES 17-1  
API NUMBER: 43-041-30030  
LEASE: FEE FIELD/UNIT: WILDCAT (001)  
LOCATION: 1/4,1/4 SENW Sec: 17 TWP: 23S RNG: 1W 2040 FNL 2000 FWL  
LEGAL WELL SITING: 460' FROM 1/4,1/4 LINE; 920' FROM ANOTHER WELL.  
GPS COORD (UTM): X=418874 E; Y=4295303 N SURFACE OWNER: FEE

**PARTICIPANTS**

Lisha Cordova (DOGM), Mark Dolar (Dolar Energy LLC) representing Wolverine, Pat Clark (Wolverine), Evan Dastrup (Surface Owner), and Kirk Forbush (Water Rights/Richfield).

**REGIONAL/LOCAL SETTING & TOPOGRAPHY**

The location is approximately 5.5 miles southeast of Sigurd, east of HWY 24, in central Sevier Valley, surrounded by the Sevier and Wasatch Plateaus to the east and the Tushar Mountains, Valley Mountains, and Pahvant Range to the west. The topography at the location is relatively flat with a slight 1% grade in a southwest direction. Small gently sloping mountains surround the well site. The Sevier River runs through the valley lands, and is located on the west side of Hwy 24. In section 17, the NE ¼, SW ¼, and the majority of the SE ¼ is BLM lands, the NW ¼ is fee/private lands. The outer edge of the well pad will be between 130-140' from HWY 24.

**SURFACE USE PLAN**

CURRENT SURFACE USE: Cattle grazing, and wildlife habitat including deer, rabbits, coyote, rodents, birds, snakes, etc.

PROPOSED SURFACE DISTURBANCE: Pad approximately 430'X200' with an attached 150'X100' reserve pit 10' deep with a capacity of 21,390 barrels including 2' of freeboard. A 10' wide dike will surround the pits outer edges. A 13'X13' flare pit will be located a minimum of 100' from the wellhead, on the same side as the reserve pit. Excess dirt material will be stockpiled behind reserve pit & dike, and next to flare pit behind dike.

LOCATION OF EXISTING WELLS WITHIN A 1-MILE RADIUS: There are no other oil/gas wells within a one-mile radius of the proposed well. There are four water rights within a one-mile radius, one underground water well, SW ¼ Sec. 16, for stock watering 250 cattle, two for the Kings Meadow Creek, NW ¼ Sec. 17, for culinary, domestic (five persons) and/or stock watering 100 cattle from Oct. 15<sup>th</sup> to April 1<sup>st</sup>, and one for Peterson Creek, SW ¼ Sec. 17, issued to the BLM for Wildlife.

LOCATION OF PRODUCTION FACILITIES AND PIPELINES: If the well is successfully completed as a producing gas well production facilities will consist of wellhead, line heater, separation and dehydration equipment, gas sales line, and two storage tanks in a diked enclosure located on the south side of the location. Some oil production is anticipated. A new pipeline will be installed which will most likely connect into the Kern River Pipeline approximately 25 miles away (East). Pipeline approval from the appropriate agency(s) will be pursued.

SOURCE OF CONSTRUCTION MATERIAL: From location, dirt contractor, and local source(s).

ANCILLARY FACILITIES: A trailer will be located east of well head during drilling, and will be removed when well is completed.

WASTE MANAGEMENT PLAN:

Portable chemical toilets will be emptied into the municipal waste treatment system; garbage cans on location will be emptied into centralized dumpsters, which will be emptied into an approved landfill. Drilling fluid, and completion/frac fluid will be removed from the pit upon completion of the well. Cuttings will be buried in the pit unless oil based mud is used. If oil based mud is used disposal of the cuttings should be discussed with the Division. Used oil from drilling operations and support will be hauled to a used oil recycling facility. Produced water will be disposed of at an approved facility.

**ENVIRONMENTAL PARAMETERS**

AFFECTED FLOODPLAINS AND/OR WETLANDS: None observed. Wolverine was advised to contact the Army Corp. of Engineers or Water Rights.

FLORA/FAUNA: Small and large Sage Brush, Russian Thistle, Winter Fat, Shadscale, Crested Wheat Grass & other native grasses.

SOIL TYPE AND CHARACTERISTICS: The surface soil is tan in color, heavily cracked, and clayey with low sand content. There are a few small boulders of basalt scattered around the surrounding area.

SURFACE FORMATION & CHARACTERISTICS: The Middle Jurassic, Arapien Shale Formation makes up the Arapien Basin in central Utah. The basin, measures more than 6000' thick, and is largely composed of mudstones, siltstones, evaporates, and limestones. Commercial gypsum and salt have been claimed from the basin between Nephi and Richfield. The depositional thickness of the gypsum and salt in the area is not known because of the plasticity of these evaporites and their enclosing mudstones, however several hundred feet of evaporites are indicated in available data. Permeability of the Arapien Shale Formation is low to moderate.

EROSION/SEDIMENTATION/STABILITY: Stable, there are no visible signs of drainages or ditches at this site. The location is relatively flat. The location will be built in mostly cut material. The vegetation at the well site is sparse; there are no cliffs or steep mountains in the near vicinity. The Peterson Creek drainage, which runs near the location, contains very little water (1-2" near confluence with King's Meadow Creek, approximately ½ mile southeast) during this season. The proposed site construction plans and the topographic layout of the area will prevent meteoric waters from entering and leaving the pit area &

well pad.

PALEONTOLOGICAL POTENTIAL: None observed. Surface and mineral owners are Fee/Private. No paleontological survey has been done, nor requested by Wolverine. No survey required by rule.

### **RESERVE PIT**

CHARACTERISTICS: The reserve pit will be built in mostly cut. Depth of soil & hard rock underlying the pit is unknown at present. Will want to make sure liner is installed properly to avoid liner puncture(s). If pit is built in rock, geotextile or some other approved material will be required to underlay the liner. The pit will be 10' deep with a capacity of 21,390 barrels including 2' of freeboard. The pits outer edge will be surrounded by a 10' wide dike, fenced on outer three sides.

LINER REQUIREMENTS (Site Ranking Form attached): 12 mils or higher.

### **SURFACE RESTORATION/RECLAMATION PLAN**

SURFACE AGREEMENT: A copy of the "Surface Damage Agreement" between Kings Meadow Ranches Inc. (surface owner) and Wolverine Gas and Oil, has been provided (Exhibit 1). Restoration of the well site will be completed in accordance with the agreement.

CULTURAL RESOURCES/ARCHAEOLOGY: None observed. Surface and mineral owners are Fee/Private. No archeological survey has been done, nor requested by Wolverine. No survey is required by rule.

### **OTHER OBSERVATIONS/COMMENTS**

The well pad dimensions have been changed to accommodate a larger drilling rig (20,000#), a copy of the revised layout map and cross section were submitted at onsite. Surveyor (Uintah Engineering) had not moved the location stakes at time of onsite, but plans to do so as soon as possible. An H<sub>2</sub>S Contingency Plan will be submitted prior to permit approval. A new water permit needs to be issued by Water Rights (Richfield) for this well prior to permit approval, as requested by Kirk Forbush. Mark Dolar, representing Wolverine, stated at the onsite that they have filed for an access permit with the Department of Transportation (Richfield), the proposed well site is directly east off HWY 24 which winds through the area. The surface agreement will be modified to remove T.D.A. Foundation (surface owner) from the agreement.

### **ATTACHMENTS**

Photos of the location were taken at the onsite, see well file.

Lisha Cordova  
DOGM REPRESENTATIVE

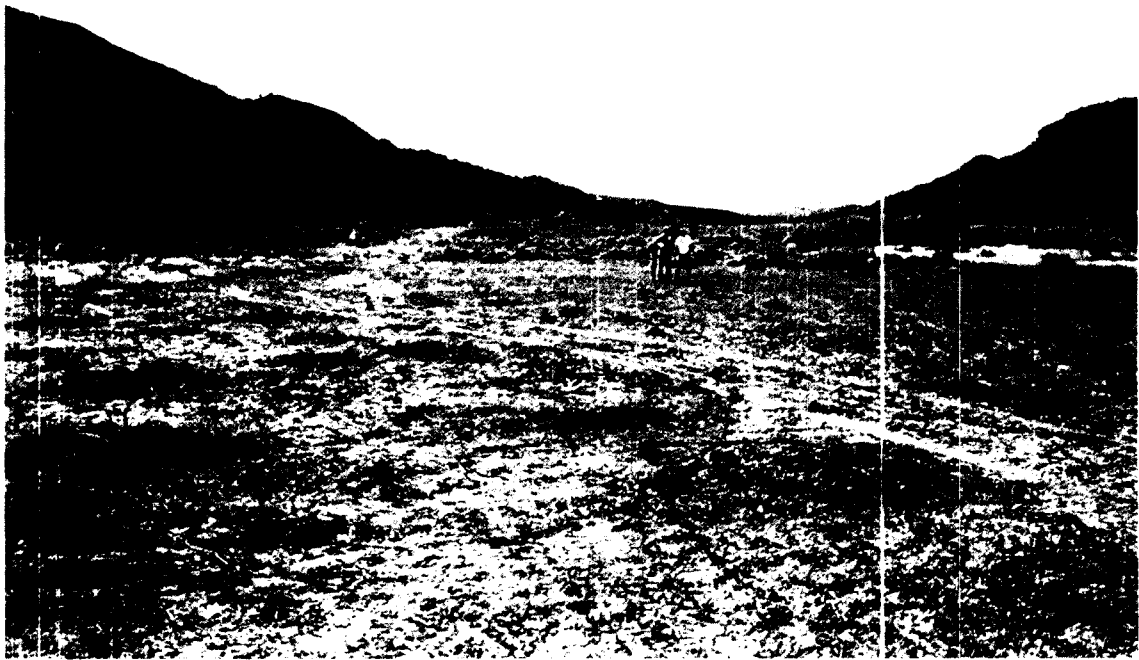
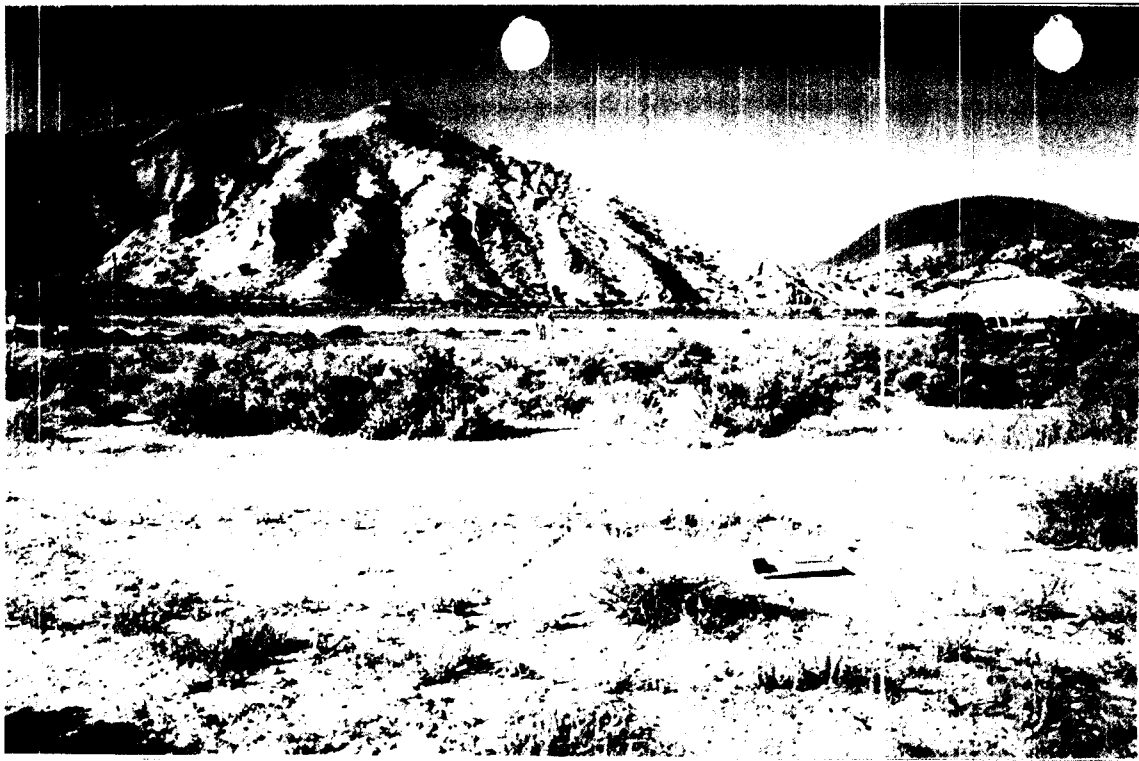
October 9, 2003  
DATE

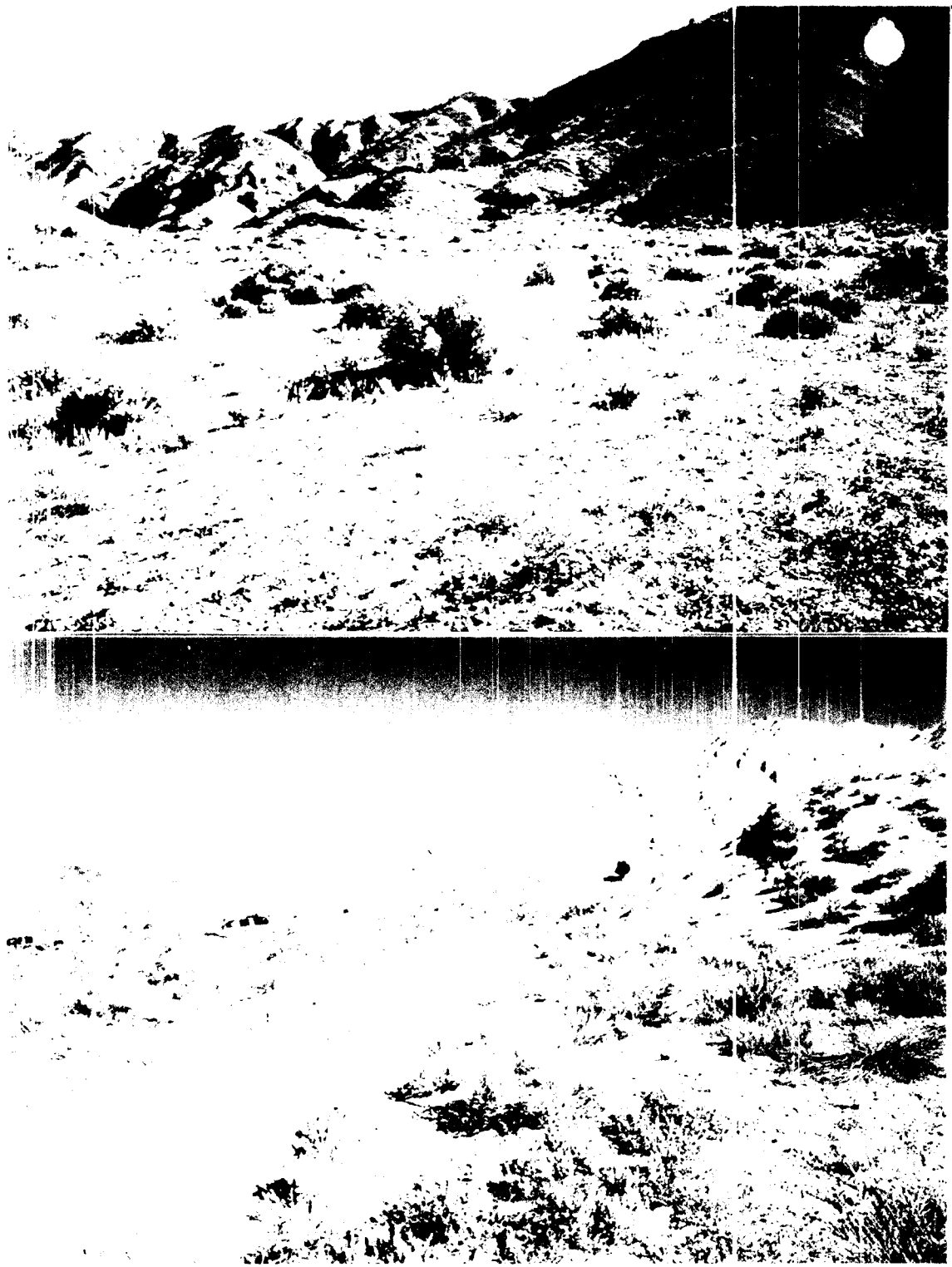
**Evaluation Ranking Criteria and Ranking Score  
For Reserve and Onsite Pit Liner Requirements**

<u>Site-Specific Factors (1 Mile Radius)</u>	<u>Ranking</u>	<u>Site Ranking</u>
Distance to Groundwater (ft)		
>200	0	
100 to 200 (156' WR 63-319)	5	5
75 to 100	10	
25 to 75	15	
<25 or recharge area	20	
Distance to Surf. Water (ft)		
>1000	0	
300 to 1000 (Kings Meadow Creek & Peterson Creek)	2	2
200 to 300	10	
100 to 200	15	
< 100	20	
Distance to Nearest Municipal Well (ft)		
>5280 (Sigurd 5280-6000')	0	0
1320 to 5280	5	
500 to 1320	10	
<500	20	
Distance to Other Water Wells (ft)		
>1320 (WR 63-319 3300')	0	0
300 to 1320	10	
<300	20	
Native Soil Type		
Low permeability (Arapien Shale)	0	5
Mod Permeability	10	
High permeability	20	
Fluid Type		
Air/mist (Surf-700')	0	
Fresh Water < 5000 TDS	5	
TDS >5000 & <10000 (Sat. KCL Mud)	10	10
TDS >10000 or Oil Base Mud Fluid containing significant levels of hazardous constituents	15	
20	20	
Drill Cuttings		
Normal Rock (Arapien Shale)	0	5
Salt/detrimental (Surf-5340)	10	
Annual Precipitation (inches)		
<10 (8.1" ave/6.5" 2002)	0	0
10 to 20 *Richfield	5	
>20	10	
Affected Populations		
<10	0	0
10 to 30	6	
30 to 50	8	
>50	10	
Presence of Nearby Utility Conduits		
Not Present	0	
Unknown	10	
Present (Overhead power lines)	15	15

**Final Score**      42      (Level 1 Sensitivity)

Sensitivity Level I = 20 or more; total containment is required.  
Sensitivity Level II = 15-19; lining is discretionary.  
Sensitivity Level III = below 15; no specific lining is required.











State of Utah  
DEPARTMENT OF NATURAL RESOURCES  
DIVISION OF OIL, GAS AND MINING

1594 West North Temple, Suite 1210  
PO Box 145801  
Salt Lake City, Utah 84114-5801  
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Michael O. Leavitt  
Governor  
Robert L. Morgan  
Executive Director  
Lowell P. Braxton  
Division Director

October 23, 2003

Wolverine Gas & Oil of Utah, LLC  
One Riverfront Plaza, 55 Campau NW  
Grand Rapids, MI 49503

Re: King Meadow Ranches 17-1 Well, 2000' FWL, 2040' FNL, SE NW, Sec. 17, T. 23 South, R. 1~~W~~ West, Sevier 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 43-041-30030.

Sincerely

John R. Eaza  
Associate Director

pab  
Enclosures

cc: Sevier County Assessor

**Operator:** Wolverine Gas & Oil of Utah, LLC

**Well Name & Number** King Meadow Ranches 17-1

**API Number:** 43-041-30030

**Lease:** Fee

**Location:** SE NW                      **Sec.** 17                      **T.** 23 South                      **R.** 10 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

The operator is required to notify the Division of Oil, Gas and Mining of the following actions during drilling of this well:

- 24 hours prior to cementing or testing casing
- 24 hours prior to testing blowout prevention equipment
- 24 hours prior to spudding the well
- within 24 hours of any emergency changes made to the approved drilling program
- prior to commencing operations to plug and abandon the well

The following are Division of Oil, Gas and Mining contacts and their work telephone numbers (please leave a voice mail message if the person is not available to take the call):

- Dan Jarvis at (801) 538-5338
- Carol Daniels at (801) 538-5284 (spud)

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. Compliance with the Conditions of Approval/Application for Permit to Drill outlined in the Statement of Basis. (Copy Attached)

5. Operator shall comply with applicable recommendations resulting from Resource Development Coordinating Committee review. Statements attached.

6. 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.
7. Intermediate casing of 9 5/8" should be cemented above all freshwater or mineral bearing zones.
8. Production liner of 5 1/2" shall be cemented through top of liner (TOL) at  $\pm 7200'$ .

**DIVISION OF OIL, GAS AND MINING****SPUDDING INFORMATION**Name of Company: WOLVERINE GAS & OIL COMPANY UTWell Name: KINGS MEADOW RANCHES 17-1Api No: 43-041-30030 Lease Type: FEESection 17 Township 23S Range 01W County SEVIERDrilling Contractor UNIT DRILLING RIG # 236**SPUDDED:**Date 11/20/03Time 8:30 PMHow ROTARY**Drilling will commence:** \_\_\_\_\_Reported by PAT CLARKTelephone # 1-307-259-6261Date 11/21/2003 Signed CHD

009

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

FORM 9

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.

1. TYPE OF WELL OIL WELL <input type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <u>Drilling</u>		5. LEASE DESIGNATION AND SERIAL NUMBER:
2. NAME OF OPERATOR: <u>Wolverine Gas and Oil of Utah, LLC</u>		6. IF INDIAN, ALLOTTEE OR TRIBE NAME:
3. ADDRESS OF OPERATOR: <u>55 Campau, NW</u> CITY <u>Grand Rapids</u> STATE <u>Mi</u> ZIP <u>49503</u>		7. UNIT OR CA AGREEMENT NAME:
4. LOCATION OF WELL FOOTAGES AT SURFACE: <u>2000' FWL &amp; 2040' FNL</u>		8. WELL NAME and NUMBER: <u>Kings Meadow Ranches 17-1</u>
OTWOTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: <u>SENW 17 23S 1W.</u>		9. API NUMBER: <u>4304130030</u>
PHONE NUMBER: <u>(616) 458-1150</u>		10. FIELD AND POOL OR WILDCAT: <u>Wildcat</u>

COUNTY: Sevier

STATE:

UTAH

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION		
<input type="checkbox"/> NOTICE OF INTENT (Submit In Duplicate) Approximate date work will start:	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> REPERFORATE CURRENT FORMATION
	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> SIDETRACK TO REPAIR WELL
	<input type="checkbox"/> CASING REPAIR	<input type="checkbox"/> NEW CONSTRUCTION	<input type="checkbox"/> TEMPORARILY ABANDON
	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> TUBING REPAIR
	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> VENT OR FLARE
<input checked="" type="checkbox"/> SUBSEQUENT REPORT (Submit Original Form Only) Date of work completion: <u>12/15/2003</u>	<input type="checkbox"/> CHANGE WELL NAME	<input type="checkbox"/> PLUG BACK	<input type="checkbox"/> WATER DISPOSAL
	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> PRODUCTION (START/RESUME)	<input type="checkbox"/> WATER SHUT-OFF
	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input checked="" type="checkbox"/> OTHER: <u>Report of Drilling Progress</u>
	<input type="checkbox"/> CONVERT WELL TYPE	<input type="checkbox"/> RECOMPLETE - DIFFERENT FORMATION	

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

11/24/2003:

Spud on 11/20/2003. Drill to 675'. Set 13-3/8" osg at 675'. Cement with 845 sx "V" w/ 2% CaCl2 and 1/4#/sx Flocele. Good returns throughout job, cemented to surface with cement returns to pit. Depth at 6AM 11/24/2003: 735'

12/1/2003:

Drilling at 2,366'

12/8/2003:

Drilling at 3,424'

12/15/2003:

Drilling at 5,220'

NAME (PLEASE PRINT) Timothy J. Brock

TITLE Manager - Engineering

SIGNATURE 

DATE 12/15/2003

(This space for State use only)

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DEC 15 2003

DIV. OF OIL, GAS & MINING

# WOLVERINE GAS AND OIL CORPORATION

## FACSIMILE TRANSMITTAL SHEET

TO: Eadene Russell	FROM: Tim Brock, Wolverine Gas and Oil of Utah, LLC
COMPANY: Utah DOGM	DATE: 12/15/2003
FAX NUMBER: 801-359-3940	TOTAL NO. OF PAGES INCLUDING COVER: 2
PHONE NUMBER: 801-538-5336	SENDER'S REFERENCE NUMBER:
RE: Form 9, Kings Meadow Ranches 17-1	YOUR REFERENCE NUMBER:

URGENT   
 FOR REVIEW   
 PLEASE COMMENT   
 PLEASE REPLY   
 PLEASE RECYCLE

Earlene,  
Attached is the Form 9 for Wolverine Gas & Oil of Utah, LLC's Kings Meadow Ranches 17-1 well. After this submittal, we will be sending out the form weekly. Please call if you have any questions.  
Tim Brock

RECEIVED

DEC 15 2003

DIV. OF OIL, GAS & MINING

ONE RIVERFRONT PLAZA, 55 CAMPAN NW  
GRAND RAPIDS, MICHIGAN 49503-2616  
PHONE: (616) 458-1150 FAX: (616) 458-0869

027

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

FORM 6

ENTITY ACTION FORM

Operator: Wolverine Gas & Oil of Utah, LLC  
Address: One Riverfront Plaza, 55 Campau  
city Grand Rapids  
state Mi zip 49503-2616

Operator Account Number: N 1655  
Phone Number: (517) 676-7023

Well 1

API Number	Well Name		QQ	Sec	Twp	Rng	County
4304130030	King Meadow Ranches 17-1		SENW	17	23S	10W	Sevier
Action Code	Current Entity Number	New Entity Number	Spud Date		Entity Assignment Effective Date		
A	99999	13995	11/20/2003		12/18/03		
Comments: <u>Currently Drilling Ahead At 2925' (12/04/2003) nava</u>							

Well 2

API Number	Well Name		QQ	Sec	Twp	Rng	County
Action Code	Current Entity Number	New Entity Number	Spud Date		Entity Assignment Effective Date		
Comments:							

Well 3

API Number	Well Name		QQ	Sec	Twp	Rng	County
Action Code	Current Entity Number	New Entity Number	Spud Date		Entity Assignment Effective Date		
Comments:							

ACTION CODES:

- A • Establish new entity for new well (single well only)
- B • Add new well to existing entity (group or unit well)
- C • Re-assign well from one existing entity to another existing entity
- D • Re-assign well from one existing entity to a new entity
- E • Other (Explain in 'comments' section)

Timothy J. Brock

Name (Please Print)

*Timothy J. Brock*

Signature

Manager Engineering

12/15/2003

Date

RECEIVED

DEC 15 2003

DIV. OF OIL, GAS & MINING

010

**WOLVERINE GAS AND OIL CORPORATION***Energy Exploration in Partnership with the Environment*

CONFIDENTIAL

December 22, 2003

Utah Division of Oil Gas and Mining  
Attn: Mr. Dustin Doucet  
1594 West North Temple, Suite 1210  
P.O. Box 145801  
Salt Lake City, Utah 84114-5801

**Transmitted Via Fax:**  
**(801)359-3940**

*T 235 RO1W S-17*

Re: **Kings Meadow Ranches 17-1**  
**API: 43-041-30030**  
**Sevier County, Utah**

Dear Mr. Doucet,

Pursuant to R649-2-11, Wolverine Gas and Oil of Utah, LLC respectfully requests that all information for this well be held confidential. Should you have any questions, feel free to contact me at (517) 676-7023.

Sincerely,

Timothy J. Brock  
Manager - Engineering  
Wolverine Gas and Oil of Utah, LLC

RECEIVED

DEC 22 2003

DIV. OF OIL, GAS &amp; MINING



# WOLVERINE GAS AND OIL CORPORATION

## FACSIMILE TRANSMITTAL SHEET

TO: Earlene Russell	FROM: Tim Brock, Wolverine Gas and Oil of Utah, LLC
COMPANY: Utah DOGM	DATE: 12/22/2003
FAX NUMBER: 801-359-3940	TOTAL NO. OF PAGES INCLUDING COVER: 2
PHONE NUMBER: 801-538-5336	SENDER'S REFERENCE NUMBER:
RE: Form 9, Kings Meadow Ranches 17-1	YOUR REFERENCE NUMBER:

URGENT   
  FOR REVIEW   
  PLEASE COMMENT   
  PLEASE REPLY   
  PLEASE RECYCLE

Earlene,  
 Attached is the Form 9 for Wolverine Gas & Oil of Utah, LLC's Kings Meadow Ranches 17-1 well.  
 Please call if you have any questions.  
 Tim Brock

RECEIVED  
 DEC 22 2003  
 DIV. OF OIL, GAS & MINING

ONE RIVERFRONT PLAZA, 55 CAMPAU NW  
 GRAND RAPIDS, MICHIGAN 49503-2616  
 PHONE: (616) 458-1150 FAX: (616) 458-0869

CONFIDENTIAL

FORM 9

011

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

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, re-enter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.

5. LEASE DESIGNATION AND SERIAL NUMBER:

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

7. UNIT or CO-AGREEMENT NAME:

8. WELL NAME and NUMBER:  
Kings Meadow Ranches 17-1

9. API NUMBER:  
4304130030

10. FIELD AND POOL, OR WILDCAT:  
Wildcat

1. TYPE OF WELL: OIL WELL  GAS WELL  OTHER Drilling

2. NAME OF OPERATOR:  
Wolverine Gas and Oil of Utah, LLC

3. ADDRESS OF OPERATOR:  
55 Campau NW CITY Grand Rapids STATE MI ZIP 49503 PHONE NUMBER: (616) 458-1150

4. LOCATION OF WELL:  
FOOTAGES AT SURFACE: 2040'FNL & 2,000'FWL  
CTR/CTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: SENW 17 23S 1W S  
COUNTY: Sevier  
STATE: UTAH

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION		
<input type="checkbox"/> NOTICE OF INTENT (Submit in Duplicate) Approximate date work will start: _____	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> REPERFORATE CURRENT FORMATION
	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> SIDETRACK TO REPAIR WELL
	<input type="checkbox"/> CASING REPAIR	<input type="checkbox"/> NEW CONSTRUCTION	<input type="checkbox"/> TEMPORARILY ABANDON
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	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> VENT OR FLARE
<input checked="" type="checkbox"/> SUBSEQUENT REPORT (Submit Original Form Only) Date of work completion: _____	<input type="checkbox"/> CHANGE WELL NAME	<input type="checkbox"/> PLUG BACK	<input type="checkbox"/> WATER DISPOSAL
	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> PRODUCTION (START/RESUME)	<input type="checkbox"/> WATER SHUT-OFF
	<input type="checkbox"/> COMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input checked="" type="checkbox"/> OTHER: <u>Drilling Status</u>
	<input type="checkbox"/> CONVERT WELL TYPE	<input type="checkbox"/> RECOMPLETE - DIFFERENT FORMATION	

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.  
12/22/2003: Drilling at 8,205'

RECEIVED  
DEC 22 2003  
DIV. OF OIL, GAS & MINING

NAME (PLEASE PRINT) Timothy J. Brock TITLE Manager - Engineering

SIGNATURE *Timothy J. Brock* DATE 12/22/03

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012

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

TIE HOLE

FORM 9

**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.

1. TYPE OF WELL OIL WELL <input type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <u>Drilling Well</u>		5. LEASE DESIGNATION AND SERIAL NUMBER
2. NAME OF OPERATOR: Wolverine Gas and Oil of Utah, LLC		6. IF INDIAN, ALLOTTEE OR TRIBE NAME:
3. ADDRESS OF OPERATOR: 55 Campau, NW city Grand Rapids STATE MI ZIP 49203		7. UNIT or CA AGREEMENT NAME:
4. LOCATION OF WELL FOOTAGES AT SURFACE: <u>2040 FNL &amp; 2000 FWL</u>		8. WELL NAME and NUMBER: Kings Meadow Ranches 17-1
PHONE NUMBER: (616) 458-1150		9. API NUMBER: 4304130030
CITY Grand Rapids STATE MI ZIP 49203		10. FIELD AND POOL, OR WILDCAT:

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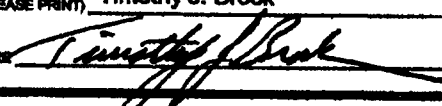
COUNTY: Savies  
STATE: UTAH

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION		
<input type="checkbox"/> NOTICE OF INTENT (Submit in Duplicate) Approximate date work will start:	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> REPERFORATE CURRENT FORMATION
	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> SIDETRACK TO REPAIR WELL
	<input type="checkbox"/> CASING REPAIR	<input type="checkbox"/> NEW CONSTRUCTION	<input type="checkbox"/> TEMPORARILY ABANDON
	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> TUBING REPAIR
	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> VENT OR FLARE
<input checked="" type="checkbox"/> SUBSEQUENT REPORT (Submit Original Form Only) Date of work completion: <u>12/29/2003</u>	<input type="checkbox"/> CHANGE WELL NAME	<input type="checkbox"/> PLUG BACK	<input type="checkbox"/> WATER DISPOSAL
	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> PRODUCTION (START/RESUME)	<input type="checkbox"/> WATER SHUT-OFF
	<input type="checkbox"/> COMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input checked="" type="checkbox"/> OTHER: <u>report of drilling progress</u>
	<input type="checkbox"/> CONVERT WELL TYPE	<input type="checkbox"/> RECOMPLET: - DIFFERENT FORMATION	

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.  
12/29/2003: TD: 6,798', running intermediate logs

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DEC 29 2003  
DIV. OF OIL, GAS & MINING

NAME (PLEASE PRINT) <u>Timothy J. Brock</u>	TITLE <u>Manager - Engineering</u>
SIGNATURE 	DATE <u>12/29/2003</u>

(This space for State use only)

43-DAL-30030  
CONFIDENTIAL



**WOLVERINE GAS AND OIL Company of Utah, LLC**

<b>Main Office:</b>	
One Riverfront Plaza, 55 Campau NW Grand Rapids, Michigan 49503-2816	Telephone: (616) 458-1150 Fax: (616) 458-0829
<b>Mason Office:</b>	
763 Wolverine Road Mason, Michigan 48854-9304	Telephone: (517) 676-7023 Fax: (517) 676-7024

RECIPIENT: Carol Daniels

Utah DOGM

DATE: January 5, 2004

FROM: Tim Brock *TJB*

MATERIALS SENT: Form 9 - 12/29/2003

FAX NO.: 801-359-3940

NUMBER OF PAGES (including this cover sheet): 2

IF TRANSMISSION IS INCOMPLETE, PLEASE CALL Tim Brock AT (517) 676-7023

COMMENTS, IF ANY:

Attached is Wolverine's weekly report on the Kings Meadow Ranches 17-1. Please call if you have any questions.

**CONFIDENTIALITY NOTICE**

THIS FACSIMILE TRANSMISSION AND ANY ACCOMPANYING DOCUMENTS CONTAIN INFORMATION BELONGING TO THE SENDER WHICH MAY BE CONFIDENTIAL AND LEGALLY PRIVILEGED. THIS INFORMATION IS INTENDED ONLY FOR THE USE OF THE RECIPIENT TO WHOM THIS FACSIMILE TRANSMISSION WAS SENT AS INDICATED ABOVE. IF YOU ARE NOT THE INTENDED RECIPIENT, ANY DISCLOSURE, COPYING, DISTRIBUTION, OR ACTION TAKEN IN RELIANCE ON THE CONTENTS OF THE INFORMATION CONTAINED IN THIS FACSIMILE TRANSMISSION IS STRICTLY PROHIBITED. IF YOU HAVE RECEIVED THIS INFORMATION IN ERROR, PLEASE NOTIFY US IMMEDIATELY BY TELEPHONE AND RETURN THE ORIGINAL MESSAGE TO US VIA THE U.S. POSTAL SERVICE. WE WILL BE HAPPY TO REMIT THE POSTAGE COST BACK TO YOU.

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JAN 05 2004

DIV. OF OIL, GAS & MINING

014

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

FORM 9

<b>SUNDRY NOTICES AND REPORTS ON WELLS</b>		5. LEASE DESIGNATION AND SERIAL NUMBER:
		6. IF INDIAN, ALLOTTEE OR TRIBE NAME:
		7. UNIT or CA AGREEMENT NAME:
1. TYPE OF WELL OIL WELL <input type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <u>Drilling Well</u>		8. WELL NAME and NUMBER: <u>Kings Meadow Ranches 17-1</u>
2. NAME OF OPERATOR: <u>Wolverine Gas and Oil of Utah, LLC</u>		9. API NUMBER: <u>4304130030</u>
3. ADDRESS OF OPERATOR: <u>55 Campau, NW</u> CITY <u>Grand Rapids</u> STATE <u>MI</u> ZIP <u>49203</u>		10. FIELD AND POOL, OR WILDCAT:

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4. LOCATION OF WELL

FOOTAGES AT SURFACE: 2040' FNL & 2000' FWL COUNTY: Sevier

QTR/CTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: SENW 17 23S 1W S STATE: UTAH

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION		
<input type="checkbox"/> NOTICE OF INTENT (Submit in Duplicate) Approximate date work will start:	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> REPERFORATE CURRENT FORMATION
	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> SIDETRACK TO REPAIR WELL
	<input type="checkbox"/> CASING REPAIR	<input type="checkbox"/> NEW CONSTRUCTION	<input type="checkbox"/> TEMPORARILY ABANDON
	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> TUBING REPAIR
	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> VENT OR FLARE
<input checked="" type="checkbox"/> SUBSEQUENT REPORT (Submit Original Form Only) Date of work completion: <u>1/5/2004</u>	<input type="checkbox"/> CHANGE WELL NAME	<input type="checkbox"/> PLUG BACK	<input type="checkbox"/> WATER DISPOSAL
	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> PRODUCTION (START/RESUME)	<input type="checkbox"/> WATER SHUT-OFF
	<input type="checkbox"/> COMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input checked="" type="checkbox"/> OTHER: <u>report of drilling progress</u>
	<input type="checkbox"/> CONVERT WELL TYPE	<input type="checkbox"/> RECOMPLETE - DIFFERENT FORMATION	

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

12/29/2003: TD: 6,798', run the following logs:  
Dual Spaced Neutron: 6729'-surf  
Spectral Density: 6729'-surf  
Gamma Ray 6794'-surf  
Full Wave Sonic: 6794'-surf  
Dipmeter: 6729'-surf  
Calliper: 6794'-700'

12/30/2003: Run 9-5/8" 53.5#/ft 95/110 LTC csg. SA 6774.5' KB  
Cement w/ 310 sx 50/50 poz w/3% gel, 0.4% Halad 567, 3% D-Air 3000, 5#/sx Gilsomite, 0.25#/sx Flocele lead slurry @ 13 ppg  
385 sx 50/50 poz w/ 2% gel, 3% KCl, 3#/sx Silicalite, 1#/sx Granulite, 2% Halad 322 tail slurry @ 13.4 ppg. Bump plug, float held

01/04/2004: Drilling 7-7/8" hole at 7566'

NAME (PLEASE PRINT) <u>Timothy J. Brock</u>	TITLE <u>Manager - Engineering</u>
SIGNATURE <u><i>Timothy J. Brock</i></u>	DATE <u>1/5/2004</u>

(This space for State use only)

RECEIVED  
JAN 05 2004  
DIV. OF OIL, GAS & MINING

# DOUBLE JACK TESTING

BOF TEST INSPECTION

Date 11-2-83

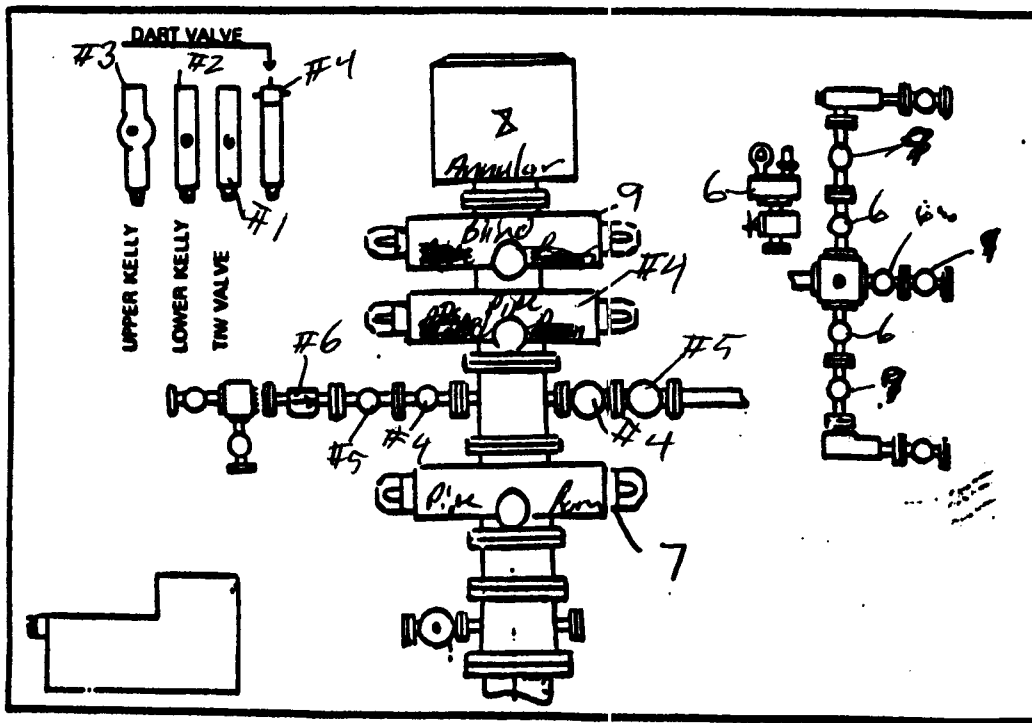
013

Well Kings Meadow Ranch 1-77 Rig Name and No. Unit 236  
 Operator Labluerne Oil & Gas Required Test Pressure 5000  
 Lease No. \_\_\_\_\_ BOF Rated Working Pressure 10,000  
 Tested (with/without) test plug? 12" C-22

Equipment	Test Number	Test Pressure	Test Period	Pressure Loss	Remarks
Annular	#3	5000	10		
Pipe Rams	#4	5000	10		
Blind Rams	#5	5000	10		
L. Pipe Rams	#7	5000	10		
Kill Line Valve 1	#4	5000	10		
Valve 2	#9	5000	10		
Check	#6	5000	10		
Choke Line Valve 1	#4	5000	10		
Valve 2	#5	5000	10		
Manifold Valves	#6, #9	5000	10		
Super Choke	#3	5000	10		
U. Kelly Cock	#3	5000	10		
L. Kelly Cock	#2	5000	10		
Safety Valve	#1	5000	10		
Casing					

Additional Tests and Comments: \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

Indicate on the diagram below which piece of equipment was isolated during which test.



Division of Oil, Gas and Mining  
**PHONE CONVERSATION DOCUMENTATION FORM**

Route original/copy to:

Well File \_\_\_\_\_  Suspense \_\_\_\_\_  Other \_\_\_\_\_  
 \_\_\_\_\_ (Return Date) \_\_\_\_\_  
 \_\_\_\_\_ (To-Initials) \_\_\_\_\_  
 \_\_\_\_\_

Kings Meadow Ranches 17-1  
 (Loc.) Sec 17 Twp 235 Rng. 1W  
 (API No.) 43-041-30030

1. Date of Phone Call: 11/14/04 Time: 4:30

2. DOGM Employee (name) J. Cordova ( Initiated Call)  
 Talked to:  
 Name Pat Clark ( Initiated Call) - Phone No. (307) 259-6261  
 of (Company/Organization) \_\_\_\_\_

3. Topic of Conversation: Drilling Status?

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

4. Highlights of Conversation: \_\_\_\_\_

8559' (two days ago)  
20' motor stuck in hole, fished 1 1/2 days to retrieve, unsuccessful.  
Tripped out of hole to 8328' ±. cmt. on top of motor.  
Now at 8328', intend to sidetrack ±. chg. TD' from  
9720 to 10,700 - 11,000. Approx. 2 weeks to complete.  
H2S safety training at start of operations, unmeasured  
unit on location. H2S contingency plan submitted with APD.

\* Op. should have gotten DOGM approval to cmt ±. sidetrack prior  
to operations. I requested into. USAP for approval after the fact.  
Need DOGM approval for TD chg. also - reg. on the way!

016

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

FORM 9

<b>SUNDRY NOTICES AND REPORTS ON WELLS</b>		5. LEASE DESIGNATION AND SERIAL NUMBER:
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.		6. IF INDIAN, ALLOTTEE OR TRIBE NAME:
1. TYPE OF WELL OIL WELL <input type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <u>Drilling Well</u>		7. UNIT or CA AGREEMENT NAME:
2. NAME OF OPERATOR: Wolverine Gas and Oil of Utah, LLC		8. WELL NAME and NUMBER: Kings Meadow Ranches 17-1
3. ADDRESS OF OPERATOR: 55 Campau, NW CITY Grand Rapids STATE MI ZIP 49203	PHONE NUMBER: (616) 458-1150	9. API NUMBER: 4304130030
4. LOCATION OF WELL FOOTAGES AT SURFACE: 2040' FNL & 2000' FWL QTRQTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: SENW 17 23S 1W S	COUNTY: Sevier	10. FIELD AND POOL, OR WILDCAT:
	STATE: UTAH	

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA			
TYPE OF SUBMISSION	TYPE OF ACTION		
<input type="checkbox"/> NOTICE OF INTENT (Submit in Duplicate) Approximate date work will start: _____	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> REPERFORATE CURRENT FORMATION
<input checked="" type="checkbox"/> SUBSEQUENT REPORT (Submit Original Form Only) Date of work completion: 1/14/2004	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> FRACTURE TREAT	<input checked="" type="checkbox"/> SIDETRACK TO REPAIR WELL
	<input type="checkbox"/> CASING REPAIR	<input type="checkbox"/> NEW CONSTRUCTION	<input type="checkbox"/> TEMPORARILY ABANDON
	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> TUBING REPAIR
	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> VENT OR FLARE
	<input type="checkbox"/> CHANGE WELL NAME	<input type="checkbox"/> PLUG BACK	<input type="checkbox"/> WATER DISPOSAL
	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> PRODUCTION (START/RESUME)	<input type="checkbox"/> WATER SHUT-OFF
	<input type="checkbox"/> COMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input type="checkbox"/> OTHER: _____
	<input type="checkbox"/> CONVERT WELL TYPE	<input type="checkbox"/> RECOMPLETE - DIFFERENT FORMATION	

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

While drilling at 8,549', the mud motor twisted off, leaving the bit and part of the mud motor in the hole, a total fish length of 19'. Two attempts to fish the motor and bit were made, unsuccessfully. It was decided to set an 85 sx cement plug (17ppg, 'AG-300' w/ 0.3% CFR-3 & 0.1% HR-5, 0.99ft<sup>3</sup>/sx) on top of the fish and sidetrack around it. In order to set the plug, we ran in with 315' of 2-7/8" EUE tubing as a slinger on the end of the drill pipe to the top of the fish. We then pumped a 10 bbl water spacer, the 85 sx plug, 10 bbl of water behind the plug and 106 bbl of mud. We pulled out of the plug and circulated one hole volume before pulling out of the hole. The calculated top of the plug is at 8,328'. We plan to wait 24 hours from the end of pumping (14:00 1/14/2004) before dressing off the plug to sidetrack.

NAME (PLEASE PRINT) <u>Timothy J. Brock</u>	TITLE <u>Manager - Engineering</u>
SIGNATURE	DATE <u>1/15/2004</u>

(This space for State use only)

Accepted by the  
Utah Division of  
Oil, Gas and Mining

(5/2000)

Date: 1/15/04  
By:





Wolverine Gas and Oil Corporation

## WOLVERINE GAS AND OIL CORPORATION

<b>Main Office:</b>	
One Riverfront Plaza, 55 Campau NW Grand Rapids, Michigan 49503-2616	Telephone: (616) 458-1150 Fax: (616) 458-0869
<b>Mason Office:</b>	
763 Wolverine Road Mason, Michigan 48854-9304	Telephone: (517) 676-7023 Fax: (517) 676-7024

RECIPIENT: Lisha Cordova, Utah DOGM

DATE: January 15, 2004

FROM: Tim Brock 

MATERIALS SENT: Form 9

FAX NO.: (801) 359-3940

NUMBER OF PAGES (including this cover sheet): 2

IF TRANSMISSION IS INCOMPLETE, PLEASE CALL Tim Brock AT (517) 676-7023

COMMENTS, IF ANY:

Lisha,  
Attached is the Form 9 for plugging back the Kings Meadow Ranches 17-7 and sidetracking around the junk in the hole. Please call me if you have any questions.

### CONFIDENTIALITY NOTICE

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

**Confidential Hole**

FORM 9

**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:  
6. IF INDIAN, ALLOTTEE OR TRIBE NAME:  
7. UNIT or CA AGREEMENT NAME:  
**Wolverine Federal Unit**  
8. WELL NAME and NUMBER:  
**Kings Meadow Ranches 17-1**  
9. API NUMBER:  
**4304130030**  
10. FIELD AND POOL, OR WILDCAT:

1. TYPE OF WELL: OIL WELL  GAS WELL  OTHER Drilling Well

2. NAME OF OPERATOR:  
**Wolverine Gas and Oil of Utah, LLC**

3. ADDRESS OF OPERATOR:  
**55 Campau, NW** CITY **Grand Rapids** STATE **MI** ZIP **49203** PHONE NUMBER: **(616) 458-1150**

4. LOCATION OF WELL:  
FOOTAGES AT SURFACE: **2040' FNL & 2000' FWL** COUNTY: **Sevier**  
QTR/CTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: **SENW 17 23S 1W S** STATE: **UTAH**

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION		
<input type="checkbox"/> NOTICE OF INTENT (Submit in Duplicate) Approximate date work will start:	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> REPERFORATE CURRENT FORMATION
	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> FRACTURE TREAT	<input checked="" type="checkbox"/> SIDETRACK TO REPAIR WELL
	<input type="checkbox"/> CASING REPAIR	<input type="checkbox"/> NEW CONSTRUCTION	<input type="checkbox"/> TEMPORARILY ABANDON
	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> TUBING REPAIR
	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> VENT OR FLARE
<input checked="" type="checkbox"/> SUBSEQUENT REPORT (Submit Original Form Only) Date of work completion: <b>1/19/2004</b>	<input type="checkbox"/> CHANGE WELL NAME	<input type="checkbox"/> PLUG BACK	<input type="checkbox"/> WATER DISPOSAL
	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> PRODUCTION (START/RESUME)	<input type="checkbox"/> WATER SHUT-OFF
	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input type="checkbox"/> OTHER: _____
	<input type="checkbox"/> CONVERT WELL TYPE	<input type="checkbox"/> RECOMPLUTE - DIFFERENT FORMATION	

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

After setting the cement plug on 1/14/2004, we WOC for 24 hours, then dressed the plug off to 8,338' and kicked off the plug, drilling to 8,608'. At this depth, we made a bit trip, and upon reaming the bottom got into the old hole, as evidenced by cement returns in the cuttings. We continued to drill to 8,523'. We then decided to set another cement plug from 8,523' to 8,100' (est'd top of plug). The plug is 185 sx Class G w/ 0.8% dispersant & 0.1% retarder. We plan to kick off this plug to get around the fish and continue to our authorized TD, with no change in bottom hole location.

NAME (PLEASE PRINT) Timothy J. Brock TITLE Manager - Engineering

SIGNATURE *Timothy J. Brock* DATE 1/20/2004

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JAN 20 2004  
DIV. OF OIL, GAS & MINING

43-041-30030



**WOLVERINE GAS AND OIL Company of Utah, LLC**

<b>Main Office:</b>	
One Riverfront Plaza, 55 Campau NW Grand Rapids, Michigan 49503-2816	Telephone: (816) 458-1150 Fax: (816) 458-0869
<b>Mason Office:</b>	
763 Wolverine Road Mason, Michigan 48854-9304	Telephone: (517) 678-7023 Fax: (517) 678-7024

RECIPIENT: Carol Daniels

Utah DOGM

DATE: January 20, 2004

FROM: Tim Brock

MATERIALS SENT: Form 9 - 01/20/2004

FAX NO.: 801-359-3940

NUMBER OF PAGES (including this cover sheet): 2

IF TRANSMISSION IS INCOMPLETE, PLEASE CALL Tim Brock AT (517) 678-7023

COMMENTS, IF ANY:

Attached is a Form 9 for the Kings Meadow Ranches 17-1. Please call if you have any questions.

**CONFIDENTIALITY NOTICE**

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JAN 20 2004

DIV. OF OIL, GAS & MINING

# DOUBLE JACK TESTING

## BOP TEST INSTRUCTION

Date 1-20-03

Well WES MESSIAH Ranch 17-1  
 Operator WOLVERINE OIL Co  
 Lease No. \_\_\_\_\_  
 Tested (with/without) test plug? \_\_\_\_\_

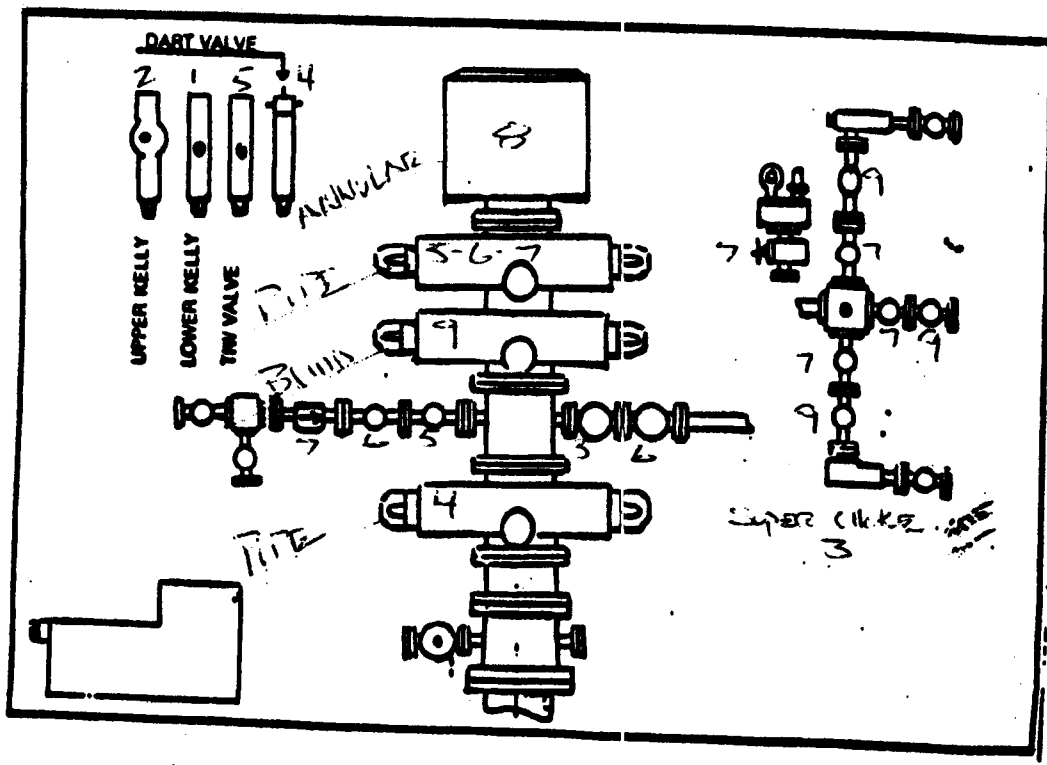
Big Name and No. UNIT 230  
 Required Test Pressure 5000 PSI  
 BOP Rated Working Pressure \_\_\_\_\_

Equipment	Test Number	Test Pressure	Test Period	Pressure Loss	Remarks
Annular	8	2500	10		
Pipe Rams	5-7	5000	10		
Blind Rams	4	5000	10		
L. Pipe Rams	4	5000	10		
Kill Line Valve 1	3	5000	10		
Valve 2	6	5000	10		
Check	7	5000	10		
Choke Line Valve 1	5	5000	10		
Valve 2	6	5000	10		
Manifold Valves	7-9	5000	10		
Super Choke	3	5000	10		
U. Kelly Cock	2	5000	10		
L. Kelly Cock	1	5000	10		
Safety Valve	5	5000	10		
Casing					
DART VALVE	4	5000	10		

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 JAN 27 2003  
 DIV OF OIL GAS & MINING

Additional Tests and Comments: \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

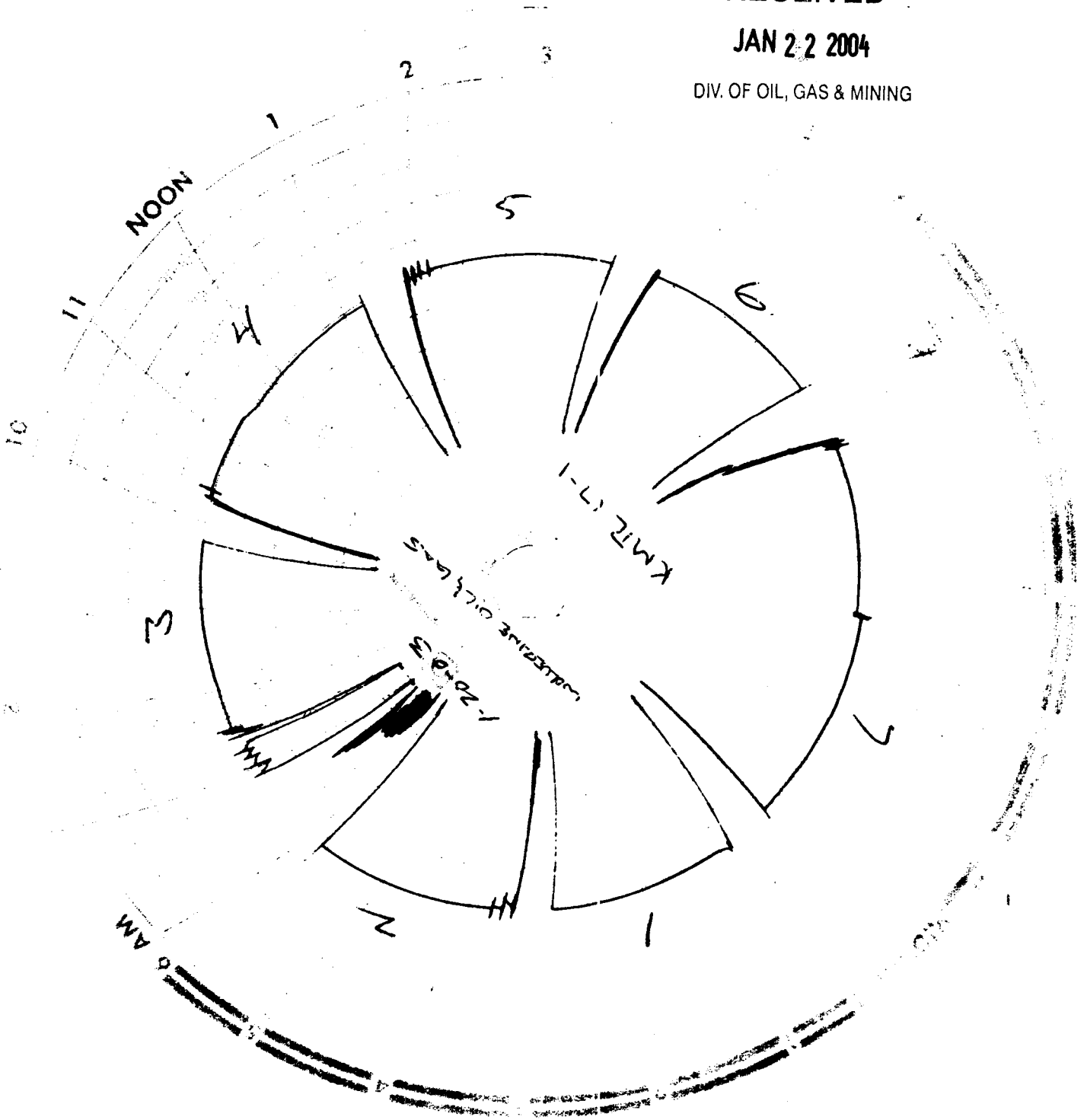
Indicate on the diagram below which piece of equipment was isolated during which test.



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JAN 22 2004

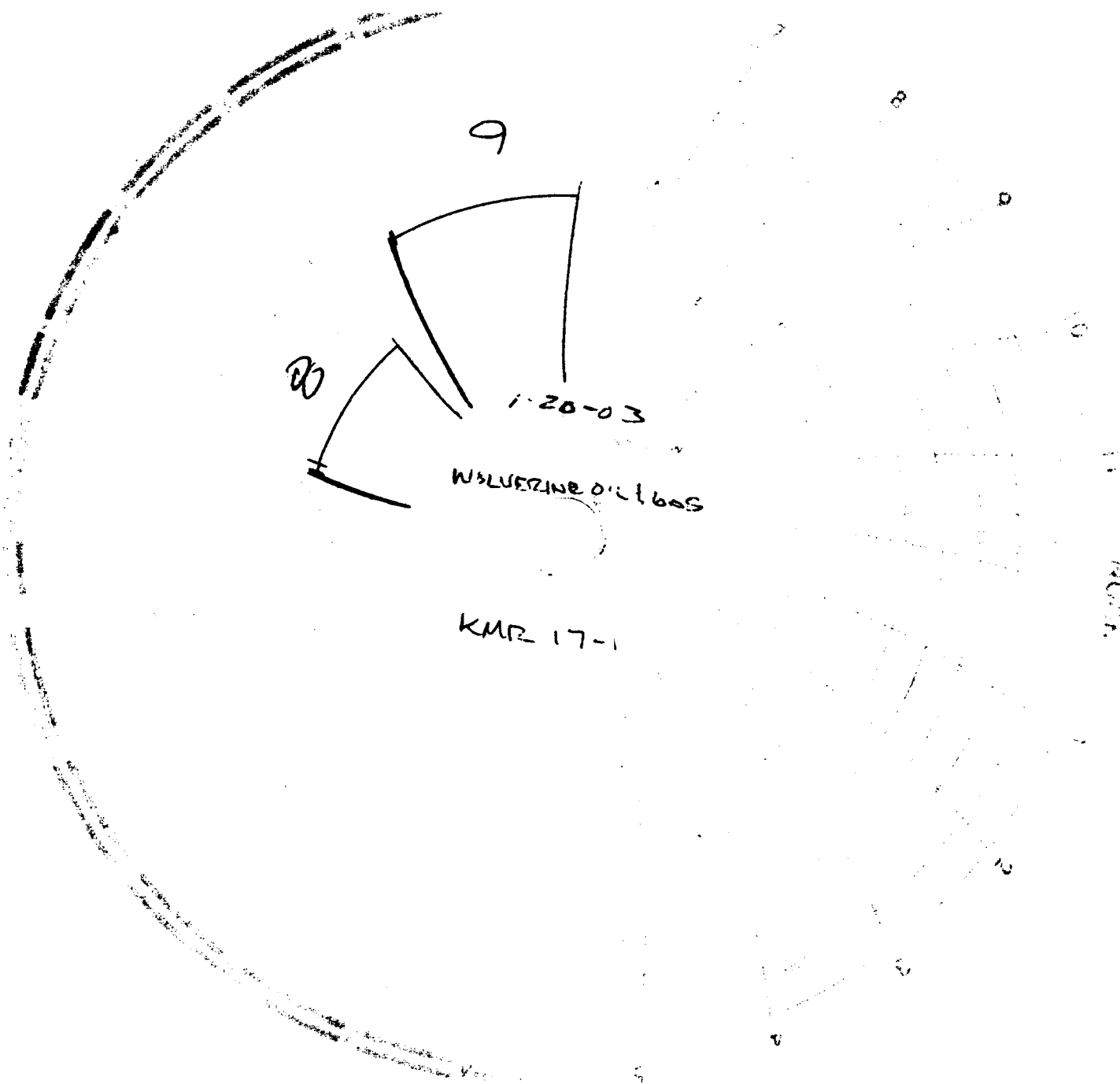
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JAN 22 2004

DIV. OF OIL, GAS & MINING



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

FORM 9

**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, re-enter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.

1. TYPE OF WELL OIL WELL <input type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <u>Drilling Well</u>		4. LEASE DESIGNATION AND SERIAL NUMBER:
2. NAME OF OPERATOR: Wolverine Gas and Oil of Utah, LLC		5. IF INDIAN, ALLOTTEE OR TRIBE NAME:
3. ADDRESS OF OPERATOR: 55 Campau, NW CITY Grand Rapids STATE MI ZIP 49203		7. UNIT or CA AGREEMENT NAME:
4. LOCATION OF WELL FOOTAGES AT SURFACE: 2040' FNL & 2000' FWL COUNTY: Sevier		8. WELL NAME and NUMBER: Kings Meadow Ranches 17-1
QUADTR. SECTION, TOWNSHIP, RANGE, MERIDIAN: SENW 17 23S 1W S STATE: UTAH		9. API NUMBER: 4304130030
		10. FIELD AND POOL, OR WILDCAT:
		PHONE NUMBER: (516) 458-1150

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11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION		
<input type="checkbox"/> NOTICE OF INTENT (Submit in Duplicate) Approximate date work will start:	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> REPERFORATE CURRENT FORMATION
	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> SIDETRACK TO REPAIR WELL
	<input type="checkbox"/> CASING REPAIR	<input type="checkbox"/> NEW CONSTRUCTION	<input type="checkbox"/> TEMPORARILY ABANDON
	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> TUBING REPAIR
	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> VENT OR FLARE
<input checked="" type="checkbox"/> SUBSEQUENT REPORT (Submit Original Form Only) Date of work completion: 2/3/2004	<input type="checkbox"/> CHANGE WELL NAME	<input type="checkbox"/> PLUG BACK	<input type="checkbox"/> WATER DISPOSAL
	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> PRODUCTION (START/RESUME)	<input type="checkbox"/> WATER SHUT-OFF
	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input checked="" type="checkbox"/> OTHER: <u>report of drilling progress</u>
	<input type="checkbox"/> CONVERT WELL TYPE	<input type="checkbox"/> RECOMPLETE - DIFFERENT FORMATION	

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

01/27/2004: TD 7-7/8" hole @ 9458', run the following logs:

Dual Spaced Neutron: 9313' - 6773'

Spectral Density: 9313' - 6773'

Gamma Ray 9313' - 6773'

Full Wave Sonic: 9313' - 6773'

Dipmeter: 9313' - 6773'

Calliper: 9313' - 6773'

High Resolution Induction: 9340' - 6763'

Cement Bond Log: 6773' - 4700'

01/31/2004: Run 5-1/2" 17#/R L80 LTC csg, set @ 9396' kb

02/02/2004: Cement w/ 620 sx Class 'G' w/ 20% SSA-1, 5ppp silicate, 0.2% Versaset, 0.3% Diacel LWL, foamed to 11ppg w/

70,000 scf N2; Bump plug, float held, WOC 1:30am 2/2/04

02/03/2004: Release rig, waiting on completion

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FEB 05 2004

DIV. OF OIL, GAS & MINING

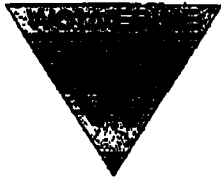
NAME (PLEASE PRINT) Timothy J. Brock

TITLE Manager - Engineering

SIGNATURE: *Timothy J. Brock by [Signature]*

DATE 2/3/2004

(This space for State use only)



Wolverine Gas and Oil Corporation

**WOLVERINE GAS AND OIL Company of Utah, LLC**

<b>Main Office:</b> One Riverfront Plaza, 55 Campau NW/ Grand Rapids, Michigan 49503-2616	Telephone: (616) 458-1150 Fax: (616) 458-0869
<b>Mason Office:</b> 763 Wolverine Road Mason, Michigan 48854-9304	Telephone: (517) 676-7023 Fax: (517) 676-7024

RECIPIENT: Carol Daniels

Utah DOGM

DATE: February 4, 2004

FROM: Tim Brock

MATERIALS SENT: Form 9 - 02/04/2004

FAX NO.: 801-359-3940

NUMBER OF PAGES (including this cover sheet): 2

IF TRANSMISSION IS INCOMPLETE, PLEASE CALL Tim Brock AT (517) 676-7023

COMMENTS, IF ANY:

Attached is a Form 9 for the Kings Meadow Ranches 17-1. Please call if you have any questions.

RECEIVED  
FEB 05 2004  
DIV. OF OIL, GAS & MINING

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**Steven R Hash****From:** Steven R Hash [stevehash@exactengineering.com]**Sent:** Friday, April 09, 2004 12:29 AM**To:** 'Dustin Doucet'**Cc:** 'Tim Brock'**Subject:** Wolverine - Kings Meadow Ranches #17-1 well *T-235 ROW 5-17 43-041-30030*

Dear Mr. Doucet,

Please find attached a Sundry with March completion reports for the subject well. PLEASE MAINTAIN CONFIDENTIAL. An original with signature is being placed in the USMail simultaneously with this transmittal. Thank you for your cooperation in these regards.

Steve

Steven R. Hash

EXACT Engineering, Inc.

415 S. Boston, Suite 734

Tulsa, OK 74103

office: (918) 599-9400 fax: (918) 599-9401

direct: (918) 599-9801 mob fax: (801) 640-7470

[stevehash@exactengineering.com](mailto:stevehash@exactengineering.com)

Petroleum Engineering Consulting, Personnel and Jobsite Supervision

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APR 15 2004

DIV. OF OIL, GAS &amp; MINING

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

5. LEASE DESIGNATION AND SERIAL NUMBER:  
**FEE**

**SUNDRY NOTICES AND REPORTS ON WELLS**

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

7. UNIT or CA AGREEMENT NAME:

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.

1. TYPE OF WELL  
OIL WELL  GAS WELL  OTHER Drilling Well

8. WELL NAME and NUMBER:  
**Kings Meadow Ranches 17-1**

2. NAME OF OPERATOR:  
**Wolverine Gas and Oil of Utah, LLC**

9. API NUMBER:  
**4304130030**

3. ADDRESS OF OPERATOR:  
**55 Campau, NW** CITY **Grand Rapids** STATE **MI** ZIP **49203**

PHONE NUMBER:  
**(616) 458-1150**

10. FIELD AND POOL, OR WILDCAT:

4. LOCATION OF WELL  
FOOTAGES AT SURFACE: **2040' FNL & 2000' FWL** COUNTY: **Sevier**  
QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: **SENW 17 23S 1W S** STATE: **UTAH**

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION		
<input type="checkbox"/> NOTICE OF INTENT (Submit in Duplicate) Approximate date work will start: _____	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> DEEP EN	<input type="checkbox"/> REPERFORATE CURRENT FORMATION
	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> SIDETRACK TO REPAIR WELL
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	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> VENT OR FLARE
<input checked="" type="checkbox"/> SUBSEQUENT REPORT (Submit Original Form Only) Date of work completion: <b>3/31/2004</b>	<input type="checkbox"/> CHANGE WELL NAME	<input type="checkbox"/> PLUG BACK	<input type="checkbox"/> WATER DISPOSAL
	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> PRODUCTION (START/RESUME)	<input type="checkbox"/> WATER SHUT-OFF
	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input checked="" type="checkbox"/> OTHER: <u>report of drilling progress</u>
	<input type="checkbox"/> CONVERT WELL TYPE	<input type="checkbox"/> RECC MPLETE - DIFFERENT FORMATION	

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

Report of completion operations for the months of February & March 2004 is attached...

PLEASE KEEP THE ENCLOSED INFORMATION CONFIDENTIAL - THANK YOU

**RECEIVED**  
**APR 15 2004**  
DIV. OF OIL, GAS & MINING

NAME (PLEASE PRINT) Steven R. Hash  
SIGNATURE Steven R. Hash

TITLE Consultant & Agent for Wolverine Gas & Oil  
DATE 4/9/2004

**Daily Operations Report**

page 1 of 4

**Wolverine Gas & Oil Company of Utah, LLC**  
**Kings Meadow Ranches #17-1 well**  
**SE NW Sec 17 T23S R01W**  
**Sevier Co., Utah**

**New Completion**  
**5-1/2" 17# L80 @ 9295' PBSD**

**GL. to KB: 23' WO rig KB: 7'**

**"TIGHT HOLE – PLEASE MAINTAIN CONFIDENTIAL"**

- 02/11/04 FIRST COMPLETION REPORT – (brief operation to run bond log in upper csg). Cameron install 1-13/16" 10m gate valve on B-section & remove well cap. Halco WLS MIRU & RIH w/ 3-1/8" VD-CBL tool w/ bow centralizers in 5-1/2" csg. Tool set down in csg 16 times from 1810 to 6290', must be pushing ice plug ahead. Work tool to 6320' kb (stage tool @ 6555' kb). Log to top of cement behind 5-1/2" at approximately 5300'. Log top of cement behind 9-5/8" at 4900'. Go back to btm with tool and attempt to get deeper, did not. POOH. Bleed nitrogen buildup from 9-5/8" x 5-1/2" annulus in 20 min, leave csg valve open during next pressure test. Cameron re-install well cap, hook Adler Hot Oil pump truck to csg, load 5-1/2" csg with 2 bbls brine water, pressure test 5-1/2" to 3025 psi with 1 bbl, shut in to monitor, no indication of circulation to 9-5/8" x 5-1/2" annulus. 5-1/2" csg pressure bled to 2950 psi in 10 min, 2850 in 20 min (6%). Release pressure and release Adler. Remove well cap & Halco RIH w/ JB & 4.4" OD gauge ring on wireline, set down @ 6450', 130 ft deeper than CBL. Spud several times, did not get deeper, POOH. Re-install well cap, lock csg valve with padlock. Rig down & release Halco & Cameron, secure well & lock location gate @ 6pm. Status: Waiting on completion anticipated in approx 30 days, OFF REPORT UNTIL FURTHER ACTIVITY. NOTE: Gate & wellhead combination 1150; CMOL: SHash
- 03/03/04 Status report - Target completion for week of 3/15-19; location has been wet all month, Nielsen Construction to move in equipment 3/5 and begin cleaning location & hauling rock on 3/8. MD Well Service WSU, pump, tank & swivel scheduled for week of 3/15-19.
- 03/15/04 Status report - Nielsen cleaned location 3/8 to 3/10 & spread 16 loads 2" rock on lease road and around wellhead. Rky Mtn set (4) OSHA approved rig anchors & pull tested to 20,000#. MD Well Service scheduled to move in rig Wed 3/17. Engr: SHash
- 03/17/04 ON REPORT - sunny, 50°  
 Moved in MD Well Service late yesterday, prep to move in equipment, rig up & recv tbg today. Expect to begin drilling stage tool tomorrow  
 CMOL: SHash
- 03/18/04 Day #1 sunny, 55°  
 Check well pressures; 5-1/2" csg on slight vacuum for 5 min; 9-5/8" x 5-1/2" csg annulus had 120 psi, bled off nitrogen in 2 min; left csg gate valve in cellar open & piped up above GL on south side of east csg valve; 13-3/8" x 9-5/8" slight blow, bled off; left csg gate valve in cellar open and piped up above GL on north side of east csg valve. Filled cellar with 2" rock to GL in order to set rig base beam. RU MD WSU rig #5, spotted rig pump & tank, catwalk & (1) set p peracks & power swivel. Spotted open top flow back tank, (4) frac tanks for treated fluid, (2) frac tanks for produced fluid, trailer house & storage container. Received & racked 300 jts of 2-7/8" 6.5ppf L80 EUE 8rd Koeppel seamless tubing w/ 2,4,6,8,10' tbg subs. Removed 7-1/16" 10k cap flange, installed 7-1/16" 10m x 7-1/16" 5m adapter spool, NU 7-1/16" 5m hydraulic BOP w/ 2-7/8" rams top & CSO rams btm w/ closing unit. Received (6) drill collars, handling tools, etc. Tallied collars & prep to RH w/ drilling BHA in am. SDFN @ 7pm  
 CMOL: SHash
- 03/19/04 Day #2 sunny, 55-60°  
 7am – RU power tbg tongs and make rig adjustments, make-up Varel 4-3/4" rock bit, xo, (6) 3-1/2" od DC's, xo, 2.25" SN; BHA is 181.32'. Tubing tongs failed, could not repair, backup tongs not yet on rig, shut down for day @ 9:30am, off company time. Roustabouts continued laying flowback and test lines and hooking up tanks. Weatherford Completions toolman on location to witness drillout. Replacement tongs on location by 7pm.  
 CMOL: SHash

**EXACT Engineering, Inc. 415 S. Boston, Suite 734, Tulsa, OK 74103 (918) 599-9400**

*Petroleum Engineering Consulting, Personnel & Jobsite Supervision*

*Complete well design, construction & management, drilling, completion, production, pipelines, evaluations, due diligence, acquisitions, procedures, temporary personnel and field supervision*

## Daily Operations Report

page 2 of 4

Wolverine Gas & Oil Company of Utah, LLC  
 Kings Meadow Ranches #17-1 well  
 SE NW Sec 17 T23S R01W  
 Sevier Co., Utah

New Completion  
 5-1/2" 17# L80 @ 9295' PBTD

GI. to KB: 23' WO rig KB: 7'

"TIGHT HOLE – PLEASE MAINTAIN CONFIDENTIAL"

- 03/20/04 Day #3 sunny, 70°  
 7am – RU replacement power tongs, pick up 2-7/8" tbg & TIH to 6398', start taking weight 6-8 pts, 8-10 pts drag up, LD 2 jts to 6320'. RU rig pump & lines, break circulation down tbg w/ 2 bbls, ok, PT 5-1/2" csg & BOPE to 3100 psi, bled to 3050 psi in 20 min, ok, release. (note: prior test bled 3025 to 2850 in 20 min on Feb 11). RIH w/ 5 jts to 6472', tag up, sticky. POOH to 6430, circ drlg mud out of hole w/ 150 bbls 4% KCl until clean. SWI&SDFN @ 7pm  
 CMOL: SHash
- 03/21/04 Day #4 sunny, 80°  
 7am – SICP zero, RIH to 6478, tag up, pick up power sw vel, reverse circ washing fill w/ 2-4 pts to 6527', tag solid btm, suspect stage tool @ 6527', circ clean, shut down. Set 15 pts weight on stage tool & pressure up to 2000 psi to attempt to open tool, held ok, no response. Drilled stage tool & opening dart @ 6527' in 20 min with 2-3 pts, recv 2 qts cuttings, RIH w/ tbg to 6605', ok. Close rams & attempt to PT csg to 3000 psi, brokedown @ 2300 psi, SD, standing pressure 1100 psi. Conduct injection test as follows: 1 bpm for 5 min @ 1400 to 1150 psi; 2 bpm for 10 min @ 1300 to 1100 psi; 3 bpm for 10 min @ 2700 to 2000; shutdown test, 55 bbls total pumped into hole in csg. All pumping done with 9-5/8" annulus open, no indication, dead. RIH picking up tbg to 6983 (215 jts), SD&SWIFN @ 7pm.  
 Weatherford toolman on location. CMOL: SHash
- 03/22/04 Day #5 sunny, 75°  
 7am – SICP zero, finish picking up 289 jts of 2-7/8" tbg, tag solid btm @ 9295' kb, tbg measure. Pick up 2 ft & circ hole w/ 130 bbls 4% KCL drlg fluid. POOH w/ 144 stds tbg & BHA. Add 5-1/2" csg scraper to BHA, new BHA #2 = 183.84'. TIH w/ BHA #2 & 196 jts to 6386', 141' above stage tool. SD&SWIFN @ 5:30pm.  
 CMOL: SHash
- 03/23/04 Day #6 sunny, 85°  
 7am – SICP zero, RIH w/ scraper assy to stage tool @ 6527', reciprocate scraper thru stage tool (8) times while turning pipe, TIH to TD @ 9295', reverse circ well w/ 220 bbls 4% KCl drlg fluid. POOH, SWI&SDFN @ 6:30pm. Next move: run Schlumberger USIT log  
 CMOL: SHash
- 03/24/04 Day #7 sunny, 70°  
 6am – SICP slight blow, RU SWS to run UltraSonic Image Tool (USIT) in 5-1/2" csg. Logged from 9295 to 4500'; logged stage tool @ 6527'. Released rig crew @ 4pm while still logging. Ran VD-CBL w/ CCL from 9288' to 4500'. RD SWS. SWI&SDFN @ 1am. SWS crew inexperienced in USIT tool operation & interpretation. Weatherford toolman on location. Next move: Run pkr & locate leak. CMOL: SHash
- 03/25/04 Day #8 partly cloudy, 60°  
 7am – SICP slight blow, pickup WF 5-1/2" x 2-7/8" model HD pkr w/ 2.25" SN (1) jt up & TIH to 6552', set pkr 25' below stage tool @ 6552'. PT down tbg & pump in @ 1-1/2 bpm @ 2600 psi. PT annulus & WF stage tool to 3000 psi, good. WF stage tool not leaking. Reset pkr @ 7594', pump in to tbg as above, PT annulus to 3000 psi, good. Reset pkr @ 8101', PT same as above. Reset pkr @ 8605', PT same as above. Reset pkr @ 8921, PT same as before. During all tests casing held 3000 psig & could inject into tbg @ 1 to 2 bpm @ 2000 psi, pressure would bleed to zero in 5 min. Proposed btm perf is 8690'. Release pkr & reverse circulate 220 bbls of clean 4% KCL until flow clean. POOH w/ tbg & pkr. SD&SWIFN @ 7pm. Weatherford toolman on location. Next move: LD DC's & set CIBP @ ~ 8900' in 5-1/2" csg.  
 CMOL: SHash

**EXACT Engineering, Inc. 415 S. Boston, Suite 734, Tulsa, OK 74103 (918) 599-9400**

*Petroleum Engineering Consulting, Personnel & Jobsite Supervision*

*Complete well design, construction & management, drilling, completion, production, pipelines, evaluations, due diligence, acquisitions, procedures, temporary personnel and field supervision*

## Daily Operations Report

page 3 of 4

Wolverine Gas & Oil Company of Utah, LLC  
 Kings Meadow Ranches #17-1 well  
 SE NW Sec 17 T23S R01W  
 Sevier Co., Utah

New Completion  
 5-1/2" 17# L80 @ 9295' PBD

GI. to KB: 23' WO rig KB: 7'

"TIGHT HOLE – PLEASE MAINTAIN CONFIDENTIAL"

- 03/26/04 Day #9 partly cloudy, 55°  
 7am - SICP zero, LD 6 DC's, RU Computalog. RIH w/ gauge ring to 8915', OK, POOH. Set Alpha Big Boy 10k CIBP @ 8850' kb, POOH. Load csg & PT to 3000 psi, good. RIH w/ cmt bailer and dump 3sx or 24' of cement on top of CIBP, POOH, WOC. New PBD = 8826' SWI&SDFN @ 4:30.  
 Next move: Run TCP guns CMOL: SHash
- 03/27/04 Day #10 cloudy, 40°  
 7am – SICP zero, RU WellServ Intervention Services WLU, make up WellServ tbq conveyed perforating assembly as shown on the attached WBD to perforate Lvr Navajo zone #1 in 5-1/2" csg from 8670'-8690' (20'), 4 jpf @ 60° phasing per open hole Spectral-Density Log dated 29Jan04 w/ Owen SDP 39gm charges for 0.43 diam hole & 34 in penetration - total 80 holes. TIH w/ gun assy, mechanical firing head, spacer jts, underbalance ceramic disk, "X" nipple, tbq jt, Arrow 1X 10k retrievable casing pkr, tbq jt, 6' marker jt, 2 tbq jts, 2-7/8" (2.250 id) SN & tbq to surface. Stop @ 2286' in hole & fill tbq with 4% KCL water for 1000 psig water cushion. Land string in wellhead, RU WellServ wireline, RIH w/ gamma ray and log in marker jt – correcting to open hole log. POOH w/ WL & space out tbq for correct depth. Set Arrow 1X pkr @ 8548' w/ 30 pts set wt on pkr w/ top shot @ 8670 & btm shot @ 8690, "X" nipple (2.31") @ 8587' & 2.25" id SN @ 8448. RIH w/ gamma ray, log marker jt within 1/2 ft of planned depth, good. ND BOPE & NU 10m tree. PT 9-5/8" x 5-1/2" annulus to 800 psi, lock in. Hookup flowline from wellhead to flowback manifold & SWI&SDFN @ 7pm. Next move: drop firing bar & test CMOL: SHash
- 03/28/04 Day #11 clear, 50°  
 7am – SITP zero, Held safety mtg, applied 1000 psi to casing, PT flowline & wellhead to 4000 psi, found flowline leak, repaired. Dropped bar @ 10am, observed flicker in csg pressure after 2 min, casing pressure increased to 1300 psi in 10 min, tbq pressure increased to 90 psi in 15 min. Pressures stabilized in 1 hr at SITP 290 psi & SICP 1750 psi. Opened well to pit @ 1pm on a 30/64" chk, bled down in 1 min to zero, monitored while rigging up to swab, well dead. Made 1 swab run to SN @ 8448' without cups. Began swabbing @ 2:30pm, BFL 300' fs, made 6 swab runs & recovered 13 BLW & 51 BNW in 3 hrs. Pulling from 3000', could not swab down, EFL 300' fs, deepest pull from 3000'. No show of oil or gas during swabbing. SICP increased to 2000 psi while swabbing. Collected 3 gal sample from end of last swab run. Sample #1 SG 1.04; 32,000 ppm Cl, pH 7.5, no significant fines. SWI&SDFN @ 6:30pm Next move: SDF Sunday, prep to abandon & move uphole CMOL: SHash
- 03/29/04 Day #12 clear, 50°  
 SITP 20 psi, SICP 1100, SDF Sunday CMOL: SHash
- 03/30/04 Day #13 clear, 50°  
 SITP 20 psi, SICP 1100, zone #1 8670' – 8690', PBD 8824'  
 Release pressure, ND tree, NU BOPE, well balanced, release pkr & POOH with tbq & laydown all tools. Pkr dragged all way out of hole. RU WellServ WLU. Run GR-JB in 5-1/2" csg to 8650', POOH. Set Arrow 10k CIBP @ 8600' on wireline, POOH. Load hole w/ 15 bbls 4% KCL & PT to 4000 psi, OK. Dump bail 20ft cement on plug. New PBD = 8580'. Skip zone 2, perf zone 3 select fire at 8187, 8263, 8270, 8293, 8347, 8364 with 2 jpf @ 180° phasing per open hole Spectral-Density Log dated 29Jan04 w/ Owen SDP 39gm charges for 0.46 diam hole & 40.39 in penetration - total 6 ft w/ 12 holes, note: planned perfs at 8175' did not fire. No change in fluid level while perforating. SWI&SDFN @ 8pm. Next move: run pkr & tbq CMOL: SHash

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**Daily Operations Report**

page 4 of 4

**Wolverine Gas & Oil Company of Utah, LLC  
Kings Meadow Ranches #17-1 well  
SE NW Sec 17 T23S R01W  
Sevier Co., Utah**

**New Completion  
5-1/2" 17# L80 @ 9295' PBDT**

**GL. to KB: 23' WO rig KB: 7'**

**"TIGHT HOLE – PLEASE MAINTAIN CONFIDENTIAL"**

03/31/04 Day #14

clear, 65°

SICP zero, zone #3 (perms 8187, 8263, 8270, 8293, 8347, 8364), PBDT 8580'  
RD WellServ WLU, pick up WF Arrow 5-1/2" x 2-7/8" 10k retr csg pkr (7.0'), 1 jt 2-7/8" tbg (31.70'),  
2.31" id "X" profile nipple (1.27'), and TIH w/ 255 jts 2-7/8" tbg (8053.40); overall 8093.37'; set below kb  
21'; less compression 3.2'; btm pkr set at 8111', "X" nipple @ 8071'. ND BOPE, land tbg & NU tree &  
flowline. Apply 1000 psi pressure to annulus, lock in. RU to swab, begin swabbing at 1:30pm, BFL @  
surface, made 12 swab runs in 4 hrs, EFL 2900', nipple @ 8071'. Recv 47 BLW & 24 BNW in 4 hrs.  
Very slight show oil, tstm. Sample #2; 3 gal water sample from last swab run SG 1.05; Chlorides  
39,500 ppm. pH 7.0 Sample #3 (1) pint oil/wtr skimmed from days swabbing; SWI @ 6pm & SDFN.  
SICP 1600. Rig operations suspended until April 6 for crew time off. Next move: POOH & plugback  
CMOL: SHash

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due diligence, acquisitions, procedures, temporary personnel and field supervision*

021

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

**CONFIDENTIAL WELL**

FORM 9

**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: \_\_\_\_\_

6. IF INDIAN, ALLOTTEE OR TRIBE NAME: \_\_\_\_\_

7. UNIT or CA AGREEMENT NAME:  
**WOLVERINE FEDERAL UNIT**

8. WELL NAME and NUMBER:  
**KINGS MEADOW RANCHES 17-1**

9. API NUMBER:  
**4304130030**

10. FIELD AND POOL, OR WILDCAT:  
**WILDCAT**

1. TYPE OF WELL: OIL WELL  GAS WELL  OTHER \_\_\_\_\_

2. NAME OF OPERATOR:  
**WOLVERINE GAS AND OIL COMPANY OF UTAH, LLC**

3. ADDRESS OF OPERATOR:  
**55 CAMPAU NW** CITY **GRAND RAPIDS** STATE **MI** ZIP **49503-2616** PHONE NUMBER: **(616) 458-1150**

4. LOCATION OF WELL:  
FOOTAGES AT SURFACE: **2040' FNL & 2000' FWL** COUNTY: **SEVIER**  
QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: **SENW 17 23S 1W S** STATE: **UTAH**

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION		
<input type="checkbox"/> NOTICE OF INTENT (Submit in Duplicate) Approximate date work will start: _____	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> REPERFORATE CURRENT FORMATION
	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> SIDETRACK TO REPAIR WELL
	<input type="checkbox"/> CASING REPAIR	<input type="checkbox"/> NEW CONSTRUCTION	<input type="checkbox"/> TEMPORARILY ABANDON
	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> TUBING REPAIR
	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> VENT OR FLARE
<input checked="" type="checkbox"/> SUBSEQUENT REPORT (Submit Original Form Only) Date of work completion: <b>4/25/2004</b>	<input type="checkbox"/> CHANGE WELL NAME	<input type="checkbox"/> PLUG BACK	<input type="checkbox"/> WATER DISPOSAL
	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> PRODUCTION (START/RESUME)	<input type="checkbox"/> WATER SHUT-OFF
	<input type="checkbox"/> COMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input checked="" type="checkbox"/> OTHER: <b>COMPLETION</b>
	<input type="checkbox"/> CONVERT WELL TYPE	<input type="checkbox"/> RECOMPLETE - DIFFERENT FORMATION	

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.  
**SEE ATTACHED COMPLETION REPORTS**

NAME (PLEASE PRINT) **TIMOTHY J. BROCK** TITLE **MANAGER - ENGINEERING**

SIGNATURE *Timothy J Brock* DATE **4/26/2004**

(This space for State use only)

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WOLVERINE GAS AND OIL CORPORATION

### WOLVERINE GAS AND OIL CORPORATION

<b>Main Office:</b>	
One Riverfront Plaza, 55 Campau NW Grand Rapids, Michigan 49503-2616	Telephone: (616) 458-1150 Fax: (616) 458-0889
<b>Mason Office:</b>	
763 Wolverine Road Mason, Michigan 48854-9304	Telephone: (517) 876-7023 Fax: (517) 876-7024

RECIPIENT: Dustin Doucet - UDOGM, (801) 359-3940

Al McKee - BLM, (801) 539-4260

DATE: April 28, 2004

FROM: Tim Brock

MATERIALS SENT: Form 9 and attachment

NUMBER OF PAGES (including this cover sheet): 10

IF TRANSMISSION IS INCOMPLETE, PLEASE CALL Tim Brock AT (517) 876-7023

COMMENTS, IF ANY:

See attached UDOGM Form 9 and its attachment. Note: Confidential Well

#### CONFIDENTIALITY NOTICE

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**Daily Operations Report**

page 1 of 8

Wolverine Gas & Oil Company of Utah, LLC  
 Kings Meadow Ranches #17-1 well  
 SE NW Sec 17 T23S R01W  
 Sevier Co., Utah

New Completion  
 5-1/2" 17# L80 @ 9295' PBDT

GL to KB: 23' WO rig KB: 7'

"CONFIDENTIAL HOLE"

- 2/11/04 **FIRST COMPLETION REPORT** - (brief operation to run bond log in upper csg). Cameron install 1-13/16" 10m gate valve on B-section & remove well cap. Halco WLS MIRU & RIH w/ 3-1/8" VD-CBL tool w/ bow centralizers in 5-1/2" csg. Tool set down in csg 16 times from 1810 to 6290', must be pushing ice plug ahead. Work tool to 6320' kb (stage tool @ 6555' kb). Log to top of cement behind 5-1/2" at approximately 5300'. Log top of cement behind 9-5/8" at 4900'. Go back to btm with tool and attempt to get deeper, did not. POOH. Bleed nitrogen buildup from 9-5/8" x 5-1/2" annulus in 20 min, leave csg valve open during next pressure test. Cameron re-install well cap, hook Adler Hot Oil pump truck to csg, load 5-1/2" csg with 2 bbls brine water, pressure test 5-1/2" to 3025 psi with 1 bbl, shut in to monitor, no indication of circulation to 9-5/8" x 5-1/2" annulus. 5-1/2" csg pressure bled to 2950 psi in 10 min, 2850 in 20 min (6%). Release pressure and release Adler. Remove well cap & Halco RIH w/ JB & 4.4" OD gauge ring on wireline, set down @ 6450', 130 ft deeper than CBL. Spud several times, did not get deeper, POOH. Re-install well cap, lock csg valve with padlock. Rig down & release Halco & Cameron, secure well & lock location gate @ 8pm. Status: Waiting on completion anticipated in approx 30 days, **OFF REPORT UNTIL FURTHER ACTIVITY**. CMOL: SHash
- 03/03/04 **Status report** - Target completion for week of 3/15-19; location has been wet all month, Nielsen Construction to move in equipment 3/5 and begin cleaning location & hauling rock on 3/8. MD Well Service WSU, pump, tank & swivel scheduled for week of 3/15-19.
- 03/15/04 **Status report** - Nielsen cleaned location 3/8 to 3/10 & spread 16 loads 2" rock on lease road and around wellhead. Rky Mtn set (4) OSHA approved rig anchors & pull tested to 20,000#. MD Well Service scheduled to move in rig Wed 3/17. Engr: SHash
- 03/17/04 **ON REPORT** - sunny, 50°  
 Moved in MD Well Service late yesterday, prep to move in equipment, rig up & recv tbg today. Expect to begin drilling stage tool tomorrow  
 CMOL: SHash
- 03/18/04 **Day #1** sunny, 55°  
 Check well pressures; 5-1/2" csg on slight vacuum for 5 min; 9-5/8" x 5-1/2" csg annulus had 120 psi, bled off nitrogen in 2 min; left csg gate valve in cellar open & piped up above GL on south side of east csg valve; 13-3/8" x 9-5/8" slight blow, bled off; left csg gate valve in cellar open and piped up above GL on north side of east csg valve. Filled cellar with 2" rock to GL in order to set rig base beam. RU MD WSU rig #5, spotted rig pump & tank, catwalk & (1) set piperacks & power swivel. Spotted open top flow back tank, (4) frac tanks for treated fluid, (2) frac tanks for produced fluid, trailer house & storage container. Received & racked 300 jts of 2-7/8" 6.5ppf L80 EUE 8rd Koeppel seamless tubing w/ 2,4,6,8,10' tbg subs. Removed 7-1/16" 10k cap flange, installed 7-1/16" 10m x 7-1/16" 5m adapter spool, NU 7-1/16" 5m hydraulic BOP w/ 2-7/8" rams top & CSO rams btm w/ closing unit. Received (6) drill collars, handling tools, etc. Tallied collars & prep to TIH w/ drilling BHA in am. SDFN @ 7pm  
 CMOL: SHash

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GL to KB: 23' WO rig KB: 7'

**"CONFIDENTIAL HOLE"**

- 03/19/04 Day #2 sunny, 55-80°  
 7am - RU power tbg tongs and make rig adjustments, make-up Varel 4-3/4" rock bit, xo, (6) 3-1/2" od DC's, xo, 2.25" SN; BHA is 181.32'. Tubing tongs failed, could not repair, backup tongs not yet on rig, shut down for day @ 9:30am, off company time. Roustabouts continued laying flowback and test lines and hooking up tanks. Weatherford Completions toolman on location to witness drillout. Replacement tongs on location by 7pm.  
 CMOL: SHash
- 03/20/04 Day #3 sunny, 70°  
 7am - RU replacement power tongs, pick up 2-7/8" tbg & TIH to 6398', start taking weight 6-8 pts, 8-10 pts drag up, LD 2 jts to 6320'. RU rig pump & lines, break circulation down tbg w/ 2 bbls, ok, PT 5-1/2" csg & BOPE to 3100 psi, bled to 3050 psi in 20 min, ok, release. (note: prior test bled 3025 to 2850 in 20 min on Feb 11). RIH w/ 5 jts to 6472', tag up, sticky. POOH to 6430, circ drlg mud out of hole w/ 150 bbls 4% KCl until clean. SWI&SDFN @ 7pm  
 CMOL: SHash
- 03/21/04 Day #4 sunny, 80°  
 7am - SICP zero, RIH to 6478, tag up, pick up power swivel, reverse circ washing fill w/ 2-4 pts to 6527', tag solid btm, suspect stage tool @ 6527', circ clean, shut down. Set 15 pts weight on stage tool & pressure up to 2000 psi to attempt to open tool, held ok, no response. Drilled stage tool & opening dart @ 6527' in 20 min with 2-3 pts, recv 2 qts cuttings, RIH w/ tbg to 6605', ok. Close rams & attempt to PT csg to 3000 psi, brokedown @ 2300 psi, SD, standing pressure 1100 psi. Conduct injection test as follows: 1 bpm for 5 min @ 1400 to 1150 psi; 2 bpm for 10 min @ 1300 to 1100 psi; 3 bpm for 10 min @ 2700 to 2000; shutdown test, 55 bbls total pumped into hole in csg. All pumping done with 9-5/8" annulus open, no indication, dead. RIH picking up tbg to 6883 (215 jts), SD&SWIFN @ 7pm.  
 Weatherford toolman on location.  
 CMOL: SHash
- 03/22/04 Day #5 sunny, 75°  
 7am - SICP zero, finish picking up 289 jts of 2-7/8" tbg, tag solid btm @ 9295' kb, tbg measure. Pick up 2 ft & circ hole w/ 130 bbls 4% KCl drlg fluid. POOH w/ 144: stds tbg & BHA. Add 5-1/2" csg scraper to BHA, new BHA #2 = 183.84'. TIH w/ BHA #2 & 196 jts to 6386', 141' above stage tool. SD&SWIFN @ 5:30pm.  
 CMOL: SHash
- 03/23/04 Day #6 sunny, 85°  
 7am - SICP zero, RIH w/ scraper assy to stage tool @ 6527', reciprocate scraper thru stage tool (8) times while turning pipe, TIH to TD @ 9295', reverse circ well w/ 220 bbls 4% KCl drlg fluid. POOH, SWI&SDFN @ 6:30pm. Next move: run Schlumberger USIT log  
 CMOL: SHash

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 SE NW Sec 17 T23S R01W  
 Sevier Co., Utah

New Completion  
 5-1/2" 17# L80 @ 9295' PBTD

GL to KB: 23' WO rig KB: 7'

"CONFIDENTIAL HOLE"

- 03/24/04 Day #7 sunny, 70°  
 8am - SICP slight blow, RU SWS to run UltraSonic Image Tool (USIT) in 5-1/2" csg. Logged from 9295 to 4500'; logged stage tool @ 6527'. Released rig crew @ 4pm while still logging. Ran VD-CBL w/ CCL from 9288' to 4500'. RD SWS. SWI&SDFN @ 1am. SWS crew inexperienced in USIT tool operation & interpretation. Weatherford toolman on location. Next move: Run pkr & locate leak. CMOL: SHash
- 03/25/04 Day #8 partly cloudy, 60°  
 7am - SICP slight blow, pickup WF 5-1/2" x 2-7/8" model HD pkr w/ 2.25" SN (1) j up & TIH to 6552', set pkr 25' below stage tool @ 6552'. PT down tbg & pump in @ 1-1/2 bpm @ 2600 psi. PT annulus & WF stage tool to 3000 psi, good. WF stage tool not leaking. Reset pkr @ 7594', pump in to tbg as above, PT annulus to 3000 psi, good. Reset pkr @ 8101', PT same as above. Reset pkr @ 8605', PT same as above. Reset pkr @ 8921, PT same as before. During all tests casing held 3000 psig & could inject into tbg @ 1 to 2 bpm @ 2000 psi, pressure would bleed to zero in 5 min. Proposed btm perf is 8690'. Release pkr & reverse circulate 220 bbls of clean 4% KCL until flow clean. POOH w/ tbg & pkr. SD&SWIFN @ 7pm. Weatherford toolman on location. Next move: LD DC's & set CIBP @ ~ 8900' in 5-1/2" csg. CMOL: SHash
- 03/26/04 Day #9 partly cloudy, 55°  
 7am - SICP zero, LD 6 DC's, RU Computalog. RIH w/ gauge ring to 8915', OK, POOH. Set Alpha Big Boy 10k CIBP @ 8850' kb, POOH. Load csg & PT to 3000 psi, good. RIH w/ cmt bailer and dump 3sx or 24' of cement on top of CIBP, POOH, WOC. New PBTD = 8826' SWI&SDFN @ 4:30. Next move: Run TCP guns CMOL: SHash
- 03/27/04 Day #10 cloudy, 40°  
 7am - SICP zero, RU WellServ Intervention Services WLU, make up WellServ tbg conveyed perforating assembly as shown on the attached WBD to perforate Lwr Navajo zone #1 in 5-1/2" csg from 8670'-8690' (20'), 4 jpf @ 60° phasing per open hole Spectral-Density Log dated 29Jan04 w/ Owen SDP 39gm charges for 0.43 diam hole & 34 in penetration - total 80 holes. TIH w/ gun assy, mechanical firing head, spacer jts, underbalance ceramic disk, "X" nipple, tbg jt, Arrow 1X 10k retrievable casing pkr, tbg jt, 6" marker jt, 2 tbg jts, 2-7/8" (2.250 id) SN & tbg to surface. Stop @ 2286' in hole & fill tbg with 4% KCL water for 1000 psig water cushion. Land string in wellhead, RU WellServ wireline, RIH w/ gamma ray and log in marker jt - correcting to open hole log. POOH w/ WL & space out tbg for correct depth. Set Arrow 1X pkr @ 8548' w/ 30 pts set wt on pkr w/ top shot @ 8670 & btm shot @ 8690, "X" nipple (2.31") @ 8587' & 2.25" id SN @ 8448. RIH w/ gamma ray, log marker jt within 1/2 ft of planned depth, good. ND BOPE & NU 10m tree. PT 9-5/8" x 5-1/2" annulus to 800 psi, lock in. Hookup flowline from wellhead to flowback manifold & SWI&SDFN @ 7pm. Next move: drop firing bar & test CMOL: SHash

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**Daily Operations Report**

page 4 of 8

Wolverine Gas & Oil Company of Utah, LLC  
Kings Meadow Ranches #17-1 well  
SE NW Sec 17 T23S R01W  
Sevier Co., Utah

New Completion  
5-1/2" 17# L80 @ 9295' PBD

GL to KB: 23' WO rig KB: 7'

"CONFIDENTIAL HOLE"

- 03/28/04 Day #11 clear, 50°  
7am - SITP zero, Held safety mtg, applied 1000 psi to casing, PT flowline & wellhead to 4000 psi, found flowline leak, repaired. Dropped bar @ 10am, observed flicker in csg pressure after 2 min, casing pressure increased to 1300 psi in 10 min, tbq pressure increased to 90 psi in 15 min. Pressures stabilized in 1 hr at SITP 290 psi & SICP 1750 psi. Opened well to pit @ 1pm on a 30/64" chk, bled down in 1 min to zero, monitored while rigging up to swab, well dead. Made 1 swab run to SN @ 8448' without cups. Began swabbing @ 2:30pm, BFL 300' fs, made 6 swab runs & recovered 13 BLW & 51 BNW in 3 hrs. Pulling from 3000', could not swab down, EFL 300' fs, deepest pull from 3000'. No show of oil or gas during swabbing. SICP increased to 2000 psi while swabbing. Collected 3 gal sample from end of last swab run. Sample #2 SG 1.04; 32,000 ppm Cl. pH 7.5, no significant fines. SWI&SDFN @ 6:30pm Next move: SDF Sunday, prep to abandon & move uphole CMOL: SHash
- 03/29/04 Day #12 clear, 50°  
SITP 20 psi, SICP 1100, SDF Sunday CMOL: SHash
- 03/30/04 Day #13 clear, 50°  
SITP 20 psi, SICP 1100, zone #1 8670' - 8690', PBD 8824'  
Release pressure, ND tree, NU BOPE, well balanced, release pkr & POOH with tbq & laydown all tools. Pkr dragged all way out of hole. RU WellServ WLU. Run GR-JB in 5-1/2" csg to 8650', POOH. Set Arrow 10k CIBP @ 8600' on wireline, POOH. Load hole w/ 15 bbls 4% KCL & PT to 4000 psi, OK. Dump bail 20ft cement on plug. New PBD = 8580'. Skip zone 2, perf zone 3 select fire at 8187, 8263, 8270, 8293, 8347, 8364 with 2 jpf @ 180° phasing per open hole Spectral-Density Log dated 29Jan04 w/ Owen SDP 39gm charges for 0.46 diam hole & 40.39 in penetration - total 6 ft w/ 12 holes, note: planned perfs at 8175' did not fire. No change in fluid level while perforating. SWI&SDFN @ 8pm. Next move: run pkr & tbq CMOL: SHash
- 03/31/04 Day #14 clear, 65°  
SICP zero, zone #3 (perfs 8187, 8263, 8270, 8293, 8347, 8364), PBD 8580'  
RD WellServ WLU, pick up WF Arrow 5-1/2" x 2-7/8" 10k nstr csg pkr (7.0'), 1 jt 2-7/8" tbq (31.70'), 2.31" id "X" profile nipple (1.27'), and TH w/ 255 jts 2-7/8" tbq (8153.40); overall 8093.37'; set below kb 21'; less compression 3.2'; btm pkr set at 8111', "X" nipple @ 8171'. ND BOPE, land tbq & NU tree & flowline. Apply 1000 psi pressure to annulus, lock in. RU to swab, begin swabbing at 1:30pm, BFL @ surface, made 12 swab runs in 4 hrs, EFL 2900', nipple @ 3071'. Recv 47 BLW & 24 BNW in 4 hrs. Very slight show oil, tstr. Sample #3; 3 gal water sample from last swab run SG 1.05; Chlorides 39,500 ppm. pH 7.0 Sample #4 (1) pint oil/wtr skimmed from days swabbing; SWI @ 6pm & SDFN. SICP 1600. Rig operations suspended until April 6 for crew time off. Next move: POOH & plugback CMOL: SHash
- 04/01/04 Day #15 Crew off until April 6  
SITP 75 psi, zone 3 (perfs 8187, 8263, 8270, 8293, 8347, 8364), PBD 8580'  
Petroleum Systems Intl picked up samples #2, #3 & #4 as fully described above CMOL: SHash

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**Daily Operations Report**

page 5 of 8

**Wolverine Gas & Oil Company of Utah, LLC**  
**Kings Meadow Ranches #17-1 well**  
**SE NW Sec 17 T23S R01W**  
**Sevier Co., Utah**

**New Completion**  
**5-1/2" 17# L80 @ 9295' PBTD**

**GL to KB: 23' WO rig KB: 7'**

**"CONFIDENTIAL HOLE"**

- 04/02/04 Day #16 Crew off until April 6  
 SITP 75 psi, zone 3 (perms 8187, 8263, 8270, 8293, 8347, 8364), PBTD 8580' CMOL: SHash
- 04/03/04 Day #17 Crew off until April 6  
 SITP 75 psi, zone 3 (perms 8187, 8263, 8270, 8293, 8347, 8364), PBTD 8580' CMOL: SHash
- 04/04/04 Day #18 Crew off until April 6  
 SITP 75 psi, zone 3 (perms 8187, 8263, 8270, 8293, 8347, 8364), PBTD 8580' CMOL: SHash
- 04/05/04 Day #19 Crew off until April 6  
 SITP 75 psi, zone 3 (perms 8187, 8263, 8270, 8293, 8347, 8364), PBTD 8580' CMOL: D Spitz
- 04/06/04 Day #20 Crew off until April 6  
 SITP 75 psi, zone 3 (perms 8187, 8263, 8270, 8293, 8347, 8364), PBTD 8580' CMOL: D Spitz
- 04/07/04 Day #21  
 SITP 75 psi, zone 3 (perms 8187, 8263, 8270, 8293, 8347, 8364), PBTD 8580'. CMOL: D Spitz  
 Held Safety mtg. Ran swab run. Tagged fluid level @ 700'. Swabbed sample consisted of small oil trace. ND tree & NU BOP. Release Pkr. TOH w/ Pkr. LD 62 jts of tbg. Stand back 182 jts. LD Pkr. Set Arrow 10k CIBP @ 8110'. Load hole w/ 20 bbls 4% KCL & PT to 4000 psi. Dump 20' cmt plug on top. Set Arrow 10k CIBP @ 6430'. Load hole w/ 1 bbls 4% KCL & PT to 4000 psi. Dump 20' cmt plug on top. New PBTD @ 6410'.
- 04/08/04 Day #22  
 PBTD 6410'. CMOL: D Spitz  
 Rainy 53° F  
 7:30 AM. Held Safety mtg. Perf 6225'-6215' Lower Navajo w/ 39 gram charges, 4 spf, 60 deg phasing, 0.47 dia in 5-1/2" csg, 0.32 dia in 9-5/8" csg. 1<sup>st</sup> gun run did not fire. PU WF Arrow 5-1/2" x 2-7/8" Pkr and TIH w/ 193 jts of 2-7/8" tbg (6118'). Set Pkr @ 6139 w/ KB. X nipple @ 6107'. PT 5-1/2" x 2-7/8" annulus to 1000 psi, held & lock in. ND BOP & NU tree. Begin swabbing @ 6:00 PM. Fluid level was @ surface. Swabbed down to 2800'. Recovered 20.8 BLW. 16 BLW left to recover. SDFN @ 7:00 PM. Continue swabbing tomorrow.

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**Daily Operations Report**

page 6 of 8

Wolverine Gas & Oil Company of Utah, LLC  
Kings Meadow Ranches #17-1 well  
SE NW Sec 17 T23S R01W  
Sevier Co., Utah

New Completion  
5-1/2" 17# L80 @ 9295' PBTD

GL to KB: 23' WO rig KB: 7'

"CONFIDENTIAL HOLE"

- 04/09/04 Day #23 Rainy 55 ° F  
PBTD 6410'. CMOL: D Spitz  
7:30 AM. Held Safety mtg. (Perfs 6225'-6215' Lower Navajo) SITP 110 psi.  
Pressured up 9-5/8" x 5-1/2" annular to 600 psi & lock in. Open well up with no choke. Fell to 0 psi immediately with small stream of oil. Initially flowing 100% oil, 39 gravity @ 1gal/10min for 1<sup>st</sup> hr. Increased to 1gpm of 100% oil for next 3 hrs. Started swabbing @ 12:00 PM. 1<sup>st</sup> swab run was 65% oil. 2<sup>nd</sup> run was 25% oil. Next swab run to 95% oil. Remaining swab runs were @ 100% oil. After 1<sup>st</sup> run, fluid level was staying between 1700' to 2100'. Deepest swab run was from 3300'. Total of 8 swab run were made. Total fluid recovered was 97.8 bbls. 24 bbls of water. 73.8 bbls of oil. All load water should have been recovered. Shut in tubing & SDFN @ 6:00 PM. Plans are to continue flowing/swabbing tomorrow.
- 04/10/04 Day #24 Sunny 65 ° F  
PBTD 6410'. CMOL: D Spitz  
7:30 AM. Held Safety mtg. (Perfs 6225'-6215' Lower Navajo) SITP 420 psi.  
Open well up with no choke. Fell to 0 psi immediately with 1 gpm oil flow. Swabbed 21 runs from 7:45 AM to 6:00 PM. Recovered 179.7 bbls of oil. 0.0 bbls of water. Total fluid recovered for 2 days of swabbing is 253.5 bbls of oil, 24 bbls of water. Shut in tubing & SDFN @ 6:30 PM. Plans are to SD for the weekend and monitor SI pressure. Schedule to pump 1000 gals of acid Monday morning.
- 04/11/04 Day #25 Snowy 35 ° F  
PBTD 6410'. CMOL: D Spitz  
(Perfs 6225'-6215' Lower Navajo) SITP 390 psi. After 13 hrs  
Well SI. Dropped off oil sample taken on 4/9 @ Halliburton. Oil is compatible with acid treatment. Dropped off oil sample taken on 4/9 & gas sample taken 4/10 @ PSI office.
- 04/12/04 Day #26 Partly Cloudy 61 ° F  
PBTD 6410'. CMOL: D Spitz  
(Perfs 6225'-6215' Lower Navajo) SITP 420 psi. After 39 hrs  
Well SI. Set up to pump acid tomorrow, and then flow back and swab
- 04/13/04 Day #27 Sunny 67 ° F  
PBTD 6410'. CMOL: D Spitz  
(Perfs 6225'-6215' Lower Navajo) SITP 430 psi. After 64 hrs.  
Safety meeting @ 8:00 AM. Open well up. Dropped to 0 psi immediately. Well started flowing @ 9.5 bbl/hr. Decrease to 4.7 bbls/hr after 2 hrs. Pressure test lines for acid job to 4600 psi. Pumped 38 bbls of 4% KCL water ahead of acid @ 1.0 BPM, 4000 psi. Pumped 1000 gals of 7-1/2% HCL w/ additives @ 1.1 BPM, 3990 psi. Flush Acid w/ 37.4 bbls of 4% KCL water. Rate increased to 4.2 BPM, 3810 psi. Total fluid pumped was 100.6 bbls, 22.8 bbls of acid & 78.6 bbls of 4% KCL water. 5 min SI was 848 psi. 10 min was 598 psi. 15 min was 454 psi. Started flowing back well @ 7 bbls/hr. Decrease to 1 bbl/hr after 1 hr. Started swabbing back well 3:15 PM. Made 6 swab runs and then well kicked off @ 5:30 PM. Initial flow rate is 10 bbls/hr. Increased to 14 bbls/hr. At 11:30 PM leveled off @ 11 bbl/hr. Total fluid recovered was 226.8 bbls, 172.2 oil & 54.6 water.

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**Daily Operations Report**

page 7 of 8

**Wolverine Gas & Oil Company of Utah, LLC**  
**Kings Meadow Ranches #17-1 well**  
**SE NW Sec 17 T23S R01W**  
**Sevier Co., Utah**

**New Completion**  
**5-1/2" 17# L80 @ 9295' PBTD**

**GL to KB: 23' WO rig KB: 7'**

**"CONFIDENTIAL HOLE"**

- 04/14/04 Day #28 Sunny 70 ° F  
 PBTD 6410'. CMOL: D Spitz  
 (Perfs 6225'-6215' Lower Navajo)  
 Safety meeting @ 7:30 AM. Pumped 42 bbls of 4% KCL water ahead of acid @ 4.2 BPM, 3269 psi. Pumped 1500 gals of 7-1/2%HCL, w/ additives & 1.3 SG Eal sealers @ 4.2 BPM, 3373 psi. Flush Acid w/ 37.4 bbls of 4% KCL water. Balled off @ 31 bbls into flush. SI for 1 hr. Established injection rate @ 4.2 BPM, 3100 psi. Total fluid pumped was 128 bbls, 35.7 bbls of acid & 92.3 bbls of 4% KCL water. 5 min SI was 232 psi. 10 min was 149 psi. 15 min was 112 psi. ISDP 1685 psi. FG 0.71 psi/ft. Started flowing back well @ 2.4 bbls/hr. Decrease to 0 bbl/hr after 1 hr. Started swabbing back well 11:45 AM. Made 8 swab runs and then well kicked off @ 4:00 PM. Initial flow rate is 10 bbls/hr. Increased to 27 bbls/hr for 2 hrs w/ gas cut. Decreased to 0 bbls/hr for 1 hr. After 6 hrs flow stabilized @ 13.1 bbls/hr. Total fluid recovered was 269.2 bbls, 207.6 oil & 61.6 water.
- 04/15/04 Day #29 Cloudy 66 ° F  
 PBTD 6410'. CMOL: D Spitz  
 (Perfs 6225'-6215' Lower Navajo)  
 Safety meeting @ 7:30 AM. Flowing well. Max rate was 14 bbls/hr. Min rate was 10 bbls/hr. Ave rate was 11.5 bbls/hr. RIH w/ Downhole Pressure gauge @ 1:00 PM. SI for buildup test. Total fluid recovered from 6:00 AM to 7:00 PM was 149.0 bbls, 149.0 oil & 0.0 water. Release WSU crew until 4/20
- 04/16/04 Day #30  
 PBTD 6410'. CMOL: D Spitz  
 (Perfs 6225'-6215' Lower Navajo) 12 hr SITP 350 psi  
 SIFPBU, delivering crude sample to SLC refinery
- 04/17/04 Day #31 Crew off until April 20, SIFPBU w/ bhp instrument hung off in hole on PLS slickline zone 4a (perfs 6215' - 6225' Lower Navajo) PBTD 6410'
- 04/18/04 Day #32 Crew off until April 20, SIFPBU w/ bhp instrument hung off in hole on PLS slickline; surface SITP 400 psi (70hr), SICP 500 zone 4a (perfs 6215' - 6225' Lower Navajo) PBTD 6410', CMOL: SHash

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**Daily Operations Report**

page 8 of 8

Wolverine Gas & Oil Company of Utah, LLC  
 Kings Meadow Ranches #17-1 well  
 SE NW Sec 17 T23S R01W  
 Sevier Co., Utah

New Completion  
 5-1/2" 17# L80 @ 9295' PBTD

GL to KB: 23' WO rig KB: 7'

**"CONFIDENTIAL HOLE"**

- 04/19/04 Day #33 Crew off until April 20, SIFPBU w/ bhp instrument hung off in hole on PLS slickline; surface SITP 400 psi (107hr) @ 8am 4/19, SICP 500, prep to begin static gradient on way out of hole. zone 4a (perfs 6215' - 6225' Lower Navajo) PBTD 6410'. CMOL: SHash
- 04/20/04 Day #34 Crew expected back this am, well shut in pending production test with artificial lift. 10am 4/19 - Production Logging Services retrieved bhp instruments & ran static gradient coming out of hole. RDMO 2pm. Left well SI. Prep to rig down WSU.
- 04/21/04 Day #35 7:30am Released MDWS rig & equipment. Loaded out BOPE & tools, MDWS worked on broken rig axle while steam cleaning oil off rig & equipment, purged test lines of oil w/ water, emptied water from & released (4) frac tanks & flow back tank. Loaded out rig pump & tank, catwalk, piperacks & power swivel. Rig down WSU at end of day. SDFN @ 8pm. Max daily charge 8hr minimum on rig down day. Will change out wellsite housing from 5<sup>th</sup> wheel to 10x40 skidded office trailer for remainder of test period. Procuring art. lift and temporary battery equipment. Anticipate 10-14 day delivery.
- 04/22/04 Well SIFPBU - SITP 420 psi. rainy, 50 ° F  
 Roustabouts broke out test lines, steamed cleaned equipment, stored fittings etc, cleaned location, moved in (2) 500 bbl horizontal skidded tanks for additional storage.
- 04/23/04 Well SIFPBU - SITP 420 psi. rain, snow  
 Set 10 x 40 office trailer/bunkhouse. Set water & sewage tanks
- 04/24/04 Well SIFPBU - SITP 420 psi. overcast  
 Hook up utilities, etc. Order Lufkin 640-365-168 conv pmng unit w/ elec mtr, (4) 400 bbl stock tanks, 6 x 20 vert 50 psiWP HT, 30 x 10 125 psiWP sepr, 2" gas meter run, rental 113 KW gen set.
- 04/25/04 Well SIFPBU - SITP 420 psi. sunny, part cloudy  
 Begin hauling road base material to location for truck turnaround & tank pad. Location wet
- 04/26/04 Well SIFPBU - SITP 420 psi. sunny, clear  
 Continue hauling road base material in afternoon, weather forecast for week - high 70's, low 80's  
 Preparing for production test on beam pump lift presently estimated to begin - May 7  
 OFF REPORT pending further activity

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DIV. OF OIL, GAS &amp; MINING



**CONFIDENTIAL WELL**

FORM 9

022

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

**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.

1. TYPE OF WELL OIL WELL <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER _____		5. LEASE DESIGNATION AND SERIAL NUMBER:
2. NAME OF OPERATOR: WOLVERINE GAS AND OIL COMPANY OF UTAH, LLC		6. IF INDIAN, ALLOTTEE OR TRIBE NAME:
3. ADDRESS OF OPERATOR: 55 CAMPAU NW CITY GRAND RAPIDS STATE MI ZIP 49503-2616		7. UNIT or CA AGREEMENT NAME: WOLVERINE FEDERAL UNIT
4. LOCATION OF WELL FOOTAGES AT SURFACE: 2040' FNL & 2000' FWL		8. WELL NAME and NUMBER: KINGS MEADOW RANCHES 17-1
PHONE NUMBER: (616) 458-1150		9. API NUMBER: 4304130030
CITY GRAND RAPIDS STATE MI ZIP 49503-2616		10. FIELD AND POOL, OR WILDCAT: WILDCAT

COUNTY: SEVIER

STATE: UTAH

CTRQTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: SENW 17 23S 1W S

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION		
<input type="checkbox"/> NOTICE OF INTENT (Submit in Duplicate) Approximate date work will start:	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> REPERFORATE CURRENT FORMATION
<input checked="" type="checkbox"/> SUBSEQUENT REPORT (Submit Original Form Only) Date of work completion: 4/25/2004	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> SIDETRACK TO REPAIR WELL
	<input type="checkbox"/> CASING REPAIR	<input type="checkbox"/> NEW CONSTRUCTION	<input type="checkbox"/> TEMPORARILY ABANDON
	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> TUBING REPAIR
	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> VENT OR FLARE
	<input type="checkbox"/> CHANGE WELL NAME	<input type="checkbox"/> PLUG BACK	<input type="checkbox"/> WATER DISPOSAL
	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> PRODUCTION START/RESUME	<input type="checkbox"/> WATER SHUT-OFF
	<input type="checkbox"/> COMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input checked="" type="checkbox"/> OTHER: RUN 90-DAY TEST
	<input type="checkbox"/> CONVERT WELL TYPE	<input type="checkbox"/> RECOMPLETE - DIFFERENT FORMATION	

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

REQUEST PERMISSION TO RUN A 90-DAY TEST ON THE WELL, PURSUANT TO R649-3-19.1 FOR THE PURPOSE OF ESTABLISHING RESERVOIR PARAMETERS AND TO PROPERLY SIZE AND CONFIGURE PERMANENT PRODUCTION FACILITY. ALL OIL, GAS AND WATER WILL BE MEASURED DAILY ON THIS TEST AND SUBMITTED TO UDOGM AS REQUIRED. IT IS ANTICIPATED THAT THE WELL WILL BE PRODUCED AT 500 BOPD, WITH A GOR OF 100-150 SCF/BBL. ALL PRODUCED GAS NOT USED FOR LEASE FUEL WILL BE FLARED AFTER MEASUREMENT. GAS MEASUREMENT WILL OCCUR PRIOR TO FUEL USAGE. IT IS ANTICIPATED THAT SAID TEST, IF APPROVED, WILL COMMENCE ON ABOUT 5/7/2004.

COPY SENT TO OPERATOR  
DATE: 5-5-04  
INITIALS: CHD

NAME (PLEASE PRINT) TIMOTHY J. BROCK TITLE MANAGER - ENGINEERING

SIGNATURE *Timothy J. Brock* DATE 4/29/2004

(This space for State use only)

APPROVED BY THE STATE OF UTAH DIVISION OF OIL, GAS, AND MINING (Instructions on Reverse Side)

DATE: 5/4/04  
BY: *D. K. [Signature]*

R649-3-20-1.2 → expect to flare 1500 mcf → 2350 mcf permanently

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DIV. OF OIL, GAS & MINING



WOLVERINE GAS AND OIL CORPORATION

## WOLVERINE GAS AND OIL CORPORATION

<b>Main Office:</b>	
One Riverfront Plaza, 55 Campau NW Grand Rapids, Michigan 49503-2816	Telephone: (616) 458-1150 Fax: (616) 458-0869
<b>Mason Office:</b>	
763 Wolverine Road Mason, Michigan 48854-9304	Telephone: (517) 676-7023 Fax: (517) 676-7024

RECIPIENT: Dustin Doucet - UDOGM, (801) 359-3940

Al McKee - BLM, (801) 539-4260

DATE: April 29, 2004

FROM: Tim Brock

MATERIALS SENT: Form 9 (Revised)

NUMBER OF PAGES (including this cover sheet): 2

IF TRANSMISSION IS INCOMPLETE, PLEASE CALL Tim Brock AT (517) 676-7023

COMMENTS, IF ANY:

See attached revised UDOGM Form 9. Note: Confidential Well

### CONFIDENTIALITY NOTICE

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43,041,30030



**WOLVERINE GAS AND OIL COMPANY**  
of Utah, LLC

*Energy Exploration in Partnership with the Environment*

May 19, 2004

Mr. Dustin Doucet  
1594 West North Temple, Suite 1  
Salt Lake City, UT 84114

Dear Dustin:

Enclosed is the Completion Report (Form 8) for Wolverine's Kings Meadow Ranches 17-1 well located in Sec. 17, T23-R1W, Sevier County, Utah, along with the following materials:

Initial Production Report  
BHP Buildup Test  
Static Gradient

Report of Sidewall Core Analysis  
Directional Survey  
Logs per attached list

Please call if you need anything from me at either Wolverine's number in Grand Rapids, which is 616-458-1150, or at my number in Lansing, which is 517-676-7023.

Sincerely,

Timothy J. Brock  
Manager of Engineering

Enc.: 6  
c: Sidney J. Jansma, Jr.  
President and CEO  
et  
WLP SE KI PMT

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MAY 20 2004  
DIV. OF OIL, GAS & MINING

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

CONFIDENTIAL  
WELL

AMENDED REPORT  FORM 8  
(highlight changes)

5. LEASE DESIGNATION AND SERIAL NUMBER:

FEE

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

1a. TYPE OF WELL: OIL WELL  GAS WELL  DRY  OTHER: PERIOD EXPIRED

7. UNIT OR CA AGREEMENT NAME  
Wolverine Federal Unit

b. TYPE OF WORK: NEW WELL  HORIZ. LATS.  DEEP-EN  RE-ENTRY  DIFF. RESVR.  OTHER: ON 6-3-05

8. WELL NAME and NUMBER:  
Kings Meadow Ranches 17-1

2. NAME OF OPERATOR:  
Wolverine Gas and Oil Company of Utah, LLC

9. API NUMBER:  
4304130030

3. ADDRESS OF OPERATOR:  
55 Campau NW CITY Grand Rapids STATE MI ZIP 49503

PHONE NUMBER:  
(616) 458-1150

10. FIELD AND POOL, OR WILDCAT  
The Covenant Field

4. LOCATION OF WELL (FOOTAGES)  
AT SURFACE: 2,040' FNL & 2,000' FWL  
AT TOP PRODUCING INTERVAL REPORTED BELOW: 2,012' FNL & 2,016' FWL  
AT TOTAL DEPTH: 2,032' FNL & 2,191' FWL

11. QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:  
SENW 17 23S 1W S

12. COUNTY SEVIER 13. STATE UTAH

14. DATE SPUDDED: 11/20/2003 15. DATE T.D. REACHED: 1/27/2004 16. DATE COMPLETED: 5/3/2004

ABANDONED  READY TO PRODUCE

17. ELEVATIONS (DF, RKB, RT, GL):  
5745, 5746, N/A, 5726

18. TOTAL DEPTH: MD 9,396 TVD 9,382 19. PLUG BACK T.D.: MD 6,410 TVD 6,404

20. IF MULTIPLE COMPLETIONS, HOW MANY? \*

21. DEPTH BRIDGE MD 6,430 PLUG SET: TVD 6,424

22. TYPE ELECTRIC AND OTHER MECHANICAL LOGS RUN (Submit copy of each)  
See attached list.

23. WA: WELL CORED? NO  YES  (Submit analysis)  
WA: DST RUN? NO  YES  (Submit report)  
DIR: DIRECTIONAL SURVEY? NO  YES  (Submit copy)

24. CASING AND LINER RECORD (Report all strings set in well)

HOLE SIZE	SIZE/GRADE	WEIGHT (#/ft.)	TOP (MD)	BOTTOM (MD)	STAGE CEMENT DEPTH	CEMENT TYPE & NO. OF SACKS	SLURRY VOLUME (BBL)	CEMENT TOP **	AMOUNT PULLED
17-1/2"	13.63 J-55	54.5	0	665		845 A	177	0, Circ	none
12-1/4"	9.66 3/110	53.5	0	6,775		695 Pz	193	4900, CBL	none
7-7/8"	5.5 L-80	17.0	0	9,396	6,523	620 G	160	5300, CBL	none

25. TUBING RECORD

SIZE	DEPTH SET (MD)	PACKER SET (MD)	SIZE	DEPTH SET (MD)	PACKER SET (MD)	SIZE	DEPTH SET (MD)	PACKER SET (MD)
2.875	4.049							

26. PRODUCING INTERVALS

FORMATION NAME	TOP (MD)	BOTTOM (MD)	TOP (TVD)	BOTTOM (TVD)
(A) Navajo 1	5,845	7,100	5,840	7,093
(B)				
(C)				
(D)				

27. PERFORATION RECORD

INTERVAL (Top/Bot - MD)	SIZE	NO. HOLES	PERFORATION STATUS
8,670 8,690	0.43	80	Open <input type="checkbox"/> Squeezed <input checked="" type="checkbox"/>
8,181 8,364	0.46	12	Open <input type="checkbox"/> Squeezed <input checked="" type="checkbox"/>
6,215 6,225	0.47	40	Open <input checked="" type="checkbox"/> Squeezed <input type="checkbox"/>
			Open <input type="checkbox"/> Squeezed <input type="checkbox"/>

28. ACID, FRACTURE, TREATMENT, CEMENT SQUEEZE, ETC.

DEPTH INTERVAL	AMOUNT AND TYPE OF MATERIAL
6,215'-6,225'	1,000 Gal 7.5% HCl
6,215'-6,225'	1,500 Gal 7.5% HCl w/RCBS

29. ENCLOSED ATTACHMENTS:

- ELECTRICAL/MECHANICAL LOGS
- SUNDRY NOTICE FOR PLUGGING AND CEMENT VERIFICATION
- GEOLOGIC REPORT
- CORE ANALYSIS
- DST REPORT
- OTHER: BHP Test
- DIRECTIONAL SURVEY

30. WELL STATUS:

MAY 20 2004

DIV OF OIL, GAS AND MINING

# CONFIDENTIAL WELL

**31. INITIAL PRODUCTION**
**INTERVAL A (As shown in item #26)**

DATE FIRST PRODUCED: 5/12/2004		TEST DATE: 5/17/2004		HOURS TESTED: 24		TEST PRODUCTION RATES: <input type="checkbox"/>	OIL - BBL: 708	GAS - MCF: 1	WATER - BBL: 20	PROD. METHOD: Pump
CHOKE SIZE:	TBG. PRESS. 0	CSG. PRESS. 7	API GRAVITY 39.50	BTU - GAS	GAS/OIL RATIO 1	24 HR PRODUCTION RATES: <input type="checkbox"/>	OIL - BBL: 708	GAS - MCF: 1	WATER - BBL: 20	INTERVAL STATUS: Producing

**INTERVAL B (As shown in item #26)**

DATE FIRST PRODUCED:		TEST DATE:		HOURS TESTED:		TEST PRODUCTION RATES: <input type="checkbox"/>	OIL - BBL:	GAS - MCF:	WATER - BBL:	PROD. METHOD:
CHOKE SIZE:	TBG. PRESS.	CSG. PRESS.	API GRAVITY	BTU - GAS	GAS/OIL RATIO	24 HR PRODUCTION RATES: <input type="checkbox"/>	OIL - BBL:	GAS - MCF:	WATER - BBL:	INTERVAL STATUS:

**INTERVAL C (As shown in item #26)**

DATE FIRST PRODUCED:		TEST DATE:		HOURS TESTED:		TEST PRODUCTION RATES: <input type="checkbox"/>	OIL - BBL:	GAS - MCF:	WATER - BBL:	PROD. METHOD:
CHOKE SIZE:	TBG. PRESS.	CSG. PRESS.	API GRAVITY	BTU - GAS	GAS/OIL RATIO	24 HR PRODUCTION RATES: <input type="checkbox"/>	OIL - BBL:	GAS - MCF:	WATER - BBL:	INTERVAL STATUS:

**INTERVAL D (As shown in item #26)**

DATE FIRST PRODUCED:		TEST DATE:		HOURS TESTED:		TEST PRODUCTION RATES: <input type="checkbox"/>	OIL - BBL:	GAS - MCF:	WATER - BBL:	PROD. METHOD:
CHOKE SIZE:	TBG. PRESS.	CSG. PRESS.	API GRAVITY	BTU - GAS	GAS/OIL RATIO	24 HR PRODUCTION RATES: <input type="checkbox"/>	OIL - BBL:	GAS - MCF:	WATER - BBL:	INTERVAL STATUS:

**32. DISPOSITION OF GAS (Sold, Used for Fuel, Vented, Etc.)**

Used for fuel

**33. SUMMARY OF POROUS ZONES (Include Aquifers):**

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

**34. FORMATION (Log) MARKERS:**

Formation	Top (MD)	Bottom (MD)	Descriptions, Contents, etc.	Name	Top (Measured Depth)
Navajo 1	5,845	7,100	Sandstone, contains oil and water	Arapien	0
Kayenta	7,100	7,256	Sandstone, presumably contains water	Twin Creek	5,549
Wingate	7,256	7,835	Sandstone, presumably contains water	Navajo 1	5,845
Navajo 2	8,149	9,396	Sandstone, contains water	Kayenta	7,100
				Wingate	7,256
				Twin Creek 2	7,835
				Navajo 2	8,149

**35. ADDITIONAL REMARKS (Include plugging procedure)**

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

NAME (PLEASE PRINT) Timothy J. Brock

TITLE Manager-Engineering

SIGNATURE 

DATE 5/19/09

This report must be submitted within 30 days of

- completing or plugging a new well
- drilling horizontal laterals from an existing well bore
- recompleting to a different producing formation
- reentering a previously plugged and abandoned well
- significantly deepening an existing well bore below the previous bottom-hole depth
- drilling hydrocarbon exploratory holes, such as core samples and stratigraphic tests

\* ITEM 20: Show the number of completions if production is measured separately from two or more formations.

\*\* ITEM 24: Cement Top - Show how reported top(s) of cement were determined (circulated (CIF), calculated (CAL), cement bond log (CBL), temperature survey (TS)).

Send to: Utah Division of Oil, Gas and Mining  
1594 West North Temple, Suite 1210  
Box 145801  
Salt Lake City, Utah 84114-5801

Phone: 801-538-5340

Fax: 801-359-3940

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**List of logs attached to Form 8, Kings Meadow Ranches 17-1**

✓ Spectral Density Dual Spaced Neutron	12/28/2003
✓ Dual Laterolog Microguard	12/28/2003
✓ Full Wave Sonic	12/28/2003
✓ Full Wave Sonic Shear/Compressional Delta T Log	12/30/2003
✓ Electric Micro Imager SHIVA Dip Analysis	12/28/2003
✓ High Resolution Induction	1/29/2004
✓ Spectral Density Dual Spaced Neutron	1/29/2004
✓ Borehole Volume Plot	1/29/2004
✓ Wave Sonic Delta T Plot	2/4/2004
✓ Cement Bond Log	2/10/2004
✓ Cement Bond Log	1/29/2004
✓ Cement Bond Log Variable Density Gamma Ray	3/23/2004



CONFIDENTIAL

## PRODUCTION LOGGING SERVICES, INC.

### SURVEY RESULTS REPORT

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**COMPANY NAME:** WOLVERINE GAS AND OIL COMPANY OF UTAH, LLC

**WELL NAME:** KING MEADOWS RANCH #17-1

**TYPE OF SURVEY:** PRESSURE BUILD-UP

**DATE:** 4/14/2004-04/19/2004

**CONFIDENTIAL  
WELL**

			<u>Delta Time</u>
<b>TIME ENGAGE BATTERY:</b>	12:16:00	4/14/2004	0.000000
<b>TIME ON DEPTH (6125'):</b>	12:46:45	4/14/2004	0.512500
<b>TIME SHUT WELL IN:</b>	19:49:00	4/14/2004	7.550000
<b>TIME OFF DEPTH:</b>	10:26:34	4/19/2004	118.183333

**SURFACE PRESSURE AT SWI:** 1227 PSIG  
**SURFACE PRESSURE AT EOS:** 440 PSIG

**COMMENTS:**

GAUGES SET AT 6125'. GAUGES RECORDED DATA SAMPLE EVERY 15 SECONDS FOR THE FIRST TEN HOURS AND EVERY TWO MINUTES THEREAFTER.

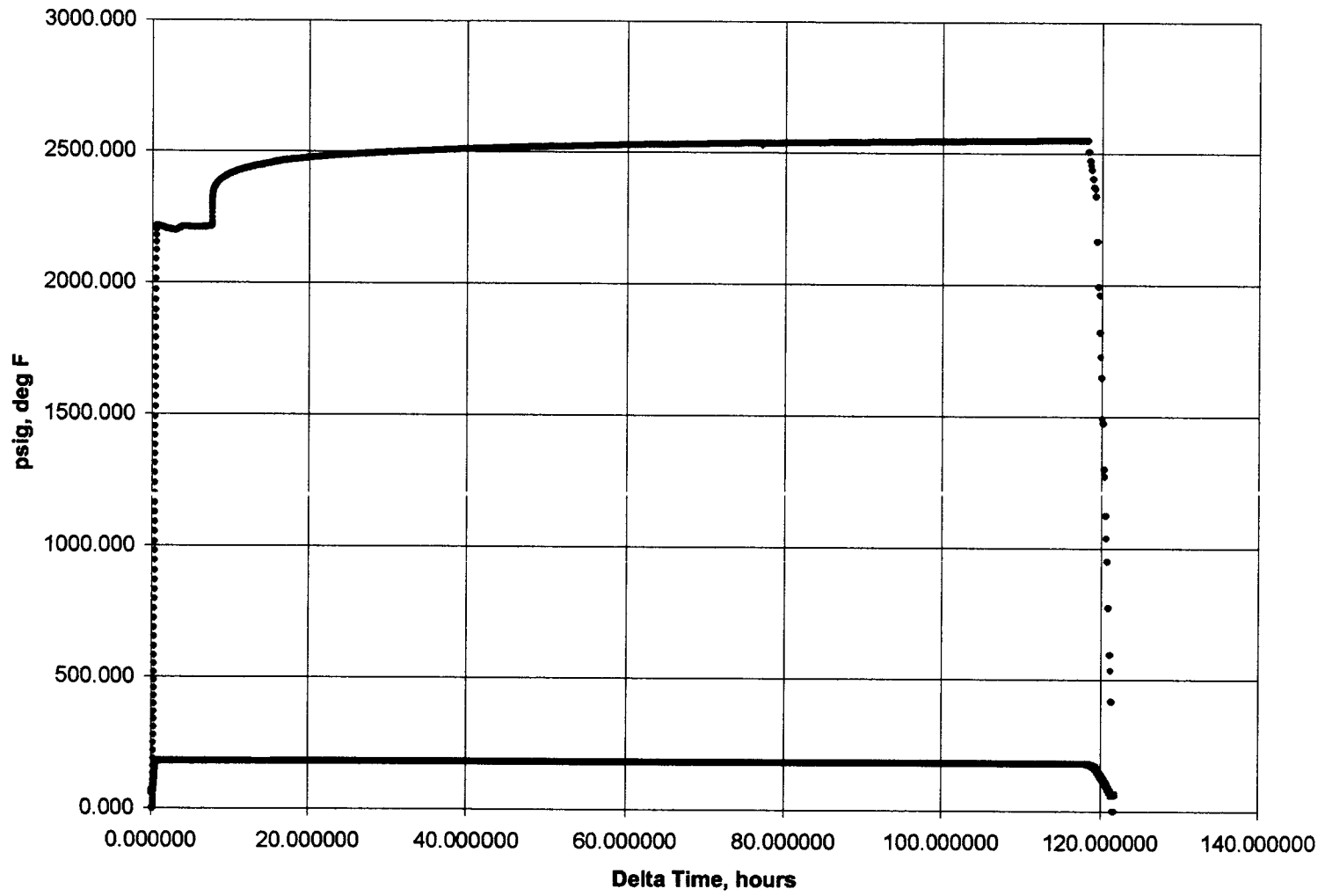


**CONFIDENTIAL WELL**

Delta Time	Pressure	Temp	On	Depth (6125')
0.512500	2217.144	179.118		
1.512500	2208.538	180.151		
2.512500	2201.039	180.239		
3.512500	2207.253	180.321		
4.512500	2211.961	180.390		
5.512500	2211.079	180.439		
6.512500	2211.619	180.502		
7.512500	2212.878	180.551		
7.550000	2213.108	180.554	SWI	
7.554167	2216.492	180.549		
7.558333	2223.604	180.541		
7.562500	2233.215	180.553		
7.570833	2263.366	180.571		
7.583333	2300.485	180.594		
7.591667	2311.668	180.612		
7.600000	2318.677	180.628		
7.612500	2325.396	180.646		
7.620833	2328.836	180.655		
7.629167	2331.607	180.659		
7.641667	2335.128	180.665		
7.650000	2337.060	180.664		
7.700000	2345.765	180.639		
7.750000	2351.993	180.611		
7.800000	2356.788	180.579		
7.850000	2360.426	180.542		
7.900000	2363.679	180.514		
7.950000	2366.706	180.488		
8.050000	2371.622	180.431		
8.150000	2375.842	180.379		
8.250000	2379.638	180.340		
8.350000	2382.845	180.302		
8.450000	2385.805	180.259		
8.550000	2388.581	180.227		
9.050000	2399.726	180.100		
9.550000	2408.819	180.008		
10.550000	2422.743	179.861		
11.550000	2432.593	179.758		
12.550000	2440.516	179.688		
13.550000	2446.810	179.613		
14.550000	2452.695	179.657		
15.550000	2459.317	179.697		
16.550000	2465.487	179.708		
17.550000	2469.102	179.716		
19.550000	2475.369	179.722		
21.550000	2480.926	179.730		
23.550000	2485.809	179.748		
25.550000	2490.115	179.758		
27.550000	2493.988	179.773		
32.550000	2502.119	179.803		
37.550000	2508.802	179.830		
42.550000	2514.289	179.852		
47.550000	2519.010	179.869		
57.550000	2526.693	179.911		
67.550000	2532.813	179.945		
77.550000	2537.001	179.974		
87.550000	2541.607	179.994		
97.550000	2545.114	180.003		
107.550000	2548.156	180.020		
117.550000	2550.804	180.040		
118.183333	2550.980	180.042		

Kings Meadow Ranches 17-1

CONFIDENTIAL  
WELL



# PRODUCTION LOGGING SERVICES, INC.

## SURVEY RESULTS REPORT

COMPANY NAME: WOLVERINE GAS AND OIL COMPANY OF UTAH, LLC

WELL NAME: KING MEADOWS RANCH #17-1

TYPE OF SURVEY: STATIC GRADIENT

DATE: 4/14/2004

**CONFIDENTIAL  
WELL**

TIME ENGAGE BATTERY: 8:18:30

STOPS	DURATION	START TIME	END TIME	AVERAGE PRESSURE	MEDIAN PRESSURE
6125'	117 HR 41 MIN	END PRESSURE: 2550.980 *SEE PRESSURE BUILD-UP SURVEY			
6000'	10 MINUTES	10:27:21	10:37:30	2507.288	2507.293
5900'	10 MINUTES	10:38:01	10:48:11	2473.368	2473.385
5800'	10 MINUTES	10:48:45	10:59:00	2438.937	2439.127
5700'	10 MINUTES	10:59:34	11:09:44	2405.160	2405.137
5600'	10 MINUTES	11:10:11	11:20:21	2371.011	2371.012
5500'	10 MINUTES	11:20:45	11:30:55	2337.007	2337.002
5000'	10 MINUTES	11:32:18	11:42:28	2165.441	2165.481
4500'	10 MINUTES	11:44:00	11:54:10	1993.284	1993.247
4000'	10 MINUTES	11:55:29	12:05:39	1820.689	1820.670
3500'	10 MINUTES	12:07:06	12:17:16	1647.418	1647.418
3000'	10 MINUTES	12:18:38	12:28:48	1473.360	1473.344
2500'	10 MINUTES	12:30:03	12:40:13	1299.329	1299.309
2000'	10 MINUTES	12:41:44	12:51:54	1124.114	1124.097
1500'	10 MINUTES	12:53:01	13:03:11	948.813	948.787
1000'	10 MINUTES	13:04:23	13:14:33	772.712	772.708
500'	10 MINUTES	13:15:45	13:25:55	595.808	595.792
SURFACE	10 MINUTES	13:28:48	13:38:48	416.608	416.639

Static Gradient Pressure Survey King Meadows Ranch #17-1

**Rotary Sidewall Sample Inventory**

Company: Wolverine Gas and Oil Company of Utah, LLC  
 Well Name: Kings Meadow Ranch 17-1  
 Location: Sevier Co., UT

Section 17, 23 South, 1 West  
 API 4304130030

Sample ID	Depth (ft)	Remarks	Routine Properties			
			Dean-Stark Saturation	Grain Vol / Den	Pore Vol / Porosity	Air Perm
17	8292.	Wafers		X	X	
8	8470.	Wafers		X	X	
9	8495.		X	X	X	X
10	8528.		X	X	X	X
11	8567.		X	X	X	X
12	8615.		X	X	X	X
13	8645.		X	X	X	X
14	8665.		X	X	X	X
5	8740.		X	X	X	X
4	8753.		X	X	X	X
3	8816.		X	X	X	X
2	8934.	Wafers		X	X	
1	8960.	Wafers		X	X	

SUMMARY OF ROTARY CORE ANALYSIS RESULTS

Net Confining Stress: 800 psi

Company: Wolverine Gas and Oil  
 Well Name: Kings Meadow Ranch 17-1  
 Location: Seviere Co., UT

Section 17, 23 South, 1 West  
 API 4304130030

Sample ID	Depth (ft)	Dry Weight (g)	Length (cm)	Diameter (cm)	Grain Volume (cm <sup>3</sup> )	Grain Density (g/cm <sup>3</sup> )	Pore Volume (cm <sup>3</sup> )	Bulk Volume (cm <sup>3</sup> )	Porosity (percent)	Air Permeability (md)	Klinkenberg Air Permeability (md)	Pore Volume Saturations			Lithological Description	
												Water %	Oil %	Gas %		
17	8292.	9.7800			3.720	2.629		3.720								
8	8470.	20.4900			7.700	2.661		7.700								
9	8495.	30.5500	3.260	2.320	11.520	2.652	1.910	13.430	14.2	16.6	15.7	75.6	14.5	9.9		
	at 4000 psi NCS				11.520		1.810	13.330	13.6	15.5	14.6	79.8	15.3	4.9		
10	8528.	25.7800	2.790	2.310	9.720	2.652	1.942	11.662	16.7	86.7	84.3	75.4	8.0	16.6		
	at 4000 psi NCS				9.720		1.810	11.530	15.7	79.8	77.5	80.9	8.6	10.5		
11	8567.	29.0300	2.940	2.310	10.870	2.671	1.323	12.193	10.9	4.27	3.85	84.0	3.6	12.4		
	at 4000 psi NCS				10.870		1.229	12.099	10.2	2.93	2.57	90.4	3.9	5.7		
12	8615.	33.2100	3.530	2.310	12.510	2.655	2.138	14.648	14.6	11.0	10.3	82.7	2.8	14.5		
	at 4000 psi NCS				12.510		1.985	14.495	13.7	9.57	8.89	89.0	3.1	7.9		
13	8645.	28.3600	3.090	2.310	10.670	2.658	2.184	12.854	17.0	5.72	5.21	90.2	0.7	9.1		
	at 4000 psi NCS				10.670		2.044	12.714	16.1	4.60	4.16	96.4	0.7	2.9		
14	8665.	29.7900	3.310	2.300	11.220	2.655	1.732	12.952	13.4	2.99	2.63	87.5	2.9	9.6		
	at 4000 psi NCS				11.220		1.571	12.791	12.3	2.35	2.05	96.1	2.2	0.1		
5	8740.	31.1600	3.080	2.320	11.720	2.659	1.972	13.692	14.4	7.47	6.87	60.9	23.5	15.6		
	at 4000 psi NCS				11.720		1.817	13.537	13.4	6.69	6.14	66.1	25.5	8.4		
4	8753.	16.1200	2.540	2.310	6.080	2.651	1.334	7.414	18.0	192.	188.	84.0	3.6	12.3		
	at 4000 psi NCS				6.080		1.226	7.306	16.8	176.	172.	91.4	3.9	4.6		
3	8816.	22.350	2.380	2.330	8.410	2.658	1.801	10.211	17.6	7.81	7.20	76.3	23.7	0.0		
	at 4000 psi NCS				8.410		1.620	10.030	16.2	6.88	6.32	84.8	15.2	0.0		
2	8934.	18.4900			7.050	2.623		7.050								
1	8960.	6.2400			2.360	2.644		2.360								

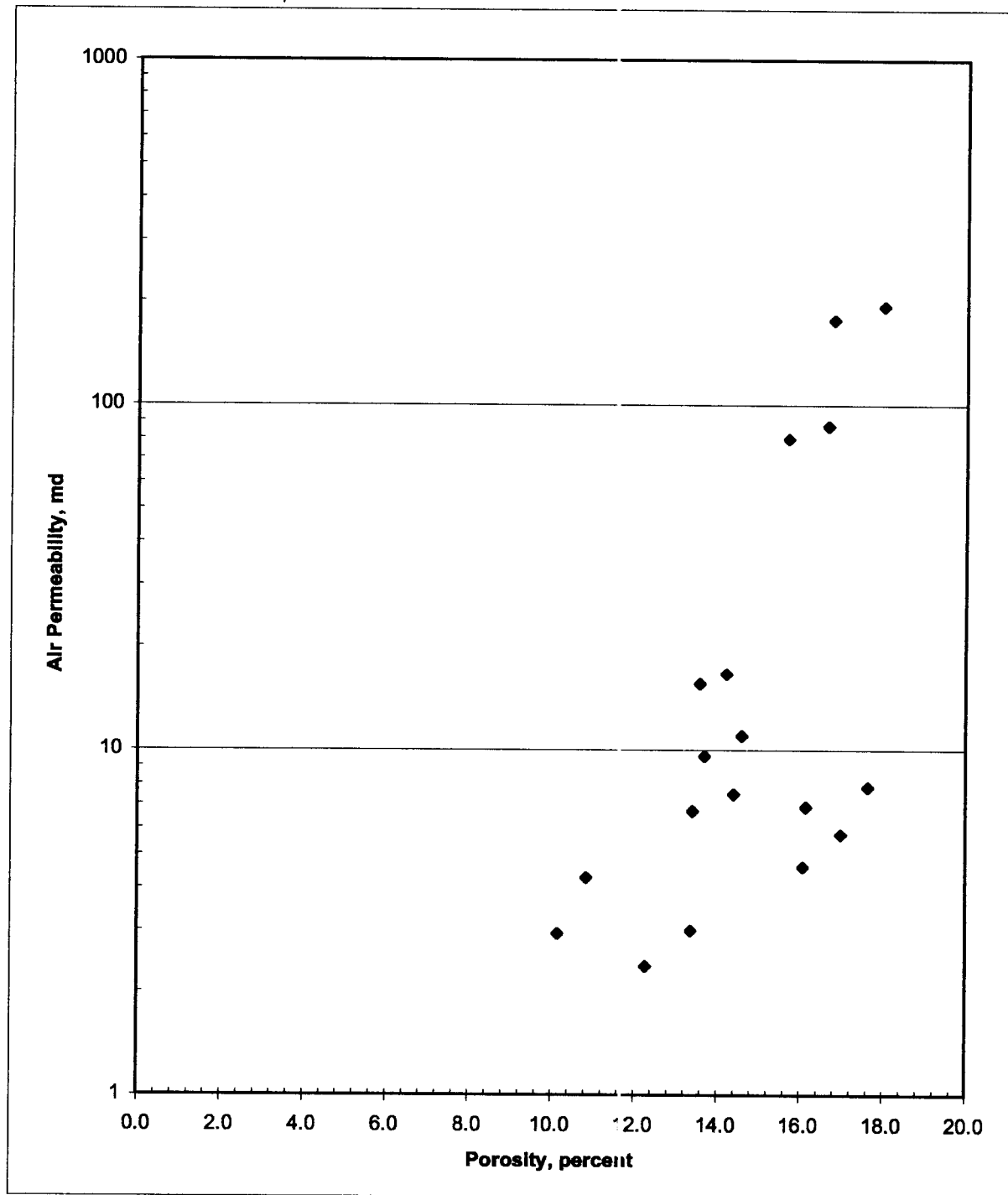
CONFIDENTIAL

SUMMARY OF ROTARY CORE ANALYSIS RESULTS

Net Confining Stress: 800 psi

Company: Wolverine Gas and Oil  
Well Name: Kings Meadow Ranch 17-1  
Location: Seviere Co., UT

Section 17, 23 South, 1 West  
API 4304130030



# Survey Report

**Confidential Well**

Company <b>Wolverine Gas &amp; Oil Company of Utah, LLC</b> Well <b>Kings Meadow Ranches # 17-1</b> Field <b>Sigurd</b> Rig <b>Unit # 236</b>	Tgt. Inc. _____ Mag. Decl. <b>12.81</b> Target TVD <b>9200</b> Target Az. _____ Tgt. Coord. _____
--	---

Date	No.	DEPTH	INC.	AZM	C.L.	T.V.D.	V.S.	N/S	E/W	DLS	B./D.	Walk	BRN
Tie - In	1												
ESS	2	139	1.40	290.40	139	138.99	0.59	0.59 N	1.59 W	1.01	1.01	208.92	-0.02
ESS	3	270	0.20	188.80	131	269.97	0.92	0.92 N	3.13 W	1.11	-0.92	-77.56	0.00
ESS	4	440	0.60	194.50	170	439.97	-0.23	0.23 S	3.39 W	0.24	0.24	3.35	-0.01
ESS	5	634	1.40	334.90	194	633.95	0.93	0.93 N	4.85 W	0.98	0.41	72.37	-0.02
ESS	6	975	3.10	65.40	341	974.75	8.54	8.54 N	1.96 E	1.00	0.50	-79.03	-0.04
ESS	7	1198	4.30	317.00	223	1197.48	17.18	17.18 N	1.75 E	2.71	0.54	112.83	-0.05
ESS	8	1285	4.10	28.60	87	1284.30	22.30	22.30 N	1.01 E	5.65	-0.23	-331.49	-0.05
ESS	9	1465	4.80	335.50	180	1463.83	34.80	34.80 N	0.97 E	2.24	0.39	170.50	-0.06
ESS	10	1562	4.20	270.20	97	1560.59	38.51	38.51 N	4.27 W	5.03	-0.62	-67.32	-0.05
ESS	11	1673	2.80	80.40	111	1671.51	38.98	38.98 N	5.66 W	6.28	-1.26	-170.99	-0.04
ESS	12	1863	2.40	62.60	190	1861.32	41.58	41.58 N	2.44 E	0.47	-0.21	-9.37	-0.03
ESS	13	1962	1.60	55.60	99	1960.26	43.32	43.32 N	5.42 E	0.84	-0.81	-7.07	-0.02
ESS	14	2059	1.60	64.40	97	2057.22	44.67	44.67 N	7.76 E	0.25		9.07	-0.02
ESS	15	2145	2.60	69.80	86	2143.16	45.86	45.86 N	10.68 E	1.18	1.16	6.28	-0.04
ESS	16	2242	3.00	70.60	97	2240.04	47.46	47.46 N	15.14 E	0.41	0.41	0.82	-0.04
ESS	17	2336	2.60	67.20	94	2333.93	49.11	49.11 N	19.42 E	0.46	-0.43	-3.62	-0.04
ESS	18	2430	3.20	81.00	94	2427.81	50.34	50.34 N	23.98 E	0.97	0.64	14.68	-0.05
ESS	19	2528	3.70	79.60	98	2525.63	51.34	51.34 N	29.79 E	0.52	0.51	-1.43	-0.06
ESS	20	2600	4.60	80.10	72	2597.44	52.26	52.26 N	34.92 E	1.25	1.25	0.69	-0.07
ESS	21	2642	5.00	92.60	42	2639.30	52.46	52.46 N	38.41 E	2.66	0.95	29.76	-0.08
ESS	22	2717	5.20	97.10	75	2714.00	51.90	51.90 N	45.04 E	0.60	0.27	6.00	-0.08
ESS	23	2779	4.80	101.80	62	2775.76	51.02	51.02 N	50.37 E	0.92	-0.65	7.58	-0.07
ESS	24	2837	4.30	103.60	58	2833.58	50.01	50.01 N	54.86 E	0.90	-0.86	3.10	-0.07
ESS	25	2899	3.80	104.40	62	2895.43	48.95	48.95 N	59.11 E	0.81	-0.81	1.29	-0.06
ESS	26	2991	3.40	108.00	92	2987.25	47.35	47.35 N	64.66 E	0.50	-0.43	3.91	-0.05
ESS	27	3048	2.60	110.40	57	3044.17	46.38	46.38 N	67.48 E	1.42	-1.40	4.21	-0.04
ESS	28	3116	2.40	111.20	68	3112.10	45.33	45.33 N	70.25 E	0.30	-0.29	1.18	-0.04
ESS	29	3209	2.20	119.80	93	3205.03	43.73	43.73 N	73.61 E	0.43	-0.22	9.25	-0.04
ESS	30	3300	1.60	118.20	91	3295.98	42.27	42.27 N	76.25 E	0.66	-0.66	-1.76	-0.03
ESS	31	3392	1.80	135.60	92	3387.94	40.63	40.63 N	78.39 E	0.60	0.22	18.91	-0.03
ESS	32	3481	1.20	159.50	89	3476.91	38.76	38.76 N	79.70 E	0.96	-0.67	26.85	-0.02
ESS	33	3572	0.70	195.40	91	3567.89	37.33	37.33 N	79.88 E	0.83	-0.55	39.45	-0.01
ESS	34	3664	0.60	223.20	92	3659.89	36.43	36.43 N	79.40 E	0.36	-0.11	30.22	-0.01
ESS	35	3756	1.70	275.20	92	3751.87	36.21	36.21 N	77.71 E	1.53	1.20	56.52	-0.03
ESS	36	3870	2.80	288.20	114	3865.78	37.23	37.23 N	73.39 E	1.06	0.96	11.40	-0.05
ESS	37	3950	2.60	295.00	80	3945.69	38.61	38.61 N	69.88 E	0.47	-0.25	8.50	-0.05
ESS	38	4065	2.20	278.00	115	4060.59	40.02	40.02 N	65.33 E	0.71	-0.35	-14.78	-0.04
ESS	39	4150	2.20	287.20	85	4145.53	40.73	40.73 N	62.16 E	0.42		10.82	-0.04
ESS	40	4225	2.00	268.80	75	4220.48	41.12	41.12 N	59.48 E	0.93	-0.27	-24.53	-0.04
ESS	41	4330	2.20	282.90	105	4325.41	41.54	41.54 N	55.68 E	0.53	0.19	13.43	-0.05
ESS	42	4415	1.80	293.00	85	4410.36	42.42	42.42 N	52.86 E	0.63	-0.47	11.88	-0.04
ESS	43	4528	1.40	272.00	113	4523.32	43.16	43.16 N	49.85 E	0.62	-0.35	-18.58	-0.03
ESS	44	4625	1.40	285.00	97	4620.29	43.51	43.51 N	47.52 E	0.33		13.40	-0.03
ESS	45	4714	2.20	273.30	89	4709.24	43.89	43.89 N	44.76 E	0.98	0.90	-13.15	-0.05
ESS	46	4800	3.30	272.00	86	4795.14	44.07	44.07 N	40.64 E	1.28	1.28	-1.51	-0.07
ESS	47	4884	2.90	251.20	84	4879.02	43.47	43.47 N	36.21 E	1.41	-0.48	-24.76	-0.07
ESS	48	4975	1.80	247.60	91	4969.95	42.19	42.19 N	32.71 E	1.22	-1.21	-3.96	-0.04

# Survey Report



Company <b>Wolverine Gas &amp; Oil Company of Utah, LLC</b> Well <b>Kings Meadow Ranches # 17-1</b> Field <b>Sigurd</b> Rig <b>Unit # 236</b>	Tgt. Inc. _____ Mag. Decl. <b>12.81</b> Target TVD <b>9200</b> Target Az. _____ Tgt. Coord. _____
--	---

Date	No.	DEPTH	INC.	AZM	C.L.	T.V.D.	V.S.	N/S	E/W	DLS	B/D.	Walk	BRN
ESS	49	5068	1.80	225.00	93	5062.90	40.60	40.60 N	30.33 E	0.76		-24.30	-0.04
ESS	50	5162	2.20	232.40	94	5156.84	38.45	38.45 N	27.86 E	0.51	0.43	7.87	-0.05
ESS	51	5286	1.60	231.70	124	5280.77	35.93	35.93 N	24.61 E	0.48	-0.48	-0.56	-0.04
ESS	52	5378	1.70	218.50	92	5372.74	34.06	34.06 N	22.76 E	0.43	0.11	-14.35	-0.04
ESS	53	5471	2.00	240.10	93	5465.69	32.17	32.17 N	20.49 E	0.81	0.32	23.23	-0.05
ESS	54	5565	2.10	245.70	94	5559.63	30.65	30.65 N	17.50 E	0.24	0.11	5.96	-0.06
ESS	55	5658	1.30	236.30	93	5652.59	29.36	29.36 N	15.07 E	0.91	-0.86	-10.11	-0.04
ESS	56	5750	1.20	154.10	92	5744.57	27.91	27.91 N	14.62 E	1.79	-0.11	-89.35	-0.03
ESS	57	5842	1.60	61.20	92	5836.55	27.67	27.67 N	16.17 E	2.23	0.43	-100.98	-0.05
ESS	58	5936	0.60	96.40	94	5930.54	28.24	28.24 N	17.81 E	1.24	-1.06	37.45	-0.02
ESS	59	6020	1.60	228.10	84	6014.53	27.41	27.41 N	17.37 E	2.44	1.19	156.79	-0.05
ESS	60	6121	1.30	266.20	101	6115.50	26.39	26.39 N	15.18 E	0.98	-0.30	37.72	-0.04
ESS	61	6214	2.00	253.30	93	6208.46	25.86	25.86 N	12.57 E	0.85	0.75	-13.87	-0.07
ESS	62	6400	2.80	82.80	186	6394.40	25.49	25.49 N	13.97 E	2.57	0.43	-91.67	-0.10
ESS	63	6545	3.20	89.70	145	6539.20	25.96	25.96 N	21.53 E	0.37	0.28	4.76	-0.12
ESS	64	6652	3.20	75.80	107	6646.03	26.71	26.71 N	27.41 E	0.72		-12.99	-0.13
ESS	65	6820	3.80	93.50	168	6813.72	27.52	27.52 N	37.51 E	0.73	0.36	10.54	-0.16
ESS	66	6909	3.50	92.20	89	6902.54	27.23	27.23 N	43.17 E	0.35	-0.34	-1.46	-0.15
ESS	67	7004	3.60	99.30	95	6997.36	26.64	26.64 N	49.01 E	0.47	0.11	7.47	-0.16
ESS	68	7063	3.70	99.90	59	7056.24	26.01	26.01 N	52.71 E	0.18	0.17	1.02	-0.17
ESS	69	7157	4.20	103.70	94	7150.02	24.68	24.68 N	59.05 E	0.60	0.53	4.04	-0.20
ESS	70	7250	4.50	108.90	93	7242.75	22.69	22.69 N	65.81 E	0.53	0.32	5.59	-0.23
ESS	71	7343	5.00	113.60	93	7335.43	19.88	19.88 N	72.97 E	0.68	0.54	5.05	-0.27
ESS	72	7437	6.10	116.00	94	7428.99	16.06	16.06 N	81.22 E	1.20	1.17	2.55	-0.34
ESS	73	7466	6.20	114.10	29	7457.82	14.74	14.74 N	84.03 E	0.78	0.34	-6.55	-0.36
ESS	74	7561	6.40	115.40	95	7552.25	10.37	10.37 N	93.50 E	0.26	0.21	1.37	-0.39
ESS	75	7622	6.20	115.20	61	7612.88	7.51	7.51 N	99.55 E	0.33	-0.33	-0.33	-0.39
ESS	76	7695	6.00	113.70	73	7685.47	4.30	4.30 N	106.61 E	0.35	-0.27	-2.05	-0.40
ESS	77	7737	6.00	113.90	42	7727.24	2.53	2.53 N	110.62 E	0.05		0.48	-0.41
ESS	78	7848	5.70	116.80	111	7837.66	-2.31	2.31 S	120.85 E	0.38	-0.27	2.61	-0.42
MWD	79	7941	4.00	128.40	93	7930.33	-6.40	6.40 S	127.51 E	2.10	-1.83	12.47	-0.31
MWD	80	8001	4.50	124.30	60	7990.16	-9.03	9.03 S	131.10 E	0.97	0.83	-6.83	-0.37
MWD	81	8064	3.40	121.00	63	8053.01	-11.38	11.38 S	134.74 E	1.78	-1.75	-5.24	-0.30
MWD	82	8120	2.90	119.50	56	8108.93	-12.94	12.94 S	137.40 E	0.90	-0.89	-2.68	-0.27
MWD	83	8131	2.80	111.20	11	8119.91	-13.17	13.17 S	137.89 E	3.86	-0.91	-75.45	-0.26
MWD	84	8140	2.70	88.40	9	8128.90	-13.24	13.24 S	138.31 E	12.12	-1.11	-253.33	-0.25
MWD	85	8161	4.10	50.80	21	8149.87	-12.76	12.76 S	139.38 E	12.19	6.67	-179.05	-0.39
MWD	86	8192	6.60	39.70	31	8180.73	-10.69	10.69 S	141.38 E	8.69	8.06	-35.81	-0.65
MWD	87	8209	7.50	38.10	17	8197.60	-9.06	9.06 S	142.69 E	5.42	5.29	-9.41	-0.75
MWD	88	8223	7.20	37.70	14	8211.49	-7.65	7.65 S	143.79 E	2.17	-2.14	-2.86	-0.73
MWD	89	8255	6.60	44.10	32	8243.25	-4.74	4.74 S	146.29 E	3.04	-1.88	20.00	-0.69
MWD	90	8287	6.90	47.90	32	8275.03	-2.13	2.13 S	149.00 E	1.68	0.94	11.88	-0.74
MWD	91	8317	6.30	52.20	30	8304.83	0.09	0.09 N	151.64 E	2.59	-2.00	14.33	-0.70
MWD	92	8348	6.10	56.60	31	8335.65	2.04	2.04 N	154.36 E	1.66	-0.65	14.19	-0.70
MWD	93	8379	5.80	57.50	31	8366.49	3.78	3.78 N	157.05 E	1.01	-0.97	2.90	-0.69
MWD	94	8427	5.40	62.50	48	8414.26	6.13	6.13 N	161.10 E	1.31	-0.83	10.42	-0.69
MWD	95	8459	4.90	66.50	32	8446.13	7.37	7.37 N	163.69 E	1.92	-1.56	12.50	-0.65
MWD	96	8490	4.30	72.20	31	8477.03	8.25	8.25 N	166.01 E	2.43	-1.94	18.39	-0.59





Company: Wolverine Gas and Oil  
 Lease/Well: King Meadow Ranch 17 - 1  
 Location: Seiver, Ut.  
 State/Country:  
 Declination: 12.81

CONFIDENTIAL

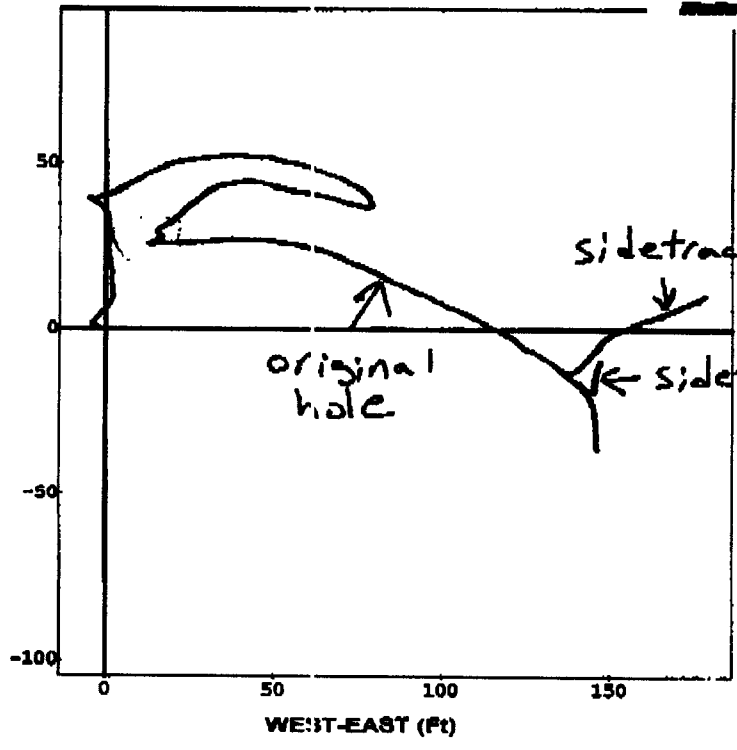


Weatherford  
 Drilling

TRUE VERTICAL DEPTH (Ft)

7300  
7400  
7500  
7600  
7700  
7800  
7900  
8000  
8100  
8200  
8300  
8400  
8500  
8600  
8700  
8800  
8900  
9000  
9100

NORTH - SOUTH (Ft)



-100 0 100 200 300 400 500 600 700 800 900 1000 1100 1200

-- SIDETRACK #2      - - - - - SIDETRACK #1      - - - - -

VERTICAL SECTION (F1) @ 90.00°

GWPC's RBDMS - Utah - [WELL INSPECTIONS]

File Edit Fgrms Reports View Records Admin Window Help

Incidents/Spills **Well Inspections** Date Mod

Inspection Tracking Press/Rest

API Well No. 43-041-30030-00-00 Owner County

Well Name

WI Typ Fclty/Proj Well Status

Well S-T-R

Directions

Inspect No.	Type	Purpose	Responsible Company
	Drilling	Routine/Periodic	WOLVERINE GAS & OIL CO UT

Violation?  SNC?  Notification Type

Write/View Violation

Date Inspected 01/22/2004

Date NOV

Date RndyReq

Date Extension

Date Passed

Failed Items

Fail Code	Status	Description

Comply# Incident# Inspector Lisha Cordova Duration

Prior to inspection on 1/14/04 while drilling @8549 the mud motor twisted off leaving the bit & part of the mud motor in hole a total fish length of 19'. Two unsuccessful attempts were made to fish motor & bit. An 85 sx cmt plug was set on top of fish, top of plug @8328'. On 1/19/04 dressed plug off to 8338' and kicked off the plug, drilled to 8608', a bit trip was made and when reaming to bottom got into the old hole, continued drilling to 8523' before deciding to set another plug. A 185 sx cmt plug was set from 8523' to 8100'. On 1/20/04 a BOP test was conducted, all components tested @5000#

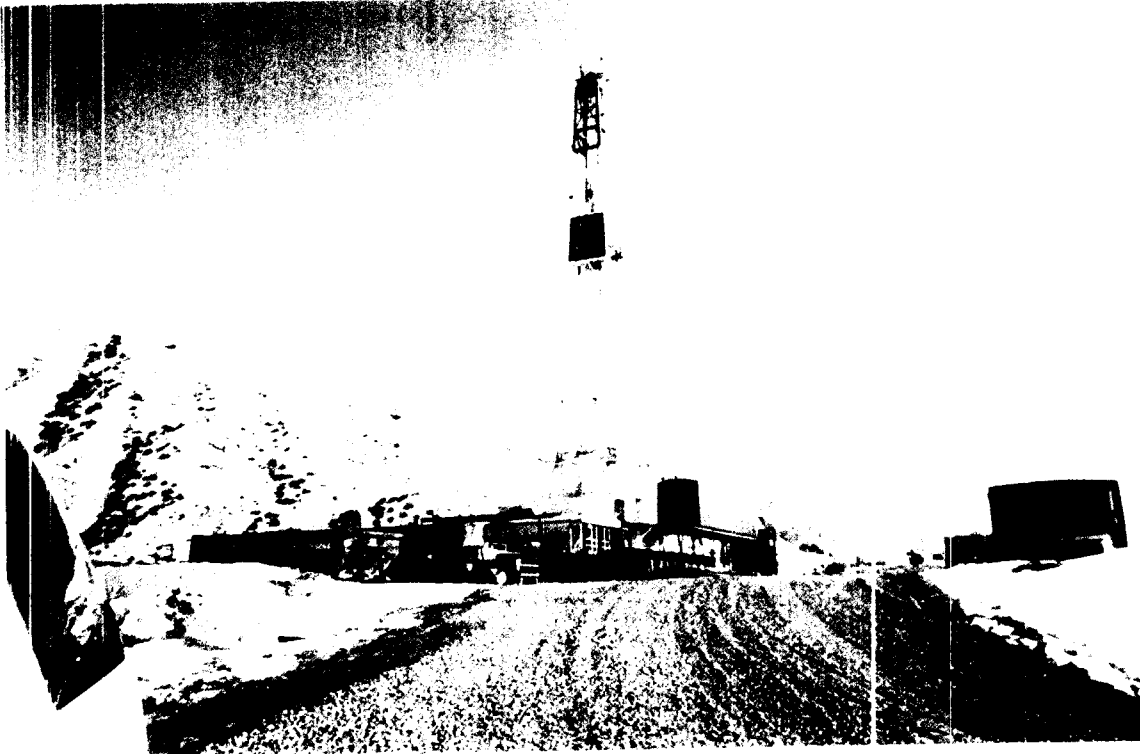
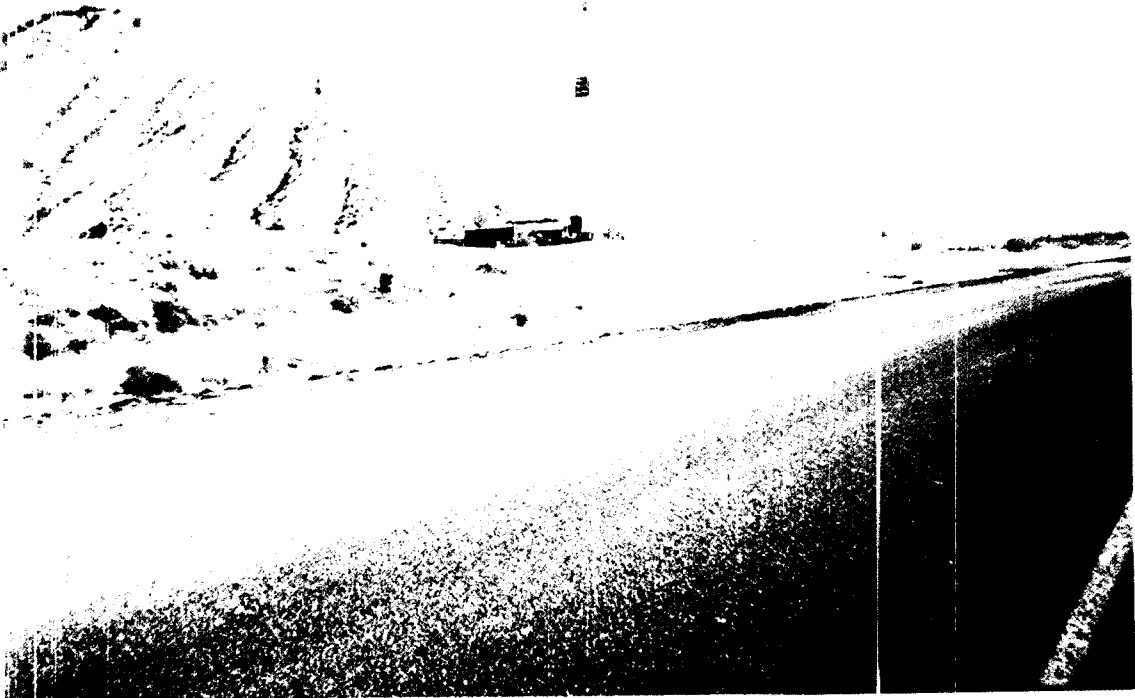
Record: 14 of 2 (Filtered)

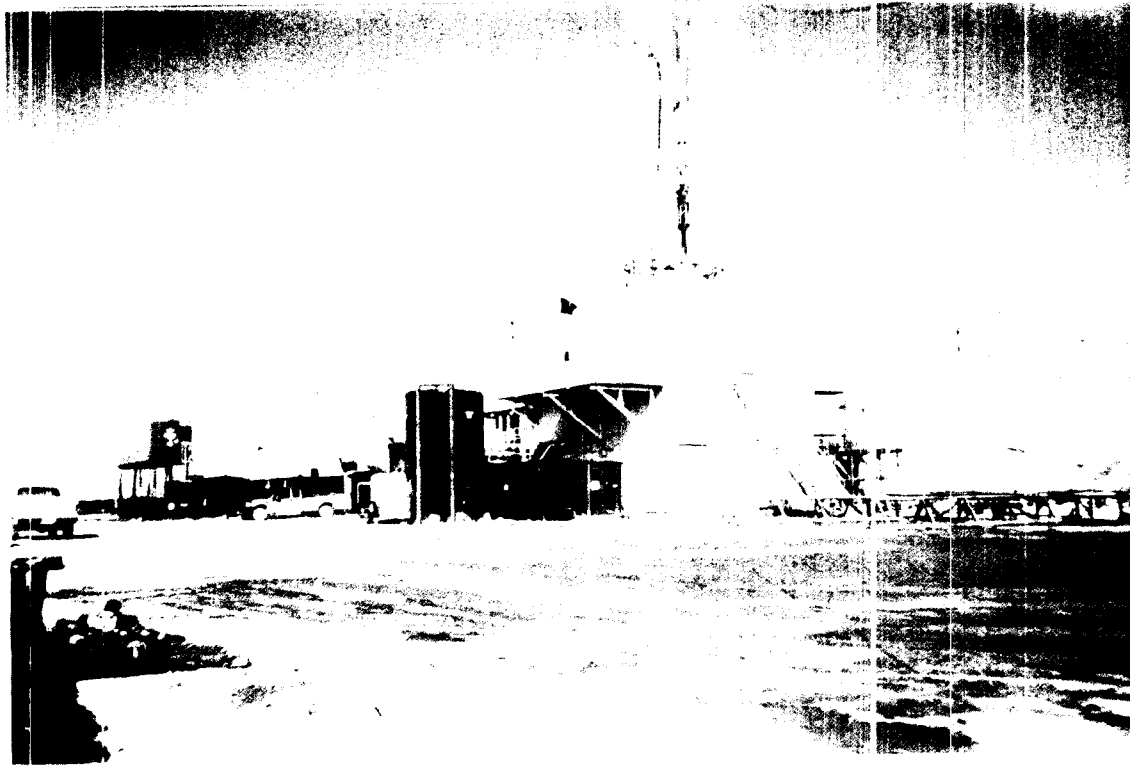
Form View

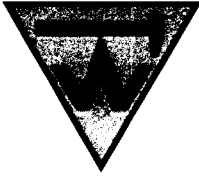
FLTR CAPS NUM

Start Novell-delivered Applicati... OIL & GAS INFORMATIO... Well Selection Criteria WELL INSPECTIONS

5:02 PM







# WOLVERINE GAS AND OIL CORPORATION

*Energy Exploration in Partnership with the Environment*

July 30, 2004

Mr. Dustin Doucet  
State of Utah  
Division of Oil, Gas and Mining  
1594 West North Temple  
Suite 1210  
Salt Lake City, UT 84114-5801

Re: Wildcat Designation  
Kings Meadow Ranch 17-1

Dear Dustin:

Pursuant to your telephone message, enclosed please find a Sundry Notice requesting a Wildcat designation for Wolverine Gas and Oil Corporation's Kings Meadow Ranch 17-1. Please feel free to contact me if you have any questions or concerns.

Very truly,

  
Richard D. Moritz

RECEIVED

AUG 02 2004

DIV OF OIL, GAS & MINING

024

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

CONFIDENTIAL FORM 9

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.

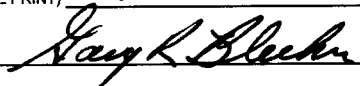
1. TYPE OF WELL OIL WELL <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER _____		5. LEASE DESIGNATION AND SERIAL NUMBER:
2. NAME OF OPERATOR: Wolverine Gas and Oil Company of Utah, LLC		6. IF INDIAN, ALLOTTEE OR TRIBE NAME:
3. ADDRESS OF OPERATOR: 55 Campau NW CITY Grand Rapids STATE MI ZIP 49503		7. UNIT or CA AGREEMENT NAME: Wolverine Federal Unit
4. LOCATION OF WELL FOOTAGES AT SURFACE: 2,040' FNL & 2,000' FWL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: SENW 17 23S 1W 6		8. WELL NAME and NUMBER: Kings Meadow Ranches 17-1
PHONE NUMBER: (616) 458-1150		9. API NUMBER: 4304130030
COUNTY: Sevier		10. FIELD AND POOL, OR WILDCAT: The Covenant Field
STATE: UTAH		

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION		
<input type="checkbox"/> NOTICE OF INTENT (Submit in Duplicate) Approximate date work will start: _____	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> REPERFORATE CURRENT FORMATION
	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> SIDETRACK TO REPAIR WELL
	<input type="checkbox"/> CASING REPAIR	<input type="checkbox"/> NEW CONSTRUCTION	<input type="checkbox"/> TEMPORARILY ABANDON
	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> TUBING REPAIR
	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> VENT OR FLARE
<input checked="" type="checkbox"/> SUBSEQUENT REPORT (Submit Original Form Only) Date of work completion: _____	<input type="checkbox"/> CHANGE WELL NAME	<input type="checkbox"/> PLUG BACK	<input type="checkbox"/> WATER DISPOSAL
	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> PRODUCTION (START/RESUME)	<input type="checkbox"/> WATER SHUT-OFF
	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input checked="" type="checkbox"/> OTHER: <u>Change Well Type</u>
	<input type="checkbox"/> CONVERT WELL TYPE	<input type="checkbox"/> RECOMPLETE - DIFFERENT FORMATION	

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

To change Type of Well from Gas Well to Oil Well.

NAME (PLEASE PRINT) <u>Gary R. Bleeker</u>	TITLE <u>Vice President and COO</u>
SIGNATURE 	DATE <u>6/22/2004</u>

(This space for State use only)

RECEIVED  
JUN 25 2004

DIV. OF OIL, GAS & MINING

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

FORM 9

025

**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.

1. TYPE OF WELL OIL WELL <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER _____		5. LEASE DESIGNATION AND SERIAL NUMBER:
2. NAME OF OPERATOR: Wolverine Gas and Oil Company of Utah, LLC		6. IF INDIAN, ALLOTTEE OR TRIBE NAME:
3. ADDRESS OF OPERATOR: 55 Campau NW CITY Grand Rapids STATE MI ZIP 49503		7. UNIT or CA AGREEMENT NAME: Wolverine Federal Unit
4. LOCATION OF WELL FOOTAGES AT SURFACE: 2040' FNL & 2000' FWL COUNTY: Sevier QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: SENW 17 23S 01W S STATE: UTAH		8. WELL NAME and NUMBER: Kings Meadow Ranch 17-1
PHONE NUMBER: (616) 458-1150		9. API NUMBER: 4304130030
		10. FIELD AND POOL, OR WILDCAT: Wildcat

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA			
TYPE OF SUBMISSION	TYPE OF ACTION		
<input type="checkbox"/> NOTICE OF INTENT (Submit in Duplicate) Approximate date work will start: _____	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> REPERFORATE CURRENT FORMATION
	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> SIDETRACK TO REPAIR WELL
	<input type="checkbox"/> CASING REPAIR	<input type="checkbox"/> NEW CONSTRUCTION	<input type="checkbox"/> TEMPORARILY ABANDON
	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> TUBING REPAIR
	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> VENT OR FLARE
<input checked="" type="checkbox"/> SUBSEQUENT REPORT (Submit Original Form Only) Date of work completion: _____	<input type="checkbox"/> CHANGE WELL NAME	<input type="checkbox"/> PLUG BACK	<input type="checkbox"/> WATER DISPOSAL
	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> PRODUCTION (START/RESUME)	<input type="checkbox"/> WATER SHUT-OFF
	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input checked="" type="checkbox"/> OTHER: <u>Request Wildcat designation</u>
	<input type="checkbox"/> CONVERT WELL TYPE	<input type="checkbox"/> RECOMPLETE - DIFFERENT FORMATION	

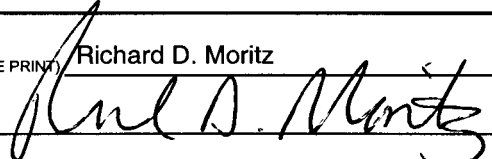
12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

Pursuant to R649-3-35, Wolverine requests a Wildcat designation for the Kings Meadow Ranch 17-1 Well (KMR 17-1). There are no producing wells within a one mile radius of the KMR 17-1 (copy of plat map showing the location of the well is attached). Because there are no producing wells within a one mile radius, a well comparison is not possible. The KMR 17-1 is currently producing from the Navajo formation. A Completion Report (Form 8) which includes all pertinent data is currently on file with the State of Utah. It has yet to be determined if the KMR 17-1 is in a known geologic structure.

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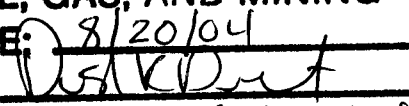
DIV. OF OIL, GAS & MINING

NAME (PLEASE PRINT) <u>Richard D. Moritz</u>	TITLE <u>Vice President Land</u>
SIGNATURE 	DATE <u>7/30/2004</u>

(This space for State use only)

COPY SENT TO OPERATOR  
Date: 8-23-04  
Initials: CHD

**APPROVED BY THE STATE OF UTAH DIVISION OF OIL, GAS, AND MINING**

DATE: 8/20/04  
BY:   
\* See attached Statement of Basis  
CC: STATE TAX Commission

(See Instructions on Reverse Side)



## INSTRUCTIONS

**This form shall be submitted by the operator to show the intention and/or completion of the following:**

- miscellaneous work projects and actions for which other specific report forms do not exist;
- all other work and events as identified in section 11, Type of Action, or as required by the Utah Oil and Gas Conservation General Rules, including:
  - minor deepening of an existing well bore,
  - plugging back a well,
  - recompleting to a different producing formation within an existing well bore (intent only),
  - reperforating the current producing formation,
  - drilling a sidetrack to repair a well,
  - reporting monthly the status of each drilling well.

**This form is not to be used for proposals to**

- drill new wells,
- reenter previously plugged and abandoned wells,
- significantly deepen existing wells below their current bottom-hole depth,
- drill horizontal laterals from an existing well bore,
- drill hydrocarbon exploratory holes such as core samples and stratigraphic tests.

**Use Form 3, Application for Permit to Drill (APD) for such proposals.**

**NOTICE OF INTENT** - A notice of intention to do work on a well or to change plans previously approved shall be submitted in duplicate and must be received and approved by the division before the work is commenced. The operator is responsible for receipt of the notice by the division in ample time for proper consideration and action. In cases of emergency, the operator may obtain verbal approval to commence work. Within five days after receiving verbal approval, the operator shall submit a Sundry Notice describing the work and acknowledging the verbal approval.

**SUBSEQUENT REPORT** - A subsequent report shall be submitted to the division within 30 days of the completion of the outlined work. Specific details of the work performed should be provided, including dates, well depths, placement of plugs, etc.

**WELL ABANDONMENT** - Proposals to abandon a well and subsequent reports of abandonment should include reasons for the abandonment; data on any former or present productive zones, or other zones with present significant fluid contents not sealed off by cement or otherwise; depths (top and bottom) and method of placement of cement plugs; mud or other material placed below, between and above plugs; amount, size, and method of parting of any casing, liner, or tubing pulled and the depth to top of any left in the hole; method of closing top of well; and date well site conditioned for final inspection looking to approval of the abandonment.

In addition to any Sundry Notice forms submitted, **Form 8, Well Completion or Recompletion Report and Log** must be submitted to the division to report the results of the following operations:

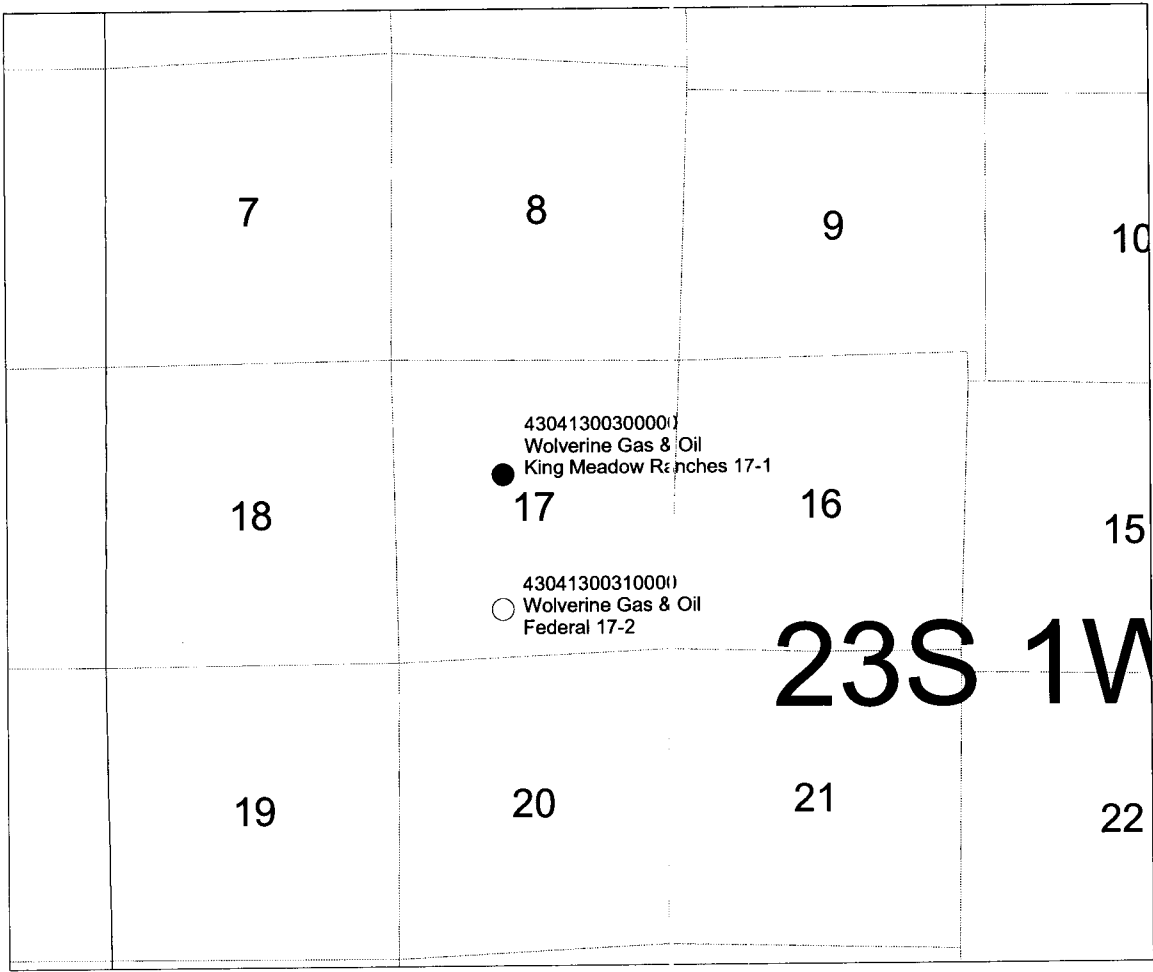
- completing or plugging a new well,
- reentering a previously plugged and abandoned well,
- significantly deepening an existing well bore below the current bottom-hole depth,
- drilling horizontal laterals from an existing well bore,
- drilling hydrocarbon exploratory holes such as core samples and stratigraphic tests,
- recompleting to a different producing formation.

Send to:

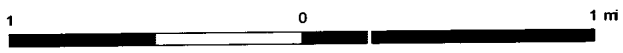
Utah Division of Oil, Gas and Mining  
1594 West North Temple, Suite 1210  
Box 145801  
Salt Lake City, Utah 84114-5801

Phone: 801-538-5340

Fax: 801-359-3940



1:40000



	<p>Wolverine Gas &amp; Oil Company of Utah, LLC (Operator) <i>Energy Exploration in Partnership with the Environment</i></p> <p>ONE RIVERFRONT PLAZA 35 CAMPBELL NW GRAND RAPIDS, MI 49503-2616 (616) 456-1150</p>
<p>Location Map WGOC KMR 17-1 Well Section 17, T23S, R1W Sevier County, Utah</p>	
<p>Date: 30 July, 2004</p>	<p>gmp:</p>

DIVISION OF OIL, GAS AND MINING  
**Wildcat Well Determination**  
**STATEMENT OF BASIS**

**Applicant:** Wolverine Gas and Oil Company of Utah, LLC

**Location:** SENW Sec. 17 T23S, R1W, Sevier County, Utah

**WELL NAME:** Kings Meadow Ranch 17-1 **API #:** 43-041-30030

**FINDINGS**

1. This well is currently producing from the Navajo formation.
2. This well is  $\pm$  45 miles from known production of any kind.
3. It is  $\pm$  3 miles to the nearest well drilled in the area.
4. The 3 wells  $\pm$  3 miles north of this location were drilled to various depths ranging from 6377' to 17,423' and subsequently plugged without ever producing (see attached AOR map).

**CONCLUSIONS**















- Based off of the findings above the Division has determined the Kings Meadow Ranch 17-1 well was drilled into an unknown area for the Navajo formation. Therefore, the Division finds that this well qualifies for the severance tax exemption under Section 59-5-102(2)(d) for wildcat wells. This determination was made in accordance with Oil and Gas General Conservation Rule R649-3-35.

Reviewer(s): Dustin K. Doucet

DKD












Date: 8/20/2004

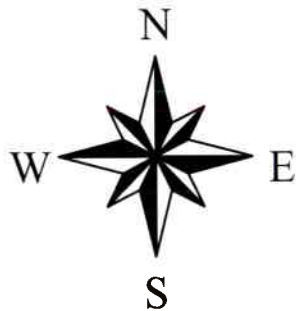
Wells.shp

-  GAS INJECTION
-  GAS STORAGE
-  LOCATION ABANDONED
-  NEW LOCATION
-  PLUGGED & ABANDONED
-  PRODUCING GAS
-  PRODUCING OIL
-  SHUT-IN GAS
-  SHUT-IN OIL
-  TEMP. ABANDONED
-  TEST WELL
-  WATER INJECTION
-  WATER SUPPLY
-  WATER DISPOSAL

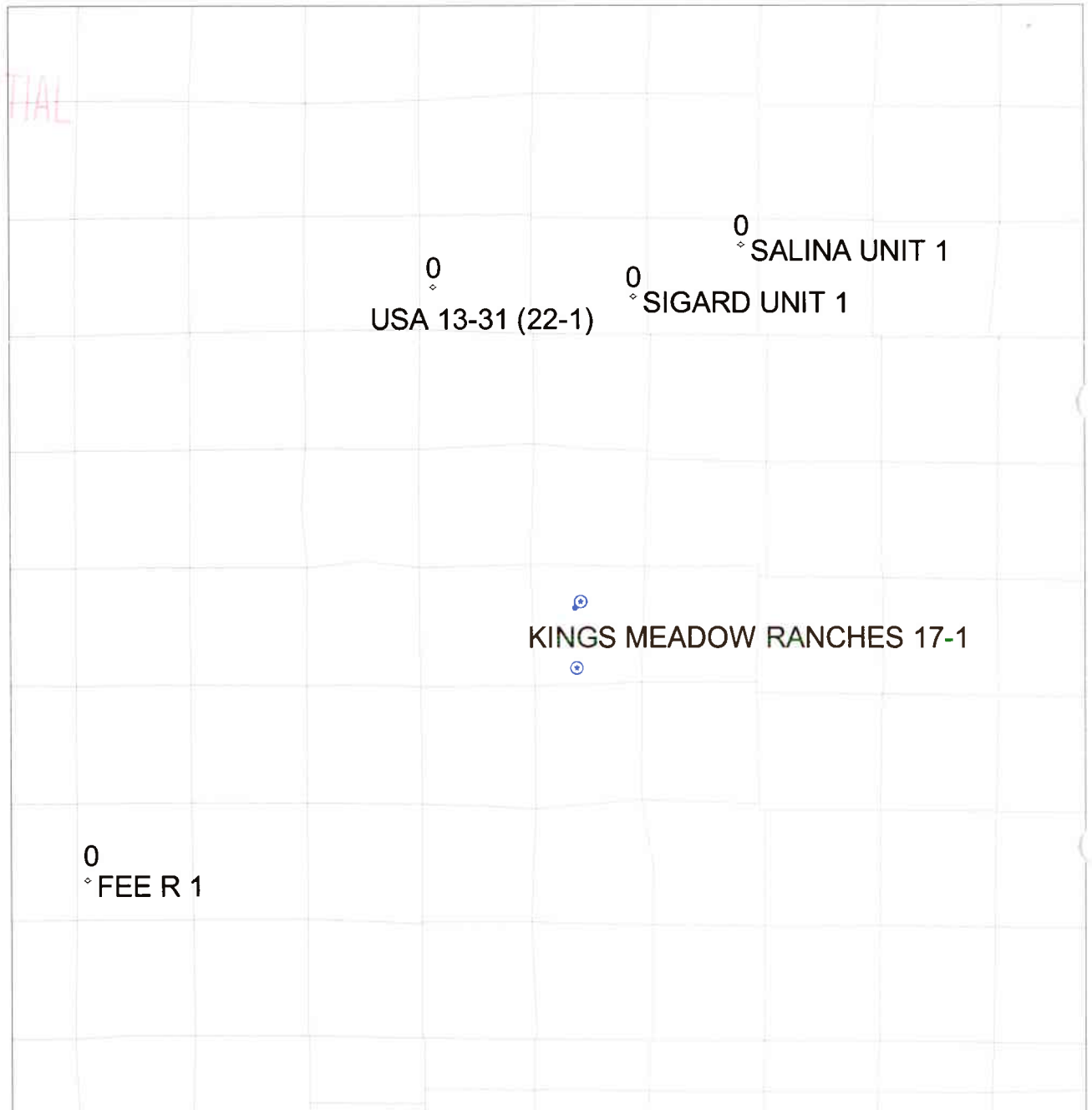
Sections.shp

Units.shp

-  EXPLORATORY
-  GAS STORAGE
-  NF PP OIL
-  NF SECONDARY
-  PENDING
-  PI OIL
-  PP GAS
-  PP GEOTHERML
-  PP OIL
-  SECONDARY
-  TERMINATED



CONFIDENTIAL



# Kings Meadow Ranch 17-1 Wildcat Well Determination (AOR)

RECEIVED

JAN 31 2005

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

AMENDED REPORT FORM 8
(highlight changes)

026

5. LEASE DESIGNATION AND SERIAL NUMBER:
UTU - 73528 FEE

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

1a. TYPE OF WELL: OIL WELL [X] GAS WELL [ ] DRY [ ] OTHER [ ]
b. TYPE OF WORK: NEW WELL [ ] HORIZ. LATS. [ ] DEEP-EN [ ] RE-ENTRY [ ] DIFF. RESVR. [ ] OTHER [ ]
Re-compl (perms)

7. UNIT or CA AGREEMENT NAME
Wolverine Federal Unit

8. WELL NAME and NUMBER:
Kings Meadow Ranches 17-1

2. NAME OF OPERATOR:
Wolverine Gas and Oil Company of Utah, LLC

9. API NUMBER:
4304130030

3. ADDRESS OF OPERATOR:
55 Campau NW CITY Grand Rapids STATE MI ZIP 49503

PHONE NUMBER:
(616) 458-1150

10 FIELD AND POOL, OR WILDCAT
Covenant Ranch

4. LOCATION OF WELL (FOOTAGES)
AT SURFACE: 2,040' FNL & 2,000' FWL
AT TOP PRODUCING INTERVAL REPORTED BELOW: 2,029' FNL & 2,031' FWL
AT TOTAL DEPTH: 2,032' FNL & 2,192' FWL

11. QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:
SENW 17 23S 1W S

12. COUNTY
Sevier
13. STATE
UTAH

14. DATE SPUDED:
11/20/2003

15. DATE T.D. REACHED:
1/27/2004

16. DATE COMPLETED:
5/3/2004 11-3-04 ABANDONED [ ] READY TO PRODUCE [X]

17. ELEVATIONS (DF, RKB, RT, GL):
5745, 5746, N/A, 5726

18. TOTAL DEPTH: MD 9,396 TVD 9,382

19. PLUG BACK T.D.: MD 6,410 TVD 6,404

20. IF MULTIPLE COMPLETIONS, HOW MANY? \*

21. DEPTH BRIDGE MD 6,430 PLUG SET: TVD 6,424

22. TYPE ELECTRIC AND OTHER MECHANICAL LOGS RUN (Submit copy of each)
No new logs

23. WAS WELL CORED? NO [ ] YES [ ] (Submit analysis)
WAS DST RUN? NO [ ] YES [ ] (Submit report)
DIRECTIONAL SURVEY? NO [ ] YES [ ] (Submit copy)

24. CASING AND LINER RECORD (Report all strings set in well)

Table with 10 columns: HOLE SIZE, SIZE/GRADE, WEIGHT (#/ft.), TOP (MD), BOTTOM (MD), STAGE CEMENT DEPTH, CEMENT TYPE & NO. OF SACKS, SLURRY VOLUME (BBL), CEMENT TOP \*\*, AMOUNT PULLED. Includes rows for 17-1/2", 12-1/4", and 7-7/8" hole sizes.

25. TUBING RECORD

Table with 9 columns: SIZE, DEPTH SET (MD), PACKER SET (MD), SIZE, DEPTH SET (MD), PACKER SET (MD), SIZE, DEPTH SET (MD), PACKER SET (MD). Includes row for size 2.875 and depth set 4.

26. PRODUCING INTERVALS

Table with 5 columns: FORMATION NAME, TOP (MD), BOTTOM (MD), TOP (TVD), BOTTOM (TVD). Includes row for Navajo 1 formation.

27. PERFORATION RECORD

Table with 10 columns: INTERVAL (Top/Bot - MD), SIZE, NO. HOLES, PERFORATION STATUS. Includes rows for intervals 6,176-6,186, 6,144-6,154, and 6,100-6,115.

28. ACID, FRACTURE, TREATMENT, CEMENT SQUEEZE, ETC.

Table with 2 columns: DEPTH INTERVAL, AMOUNT AND TYPE OF MATERIAL. Includes rows for intervals 6176-6186 and 6100-6186.

29. ENCLOSED ATTACHMENTS:
[ ] ELECTRICAL/MECHANICAL LOGS
[ ] GEOLOGIC REPORT
[ ] DST REPORT
[ ] DIRECTIONAL SURVEY
[ ] SUNDRY NOTICE FOR PLUGGING AND CEMENT VERIFICATION
[ ] CORE ANALYSIS
[ ] OTHER:

30. WELL STATUS:

**31. INITIAL PRODUCTION**
**INTERVAL A (As shown in Item #26)**

DATE FIRST PRODUCED: <b>5/12/2004</b>		TEST DATE: <b>11/14/2004</b>		HOURS TESTED: <b>76</b>		TEST PRODUCTION RATES: →	OIL - BBL: <b>803</b>	GAS - MCF: <b>1</b>	WATER - BBL: <b>75</b>	PROD. METHOD: <b>pump</b>
CHOKE SIZE:	TBG. PRESS. <b>0</b>	CSG. PRESS. <b>4</b>	API GRAVITY <b>39.50</b>	BTU - GAS	GAS/OIL RATIO <b>1</b>	24 HR PRODUCTION RATES: →	OIL - BBL: <b>803</b>	GAS - MCF: <b>1</b>	WATER - BBL: <b>75</b>	INTERVAL STATUS: <b>producing</b>

**INTERVAL B (As shown in Item #26)**

DATE FIRST PRODUCED:		TEST DATE:		HOURS TESTED:		TEST PRODUCTION RATES: →	OIL - BBL:	GAS - MCF:	WATER - BBL:	PROD. METHOD:
CHOKE SIZE:	TBG. PRESS.	CSG. PRESS.	API GRAVITY	BTU - GAS	GAS/OIL RATIO	24 HR PRODUCTION RATES: →	OIL - BBL:	GAS - MCF:	WATER - BBL:	INTERVAL STATUS:

**INTERVAL C (As shown in Item #26)**

DATE FIRST PRODUCED:		TEST DATE:		HOURS TESTED:		TEST PRODUCTION RATES: →	OIL - BBL:	GAS - MCF:	WATER - BBL:	PROD. METHOD:
CHOKE SIZE:	TBG. PRESS.	CSG. PRESS.	API GRAVITY	BTU - GAS	GAS/OIL RATIO	24 HR PRODUCTION RATES: →	OIL - BBL:	GAS - MCF:	WATER - BBL:	INTERVAL STATUS:

**INTERVAL D (As shown in Item #26)**

DATE FIRST PRODUCED:		TEST DATE:		HOURS TESTED:		TEST PRODUCTION RATES: →	OIL - BBL:	GAS - MCF:	WATER - BBL:	PROD. METHOD:
CHOKE SIZE:	TBG. PRESS.	CSG. PRESS.	API GRAVITY	BTU - GAS	GAS/OIL RATIO	24 HR PRODUCTION RATES: →	OIL - BBL:	GAS - MCF:	WATER - BBL:	INTERVAL STATUS:

**32. DISPOSITION OF GAS (Sold, Used for Fuel, Vented, Etc.)**
**33. SUMMARY OF POROUS ZONES (Include Aquifers):**

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

**34. FORMATION (Log) MARKERS:**

Formation	Top (MD)	Bottom (MD)	Descriptions, Contents, etc.	Name	Top (Measured Depth)
Navajo 1	5,845	7,100	Sandstone, contains oil and water	Arapien	0
Kayenta	7,100	7,256	Sandstone, presumably contains water	Twin Creek	5,549
Wingate	7,256	7,835	Sandstone, presumably contains water	Navajo 1	5,845
Navajo 2	8,149	9,396	Sandstone, contains water	Kayenta	7,100
				Wingate	7,256
				Twin Creek 2	7,835
				Navajo 2	8,149

**35. ADDITIONAL REMARKS (Include plugging procedure)**

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

NAME (PLEASE PRINT) John Vrona TITLE Geologist  
 SIGNATURE *John P. Vrona* DATE 1-25-05

This report must be submitted within 30 days of

- completing or plugging a new well
- reentering a previously plugged and abandoned well
- drilling horizontal laterals from an existing well bore
- significantly deepening an existing well bore below the previous bottom-hole depth
- recompleting to a different producing formation
- drilling hydrocarbon exploratory holes, such as core samples and stratigraphic tests

\* ITEM 20: Show the number of completions if production is measured separately from two or more formations.

\*\* ITEM 24: Cement Top - Show how reported top(s) of cement were determined (circulated (CIR), calculated (CAL), cement bond log (CBL), temperature survey (TS)).

Send to: Utah Division of Oil, Gas and Mining  
 1594 West North Temple, Suite 1210  
 Box 145801  
 Salt Lake City, Utah 84114-5801

Phone: 801-538-5340  
 Fax: 801-359-3940

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		FORM 9	
<b>SUNDRY NOTICES AND REPORTS ON WELLS</b>		<b>5. LEASE DESIGNATION AND SERIAL NUMBER:</b> FEE	
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.		<b>6. IF TRIBAL, ALLOTTEE OR TRIBE NAME:</b>	
		<b>7. UNIT or CA AGREEMENT NAME:</b> WOLVERINE	
<b>1. TYPE OF WELL</b> Oil Well	<b>8. WELL NAME and NUMBER:</b> Kings Meadow Ranches 17-1		
<b>2. NAME OF OPERATOR:</b> Wolverine Gas & Oil Company of Utah, LLC	<b>9. API NUMBER:</b> 43041300300000		
<b>3. ADDRESS OF OPERATOR:</b> One Riverfront Plaza 55 Campau NW #1, Grand Rapids, MI, 49503-2616	<b>PHONE NUMBER:</b> 616-458-1150	<b>9. FIELD and POOL or WILDCAT:</b> COVENANT	
<b>4. LOCATION OF WELL FOOTAGES AT SURFACE:</b> 2040 FNL 2000 FWL <b>QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:</b> Qtr/Qtr: SENW Section: 17 Township: 23S Range: 1W Meridian: S	<b>COUNTY:</b> SEVIER		
	<b>STATE:</b> UTAH		
<b>11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA</b>			
TYPE OF SUBMISSION	TYPE OF ACTION		
<input checked="" type="checkbox"/> <b>NOTICE OF INTENT</b> Approximate date work will start: 5/1/2022  <input type="checkbox"/> <b>SUBSEQUENT REPORT</b> Date of Work Completion:  <input type="checkbox"/> <b>SPUD REPORT</b> Date of Spud:  <input type="checkbox"/> <b>DRILLING REPORT</b> Report Date:	<input checked="" type="checkbox"/> ACIDIZE	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> CASING REPAIR
	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> CHANGE WELL NAME
	<input type="checkbox"/> CHANGE WELL STATUS	<input checked="" type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> CONVERT WELL TYPE
	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> NEW CONSTRUCTION
	<input type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> PLUG BACK
	<input type="checkbox"/> PRODUCTION START OR RESUME	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input checked="" type="checkbox"/> RECOMPLETE DIFFERENT FORMATION
	<input type="checkbox"/> REPERFORATE CURRENT FORMATION	<input type="checkbox"/> SIDETRACK TO REPAIR WELL	<input type="checkbox"/> TEMPORARY ABANDON
	<input type="checkbox"/> TUBING REPAIR	<input type="checkbox"/> VENT OR FLARE	<input type="checkbox"/> WATER DISPOSAL
	<input type="checkbox"/> WATER SHUTOFF	<input type="checkbox"/> SI TA STATUS EXTENSION	<input type="checkbox"/> APD EXTENSION
	<input type="checkbox"/> WILDCAT WELL DETERMINATION	<input type="checkbox"/> OTHER	OTHER: <input style="width: 100px;" type="text"/>
<b>12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.</b>			
<p>Wolverine Gas and Oil Co. of Utah, LLC seeks approval to workover Kings Meadow Ranches (KMR) 17-1 to recomplete the White Throne interval. KMR 17-1 currently makes about 90 BO and 285 BWPd from the Navajo formation, but reservoir modeling efforts indicate significant productive potential in the White Throne interval. Wolverine intends to recomplete the White Throne with perforations between approx. 5860'-6040'. New perforations will be swab tested and likely acidized. Assuming a successful test, the well will subsequently be put on line as a commingled Navajo/White Throne producer, which is now commonplace in the Covenant Field.</p>			
			<p><b>Approved by the Utah Division of Oil, Gas and Mining</b></p> <p><b>Date:</b> <u>March 07, 2022</u></p> <p><b>By:</b> <u><i>Don K. Quist</i></u></p>
<b>NAME (PLEASE PRINT)</b> Ron Meredith	<b>PHONE NUMBER</b> 616 490-8616	<b>TITLE</b> Consulting Engineer for Wolv. Gas & Oil	
<b>SIGNATURE</b> N/A		<b>DATE</b> 2/23/2022	

<b>STATE OF UTAH</b> DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		<b>FORM 9</b>
<b>SUNDRY NOTICES AND REPORTS ON WELLS</b>  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.		<b>5. LEASE DESIGNATION AND SERIAL NUMBER:</b> FEE
		<b>6. IF TRIBAL, ALLOTTEE OR TRIBE NAME:</b>
		<b>7. UNIT or CA AGREEMENT NAME:</b> WOLVERINE
<b>1. TYPE OF WELL</b> Oil Well		<b>8. WELL NAME and NUMBER:</b> Kings Meadow Ranches 17-1
<b>2. NAME OF OPERATOR:</b> Wolverine Gas & Oil Company of Utah, LLC		<b>9. API NUMBER:</b> 43041300300000
<b>3. ADDRESS OF OPERATOR:</b> One Riverfront Plaza 55 Campau NW #1, Grand Rapids, MI, 49503-2616	<b>PHONE NUMBER:</b> 616-458-1150	<b>9. FIELD and POOL or WILDCAT:</b> COVENANT
<b>4. LOCATION OF WELL FOOTAGES AT SURFACE:</b> 2040 FNL 2000 FWL <b>QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:</b> Qtr/Qtr: SENW Section: 17 Township: 23S Range: 1W Meridian: S		<b>COUNTY:</b> SEVIER
		<b>STATE:</b> UTAH
<b>11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA</b>		
<b>TYPE OF SUBMISSION</b>	<b>TYPE OF ACTION</b>	
<input type="checkbox"/> NOTICE OF INTENT Approximate date work will start:	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> ALTER CASING
<input checked="" type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion: 5/17/2022	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> CHANGE TUBING
<input type="checkbox"/> SPUD REPORT Date of Spud:	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS
<input type="checkbox"/> DRILLING REPORT Report Date:	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> FRACTURE TREAT
	<input type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> PLUG AND ABANDON
	<input type="checkbox"/> PRODUCTION START OR RESUME	<input type="checkbox"/> RECLAMATION OF WELL SITE
	<input type="checkbox"/> REPERFORATE CURRENT FORMATION	<input checked="" type="checkbox"/> RECOMPLETE DIFFERENT FORMATION
	<input type="checkbox"/> TUBING REPAIR	<input type="checkbox"/> SIDETRACK TO REPAIR WELL
	<input type="checkbox"/> WATER SHUTOFF	<input type="checkbox"/> VENT OR FLARE
	<input type="checkbox"/> WILDCAT WELL DETERMINATION	<input type="checkbox"/> SI TA STATUS EXTENSION
		<input type="checkbox"/> OTHER: <input type="text"/>
<b>12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.</b> Wolverine Gas & Oil Company of Utah, LLC recompleated the referenced well on 05-17-2022 to squeeze high water perms from the Navajo and complete the White Throne (see attached report with updated well bore diagram).		
		<b>Accepted by the Utah Division of Oil, Gas and Mining FOR RECORD ONLY (This is not an approval) March 22, 2023</b>
<b>NAME (PLEASE PRINT)</b> Don Hamilton	<b>PHONE NUMBER</b> 435-650-3866	<b>TITLE</b> Permitting Agent
<b>SIGNATURE</b> N/A	<b>DATE</b> 3/8/2023	





Covenant Field SHL: SE/NW S17, T23S, R1W  
 KMR 17-1 BHL: SE/NW S17, T23S, R1W  
 API# 43-041-30030 Sevier County, Utah

**Reason for well workover:** Complete the White Throne

5/5/2022

Moved in frac tanks, set up flowback piping and water filtration trailer.

5/9/2022

Moved in and rigged up service unit. Nippled down the wellhead and nipped up the BOP.

Plan to pull out of the hole with the ESP, run a bit and scraper and scan the tubing.

5/10/2022

Opened well, 105 psi casing, 60 psi casing. Rigged up vac truck to the well and pulled out of the hole laying down ESP equipment. Picked up 4 5/8" bit and 5 1/2" casing scraper and tripped in the hole to PBTD at 6410'. Rigged up tubing scanning equipment and tripped out of the hole laying down bit and scraper.

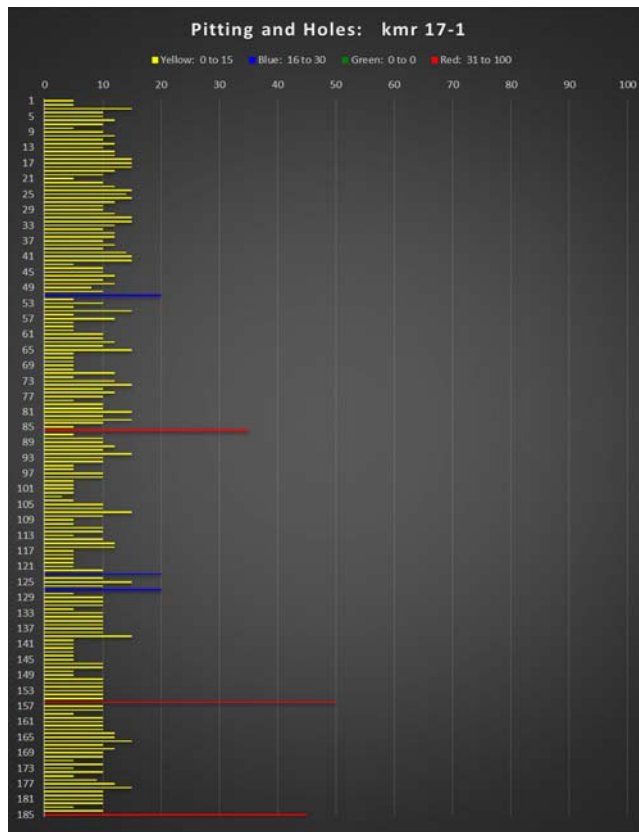
Note: All of the ESP equipment looked like new with no signs of corrosion, there was minor amounts of soft gypsum on the outside of the motor, seal and pump. (see photos tab)

All of the tubing exterior looked like new with no signs of scale or corrosion.

Laid down 6 total joints of tubing from internal pitting. See chart below.

No drag or tight spots were found while running the casing scraper.

The ESP equipment will be sent back to Baker Hughes in Casper WY to be inspected and repaired. The cable looked good and will be re-run in the well.



Plan to perforate the White Throne from 5861'-6040' then swab test prior to acid work.

5/11/2022

Opened well, 0 psi. Rigged up vac truck and wireline unit and perforated as follows:

3 3/8" Owen scalloped guns loaded with 21.5-gram charges, 0.40 EH, 35" Pen.

Formation: White Throne

5861' – 5864' MD (5856' – 5859' TVD), 03', 4 spf, 12 Holes

5876' – 5884' MD (5871' – 5879' TVD), 08', 4 spf, 32 Holes

5905' – 5909' MD (5900' – 5904' TVD), 04', 2 spf, 08 Holes

5915' – 5954' MD (5910' – 5949' TVD), 39', 2 spf, 78 Holes

5970' – 5980' MD (5965' – 5975' TVD), 10', 4 spf, 40 Holes

5983' – 5988' MD (5978' – 5983' TVD), 05', 4 spf, 20 Holes

6030' – 6032' MD (6025' – 6027' TVD), 02', 4 spf, 08 Holes

6036' – 6040' MD (6031' – 6035' TVD), 04', 4 spf, 16 Holes

All depths are with reference to Halliburton's 12/28/03 SDDSN Log

Rigged down and released wireline unit. Picked up and tripped in the hole with retrievable bridge plug and HD packer.

Set plug at 6070' and the packer at 5841 to swab all of the White Throne perms. Rigged up swab equipment and swabbed well as follows:

White Throne Perforations 5861'-6040'

Swab runs: 12

Total fluid recovered: 71 bbls

Oil: 65 bbls.

Water: 6 bbls.

Final water cut: 0%

BHP during swabbing: 1400 psi

Rigged down swab equipment and left well open to the tank overnight.

Note: Well rates were not established. Tomorrows swab data will have accurate rates and bottom hole pressures.

The final three swab runs were 100% oil.

Cumulative oil from the White Throne 65 bbls.

5/12/2022

Well flowed 20 bbls of oil overnight.

Rigged up swab equipment and swabbed well as follows:

White Throne Perforations 5861'-6040'

Swab runs: 54

Total fluid recovered: 304 bbls

Oil: 304 bbls.

Water: 0 bbls.

Final water cut: 0%

BHP during swabbing: 1417 psi

PI - 0.712

Estimated production: 700 oil, 0 water @ 1417 psi BHP.

See "Swabbing 5-12" tab for details

Rigged down swab equipment and left well open to the frac tank for the night.

Note: Cumulative oil from the White Throne 369 bbls.

Plan to check for communication behind pipe in the White Throne then swab test Navajo perforations for rate and cut.

5/13/2022

Well flowed 17 bbls of oil overnight.

Released packer and re-set at 5961'. Rigged up swab equipment and made 5 swab runs confirming communication between perf sets 5954' and 5970'.

Formation: White Throne

- 5861' – 5864' MD (5856' – 5859' TVD), 03', 4 spf, 12 Holes
- 5876' – 5884' MD (5871' – 5879' TVD), 08', 4 spf, 32 Holes
- 5905' – 5909' MD (5900' – 5904' TVD), 04', 2 spf, 08 Holes
- Communication { 5915' – 5954' MD (5910' – 5949' TVD), 39', 2 spf, 78 Holes
- 5970' – 5980' MD (5965' – 5975' TVD), 10', 4 spf, 40 Holes
- 5983' – 5988' MD (5978' – 5983' TVD), 05', 4 spf, 20 Holes
- 6030' – 6032' MD (6025' – 6027' TVD), 02', 4 spf, 08 Holes
- 6036' – 6040' MD (6031' – 6035' TVD), 04', 4 spf, 16 Holes

Rigged down swab equipment, released plug and packer, set plug at 6239' and packer at 6200'. Rigged up swab equipment and made 3 swab runs confirming communication between perf sets 6186' and 6215'. Released plug and packer. Set plug at 6200', set packer at 6167'. Rigged up swab equipment and made 3 swab runs confirming communication between perf sets 6154' and 6176'. Rigged down swab equipment, released plug and packer, reset plug at 6166' and packer at 6134'. Rigged up swab equipment, made three runs confirming communication between perf sets 6115' and 6144'. Rigged down swab equipment, released plug and packer, reset plug at 6130' set packer at 6069'. Rigged up swab equipment and made 15 swab runs with a rate of 415 bfpd and a fluid level of 2500' confirming communication between perf sets 6115'-6144'. Rigged down swab equipment, released plug and packer. Reset the plug at 6070' and the packer at 5841'. Rigged up swab equipment and made 5 swab runs to recover water out of the tubing. Rigged down swab equipment and opened well to the frac tank overnight.

Formation: Navajo

- Communication { 6100'- 6115' MD (6095'- 6110' TVD), 15', 60 Holes
- Communication { 6144'- 6154' MD (6139'- 6149' TVD), 10', 40 Holes
- Communication { 6176'- 6186' MD (6171'- 6181' TVD), 10', 40 Holes
- Communication { 6215'- 6225' MD (6210'- 6220' TVD), 10', 40 Holes

Note: Oil/water cut and rate was not established due to communication between perf sets.

Cumulative oil from the White Throne 396 bbls, cumulative water from the White Throne 0 bbls.

Cumulative oil from the Navajo 10 bbls, cumulative water from the Navajo 97 bbls

Plan to swab for half of the day tomorrow then release tools and pull out of the hole to prepare for a pump install on the 15th.

5/14/2022

Well flowed 42 bbls of oil overnight.

Rigged up swab equipment and swabbed 128 bbls oil from the White Throne. Rigged down swab equipment and tripped out of the hole laying down plug and packer.

Note: Cumulative oil from the White Throne 566 bbls, cumulative water from the White Throne 0 bbls.

Cumulative oil from the Navajo 10 bbls, cumulative water from the Navajo 97 bbls

Plan to install ESP equipment and return well to production.

5/15/2022

Opened well, 241 psi. Rigged up vac truck and spooling equipment. Tripped in the hole with centralizer, sensor, motor, seal, (2) pumps, centralizer, 2 joints, 6' sub and 182 joints of N-80 tubing to surface. Installed a field attachable lower connector and landed well. Nippled down BOP equipment, nipped up wellhead and returned well to production.

Note: See "Tubing tally" tab for lengths and diameters of equipment.

Cable guards are installed along the entire length of the two pumps.

SS bands are installed above and below each collar.

New O-rings were installed on the tubing hanger.

There is not a check or drain valve in the well.

The ESP equipment and motor lead installed were purchased from Baker Hughes.

The lower connector is a Taurus Hybrid Wellhead Feedthru field attachable Part# H9C8-FA4-GRW.

The well flowed 115 bbls of oil to the vac truck during the pump install. This was primarily water coming in from the Navajo and equalizing in the well bore.

Static bottom hole pressure prior to start up was 2199 psi.

Cumulative oil from the White Throne 681 bbls, cumulative water from the White Throne 0 bbls.

Cumulative oil from the Navajo 10 bbls, cumulative water from the Navajo 97 bbls

5/16/2022

3.5 hour production rate, 70 oil, 52 water. 43% Water cut, BHP 1550, Tubing 45, Casing 0, 40 Hz.

5/17/2022

20 hour production, 538 oil, 285 water. 35% Water cut, BHP 1525, Tubing 39, Casing 12, 40 Hz.

The well was shut down for 4 hours to re-tap the transformer and hook up the chemical system to the wellhead.

The producing BHP is still falling slowly, otherwise the oil and water trends are stabilized at a rate of 560 bbls oil, 360 bbls of water with a BHP of 1525 psi at mid-perf.

5/18/2022

24 hour production, 547 oil, 301 water, 35% water cut, BHP 1503, Tubing 40, Casing 13, 40 Hz.

5/19/2022

24 hour production, 546 oil, 281 water, 33% water cut, BHP 1497, Tubing 41, Casing 12, 40 Hz.

-6

5/20/2022

24 hour production, 546 oil, 286 water, 33% water cut, BHP 1483, Tubing 40, Casing 12, 40 Hz.

-14

5/21/2022

24 hour production, 545 oil, 269 water, 33% water cut, BHP 1473, Tubing 40, Casing 12, 40 Hz.

-10

5/22/2022

24 hour production, 543 oil, 259 water, 32% water cut, BHP 1459, Tubing 40, Casing 12, 40 Hz.

-14

5/23/2022

24 hour production, 542 oil, 254 water, 32% water cut, BHP 1455, Tubing 40, Casing 12, 40 Hz.

-4

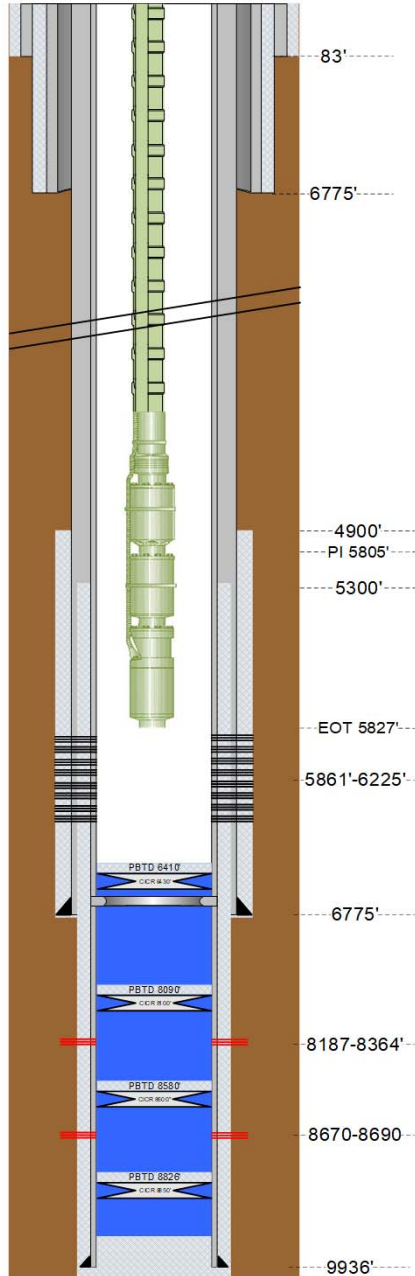
Supervisor: Tony E. Cook

Rig Operator: D Gardner



**Kings Meadow Ranches 17-1**  
**API # 43-041-30030**  
**Covenant Field**  
**Section 17, T23S, R1W**  
**Sevier County, Utah**

Ground Elevation: 5,723'  
 KB Elevation: 5,746'



**(Not to Scale)**

**Deviated Well**

Surface: 2040' FNL, 2000' FWL, SE NW, 17-23S-1W  
 Top of Pay (5850' MD): 2084' FNL, 2025' FWL, SE NW, 17-23S-1W  
 Total Depth (9396' MD): 2074' FNL, 2205' FWL, SE NW, 17-23S-1W

**Conductor Casing**

Size: 20"  
 Depth Landed: 83'  
 Cement Data: Cemented to surface

**Surface Casing (11/22/03)**

Size/Wt/Grade: 13-3/8", 54.5#, J-55, STC, 8rd  
 Depth Landed: 665' MD  
 Cement Data: 845 sks Class "A" (15.6 ppg, 1.18 cf/sk)

**Intermediate Casing (12/30/03)**

Size/Wt/Grade: 9-5/8", 53.5#, HCP-110 & C-95, LTC, 8rd  
 Depth Landed: 6775' MD  
 Cement Data: 310 sks 50:50 Poz (13.0 ppg, 1.62 cf/sk), 385 sks 50:50 POZ (13.4 ppg, 1.51 cf/sk) Est. TOC @ 4900'

**Production Casing (2/3/04)**

Size/Wt/Grade: 5-1/2", 20#, L-80, LTC, 8rd  
 Properties: 9190 psi burst, 4.653" drift, 4.778" ID, 0.0221 Bbl/ft Capacity  
 Depth Landed: 9396' MD  
 Stage Tool: Weatherford Model 781 POST at 6524'  
 Cement Data: 570 sks N2 foamed Class "G", 50 sks Class "G" (14.4 ppg, 1.47 cf/sk)

**White Throne Perforations**

5861' - 5864' MD (5856' - 5859' TVD), 03', 4 spf, 12 Holes (5/13/22)  
 5876' - 5884' MD (5871' - 5879' TVD), 08', 4 spf, 32 Holes (5/13/22)  
 5905' - 5909' MD (5900' - 5904' TVD), 04', 2 spf, 08 Holes (5/13/22)  
 5915' - 5954' MD (5910' - 5949' TVD), 39', 2 spf, 78 Holes (5/13/22)  
 5970' - 5980' MD (5965' - 5975' TVD), 10', 4 spf, 40 Holes (5/13/22)  
 5983' - 5988' MD (5978' - 5983' TVD), 05', 4 spf, 20 Holes (5/13/22)  
 6030' - 6032' MD (6025' - 6027' TVD), 02', 4 spf, 08 Holes (5/13/22)  
 6036' - 6040' MD (6031' - 6035' TVD), 04', 4 spf, 16 Holes (5/13/22)

**Navajo Perforations**

6100' - 6115' MD (6095' - 6110' TVD), 15', 4 spf, 60 holes (11/3/04)  
 6144' - 6154' MD (6139' - 6149' TVD), 10', 4 spf, 40 holes (11/3/04)  
 6176' - 6186' MD (6171' - 6181' TVD), 10', 4 spf, 40 holes (11/3/04)  
 6215' - 6225' MD (6210' - 6220' TVD), 10', 4 spf, 40 holes (04/8/04)

Mid-Perf = 6043' MD (6038' TVD), 120' M (120' TV), 394 holes

8187'- 8364' MD (8182'- 8359' TVD), 06', 12 holes (3/30/04)  
 8670'- 8690' MD (8665'- 8685' TVD), 20', 80 holes (3/27/04)



**Kings Meadow Ranches 17-1**  
**API # 43-041-30030**  
**Covenant Field**  
**Section 17, T23S, R1W**  
**Sevier County, Utah**

**Tubing (05/15/2022)**

Marker Jt 5681' MD (5676' TVD)  
 Pump Intake 5805' MD (5800' TVD)  
 Sensor 5823' MD (5818' TVD)  
 EOT 5827' MD (5822' TVD)

**PBTD**

(04/7/04) CIBP @ 6430' w/ top cement to 6410' MD  
 (04/7/04) CIBP @ 8110' w/ top cement to 8090' MD  
 (3/30/04) CIBP @ 8600' w/ top cement to 8580' MD  
 (3/26/04) CIBP @ 8850' w/ top cement to 8826' MD

**Tubing Detail (05/15/2022)**

	23.00	KB
	-2.00	Landed above GL
	-5.00	Wireline correction
182	5664.62	Tubing - 2-7/8", 6.5#, N-80, EUE, 8rd
1	6.04	Tubing - 2-7/8", 6.5#, N-80, EUE, 8rd
1	63.48	Tubing - 2-7/8", 6.5#, N-80, EUE, 8rd
1	6.04	Tubing - 2-7/8", 6.5#, N-80, EUE, 8rd with Centralizer
1	0.50	Pump discharge
1	23.65	Pump
1	23.65	Pump
1	0.6	Pump intake
1	6.13	Seal
1	11.95	Motor
1	2.93	Sensor
1	1.38	Centralizer
<hr/>		
	'5826.97	EOT (5827 MD, 5822' TVD)

Note: No check valve in this well.  
 Tubing capacity = 0.00579 Bbl/ft, Burst = 10570 psi, Joint Yield = 144960 lbs



**Kings Meadow Ranches 17-1**  
**API # 43-041-30030**  
**Covenant Field**  
**Section 17, T23S, R1W**  
**Sevier County, Utah**

**Directional Data:**

<u>MD</u>	<u>TVD</u>	<u>Incl.</u>	<u>MD</u>	<u>TVD</u>	<u>Incl.</u>
1000	1000	1.3	6000	5995	0.8
2000	1999	1.7	7000	6993	3.6
3000	2997	2.7	8000	7989	4.5
4000	3996	2.4	9000	8987	1.6
5000	4996	1.7	8396	9383	0.5 E

**Wellhead Information**

- Tubing head flange is 7-1/16", 10M with a 2-7/8" EUE 8rd top connection.
- North valve in cellar is to the 13-38" x 9-5/8" annulus
- South valve in cellar is to the 9-5/8" x 5-1/2" annulus

**Stimulation**

4/13/04: 6215' - 6225' w/ 1000 gal 7.5% HCl. BTR = 1.1 BPM @ 3990 psi, FTR = 4.4 BPM @ 3810 psi

4/14/04: 6215' - 6225' w/ 1500 gal 7.5% HCl. BTR = 4.2 BPM @ 3373 psi, FTR = 4.2 BPM @ 3100 psi, ISDP = 1685 psi

11/4/04: 6100' - 6186' w/ 4500 gal 7.5% HCl. ATR = 4.0 BPM @ 3200 psi, ISDP = 2220 psi

**Notes**

Surface Location: Latitude = 38° 48' 16.13", Longitude = -111° 56' 05.35"  
 (1/29/04): Cement top behind 9-5/8" at 4900' on CBL-CCL-GR  
 (2/10/04): Cement top behind 5-1/2" at 5300' on CBL-CCL-GR  
 (2/25/08): Available Logs: HRI, DLL, SDL/DSN, EMI, CBL (3), USIT