

**WOLVERINE OPERATING COMPANY**  
of Utah, LLC

*Energy Exploration in Partnership with the Environment*

February 19, 2007

Ms. Diana Whitney  
Utah Division of Oil, Gas & Mining  
1594 W. N. Temple, suite 1210  
Salt Lake City, UT 84114-5801

RE: Application for Permit to Drill  
Wolverine Federal 17-8  
Covenant Field, Sevier County, UT

Dear Ms. Whitney:

Wolverine Gas & Oil of Utah, LLC is proposing to drill the Wolverine Federal 17-8, which will be located on BLM surface and minerals. The APD has been submitted to the BLM for approval. A copy of the APD is included with this letter along with an original Form 3, *Application for Permit to Drill*.

The Wolverine Federal 17-8 is proposed as a 14,500' Kaibab exploratory test, with a Navajo completion should the Kaibab prove unproductive. The surface location is 2007' FSL and 1610' FWL of Section 17, T23S-R01W. This well will be drilled as a vertical well, although some "bit walk" up structure is anticipated. As a vertical well, the proposed bottom hole location would fall approximately 170' west of the "400' window" allowed under Rule 649-3.2. The exception location is needed because we would prefer to drill this deeper 14,500' Kaibab test as a vertical well, and re-locating the surface location further east is not possible, because of the presence of a county road and a deep ravine associated with Peterson Creek. Utah State Highway 24 is located east of the ravine.

The proposed bottom hole location falls within the Wolverine Federal Unit and Wolverine Gas & Oil owns the mineral lease for the proposed bottom hole location and the mineral leases within a 460' radius of the proposed drilling location and for all offset drilling locations (see attached map).

Water for drilling this well will be secured, as was the case for previous drilling in the field, from Kings Meadow Ranches, LLC, water right #63-2529.

If you have any questions, please contact me.

Sincerely,

  
Edward A. Higuera

Enclosure

**RECEIVED**

**FEB 26 2007**

**DIV. OF OIL, GAS & MINING**

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

FORM 3

AMENDED REPORT   
(highlight changes)

<b>APPLICATION FOR PERMIT TO DRILL</b>			5. MINERAL LEASE NO: <b>UTU 73528</b>	6. SURFACE: <b>Federal</b>
1A. TYPE OF WORK: <b>DRILL</b> <input checked="" type="checkbox"/> <b>REENTER</b> <input type="checkbox"/> <b>DEEPEN</b> <input type="checkbox"/>			7. IF INDIAN, ALLOTTEE OR TRIBE NAME:	
B. TYPE OF WELL: <b>OIL</b> <input checked="" type="checkbox"/> <b>GAS</b> <input type="checkbox"/> OTHER _____ <b>SINGLE ZONE</b> <input type="checkbox"/> <b>MULTIPLE ZONE</b> <input checked="" type="checkbox"/>			8. UNIT or CA AGREEMENT NAME: <b>Wolverine Federal Unit</b>	
2. NAME OF OPERATOR: <b>Wolverine Gas and Oil Company of Utah, LLC</b>			9. WELL NAME and NUMBER: <b>Wolverine Federal 17-8</b>	
3. ADDRESS OF OPERATOR: <b>55 Campau NW</b> CITY <b>Grand Rapids</b> STATE <b>MI</b> ZIP <b>49503-2616</b> PHONE NUMBER: <b>(616) 458-1150</b>			10. FIELD AND POOL, OR WILDCAT: <b>Covenant Field</b> <b>492</b>	
4. LOCATION OF WELL (FOOTAGES) <b>418790X 4294864 38.800682</b> AT SURFACE: <b>2007' FSL, 1610 FWL</b> AT PROPOSED PRODUCING ZONE: <b>2007' FSL, 1610' FWL</b> <b>- 111.935192</b>			11. QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: <b>NESW 17 23S 01W</b>	
14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE: <b>3.2 miles south of Sigurd</b>			12. COUNTY: <b>Sevier</b>	13. STATE: <b>UTAH</b>
15. DISTANCE TO NEAREST PROPERTY OR LEASE LINE (FEET) <b>678'</b>	16. NUMBER OF ACRES IN LEASE: <b>8235.79</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>1200' east of WF 17-3</b>	19. PROPOSED DEPTH: <b>14,500</b>	20. BOND DESCRIPTION: <b>BLM WY3329</b>		
21. ELEVATIONS (SHOW WHETHER DF, RT, GR, ETC.): <b>5792' (est. graded elev.)</b>	22. APPROXIMATE DATE WORK WILL START: <b>6/1/2007</b>	23. ESTIMATED DURATION: <b>90 days</b>		

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		
<b>17.50"</b>	<b>13.375" J-55 68 ppf</b>	<b>1,800</b>	<b>Lead: CBM Lite</b>	<b>350 sx</b>	<b>4.12 10.5 ppg</b>
			<b>Tail: Premium Plus</b>	<b>450 sx</b>	<b>1.19 15.6 ppg</b>
<b>12.25"</b>	<b>9.625" HCP-110 47ppf</b>	<b>10,500</b>	<b>Stg 1: 50/50 Poz</b>	<b>700 sx</b>	<b>1.71 13 ppg</b>
			<b>Stg 2: 50/50 Poz</b>	<b>800 sx</b>	<b>1.21 14.35 ppg</b>
<b>8.5"</b>	<b>4.5" P-110 13.5 ppf</b>	<b>14,500</b>	<b>50/50 Poz</b>	<b>1100 sx</b>	<b>1.47 14.35 ppg</b>
			<b>w/20% silica</b>		

25. **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

**Approved by the  
Utah Division of  
Oil, Gas and Mining**

NAME (PLEASE PRINT) Edward A. Higuera    TITLE manager    DATE 03-01-07

SIGNATURE *Edward A. Higuera*    DATE 2/19/2007    BY *[Signature]*

(This space for State use only)

API NUMBER ASSIGNED: 43-041-30047

FEB 26 2007

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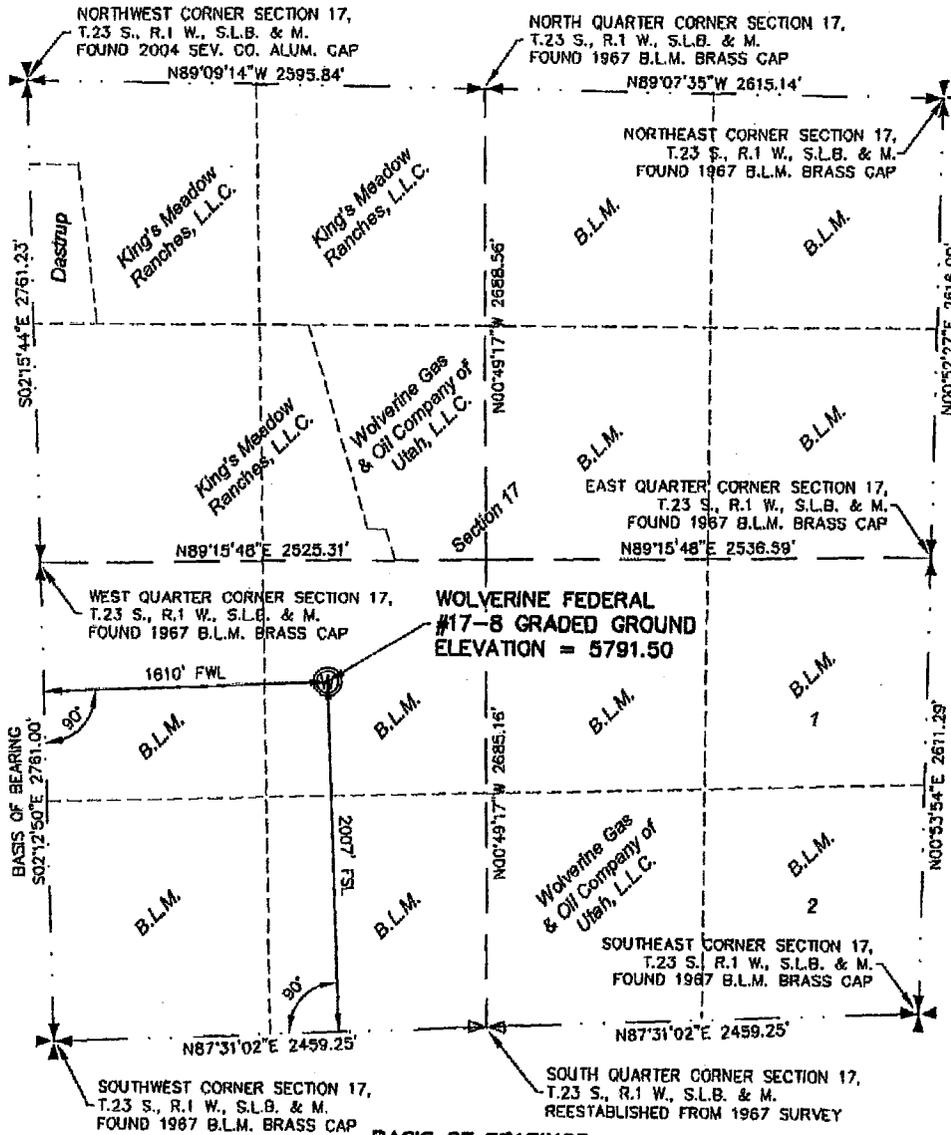
**CONFIDENTIAL**

DIV. OF OIL, GAS & MINING

Federal Approval of this Action is Necessary

(11/2001)    (See Instructions on Reverse Side)

# Section 17, T.23 S., R.1 W., S.L.B. & M.



NORTHWEST CORNER SECTION 17,  
T.23 S., R.1 W., S.L.B. & M.  
FOUND 2004 SEV. CO. ALUM. CAP  
N89°09'14"W 2595.84'

NORTH QUARTER CORNER SECTION 17,  
T.23 S., R.1 W., S.L.B. & M.  
FOUND 1967 B.L.M. BRASS CAP  
N89°07'35"W 2615.14'

NORTHEAST CORNER SECTION 17,  
T.23 S., R.1 W., S.L.B. & M.  
FOUND 1967 B.L.M. BRASS CAP

EAST QUARTER CORNER SECTION 17,  
T.23 S., R.1 W., S.L.B. & M.  
FOUND 1967 B.L.M. BRASS CAP  
N89°15'48"E 2536.59'

WEST QUARTER CORNER SECTION 17,  
T.23 S., R.1 W., S.L.B. & M.  
FOUND 1967 B.L.M. BRASS CAP

**WOLVERINE FEDERAL  
#17-8 GRADED GROUND  
ELEVATION = 5791.50**

SOUTHEAST CORNER SECTION 17,  
T.23 S., R.1 W., S.L.B. & M.  
FOUND 1967 B.L.M. BRASS CAP

SOUTHWEST CORNER SECTION 17,  
T.23 S., R.1 W., S.L.B. & M.  
FOUND 1967 B.L.M. BRASS CAP

SOUTH QUARTER CORNER SECTION 17,  
T.23 S., R.1 W., S.L.B. & M.  
REESTABLISHED FROM 1967 SURVEY

### BASIS OF BEARINGS

BASIS OF BEARING USED WAS N02°12'50"W BETWEEN THE SOUTHWEST CORNER AND THE WEST QUARTER CORNER OF SECTION 17 T.23 S., R.1 W., S.L.B. & M.  
LATITUDE: 38°48'02.5483" (38.800707861) NAD 83  
LONGITUDE: -111°56'09.6417" (-111.936011583) NAD 83

## PROJECT Wolverine Gas & Oil Company of Utah, L.L.C.

WELL LOCATION, LOCATED AS SHOWN IN THE N.E. 1/4 OF THE S.W. 1/4 OF SECTION 17, T.23 S., R.1 W., S.L.B. & M. SEVIER COUNTY, UTAH

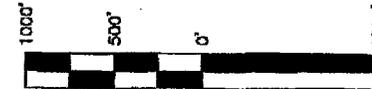
### LEGEND

- = SECTION CORNERS LOCATED
- = QUARTER SECTION CORNERS LOCATED
- = PROPOSED WELL HEAD

NOTE: THE PURPOSE OF THIS SURVEY WAS TO PLAT THE WOLVERINE FEDERAL #17-8 LOCATION, LOCATED IN THE N.E. 1/4 OF THE S.W. 1/4 OF SECTION 17, T.23 S., R.1 W., S.L.B. & M., SEVIER COUNTY, UTAH.

### BASIS OF ELEVATION

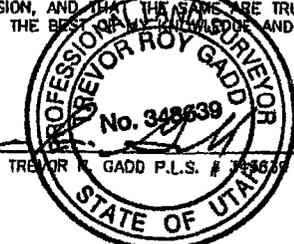
ELEVATION BASED ON U.S.G.S. BENCH MARK T-30 LOCATED IN THE SW 1/4 OF SECTION 17, T.23 S., R.1 W., S.L.B. & M.



SCALE

### CERTIFICATE

THIS IS TO CERTIFY THAT THIS 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.



TREVOR R. GADD P.L.S. # 348639

06/23/06



**Jones & DeMille Engineering**  
1535 South 100 West - Richfield, Utah 84701  
Phone (435) 898-8288  
Fax (435) 898-8288  
www.jonesanddemille.com

Well Location Plat for

Wolverine Gas & Oil Company of Utah, L.L.C.

DESIGNED	SURVEYED	CHECKED	DRAWN	PROJECT NO.	SHEET NO.
	K.D.B.	T.R.G.	T.R.G.	0604-099	1
DATE		DRAWN	SCALE		
08/18/08		WELL_LOC	1"=1000'		

# **WOLVERINE GAS AND OIL COMPANY OF UTAH, LLC**

## **DRILLING PLAN**

### **Wolverine Federal 17-8**

**NE/4 SW/4 Section 17, Township 23 South, Range 1 West, S.L.B.&M.  
Sevier County, Utah**

#### **Plan Summary:**

It is planned to drill this confidential exploratory well as a vertical bore hole. The well will be drilled to a depth of 14,500' to test the Navajo, Kaibab, and Toroweap sands. Well path deviation caused by subsurface geologic irregularities is expected to be the primary drilling concern in this area. No abnormal pressure is anticipated.

The planned location is as follows:

Surface & Bottom-Hole Location: 2007' FSL, 1610' FWL, Section 17, T23S, R1W, S.L.B. & M.

Conductor casing will be set at approximately 80 feet and cemented to surface. A 17-1/2" hole will be drilled to 1800' where 13-3/8" surface casing will be set and cemented to surface. A 12-1/4" hole will be drilled through the Navajo to 10,600' where the well will be logged and 9-5/8" casing will be set and cemented. Then, an 8-1/2" hole will be drilled through the Kaibab and TD in the Toroweap at 14,500'. If significant porosity and hydrocarbon shows are encountered in the Kaibab or Toroweap, 4-1/2" casing will be set and cemented at TD.

Drilling activities at this well are expected to commence as early as June 2007 if regulatory approvals are attained.

**Well Name:** Wolverine Federal 17-8

**Surface Location:** 2007' FSL, 1610' FWL  
 NE/4 SW/4 Section 17, T23S, R01W, S.L.B. & M.  
 Sevier County, Utah

**TD Bottom-Hole Location:** Same as Surface

**Elevations:** 5792' ( Est. Graded Elevation)

**I. Geology:**

Tops of important geologic markers and anticipated water, oil, gas, and mineral content are as follows:

<u>Formation</u>	<u>TVD Interval (KB)</u>	<u>MD Interval (KB)</u>	<u>Contents</u>	<u>Pressure Gradient</u>
Arapien	0' - 5746'	0' - 5746'		
Twin Creek	5746' - 5848'	5746' - 5848'	O/G/W	0.44 psi/ft
Navajo	5848' - 7087'	5848' - 7087'	O/G/W	0.44 psi/ft
Kayenta	7087 - 7201'	7087 - 7201'		
Wingate	7201 - 7811'	7201 - 7811'		
Twin Creek 2	7811 - 8120'	7811 - 8120'	O/G/W	0.44 psi/ft
Navajo 2	8120 - 9520'	8120 - 9520'	O/G/W	0.44 psi/ft
Kayenta 2	9520 - 9634'	9520 - 9634'		
Wingate 2	9634' - 9988'	9634' - 9988'		
Chinle	9988 - 10557'	9988 - 10557'		
Moenkopi	10557 - 13371'	10557 - 13371'		
Kaibab	13371'- 14052'	13371'- 14052'	O/G/W	0.44 psi/ft
Toroweap	14052 - 14424'	14052 - 14424'	O/G/W	0.44 psi/ft
Total Depth	14,500'	14,500'		

**II. Well Control:**

The contracted drilling rig has a 10M BOP system but conditions only require a 5M BOP system. BOPE will be in place and tested as a 5M system prior to drilling out the surface casing shoe. See attached schematic of BOPE.

A. The BOPE will as a minimum include the following:

Wellhead Equipment (5M Min.):

<u>BOPE Item</u>	<u>Flange Size and Rating</u>
Annular Preventer	13-5/8" 5M
Double Rams (5" Pipe - top, Blind - bottom)	13-5/8" 10M
Drilling Spool w/ 2 side outlets (4" Choke Line, 4" Kill Line)	13-5/8" 10M x 13-5/8" 10M
Single Ram (Blind)	13-5/8" 10M
Spacer Spool	13-5/8" 10M x 13-5/8" 10M
Casing Spool (Multi-Bowl)	13-5/8" 10M x 13-5/8" 5M
Casing Head (13-5/8" SOW, w/ two 2-1/16" SSO's)	13-5/8" 5M

Auxiliary Equipment (5M Min.):

<u>BOPE Item</u>
Choke Line with 2 valves (3" minimum)
Kill Line with 2 valves and one check valve (2" Minimum)

2 Chokes with one remotely controlled at a location readily accessible to the driller
Upper and lower kelly cock valves with handles
Safety Valves to fit all drill string connections in use
Inside BOP or float sub
Pressure gauge on choke manifold
Fill-up line above the uppermost preventer
Wear bushing in casing head

- B. **Choke manifold** will be functionally equipped and sized at a minimum as shown on the attached diagram. All chokes will be straight lines, or use tee blocks or be targeted with running tees if there are turns, and all choke lines will be anchored. All valves (except chokes) in the kill line choke manifold and choke line will be full opening and allow straight through flow.
- C. **System accumulator** will have sufficient capacity to open the hydraulically-controlled gate valve and close all rams plus the annular preventer (3 ram system will have added 50 percent safety factor to compensate for any fluid loss in the control system or preventers) and retain a minimum pressure of 200 psi above pre-charge on the closing manifold without use of the closing unit pumps. The fluid reservoir capacity shall be double the usable fluid volume of the accumulator system capacity and the fluid level of the reservoir shall be maintained at the manufacturer's recommendations. The accumulator will have two (2) independent power sources available to close the preventers. Nitrogen bottles may be one of those sources, and if so, will have charge maintained per manufacturer's specifications.
- D. **Accumulator pre-charge pressure test** will be conducted prior to connecting the closing unit to the BOP stack and at least once every 6 months. The accumulator pressure will be corrected if the measured precharge pressure is found to be above or below the maximum or minimum specified limits. Only nitrogen gas will be used to precharge.
- E. **Power for the closing unit pumps** will be available to the unit at all times so that the pumps will automatically start when the closing valve manifold pressure has decreased to the pre-set level.
- F. **Accumulator pump capacity** will be such that, with the accumulator system isolated from service, the pumps will be capable of opening the hydraulically-operated gate valve (if so equipped), plus closing the annular preventer on the smallest size drill pipe to be used within 2 minutes, and retaining a minimum of 200 psi above the specified accumulator pre-charge pressure.
- G. **Locking devices**, either manual (i.e., hand wheels) or automatic, will be installed on the ram type preventers. A valve will be installed in the closing line as close as possible to the annular preventer to act as a locking device. This valve shall be maintained in the open position and shall be closed only when the power source for the accumulator system is inoperative.
- H. **Remote controls** will be readily accessible to the driller and will be capable of both opening and closing all preventers. Master controls shall be at the accumulator and shall be capable of opening and closing all preventers and the choke line valve.
- I. **Well control equipment testing** will be performed using clear water when the equipment is initially installed, whenever any seal subject to test pressure is broken, following related repairs, and as a minimum, every 30-day interval. The tests will apply to all related well control equipment.

Ram type preventers and associated equipment will be isolated and tested to 5000 psi. The annular preventer will be tested to 2500 psi. Pressure shall be maintained for at least 10 minutes or until requirements of test are met, whichever is longer, for all tests. A casing head valve will be open below the test plug during testing of the BOP stack. Valves will be tested from the working pressure side with all down-stream valves open. Kill line valves will be tested with the check valve held open or the ball removed.

Pipe and blind rams will be activated each trip, but not more than once a day. The annular preventers will be functionally operated at least weekly. A pit level drill will be conducted weekly for each crew. All BOPE drills and tests will be recorded in the IADC driller's log.

**III. Casing and Cementing:**

A. Casing Program (all new casing):

Hole Size	Casing Size	Weight	Grade	Connection	Coupling Diameter	Setting Depth
30"	24"		Conductor			80' GL
17.50"	13.375"	68.0	J-55	BTC	14.375"	1800' KB
12.25"	9.625"	47.0	HCP-110	LTC	10.625"	10500' KB
8.50"	4.500"	13.5	P-110	LTC	5.000"	14500' KB

	Surface	Production 1	Production 2
Casing O. D. (in)	13.375	9.625	4.500
Casing Grade	J-55	HCP-110	P-110
Weight of Pipe (lbs/ft)	68.0	47.0	13.5
Connection	BTC	LTC	LTC
Top Setting Depth - MD (ft)	0	0	0
Top Setting Depth - TVD (ft)	0	0	0
Bottom Setting Depth - MD (ft)	1800	10600	14500
Bottom Setting Depth - TVD (ft)	1800	10600	14500
Maximum Mud Weight - Inside (ppg)	10	10.5	10.5
Maximum Mud Weight - Outside (ppg)	10	10.5	10.5
Design Cement Top - TVD (ft)	0	5200	10000
Design Cement Top - MD (ft)	0	5200	10000
Max. Hydrostatic Inside w/ Dry Outside (psi)	936	5788	7917
Casing Burst Rating (psi)	3450	9440	12410
<b>Burst Safety Factor (1.10 Minimum)</b>	<b>3.69</b>	<b>1.63</b>	<b>1.35</b>
Max. Hydrostatic Outside w/ Dry Inside (psi)	936	5788	7917
Collapse Rating	1950	7100	10670
<b>Collapse Safety Factor (1.125 Minimum)</b>	<b>2.08</b>	<b>1.23</b>	<b>1.35</b>
Casing Weight in Air 1000 lbs	122.4	498.2	195.8
Body Yield 1000 lbs	1069	1453	422
Joint Strength 1000 lbs	1140	1213	338
<b>Tension Safety Factor (1.70 Minimum)</b>	<b>9.31</b>	<b>2.43</b>	<b>1.73</b>

Casing with same or greater burst, collapse, and tension rating may be substituted for any of the planned casing sizes depending on availability and actual conditions.

**B. Cementing Program**

<b>Casing Size</b>	<b>Cement Slurry</b>	<b>Quantity (sks)</b>	<b>Density (ppg)</b>	<b>Yield (ft<sup>3</sup>/sk)</b>
13.375"	Lead: CBM Lite	350	10.5	4.12
13.375"	Tail: Premium Plus	450	15.6	1.19
9.625"	Stg 1: 50:50 POZ	700	13.0	1.71
	Stg 2: 50:50 POZ	800	14.35	1.21
4.500"	Tail: 50:50 POZ, w/20% silica, retarder	1100	14.35	1.47

- Surface:** 13-3/8" surface casing will be cemented from setting depth (1800') to surface and topped out with premium cement if necessary. Hardware will include a guide shoe, float collar, top plug, and a minimum of one centralizer per joint on the bottom three (3) casing joints. Water or other preflush fluid pumped ahead of the slurry will separate cement from the drilling fluids.
- Production 1:** 9-5/8" production casing will be cemented from setting depth (10600') to 5000' (at least 500' above the Navajo top). A minimum of 20 percent silica will be added to the cement slurry if bottom-hole temperature exceeds 230 °F. Slurry volume will be based on calipered hole size plus 25% excess. Hardware will include a guide shoe, float collar, top plug, and centralizers on bottom and as needed across any pay zones. Water and preflush fluid pumped ahead of the slurry will separate cement from the drilling fluids.
- Production 2:** 4.5" production casing will be cemented in one stage from setting depth (14500') to 10000' (at least 500' into 9-5/8" casing). A minimum of 20 percent silica will be added to the cement slurry if bottom-hole temperature exceeds 230 °F. Slurry volume will be based on calipered hole size plus 25% excess. Hardware will include a guide shoe, float collar, top plug, and centralizers as needed across any pay zones. Water and preflush fluid pumped ahead of the slurry will separate cement from the drilling fluids.
- Other:**
- The BLM will be notified at least twenty-four hours prior to running and cementing the surface and production casing strings.
  - Actual cement slurries for all casing will be based on final service company recommendations.
  - The size, weight, grade, type of thread, number of joints, and footage of all casing run will be recorded in the driller's log. The amount and type of all cement pumped will be recorded in the driller's log.
  - Adequate time will be allowed before drilling out for the cement at the casing shoe to achieve a minimum 500-psi compressive strength.
  - All casing strings will be tested to 1500 psi before drilling out and if pressure declines by more than 10 percent in 30 minutes, corrective action will be taken.
  - Before drilling more than 20 feet of new hole below each casing string, a pressure integrity test of the casing shoe will be performed to a minimum of the mud weight equivalent anticipated to control the pore pressure to the next casing depth or at total depth of the well.

**IV. Mud Program:**

<u>Depth</u>	<u>Mud Weight (ppg)</u>	<u>Mud Type</u>	<u>Viscosity</u>	<u>Fluid Loss</u>
0 – 1800'	8.4 – 9.2	Fresh Water	26 - 50	N/C to 12 cc
1800' – 10600'	9.2 – 10.5	Salt Mud	36 - 50	N/C to 8 cc
10600' – 14500'	9.0 – 10.5	Salt Mud	36 - 42	8 – 10 cc

- A. After mudding up, slow pump rates will be taken daily and recorded in the driller's log.
- B. Visual mud monitoring equipment will be in place to detect volume changes indicating loss or gain of circulating fluid volume.
- C. Abnormal pressures are not anticipated. In the event such pressures are to be anticipated, electronic/mechanical mud monitoring equipment will be in place and include as a minimum; pit volume totalizer (PVT); stroke counter; and flow sensor.
- D. A mud test will be performed every 24 hours after mudding up to determine, as applicable: density, viscosity, gel strength, filtrate, and pH.
- E. The 10M BOPE system is not required for conditions on this well and use of the trip tank is not anticipated.
- F. Gas detecting equipment will be installed in the mud return system, and hydrocarbon gas shall be monitored for pore pressure changes. The presence of Hydrogen Sulfide gas is not expected.
- G. The need to vent combustible or noncombustible gas is not expected. If needed, a flare system designed to gather and burn all gas will be available. The flare line discharge will be located more than 100 feet from the well head and it will be positioned downwind of the prevailing wind direction. The flare line will have straight lines unless turns are targeted with running tees and it will be anchored. The flare system will have an effective method for ignition.
- H. Abnormal pressure is not expected. If abnormal pressure is to be anticipated, a mud-gas separator (gas buster) will be installed and operable beginning at a point at least 500 feet above any anticipated hydrocarbon zone of interest.

**V. Evaluation:**

- A. Mud Log: A mud logging unit will be in operation from a depth of approximately 1800 feet to TD. Samples will be caught, cleaned, bagged, and marked as required.
- B. Drill Stem Tests: No DST's are expected.
- C. Coring: No whole coring is planned. Rotary side-wall cores may be taken at select intervals in conjunction with open-hole logging operations.
- D. Wireline Logs: Wireline logs will be run as hole conditions allow from total depth to surface casing to assist in determining lithology and potential for hydrocarbon recovery. The logging tools will at a minimum survey resistivity, gamma radiation, and sonic velocity.

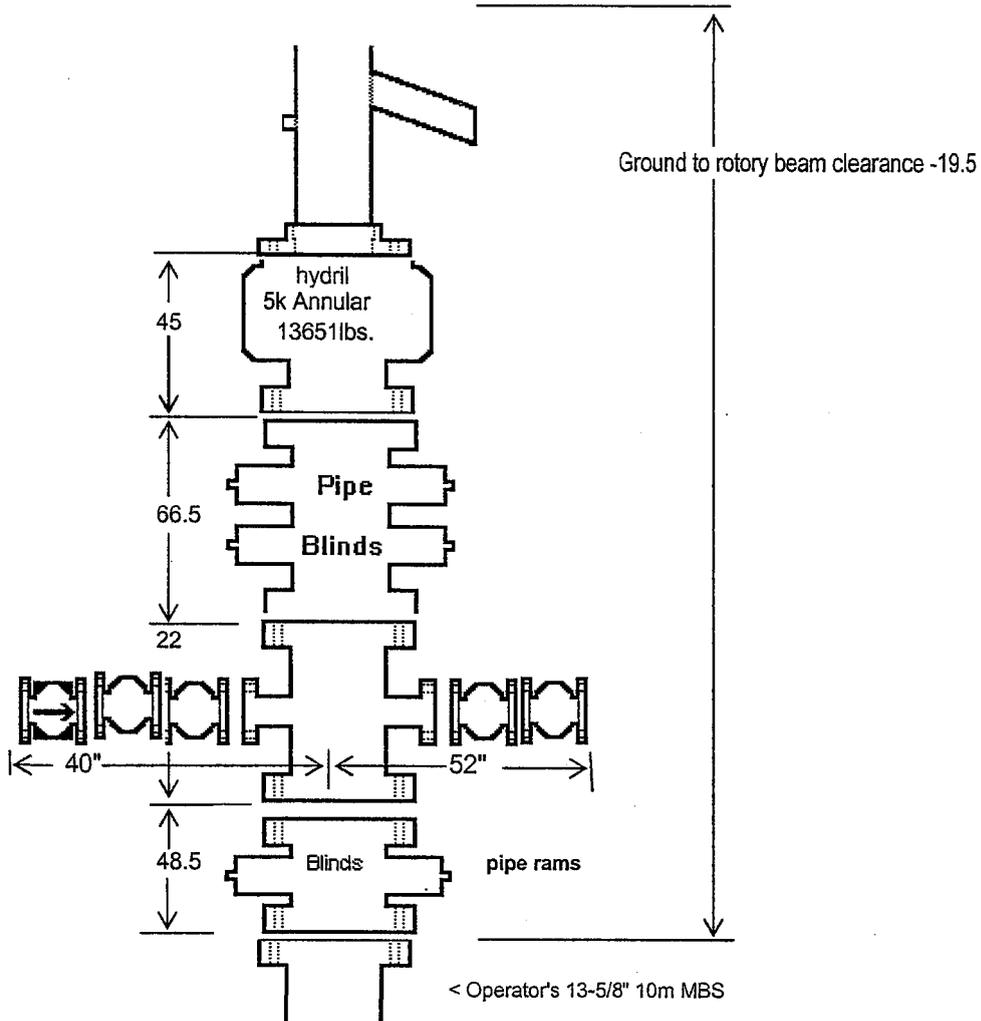
**VI. Expected Bottom-Hole Pressure and Abnormal Conditions:**

- A. Hydrogen Sulfide: Hydrogen Sulfide (H<sub>2</sub>S) gas is not expected in the geologic formations to be penetrated by this well.

- B. Pressure: No abnormally pressured zones are expected in this well. The pressure gradient for all potentially productive formations is expected to be approximately 0.44 psi/ft.
- C. Temperature: No abnormally high temperatures are expected. Bottom-hole temperature is expected to be approximately 290 °F.

# WOLVERINE FEDERAL 17-8

13 5/8" 10M Blowout Preventer Stack Arrangement  
 Operator: Wolverine Gas & Oil Company of Utah, LLC  
 Contractor: SST Rig # 68



Item	Manufacturer	Type	Serial#	Height (in)	Weight (lbs)	
Annular	shaffer	bolted cover		45.0	13,651	
Double ram	Shaffer	SL		66.5	25,365	
Mud cross		4" 10M		24.0	2,650	in >ft
Single ram	Shaffer	SL		48.5	15,295	15.3
total				184.0	56,961	

## SURFACE USE PLAN

### CONDITIONS OF APPROVAL

#### *Attachment for Permit to Drill*

**Name of Operator:** Wolverine Gas and Oil Company of Utah,  
**Address:** 55 Campau NW  
Grand Rapids, Michigan, 49503-2616  
**Well Location:** **Wolverine Federal 17-8**  
2,007' FSL & 1,610' FWL, NE/4 SW/4,  
Section 17, T23S, R1W, SLB&M  
Sevier County, Utah

**State and Fee surface use are not required for construction and drilling of the referenced well, Federal surface use is being requested with this application through the BLM – Richfield Field Office.**

**The dirt contractor will be provided with an approved copy of the surface use plan of operations before initiating construction.**

A Federal onsite inspection was conducted on Thursday, September 7, 2006 with the following individuals present:

Charlie Irons – Wolverine Gas and Oil Company of Utah, LLC  
Edward A. Higuera - Wolverine Gas and Oil Company of Utah, LLC.  
Darin Robinson - Jones & DeMille Engineering  
Jean Sinclear - Buys & Associates  
Rod Lee - BLM  
Michael Jackson – BLM Geologist  
Glen Nebeker - BLM Geologist and Team Leader  
Wayne Wetzels – BLM Associate Field Manager  
Tim Finger – BLM Outdoor Recreation Planner  
Larry Greenwood - BLM Biologist  
Mark Rickenbach - Road Supervisor, Sevier County Road Commission

1. Existing Roads:

- a. The proposed well site is located approximately 3.20 miles southeast of Sigurd, Utah and 3.7 miles east of Venice, Utah.
- b. From Sigurd, Utah travel southeast along SR-24 under Utah Department of Transportation (UDOT) maintenance approximately 3.75 miles to an existing bladed road surface under Sevier County Road Department maintenance on the west side of the road. Travel along the existing county road in a northwesterly direction approximately 300' to the proposed wellsite.
- c. Directions to the proposed well site can be seen on the location map of Exhibit C.
- d. The proposed access road will encroach SR-24 under UDOT maintenance. An encroachment application will be submitted to UDOT and approved prior to upgrade and use of the existing encroachment. No upgrades to the State Road system are proposed at this time.

- e. Proposed access will require upgrade of the existing Sevier County Road Department maintained bladed surface. An encroachment permit will also be secured from Sevier County prior to an upgrade of the existing surface.
- f. All existing roads will be maintained and kept in good repair during all phases of operation.
- g. Vehicle operators will obey posted speed restrictions and observe safe speeds commensurate with road and weather conditions.
- h. Improvements are planned to the existing access road from the UDOT maintained SR-24 highway surface to the proposed wellsite along the existing county road.
- i. An off-lease Federal right-of-way is not anticipated for the access corridor because the corridor is located within the existing lease boundary.

2. Planned Access Roads:

- a. From the Sevier County Road Department maintained bladed surface an access road and an egress road are proposed to the proposed well site. The access consists of entirely new construction for the access and egress road, neither of which crosses any significant drainage. A road alignment plan has been included within this package for the upgraded access and new access road lengths.
- b. The access road will be constructed with the minimum surface disturbance necessary to facilitate safe and effective travel during drilling operations. The road will then be further upgraded to the included plan as necessary for longer term year-round access during continued production operations.
- c. The proposed new access and egress roads will consist of a 12' travel surface with no truck turnouts. The ROW for the proposed road will accommodate cuts and fills where needed, as such, the total ROW width will vary as shown within Exhibit "B" with a 5' buffer area on each side of the proposed disturbance for the road segments.
- d. State or fee surface use approval is not necessary for the road construction.
- e. A maximum grade of 10% is anticipated along the road length. An acceptable grade will be maintained throughout the project with no major cuts and fills required to access the well.
- f. The existing culvert along the county road leaving the UDOT surface will be replaced with an 18" culvert that is 56' or greater in length. Drainage structures have been incorporated into the road design package that has been attached to this application. Energy dissipating structures and silt fences will be utilized to minimize erosion that may result from the drainage structures.
- g. No surfacing material will come from Federal lands.
- h. No gates or cattle guards are anticipated at this time.
- i. Surface disturbance and vehicular travel will be limited to the approved location access road.
- j. The operator will be responsible for all maintenance of the access road including drainage structures during drilling and/or operation of the well.

3. Location of Existing Wells:

a. Following is a list of existing wells within a one mile radius of the proposed well:

i. Water wells	One (culinary supply well for Covenant Field, Section 20 T23S-R1W, Sevier County, UT)
ii. Injection wells	None
iii. Disposal wells	None
iv. Drilling wells	None
v. Temp. shut-in wells	None
vi. Producing wells	10 producing wells in the Covenant Field
vii. Abandon wells	One (Wolverine Federal #8-1)

4. Location of Production Facilities:

- a. All permanent structures will be painted to match the Covenant Facilities, which is painted non-reflective Carlsbad Cavern Tan, unless otherwise directed by the AO. All facilities will be painted within six months of installation. Facilities requiring compliance with the Occupational Safety and Health Act (OSHA) may be excluded.
- b. A temporary testing facility may be constructed on this location and if so, it will be surrounded by a dike of sufficient capacity to contain the storage capacity of the largest tank. All loading lines and valves will be placed inside the berm surrounding the tank battery location.
- c. Any necessary pits will be properly fenced to prevent any wildlife and livestock entry.
- d. All access roads will be upgraded and maintained as necessary to prevent erosion and accommodate year-round traffic. The road will be maintained in a safe useable condition.
- e. The site will require periodic maintenance to ensure that drainages are kept open and free of debris, ice, and snow, and that surfaces are properly treated to reduce erosion, fugitive dust, and impacts to adjacent areas.
- f. A pipeline and possible treater / load-out area will be addressed in a forthcoming EA.

5. Location and Type of Water Supply:

- a. Wolverine intends to purchase water from Kings Meadow Ranch, which was the supply for the other Covenant wells.
- b. Water will be trucked to the well site from the hydrant located at the Covenant CPF utilizing approved access roads, or a temporary above-ground pipe would be laid from the Kings Meadow Ranch property to the proposed well paid.
- c. No water well is proposed with this application.
- d. Should additional water sources be pursued they will be properly permitted through the State of Utah – Division of Water Rights. Additionally, the BLM and UDOGM will be notified of any changes in water supply.

6. Source of Construction Material:

- a. No construction materials will be removed from Federal lands.
- b. If any gravel is used, it will be obtained from a state approved gravel pit.

7. Methods of Handling Waste Disposal:

- a. All wastes associated with this application will be contained and disposed of utilizing approved facilities.
- b. Drill cuttings will be contained and buried on site.
- c. The reserve pit will be located inboard of the location and near the southwest edge of the pad.
- d. The reserve pit will be constructed so as not to leak, break, or allow any discharge.
- e. The reserve pit will be lined with 12 mil minimum thickness plastic nylon reinforced liner material. The liner will overlay a felt liner pad only if rock is encountered during excavation. The pit liner will overlap the pit walls and be covered with dirt and/or rocks to hold it in place. No trash, scrap pipe, etc. that could puncture the liner will be disposed of in the pit. Pit walls will be sloped no greater than 2:1. A minimum 2-foot freeboard will be maintained in the pit at all times during the drilling and completion operation.
- f. The reserve pit has been located in cut material. Three sides of the reserve pit will be fenced before drilling starts. The fourth side will be fenced as soon as drilling is completed, and shall remain until the pit is dry. After the reserve pit has dried, all areas not needed for production will be rehabilitated.
- g. No chemicals subject to reporting under SARA Title III (hazardous materials) in an amount greater than 10,000 pounds will be used, produced, stored, transported, or disposed of annually in association with the drilling, testing, or completion of the well. Furthermore, no extremely hazardous substances, as defined in 40 CFR 355, in threshold planning quantities, will be used, produced, stored, transported, or disposed of in association with the drilling, testing, or completion of the well.
- h. Trash will be contained in a trash cage and hauled away to an approved disposal site as necessary but no later than at the completion of drilling operations. The contents of the trash container will be hauled off periodically to the approved Sevier County Landfill near Sigurd, Utah.
- i. Produced fluids from the well other than water will be produced into a test tank until such time as construction of production facilities is completed. Any spills of oil, gas, salt water or other produced fluids will be cleaned up and removed.
- j. Any salts and/or chemicals, which are an integral part of the drilling system, will be disposed of in the same manner as the drilling fluid.
- k. Sanitary facilities will be on site at all times during operations. Sewage will be placed in a portable chemical toilet and the toilet replaced periodically utilizing a licensed contractor to transport the portable chemical toilet by truck so that its contents can be delivered to the

Salina Wastewater Treatment Facility in accordance with state and county regulations.

8. Ancillary Facilities:

- a. Garbage Containers and Portable Toilets are the only ancillary facilities proposed in this application.

9. Well Site Layout: (See Exhibit B)

- a. The well will be properly identified in accordance with BLM and state regulations.
- b. Access to the well pad will be from the southeast.
- c. The pad and road designs are consistent with BLM specifications.
- d. A pre-construction meeting with responsible company representative, contractors and the BLM will be conducted at the project site prior to commencement of surface-disturbing activities. The pad and road will be construction-staked prior to this meeting.
- e. All surface disturbing activities will be supervised by a qualified, responsible company representative who is aware of the terms and conditions of the APD and specifications in the approved plans.
- f. All cut and fill slopes will be such that stability can be maintained for the life of the activity.
- g. Diversion ditches will be constructed as shown around the well site to prevent surface waters from entering the well site area.
- h. The site surface will be graded to drain away from the pit to avoid pit spillage during large storm events.
- i. The stockpiled topsoil (first 6 inches or maximum available) will be stored in a windrow on the uphill side of the location to prevent any possible contamination. All topsoil will be stockpiled for reclamation in such a way as to prevent soil loss and contamination.
- j. Pits will remain fenced until site cleanup.
- k. Water spraying may be implemented if necessary to minimize the amount of fugitive dust.

10. Plans for Restoration of the Surface:

- a. Site reclamation for a producing well will be accomplished for portions of the site not required for the continued operation of the well.
- b. The Operator will control noxious weeds along access road use authorizations, well sites, or other applicable facilities by spraying or mechanical removal. A list of noxious weeds may be obtained from the BLM or the appropriate County Extension Office.
- c. Upon well completion, any hydrocarbons in the pit shall be removed in accordance with BLM and state regulations. Once the reserve pit is dry, the plastic nylon reinforced liner shall be torn and perforated before backfilling of the reserve pit. The reserve pit and that portion of the location not needed for production facilities/operations will be recontoured to

the approximate natural contours.

- d. The cut and fill slopes and all other disturbed areas not needed for the production operation will be top soiled and re-vegetated. The stockpiled topsoil will be evenly distributed over the disturbed area.
- e. Prior to reseeding the site, all disturbed areas, including the access road, will be scarified and left with a rough surface. The site will then be seeded and/or planted as prescribed by the BLM.

11. Surface and Mineral Ownership:

- a. Surface Ownership -- United States of America under the management of the BLM -- Richfield Field Office, 150 East 900 North, Richfield, Utah 84701; 435-896-1500.
- b. Mineral Ownership -- United States of America under the management of the BLM -- Richfield Field Office, 150 East 900 North, Richfield, Utah 84701; 435-896-1500.

12. Other Information:

- a. Western Land Services has conducted a Class III archeological survey. A copy of the report has been submitted under separate cover to the appropriate agencies by Western Land Services.
- b. Buys & Associates, Inc. will conduct a T&E survey and prepare an EA for the proposed well site. A copy of the T&E report and EA will be submitted under separate cover to the appropriate agencies by Buys & Associates, Inc.
- c. Additional information:
  - a. No drainage crossings that require additional State or Federal approval are being crossed.
  - b. No raptor nests are known to exist within one mile of the proposed wellsite.
  - c. A paleontological clearance is not required since suitable fossil-bearing surface formations do not exist within the project area.

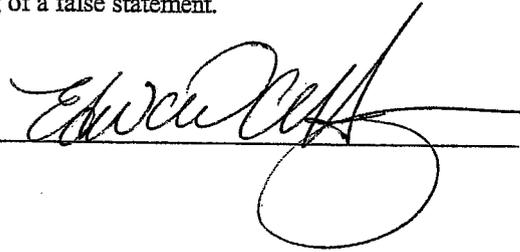
13. Operator's Representative and Certification

<u>Title</u>	<u>Name</u>	<u>Office Phone</u>
Company Representative (Richfield)	Charlie Irons	1-435-896-1943
Company Representative (Grand Rapids)	Edward Higuera	1-616-458-1150
Agent for Wolverine	Don Hamilton	1-435-719-2018

Certification:

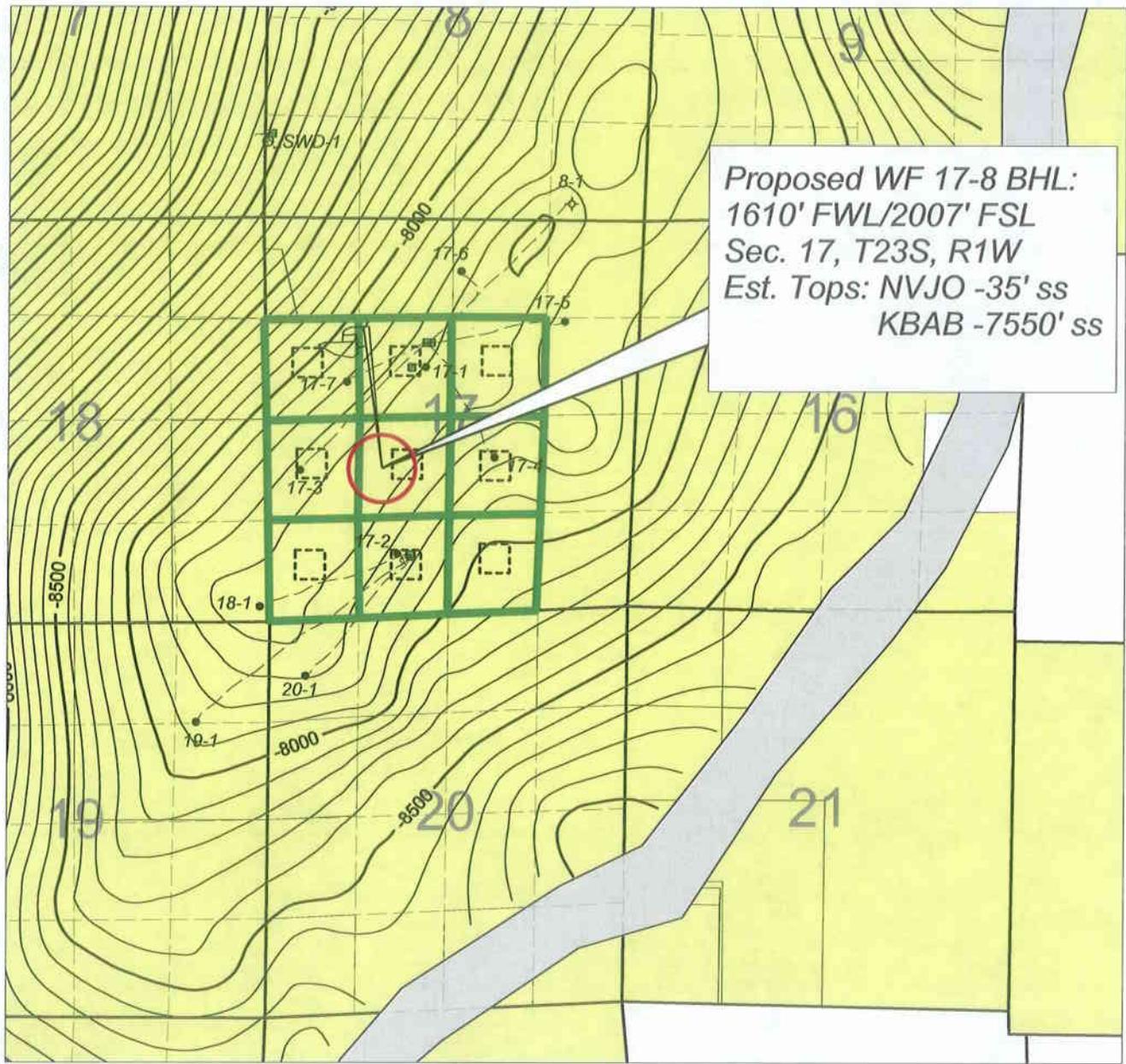
I hereby certify that I, or persons under my direct supervision, have inspected the proposed drill site and access route; that I am familiar with the conditions which currently exist; that the statements made in this APD package are, to the best of my knowledge, true and correct; and that the work associated with the operations proposed herein will be performed by Wolverine Operating Company of Utah, LLC and its contractors and subcontractors in conformity with this APD package and the terms and conditions under which it is approved. I also certify responsibility for the operations conducted on that portion of the leased lands associated with this application, with bond coverage being provided under Wolverine's pending existing BLM Bond. This statement is subject to the provisions of 18 U.S.C. 1001 for the filing of a false statement.

Signature: \_\_\_\_\_



Date: \_\_\_\_\_

12-13-06

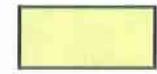


Proposed WF 17-8 BHL:  
 1610' FWL/2007' FSL  
 Sec. 17, T23S, R1W  
 Est. Tops: NVJO -35' ss  
 KBAB -7550' ss

 460 ft. Radius

 40-acre unit

 R649-3-2 Window

 Wolverine Lease

0.2500 0 0.2500 0.5000 0.7500 mi



	<p>Wolverine Gas &amp; Oil Company of Utah, LLC        (Operator)  <i>Energy Exploration in Partnership with the Environment</i>        ONE RIVERFRONT PLAZA        35 CAMPAN, N.W.        GRAND RAPIDS, MI 49503-2016        (616) 458-1150</p>
<p>Proposed Wolverine Federal 17-8 Well        Mapped on the Kaibab Subsea Structure        CI 100 ft.        Section 17, T23S, R1W        Sevier County, Utah</p>	
<p>Date: 11 Dec 2006</p>	<p>gmp: ml WF 17-8 proposed location</p>

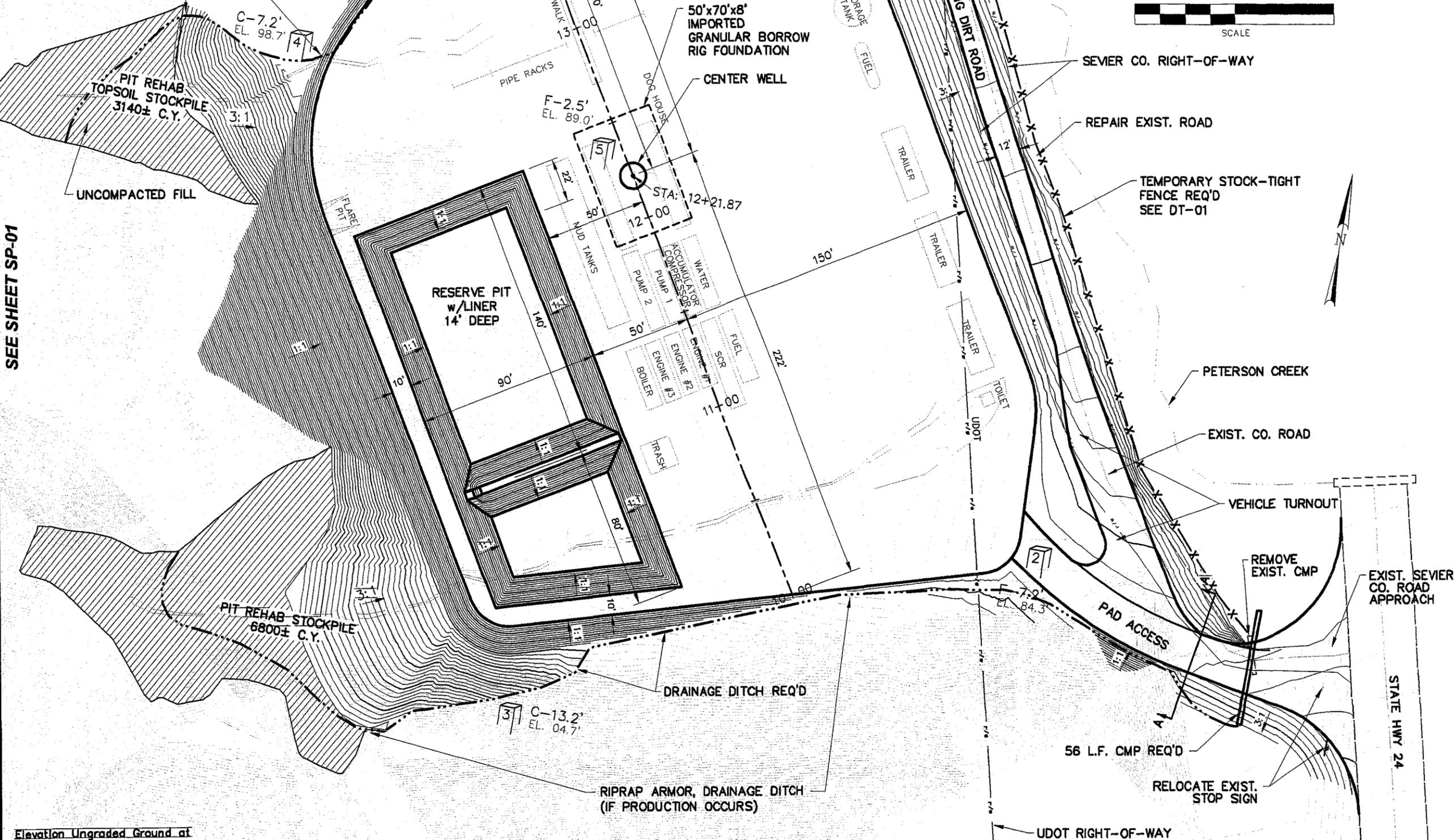
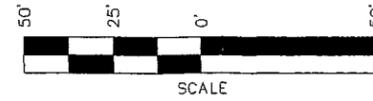


RIPRAP ARMOR, DRAINAGE DITCH STEEP SECTION (IF PRODUCTION OCCURS)

DRAINAGE DITCH REQ'D

**WOLVERINE GAS AND OIL COMPANY OF UTAH, LLC.**

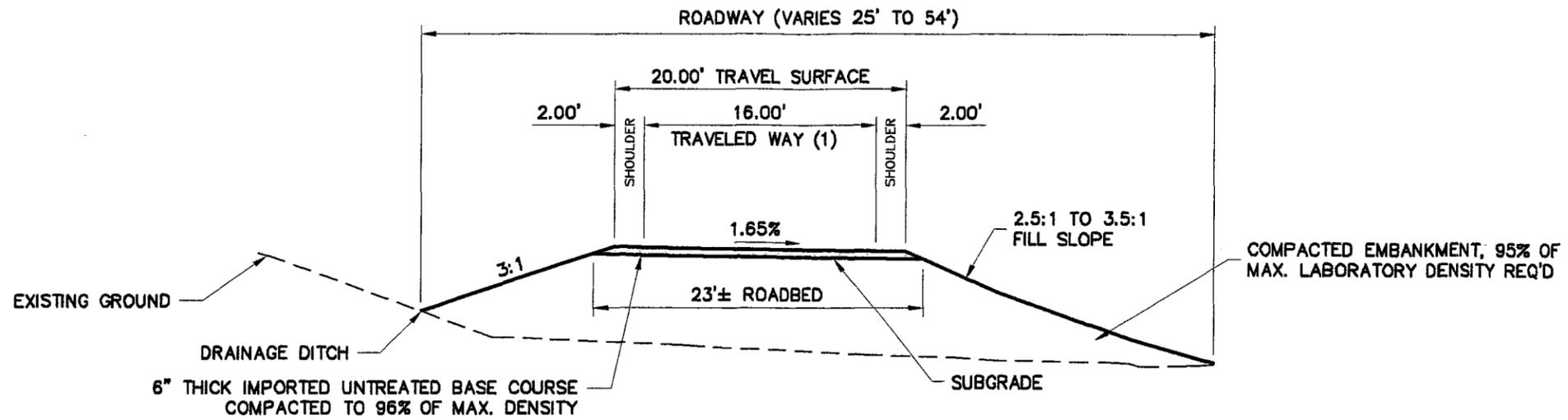
LOCATION LAYOUT FOR  
WOLVERINE FEDERAL #17-8  
SECTION 17, T.23 S., R.1 W., S.L.B.& M.



SEE SHEET SP-01

Elevation Ungraded Ground at  
FEDERAL 17-8 = 5789  
Elevation Graded Ground at  
FEDERAL 17-8 = 5791.50

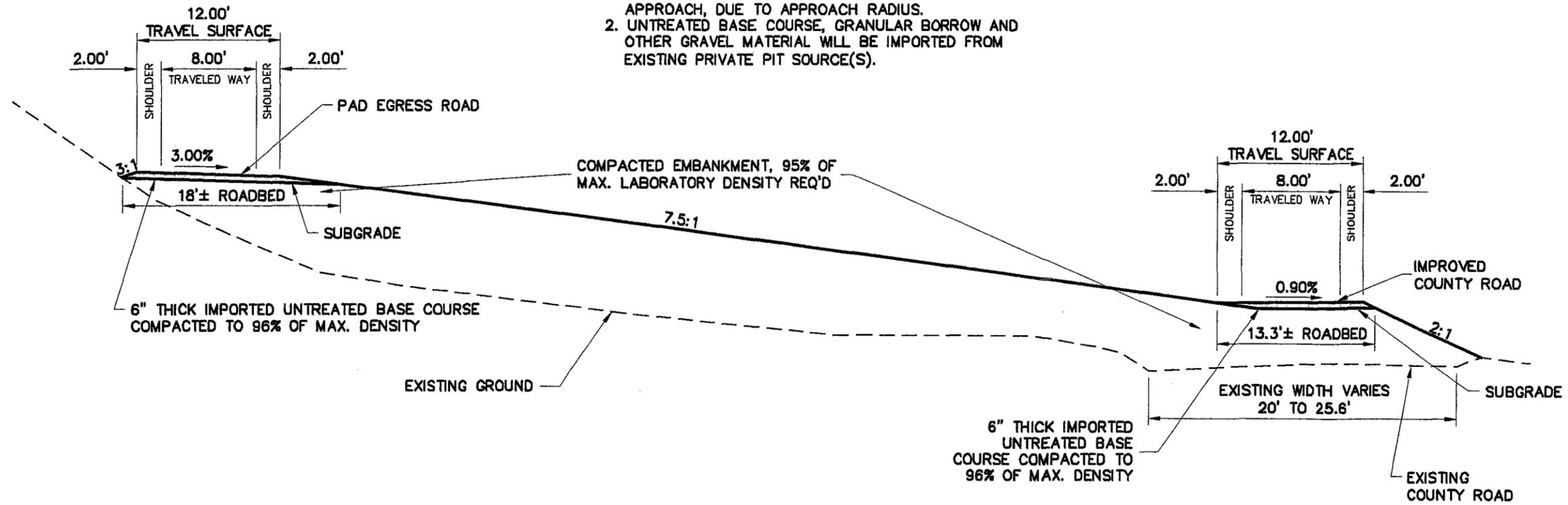
<p>Jones &amp; DeMille Engineering 1514 South 100 West, Provo, Utah 84710 Phone (435) 896-2266 Fax (435) 896-6226 www.jonesandmille.com</p>		<p>REVISIONS</p> <table border="1"> <tr> <th>NO.</th> <th>DATE</th> <th>DESIGN</th> <th>REV. BY</th> <th>REASON</th> </tr> <tr> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> </tr> </table>	NO.	DATE	DESIGN	REV. BY	REASON						<p>2/5/2007 LAST UPDATE:</p>
NO.	DATE	DESIGN	REV. BY	REASON									
<p>Wolverine Gas &amp; Oil Co. of Utah LLC FEDERAL 17-8</p>		<p>REVIEW</p> <table border="1"> <tr> <th>NO.</th> <th>DATE</th> <th>BY</th> </tr> <tr> <td> </td> <td> </td> <td> </td> </tr> </table>	NO.	DATE	BY				<p>2/5/2007 LAST UPDATE:</p>				
NO.	DATE	BY											
<p>WELL LOCATION LAYOUT</p>		<p>DATE: 08-06 DRAWN: L.G. CHECK: L.G.</p>	<p>2/5/2007 LAST UPDATE:</p>										
<p>PROJECT NUMBER: 0604-099</p>		<p>DATE:      </p>	<p>2/5/2007 LAST UPDATE:</p>										
<p>SEVIER COUNTY</p>		<p>DATE:      </p>	<p>2/5/2007 LAST UPDATE:</p>										
<p>SHEET NO. SP-02</p>		<p>DATE:      </p>	<p>2/5/2007 LAST UPDATE:</p>										



**PAD ACCESS (FROM HIGHWAY)**

**NOTES:**

1. TRAVELED WAY WIDTH VARIES AT HIGHWAY 24 APPROACH, DUE TO APPROACH RADIUS.
2. UNTREATED BASE COURSE, GRANULAR BORROW AND OTHER GRAVEL MATERIAL WILL BE IMPORTED FROM EXISTING PRIVATE PIT SOURCE(S).

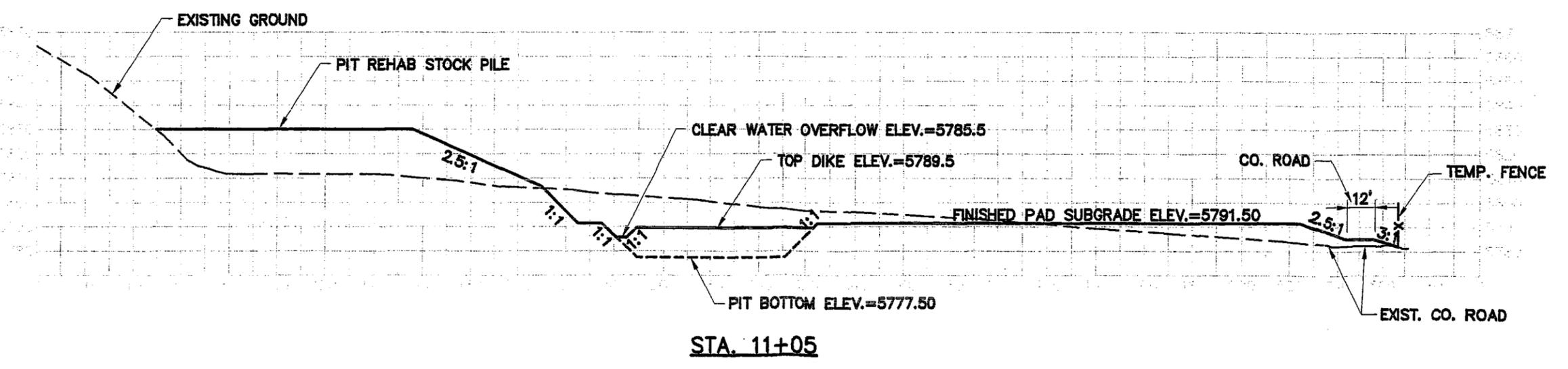
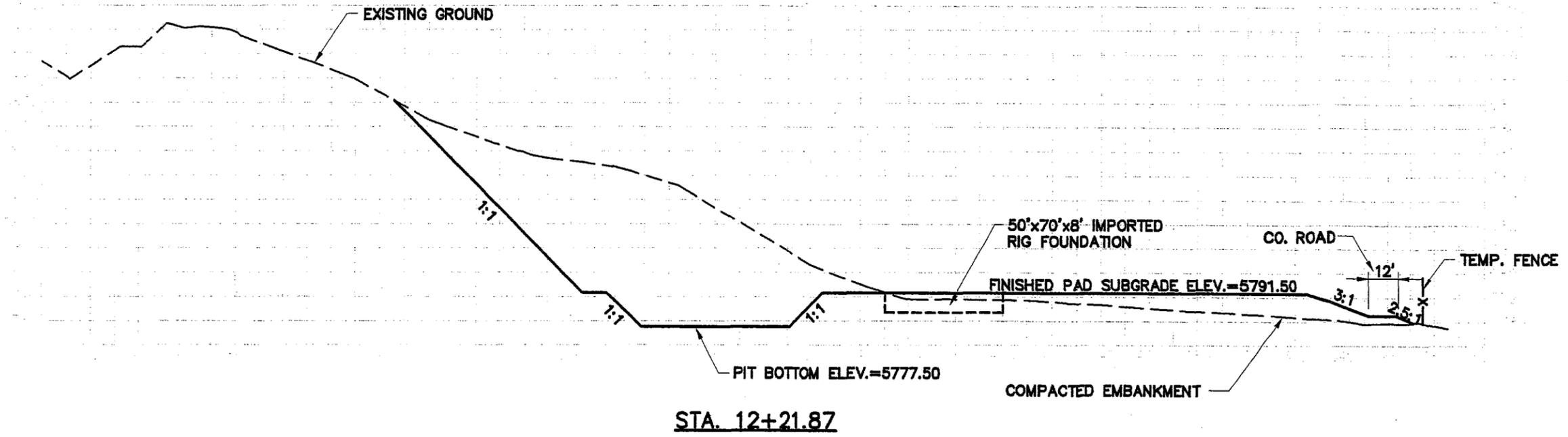


**PAD SECONDARY ACCESS ROAD & IMPROVED COUNTY ROAD**

Jones & DeMille Engineering 133 South 100 West, P.O. Box 44701 Provo, UT 84602-0471 Phone: (801) 734-1234 www.jonesandmille.com		DWG NAME: APD S-T SET: WOLVERINE FEDERAL TYPICAL DWG CREATED: 8/16/2006 LAST UPDATE: 2/6/2007
DESIGN: L.G. DRAWN: L.G. CHECKED: L.G. QUANT: L.G.	DATE: 08-06 CHECK: L.G. CHECK: L.G. CHECK: L.G.	REVIEW: L.G. DATE: 08-06 BY: L.G.
APPROVAL RECORD: _____ APPROVAL: _____ DATE: _____	PROJECT DESIGN/ENGINEER: _____ PROJECT DESIGN/ENGINEER: _____ DATE: _____	ORIGINAL SUBMISSION FOR AUTHORIZATION: _____ DESIGN MARKS REQUESTED BY: _____ REV. NO. DATE: _____ REV. NO. DATE: _____
Wolverine Gas & Oil Co. of Utah LLC FEDERAL 17-8 TYPICAL SECTIONS PROJECT NUMBER: 0604-099	SEVIER COUNTY SHEET NO. TS-01	SHEET NO. TS-01

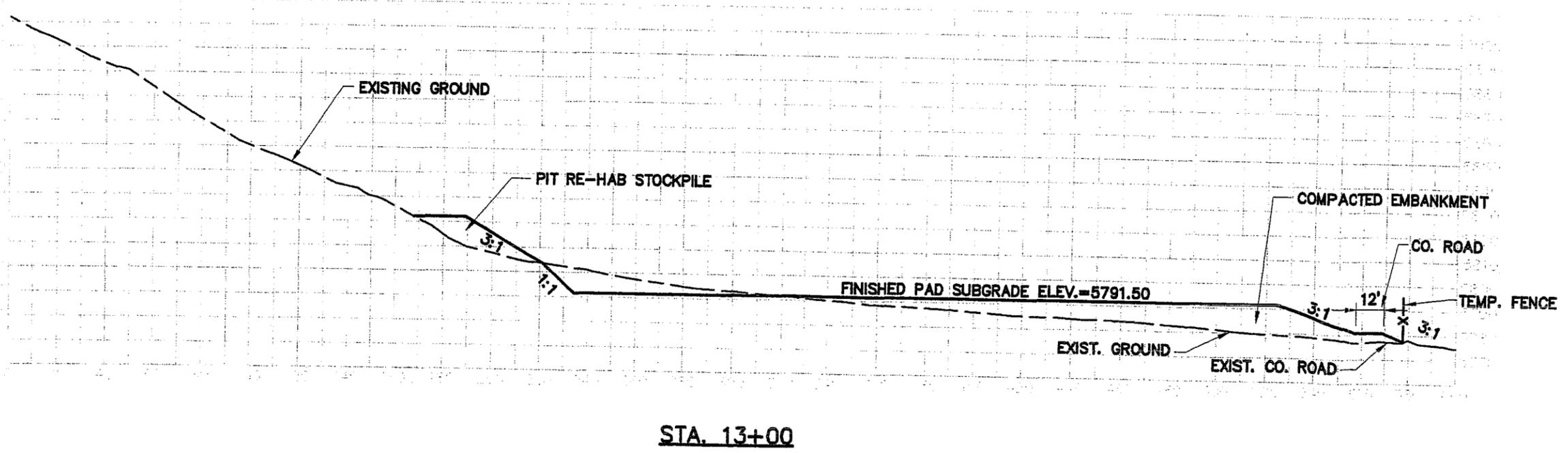
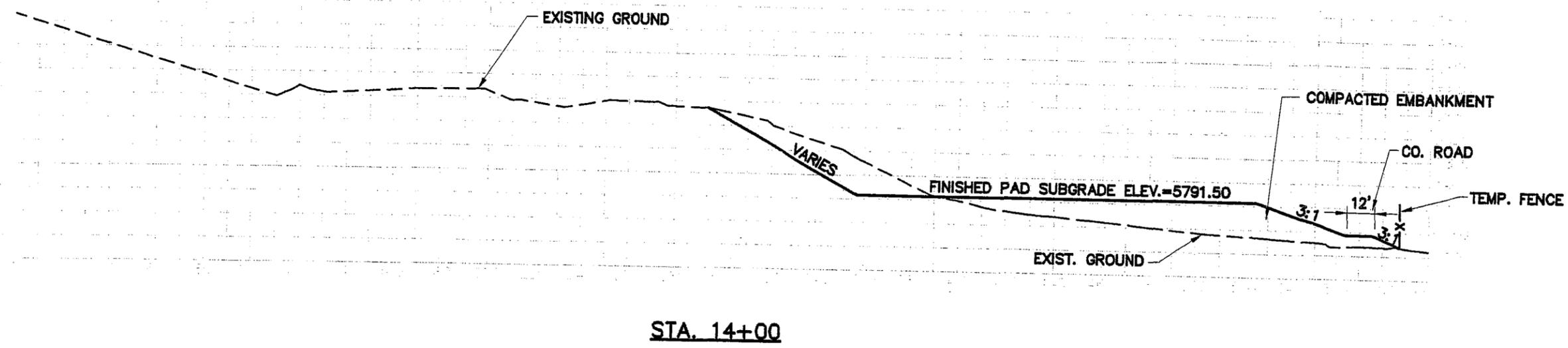
WOLVERINE GAS AND OIL COMPANY OF UTAH, LLC.

TYPICAL CROSS SECTIONS FOR  
WOLVERINE FEDERAL #17-8  
SECTION 17, T.23 S., R.1 W., S.L.B.& M.



Jones & DeMille Engineering 1335 S. 100 West, Suite 100, P.O. Box 100 Provo, UT 84601 Phone: (801) 891-2000 Fax: (801) 891-2000 www.jonesanddelle.com		DESIGNER: L.G. DB-06 DRAWN: L.G. QUANT:	CHECKS: [ ] CHECK: [ ] CHECK: [ ] CHECK: [ ]	REVIEW: [ ] DATE: [ ] BY: [ ]
ORIGINAL REGIONAL APPROVAL: [ ] APPROVED: [ ] DATE: [ ]	PROJECT DESIGN ENGINEER: [ ] DATE: [ ]	ORIGINAL SUBMISSION FOR AUTHORIZATION: [ ] REVISIONS: [ ]	REMARKS: [ ]	DWG CREATED: 8/17/2006 DWG NAME: APD SHEET SET: WOLVERINE FEDERAL #17-8 SCALE: 1"=60' LAST UPDATE: 8/17/2006
Wolverine Gas & Oil Co. of Utah LLC FEDERAL 17-8 CROSS SECTIONS PROJECT NUMBER: 0604-099	SEVIER COUNTY	SHEET NO. CS-01		

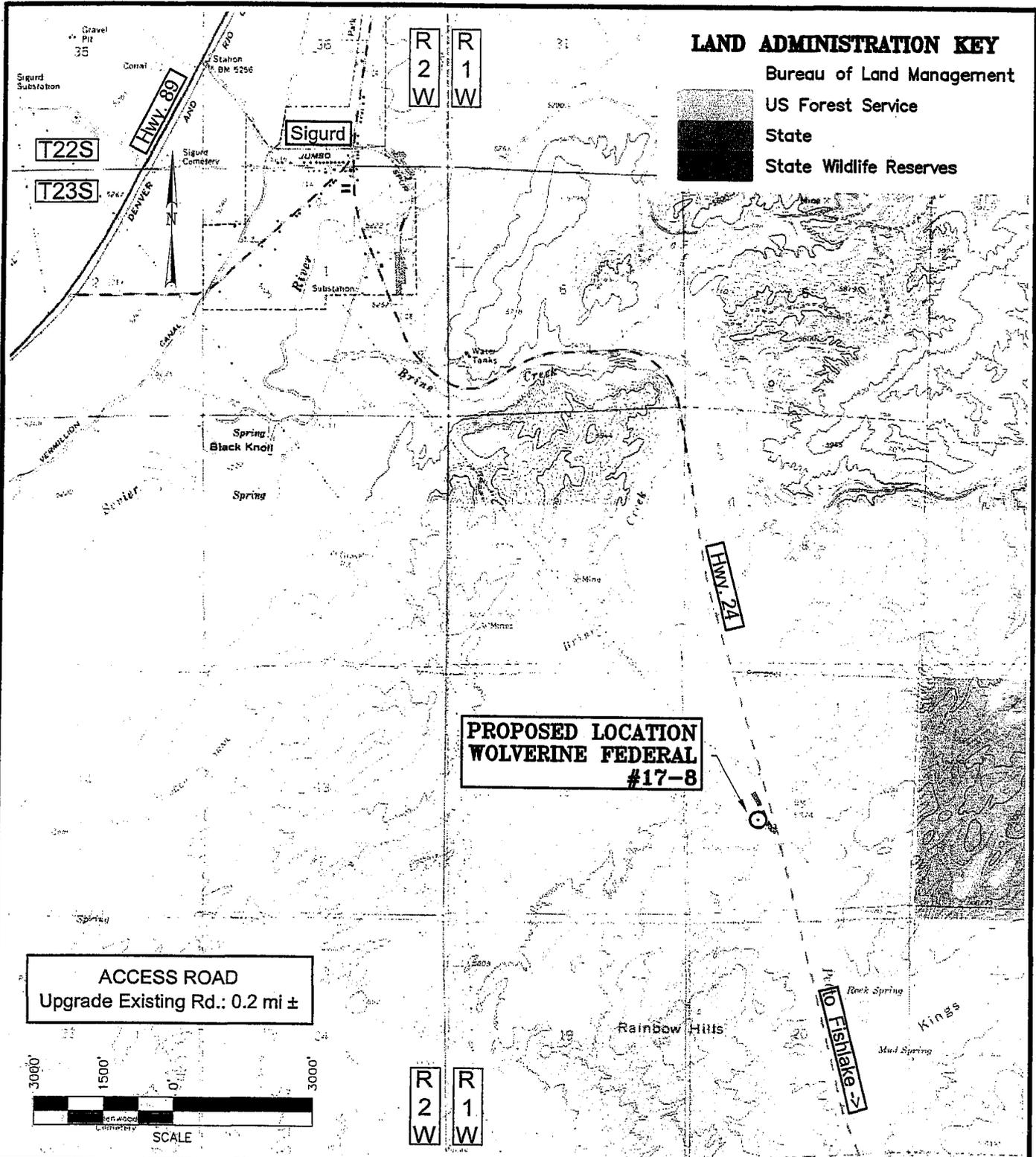
**WOLVERINE GAS AND OIL COMPANY OF UTAH, LLC.**  
**TYPICAL CROSS SECTIONS FOR**  
**WOLVERINE FEDERAL #17-8**  
**SECTION 17, T.23 S., R.1 W., S.L.B.& M.**



<b>Wolverine Gas &amp; Oil Co. of Utah LLC</b> FEDERAL 17-8 CROSS SECTIONS PROJECT NUMBER: 0604-099		Jones & DeMille Engineering 1932 South 100 West - Richfield, Utah 84701 Phone (435) 890-8800 Fax (435) 890-8899 www.jonesanddemille.com		DWG CREATED: 8/16/2006 DWG SET: WOLVERINE FEDERAL #17-8 LAST UPDATE: 8/17/2006	
APPROVAL RECORD: DATE: _____ APPROVER: _____	DESIGN: DRAWN: L.G. 08-08 QUANT.: _____	CHECK: CHECK: _____ CHECK: _____ CHECK: _____	REVIEW: DATE: _____ BY: _____	REVISIONS: NO. DATE DESCRIPTION BY	REMARKS
SHEET NO. CS-02			SEVIER COUNTY		

**LAND ADMINISTRATION KEY**

-  Bureau of Land Management
-  US Forest Service
-  State
-  State Wildlife Reserves

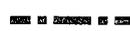


**PROPOSED LOCATION  
WOLVERINE FEDERAL  
#17-8**

**ACCESS ROAD  
Upgrade Existing Rd.: 0.2 mi ±**



**LEGEND**

-  PROPOSED LOCATION
-  EXISTING ROAD NEEDING UPGRADE

**Wolverine Federal #17-8  
Section 17, T.23 S., R.1 W., S.L.B. & M.  
1810' FWL 2007 FSL**



**Jones & DeMille Engineering**  
1535 South 100 West - Richfield, Utah 84701  
(435) 896-8266 Phone  
(435) 896-8268 Fax  
www.jonesanddemille.com

**Wolverine Gas & Oil Company of Utah, L.L.C.**

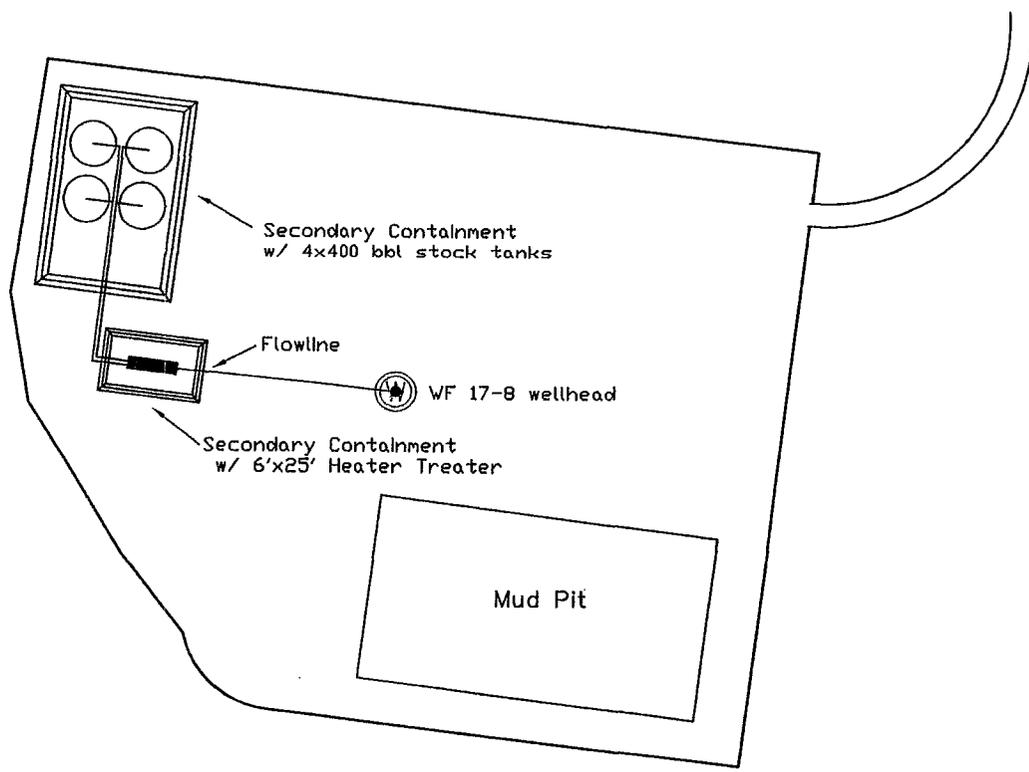
**Wolverine Federal #17-8**

**Location Map**

SCALE: 1"=3000'	ENG.: D.H.R.	PROJ.#: 0604-099
DATE: 08/18/06	DWG.BY: L.G.	DWG.NAME: location

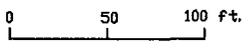
Temporary Test Facility Layout  
Well Site Diagram  
Wolverine Federal 17-8

Access from  
St. Hwy 24



North

Scale: 1" = 100'



**WORKSHEET  
APPLICATION FOR PERMIT TO DRILL**

APD RECEIVED: 02/26/2007

API NO. ASSIGNED: 43-041-30047

WELL NAME: WOLVERINE FED 17-8  
 OPERATOR: WOLVERINE GAS & OIL CO ( N1655 )  
 CONTACT: ED HIGUERA

PHONE NUMBER: 616-458-1150

PROPOSED LOCATION:

NESW 17 230S 010W  
 SURFACE: 2007 FSL 1610 FWL  
 BOTTOM: 2007 FSL 1610 FWL  
 COUNTY: SEVIER  
 LATITUDE: 38.80068 LONGITUDE: -110.9352  
 UTM SURF EASTINGS: 418790 NORTHINGS: 4294866  
 FIELD NAME: COVENANT ( 492 )

INSPECT LOCATN BY: / /		
Tech Review	Initials	Date
Engineering		
Geology		
Surface		

LEASE TYPE: 1 - Federal  
 LEASE NUMBER: UTU 73528  
 SURFACE OWNER: 1 - Federal

PROPOSED FORMATION: KBAB  
 COALBED METHANE WELL? NO

RECEIVED AND/OR REVIEWED:

- Plat
- Bond: Fed[1] Ind[] Sta[] Fee[]  
(No. WY3329 )
- Potash (Y/N)
- Oil Shale 190-5 (B) or 190-3 or 190-13
- Water Permit  
(No. 63-2529 )
- RDCC Review (Y/N)  
(Date: \_\_\_\_\_ )
- Fee Surf Agreement (Y/N)
- Intent to Commingle (Y/N)

LOCATION AND SITING:

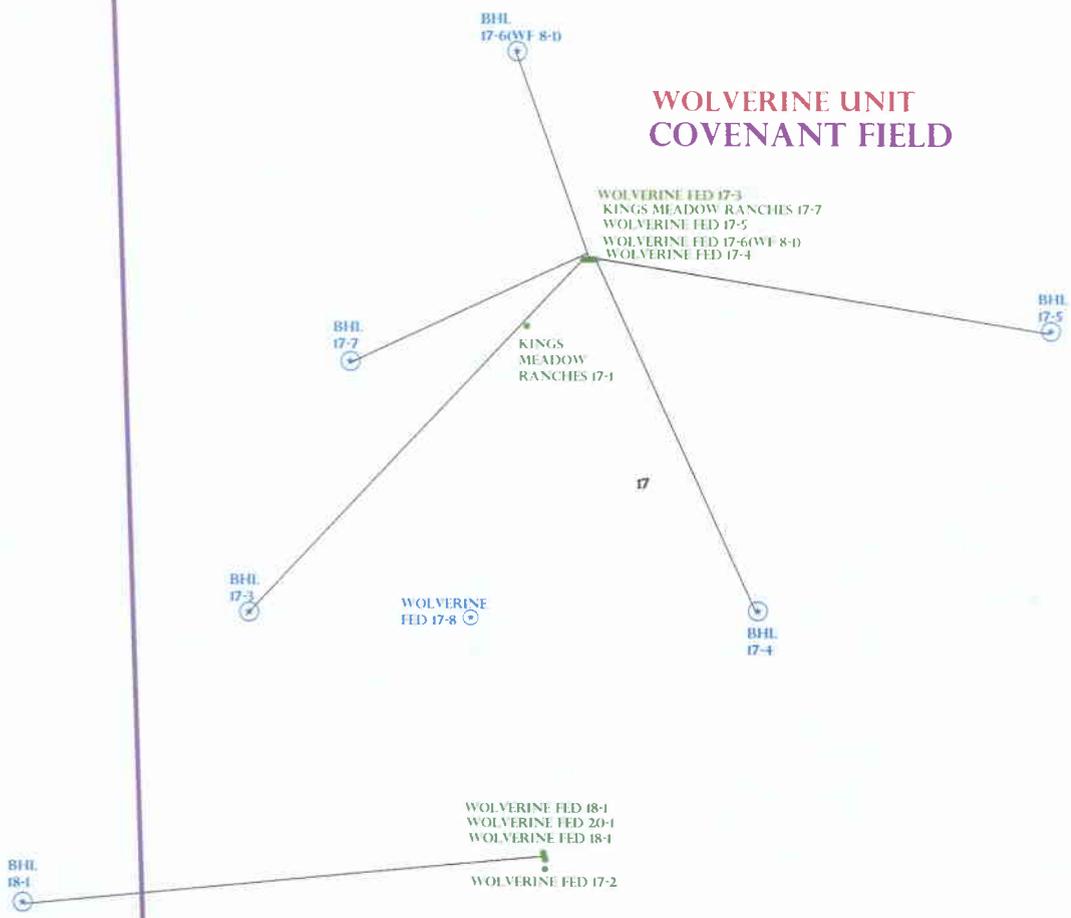
- R649-2-3.
- Unit: WOLVERINE *gh*
- R649-3-2. General  
Siting: 460 From Qtr/Qtr & 920' Between Wells
- R649-3-3. Exception
- Drilling Unit  
Board Cause No: \_\_\_\_\_  
Eff Date: \_\_\_\_\_  
Siting: \_\_\_\_\_
- R649-3-11. Directional Drill

COMMENTS: \_\_\_\_\_

STIPULATIONS: 1 - Federal Approval  
2 - Spacing etc

T23S R1W

## WOLVERINE UNIT COVENANT FIELD

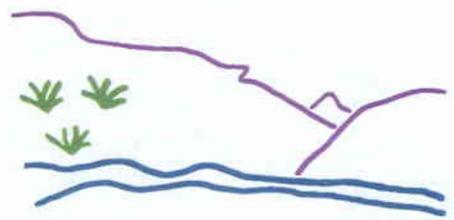


OPERATOR: WOLVERINE G&O (N1655)  
 SEC: 17 T.23S R.1W  
 FIELD: COVENANT (492)  
 COUNTY: SEVIER  
 SPACING: R649-3-3 / EXCEPTION LOCATION

- Field Status**
- ABANDONED
  - ACTIVE
  - COMBINED
  - INACTIVE
  - PROPOSED
  - STORAGE
  - TERMINATED

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

- Wells Status**
- ~ GAS INJECTION
  - \* GAS STORAGE
  - x LOCATION ABANDONED
  - o NEW LOCATION
  - x PLUGGED & ABANDONED
  - \* PRODUCING GAS
  - \* PRODUCING OIL
  - \* SHUT-IN GAS
  - \* SHUT-IN OIL
  - x TEMP. ABANDONED
  - o TEST WELL
  - ^ WATER INJECTION
  - o WATER SUPPLY
  - o WATER DISPOSAL
  - o DRILLING



*Utah Oil Gas and Mining*



PREPARED BY: DIANA MASON  
 DATE: 28-FEBRUARY-2007



**State of Utah**

**Department of  
Natural Resources**

MICHAEL R. STYLER  
*Executive Director*

**Division of  
Oil, Gas & Mining**

JOHN R. BAZA  
*Division Director*

JON M. HUNTSMAN, JR.  
*Governor*

GARY R. HERBERT  
*Lieutenant Governor*

March 1, 2007

Wolverine Gas and Oil Company of Utah, LLC  
55 Campau NW  
Grand Rapids, MI 49503-2616

Re: Wolverine Federal 17-8 Well, 2007' FSL, 1610' FWL, NE SW, Sec. 17,  
T. 23 South, R. 1 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.

Appropriate information has been submitted to DOGM and administrative approval of the requested exception location is hereby 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 43-041-30047.

Sincerely,

Gil Hunt  
Associate Director

pab  
Enclosures

cc: Sevier County Assessor  
Bureau of Land Management, Moab District Office

**Operator:** Wolverine Gas and Oil Company of Utah, LLC

**Well Name & Number** Wolverine Federal 17-8

**API Number:** 43-041-30047

**Lease:** UTU-73528

**Location:** NE SW                      **Sec.** 17                      **T.** 23 South                      **R.** 1 West

### **Conditions of Approval**

**1. General**

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

**2. Notification Requirements**

Notify the division within 24 hours of spudding the well.

- Contact Carol Daniels at (801) 538-5284.

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

- Contact Dustin Doucet at (801) 538-5281

**3. Reporting Requirements**

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

**4. State approval of this well does not supersede the required federal approval, which must be obtained prior to drilling.**

**5. 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.**

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

FORM 6

**ENTITY ACTION FORM**

Operator: Wolverine Gas and Oil Company of Utah, LLC  
Address: 55 Campau NW, One Riverfront Plaza  
city Grand Rapids  
state MI zip 49503-2616

Operator Account Number: N 1655  
Phone Number: (616) 458-1150

**Well 1**

API Number	Well Name		QQ	Sec	Twp	Rng	County
4304130047	Wolverine Federal 17-8		NESW	17	23S	1W	Sevier
Action Code	Current Entity Number	New Entity Number	Spud Date			Entity Assignment Effective Date	
A	99999	16217	6/16/2007			6/28/07	
Comments: vertical <u>Kaibab</u> well							<b>CONFIDENTIAL</b>

R

**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)

Steven R Hash - EXACT Engineering Inc

Name (Please Print)

*Steven R. Hash*

Signature

Engineering Consultant

6/22/2007

Title

Date

**RECEIVED**

**JUN 26 2007**

DIV. OF OIL, GAS & MINING

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

**CONFIDENTIAL**

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

**SUNDRY NOTICES AND REPORTS ON WELLS**

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

**SUBMIT IN TRIPLICATE- Other instructions on reverse side.**

1. Type of Well <input checked="" type="checkbox"/> Oil Well <input type="checkbox"/> Gas Well <input type="checkbox"/> Other	5. Lease Serial No. UTU 73528
2. Name of Operator Wolverine Gas and Oil Company of Utah, LLC	6. If Indian, Allottee or Tribe Name NA
3a. Address 55 Campau NW, Grand Rapids, MI 49503-2616	7. If Unit or CA/Agreement, Name and/or No. Wolverine Federal Unit
3b. Phone No. (include area code) 616-458-1150	8. Well Name and No. Wolverine Federal 17-8
4. Location of Well (Footage, Sec., T., R., M., or Survey Description) 2020' FSL, 1602' FWL, Section 17, T23S, R1W, SLB&M	9. API Well No. 43-041-30047
418788x 38.800714 42948704 -111.935217	10. Field and Pool, or Exploratory Area Covenant Field
	11. County or Parish, State Sevier, Utah

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

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

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

The location for the subject well was altered to accomodate multiple well drilling on the pad. The actual location for the subject well is 2020' FSL, 1602' FWL, Section 17, T23S, R1W, SLB&M with a final graded ground elevation of 5793'. This well spot is approximately 15 feet from the originally permitted location of 2007' FSL, 1610' FWL, Section 17, T23S, R1W, SLB&M. There is no significant change to the drilling pad from the previously approved configuration. A new well location survey plat and diagram of drilling pad layout are included herewith.

Attachments: Well Location Plat, Well Location Layout (2)

**Federal Approval of this Action is Necessary**

**RECEIVED  
JUL 05 2007**

DIV. OF OIL, GAS & MINING

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

Name (Printed/Typed) Ellis M. Peterson	Title Senior Production Engineer
Signature <i>Ellis M. Peterson</i>	Date 07/03/2007

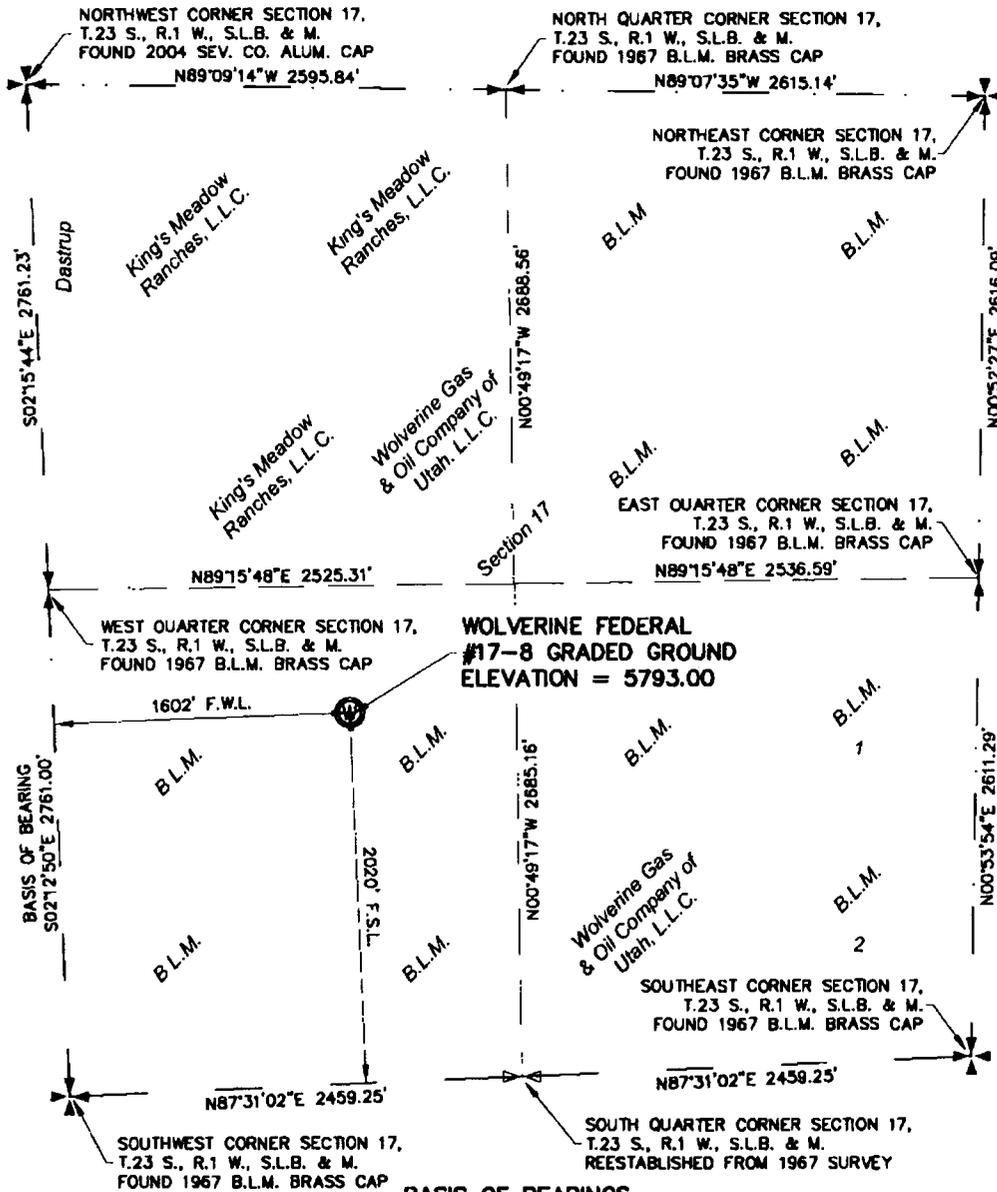
**THIS SPACE FOR FEDERAL OR STATE OFFICE USE**

Approved by <i>Bradley G. Hill</i>	Title <b>BRADLEY G. HILL</b>	Date 07-12-07
Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.		
Title <b>ENVIRONMENTAL MANAGER</b>		

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

COPY SENT TO OPERATOR  
Date: 7-12-07  
Initials: RM

# Section 17, T.23 S., R.1 W., S.L.B. & M.



**BASIS OF BEARINGS**  
 BASIS OF BEARING USED WAS N02°12'50"W BETWEEN THE SOUTHWEST CORNER AND THE WEST QUARTER CORNER OF SECTION 17 T.23 S., R.1 W., S.L.B. & M.  
 LATITUDE: 38°48'02.6191" (38.800727528) NAD 83  
 LONGITUDE: -111°56'09.7808" (-111.936050222) NAD 83

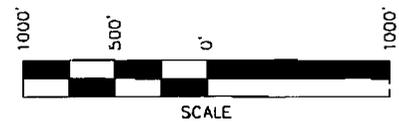
## PROJECT Wolverine Gas & Oil Company of Utah, L.L.C.

WELL LOCATION, LOCATED AS SHOWN IN THE N.E. 1/4 OF THE S.W. 1/4 OF SECTION 17, T.23 S., R.1 W., S.L.B. & M. SEVIER COUNTY, UTAH

- LEGEND**
- = SECTION CORNERS LOCATED
  - = QUARTER SECTION CORNERS LOCATED
  - = PROPOSED WELL HEAD

**NOTE:** THE PURPOSE OF THIS SURVEY WAS TO PLAT THE WOLVERINE FEDERAL #17-8 LOCATION, LOCATED IN THE N.E. 1/4 OF THE S.W. 1/4 OF SECTION 17, T.23 S., R.1 W., S.L.B. & M., SEVIER COUNTY, UTAH.

**BASIS OF ELEVATION**  
 ELEVATION BASED ON U.S.G.S. BENCH MARK T-30 LOCATED IN THE SW 1/4 OF SECTION 17, T.23 S., R.1 W., S.L.B. & M.



**CERTIFICATE**  
 THIS IS TO CERTIFY THAT THIS 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.



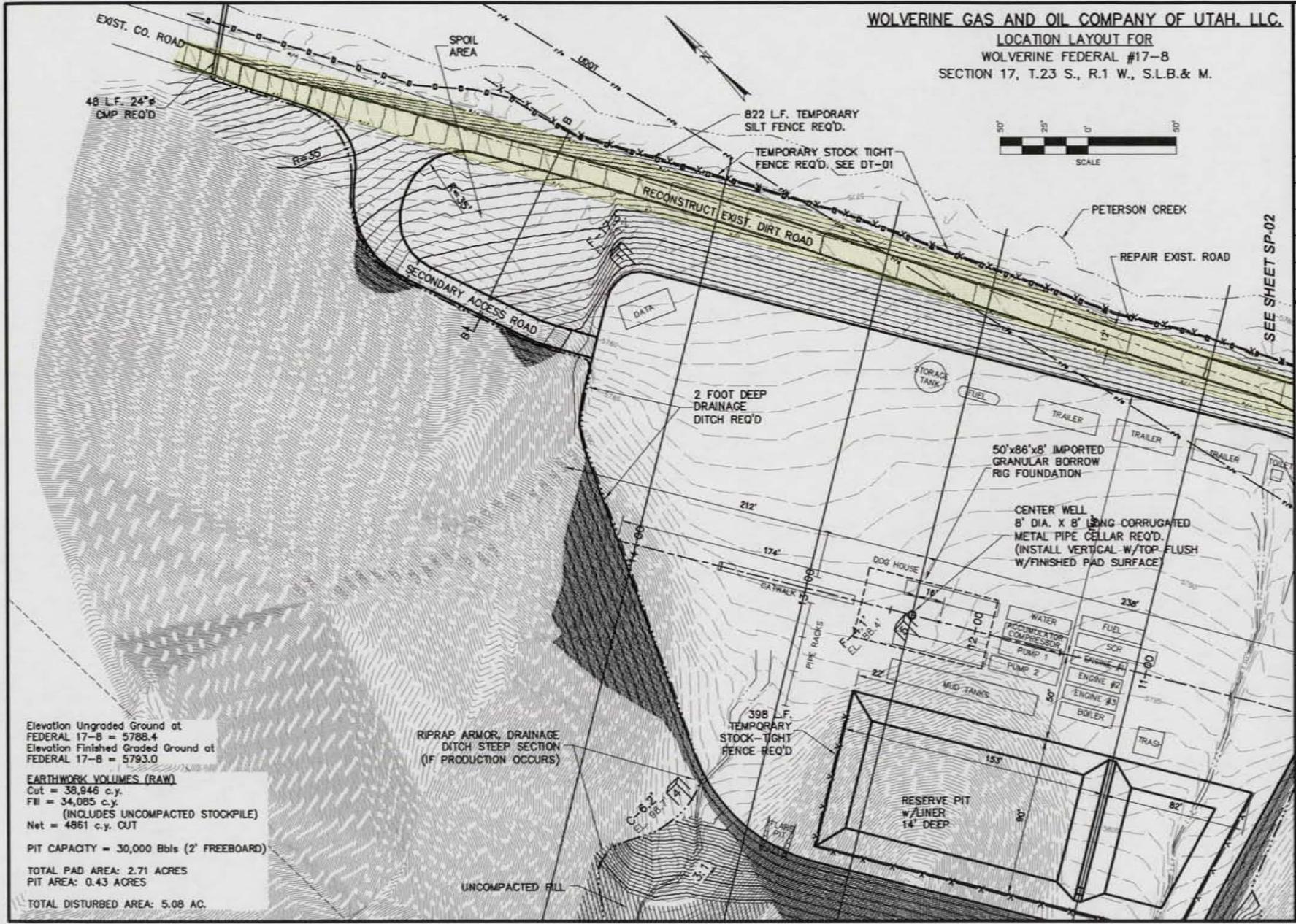
**Jones & Denville Engineering**  
 1547 South Oak West Richfield, Utah 84701  
 Phone (435) 896-8266  
 Fax (435) 896-8268  
 www.jonesanddenville.com

**Well Location Plat for**  
**Wolverine Gas & Oil Company of Utah, L.L.C.**

DESIGNED -	SURVEYED K.D.B.	CHECKED T.R.G.	DRAWN T.R.G.	PROJECT NO 0804-099	SHEET NO. 1
DATE 08/01/07		DWG NAME WELL_LOC	SCALE 1"=1000'		



**WOLVERINE GAS AND OIL COMPANY OF UTAH, LLC.**  
**LOCATION LAYOUT FOR**  
**WOLVERINE FEDERAL #17-8**  
**SECTION 17, T.23 S., R.1 W., S.L.B. & M.**



Elevation Ungraded Ground at  
 FEDERAL 17-8 = 5788.4  
 Elevation Finished Graded Ground at  
 FEDERAL 17-8 = 5793.0

**EARTHWORK VOLUMES (RAW)**  
 Cut = 38,946 c.y.  
 Fill = 34,085 c.y.  
 (INCLUDES UNCOMPACTED STOCKPILE)  
 Net = 4861 c.y. CUT

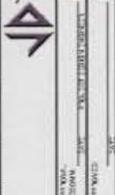
PIT CAPACITY = 30,000 Bbls (2' FREEBOARD)

TOTAL PAD AREA: 2.71 ACRES  
 PIT AREA: 0.43 ACRES  
 TOTAL DISTURBED AREA: 5.08 AC.

SEE SHEET SP-02

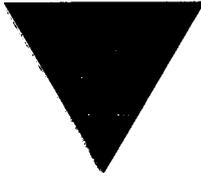
NO.	DATE	DESCRIPTION	BY	CHECKED
1	11/14/07	ORIGINAL SUBMISSION FOR AUTHORIZATION	JONES	DEVLILLE
2	11/14/07	REVISED	JONES	DEVLILLE
3	11/14/07	REVISED	JONES	DEVLILLE
4	11/14/07	REVISED	JONES	DEVLILLE
5	11/14/07	REVISED	JONES	DEVLILLE
6	11/14/07	REVISED	JONES	DEVLILLE
7	11/14/07	REVISED	JONES	DEVLILLE
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99	11/14/07	REVISED	JONES	DEVLILLE
100	11/14/07	REVISED	JONES	DEVLILLE

Jones & Deville Engineering  
 1000 South 100 West - Suite 100, Provo, Utah 84601  
 Phone: 801-734-1111  
 Fax: 801-734-1112  
 www.jonesanddeville.com



Wolverine Gas & Oil Co. of Utah LLC  
 FEDERAL 17-8  
 WELL LOCATION LAYOUT  
 PROJECT NUMBER 0604-099

SEVIER COUNTY  
 SHEET NO. SP-01



**WOLVERINE GAS AND OIL COMPANY  
OF UTAH, LLC**

*Energy Exploration in Partnership with the Environment*

July 3, 2007

Mr. Gil Hunt  
Utah Division of Oil, Gas and Mining  
P.O. Box 145801  
Salt Lake City, Utah 84114-5801

RE: Sundry Notice - Wolverine Gas and Oil Company of Utah, LLC  
**Wolverine Federal 17-8, API 43-041-30047**  
2020' FSL, 1602' FWL, NE/4 SW/4, Section 17, T23S, R1W, S.L.B.&M, Sevier  
County, Utah

Dear Mr. Hunt:

The APD for the subject well received your approval on March 1, 2007. That approval also included permission for a requested exception location per R649-3-2. The as-built actual well spot for the subject well has been relocated 15 feet from the originally permitted location to accommodate the drilling of multiple wells from the pad. The enclosed copies of a Federal Sundry Notice and attachments document the change of location.

The new location for this well remains more than 200' from the center of the 40-acre drilling unit, so the need for an exception to locating and siting requirements of R649-3-2 remains. The exception location for this well is requested because of the restrictive topography of the area surrounding the preferred drilling site. Wolverine Gas and Oil Company of Utah is the only operator within 460' of the proposed location. Please accept the plat submitted with the original exception location request to apply for this request.

Please accept the attached documents for the referenced well and treat them with confidentiality as previously requested for all information pertaining to this well.

Sincerely,

Ellis M. Peterson – Senior Production Engineer  
Wolverine Gas and Oil Company of Utah, LLC

**RECEIVED**

**JUL 05 2007**

**DIV. OF OIL, GAS & MINING**

**EXACT Engineering, Inc.**

www.exactengineering.com

415 S. Boston Ave., Suite 734, Tulsa, OK 74103 • (918) 599-9400 • (918) 599-9401 (fax)

Steven R. Hash, P.E.  
Registered Professional Engineer  
stevehash@exactengineering.com

July 5, 2007

Mr. Al McKee  
Bureau of Land Management  
Utah State Office  
P.O. Box 45155  
Salt Lake City, UT 84145-0155

CONFIDENTIAL

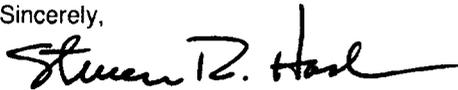
Mr. Dustin Doucet  
Utah Division of Oil, Gas & Mining  
1594 West North Temple, Suite 1210  
Salt Lake City, UT 84114-5801

Re: Drilling Update #1 - **Wolverine Federal 17-8**  
Sec 17 T23S R01W  
Sevier Co, UT  
API# 43-041-30047

Gentlemen,

On behalf of Wolverine Gas and Oil Company of Utah, LLC, please find enclosed daily drilling reports for the subject well from spud through July 4, 2007. We are presently testing BOPE after setting 13-3/8" surface casing @ 1915' and cementing to surface. We expect to alter our target point for the 9-5/8" intermediate casing point from 10,600' to approximately 7000'. Our Sundry Notice of Intent for same is forthcoming. We respectfully request that the enclosed information remain confidential.

Sincerely,



Steven R. Hash, P.E.

Enclosures

copy without enclosures via email to:

Wolverine Gas & Oil Co of Utah, LLC: Helene Bardolph  
EXACT Engineering, Inc. well file

RECEIVED

JUL 06 2007

DIV. OF OIL, GAS & MINING

Petroleum Engineering Consulting, Personnel & Jobsite Supervision  
complete well design, construction & management, drilling, completion, production, pipelines, appraisals,  
due diligence, acquisitions, procedures, temporary personnel and field supervision

Operator: Wolverine Gas & Oil Co of Utah, LLC

**DAILY DRILLING REPORT**

24 hrs - midnight to midnight

DATE 07/04/07	WELL Wolverine Federal 17-8	CONTRACTOR SST #68	COUNTY, STATE Sevier, UT	SPUD DATE 6/28/07	API# 43-041-30047	SUPERVISOR Darren Naylor	
DAYS F/ SPUD 7	PRESENT OPERATIONS @ 2400 Hour NU BOPE	TOTAL DEPTH 1,915	PROGRESS 0	DRILLING TIME 0.00	ROP #DIV/0!	TD FORMATION Kaibab	AUTH. DEPTH 14,500

**MUD DATA**

DATE/TIME	DEPTH	WT	VIS	PV	YP	GELS	FILTRATE	CAKE/32	SOLIDS	SAND	PH	CHLORIDES	SALT	CALC	LCM

**BIT DATA**

BIT NO.	SIZE	MFG.	TYPE	IADC CODE	SERIAL NO.	JETS (1/32nd" or TFA)	IN	OUT	FOOTAGE	HOURS	ROP	MTR	RPM RT+MTR	WOB	DULL CONDITION		
															T	B	G
											#DIV/0!						
											#DIV/0!						
											#DIV/0!						
											#DIV/0!						

**HYDRAULICS**

**SLOW PUMP PSI**

PUMP NO.	MANUFACTURER	LINER	STROKE LENGTH	GAL / STK 100%	SPM	GPM	AV DP	AV DC	PUMP PRESS.	MOTOR DIFF PSI	HHP/IN2	ECD	DEPTH		
1	National 10P130	6.0	10	3.5	0	0							1		
2	National 10P130	6.0	10	3.5	0	0							2		
3													3		
<b>CONFIDENTIAL REPORT</b>															

**DRILL STRING**

**GEOLOGIC**

**GENERAL INFO**

BOTTOM HOLE ASSEMBLY#	LENGTH	O.D.	I.D.	FORMATION	MD	TVD	LITHO LOGY	RIG INFO			
4				Arapiean				Co Man	435-979-2202		
								Mudlogger			
								Toolpusher			
								Last BOP Test			
								Next BOP Test			
								Last Safety Meeting	7/4		
								Last BOP Drill			
								Last Operate Pipe Ra			
								Last Operate Blind Ra			
								Last Operate Annular			
TOTAL	0.00										
STRING WT.	BHA WT.	PU WT.	SO WT.	ROT. TORQUE	GRD. ELEVATION	GL TO KB	KB ELEVATION	SURF CSG	INT CASING 1	INT CASING 2	PROD CSG
					5,793	26	5,818	(1915)	(7000)		(14500)

**SURVEYS**

MD	INCL.	AZIMUTH	TVD	N+S-	E+ / W-	SECTION	DLS	TOOL	MD	INCL.	AZIMUTH	TVD	N+S-	E+ / W-	SECTION	DLS	TOOL	

**DAILY ACTIVITY**

FROM	TO	HRS	LAST 24 HOURS:
0:00	1:30	1.50	Finish running csng. Ran 44 jts. 13 3/8, 68# j55, btc. Set @ 1915'
1:30	3:30	2.00	RU swedge wash to btm. Circ. 1 1/2 times csng volume.
3:30	7:00	3.50	RU cementers & cement, plug bumped @ 06:35, 650 psi.
7:00	11:00	4.00	WOC. While woc cut off conductor & prepare for NU.
11:00	15:00	4.00	Cut off & weld csng head on.
15:00	0:00	9.00	NU BOPE
0:00			
0:00			
0:00			Cemented casing with 352 sks. Of lead cement CBM LITE standrd cbc lite blend w/salt, 100 LB BAG, poly-e-fl
0:00			Weight (lb/gal) 10.50 Yeild (cuft/sk) 4.33 Water (gal/sk) 27.73
0:00			Follow with tail cement Weight 15.6 lb/gal. Yeild 1.19 cuft/sk Water 5.24gal/sk. 1% CACL
0:00			Displace with 280.5 bbls. H2O bumped plug pressure up to 650 psi. float held good
0:00			Pumped 20 bbls. Of cement to reserve pit. Cement did not drop stayed @ ground level.
0:00			
0:00			
0:00			
0:00			This am Pressure testing BOPE,
0:00			
0:00			
Daily Total	24.00		

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**JUL 06 2007**

**DIV. OF OIL, GAS & MINING**

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

**DAILY DRILLING REPORT**

24 hrs - midnight to midnight

DATE 07/03/07	WELL Wolverine Federal 17-8	CONTRACTOR SST #68	COUNTY, STATE Sevier, UT	SPUD DATE 6/28/07	API# 43-041-30047	SUPERVISOR Darren Naylor
DAYS F/SPUD 6	PRESENT OPERATIONS @ 2400 Hour Running 13 3/8 surface csng.	TOTAL DEPTH 1,915	PROGRESS 0	DRILLING TIME 0.00	ROP #DIV/0!	TD FORMATION Kaibab
AUTH. DEPTH 14,500						

**MUD DATA**

DATE/TIME	DEPTH	WT	VIS	PV	YP	GELS	FILTRATE	CAKE/32	SOLIDS	SAND	PH	CHLORIDES	SALT	CALC	LCM
7/3/8am	1915	9.2	35	5	13	9/13	32.0	2	6.25	tr	8.5	900	1,485	120	

**BIT DATA**

BIT NO.	SIZE	MFG.	TYPE	IADC CODE	SERIAL NO.	JETS (1/32nd") or TFA				IN	OUT	FOOTAGE	HOURS	ROP	MTR	RPM RT+MTR	WOB	DULL CONDITION				
																		T	B	G		
1	17.500	Russian	WLS515	417	20540906	26	26	26	26			115	135	20	2.50	8.0	Y	0-45	5	1	1	I
2	17.500	RR	RFVG	417	MR5451	28	28	28				135	435	300	20.50	14.6	N	50	5	1	1	I
3	17.500	Russian	WLS515	417	RR1	26	26	26	26			435	1915	1480	45.00	32.9	Y	0-100	35	1	1	I
																			#DIV/0!			

**HYDRAULICS**

**SLOW PUMP PSI**

PUMP NO.	MANUFACTURER	LINER	STROKE LENGTH	GAL / STK 100%	SPM	GPM	AV DP	AV DC	PUMP PRESS.	MOTOR DIFF PSI	HHP/IN2	ECD	DEPTH	SPM						
1	National 10P130	6.0	10	3.5	120	420							1							
2	National 10P130	6.0	10	3.5	120	420							2							
3						0							3							
<b>CONFIDENTIAL REPORT</b>																				
													61	65/71	1450		67/278	9.53		

**DRILL STRING**

**GEOLOGIC**

**GENERAL INFO**

BOTTOM HOLE ASSEMBLY#	LENGTH	O.D.	I.D.	FORMATION	MD	TVD	LITHO LOGY	RIG INFO			
bit	1.50	17.500	NP	Arapiean				Co Man 435-979-2202			
Bit sub	2.68	8.875	np					Mudlogger			
6 - 8" DC	177.52	8.000	2.94					Toolpusher			
XO	3.09	7.500	2.88					Last BOP Test			
6 - 6 1/2" DC	174.19	6.563	2.75					Next BOP Test			
2 - 5" HWDP	61.21	5.000	3.19					Last Safety Meeting 7/3			
<b>TOTAL</b>								Last BOP Drill			
								Last Operate Pipe Ra			
								Last Operate Blind Ra			
								Last Operate Annular			
STRING WT.	BHA WT.	PU WT.	SO WT.	ROT. TORQUE	GRD. ELEVATION	GL TO KB	KB ELEVATION	SURF CSG	INT CASING 1	INT CASING 2	PROD CSG
100	51	120	85		5,793	25	5,818	(1800)	(7000)		(14500)

**SURVEYS**

MD	INCL.	AZIMUTH	TVD	N+S-	E+ / W-	SECTION	DLS	TOOL	MD	INCL.	AZIMUTH	TVD	N+S-	E+ / W-	SECTION	DLS	TOOL
1,830	0.25		1830	5	0	5	0.03	vertitak									

**DAILY ACTIVITY**

FROM	TO	HRS	LAST 24 HOURS:
0:00	1:30	1.50	POOH slowly, could not confirm steering arms were closed, had 50k drag
1:30	3:30	2.00	LD vertitak system
3:30	4:00	0.50	Top drive maintenance
4:00	7:00	3.00	PU bit sub TIH. Wash thru bridge @ 1885. 8' fill
7:00	11:30	4.50	Circ. & condition Wait on csng. Crew
11:30	14:00	2.50	Make another wiper trip.No bridge, no fill. Wait on csng. Crew
14:00	14:30	0.50	Circ. & condition Wait on csng. Crew
14:30	15:30	1.00	POOH to run pipe, Csng. Crew showed up @ 3:15 pm: 12 hrs. late.
15:30	17:00	1.50	RU csng crew, forgot to bring stabbing board.
17:00	19:00	2.00	Make up guide shoe, shoe jt. Float collar & 2nd jt. Had trouble making up float collar without stabbing board.
19:00	20:00	1.00	Strap weld shoe & float collar.
20:00	22:00	2.00	Start running csng. 14 jts.
22:00	23:00	1.00	Fill pipe while RU stabbing board.
23:00	0:00	1.00	Resume running csng.
0:00			
0:00			Csng crew sheduled to be on location 3:am 7/3/07, did not show till 3:15pm 7/3/07
0:00			
0:00			This am: pipe on btm. & cementing
0:00			
Daily Total		24.00	

SEE ATTACHED COST DETAIL PAGE FOR ESTIMATED DRY HOLE COSTS







Operator: Wolverine Gas & Oil Co of Utah, LLC

DAILY DRILLING REPORT

24 hrs - midnight to midnight

Table with 8 columns: DATE, WELL, CONTRACTOR, COUNTY, STATE, SPUD DATE, API#, SUPERVISOR, DAYS F/ SPUD, PRESENT OPERATIONS @ 2400 Hour, TOTAL DEPTH, PROGRESS, DRILLING TIME, ROP, TD FORMATION, AUTH. DEPTH

MUD DATA

Table with 16 columns: DATE/TIME, DEPTH, WT, VIS, PV, YP, GELS, FLTRATE, CAKE/32, SOLIDS, SAND, PH, CHLORIDES, SALT, CALC, LCM

BIT DATA

Table with 16 columns: BIT NO., SIZE, MFG., TYPE, IADC CODE, SERIAL NO., JETS (1/32nd" or TFA), IN, OUT, FOOTAGE, HOURS, ROP, MTR, RPM RT+MTR, WOB, DULL CONDITION

HYDRAULICS

SLOW PUMP PSI

Table with 14 columns: PUMP NO., MANUFACTURER, LINER, STROKE LENGTH, GAL / STK 100%, SPM, GPM, AV DP, AV DC, PUMP PRESS., MOTOR DIFF PSI, DEPTH, SPM

CONFIDENTIAL REPORT

DRILL STRING

GEOLOGIC

GENERAL INFO

Table with 12 columns: BOTTOM HOLE ASSEMBLY#, LENGTH, O.D., I.D., FORMATION, MD, TVD, LITHO LOGY, RIG INFO, GAS DATA, SHOWS, TOTAL, STRING WT., BHA WT., PU WT., SO WT., ROT. TORQUE, GRD. ELEVATION, GL TO KB, KB ELEVATION, SURF CSG, INT CASING 1, INT CASING 2, PROD CSG

SURVEYS

Table with 18 columns: MD, INCL., AZIMUTH, TVD, N+S-, E+ / W-, SECTION, DLS, TOOL, MD, INCL., AZIMUTH, TVD, N+S-, E+ / W-, SECTION, DLS, TOOL

DAILY ACTIVITY

Table with 4 columns: FROM, TO, HRS, LAST 24 HOURS: (Detailed log of drilling activities and times)

SEE ATTACHED COST DETAIL PAGE FOR ESTIMATED DRY HOLE COSTS









**EXACT Engineering, Inc.**

www.exactengineering.com

415 S. Boston Ave., Suite 734, Tulsa, OK 74103 • (918) 599-9400 • (918) 599-9401 (fax)

Steven R. Hash, P.E.  
Registered Professional Engineer  
stevehash@exactengineering.com

July 20, 2007

Mr. Al McKee  
Bureau of Land Management  
Utah State Office  
P.O. Box 45155  
Salt Lake City, UT 84145-0155

CONFIDENTIAL

Mr. Dustin Doucet  
Utah Division of Oil, Gas & Mining  
1594 West North Temple, Suite 1210  
Salt Lake City, UT 84114-5801

Re: Drilling Update #2 - **Wolverine Federal 17-8**  
Sec 17 T23S R01W  
Sevier Co, UT  
API# 43-041-30047

Gentlemen,

On behalf of Wolverine Gas and Oil Company of Utah, LLC, please find enclosed daily drilling reports for the subject well from July 5, 2007 through July 19, 2007. We are presently drilling 12-1/4" hole at 6472' and are considering setting 9-5/8" casing through the Navajo 1 at 7000' instead of near 10,600' per our application, thus our Sundry Notice of Intent is enclosed. We respectfully request that the enclosed information remain confidential.

Sincerely,



Steven R. Hash, P.E.

Enclosures

copy without enclosures via email to:

Wolverine Gas & Oil Co of Utah, LLC: Helene Bardolph  
EXACT Engineering, Inc. well file

**RECEIVED**

**JUL 25 2007**

**DIV. OF OIL, GAS & MINING**

Petroleum Engineering Consulting, Personnel & Jobsite Supervision  
complete well design, construction & management, drilling, completion, production, pipelines, appraisals,  
due diligence, acquisitions, procedures, temporary personnel and field supervision



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

**DAILY DRILLING REPORT**

24 hrs - midnight to midnight

DATE 07/18/07	WELL Wolverine Federal 17-8	CONTRACTOR SST #68	COUNTY, STATE Sevier, UT	SPUD DATE 6/28/07	API# 43-041-30047	SUPERVISOR DL Naylor	
DAYS F/SPUD 21	PRESENT OPERATIONS @ 2400 Hour Drilling	TOTAL DEPTH 6,160	PROGRESS 94	DRILLING TIME 12.00	ROP 7.8	TD FORMATION Kaibab	AUTH. DEPTH 14,500

**MUD DATA**

DATE/TIME	DEPTH	WT	VIS	PV	YP	GELS	FILTRATE	CAKE/32	SOLIDS	SAND	PH	CHLORIDES	SALT	CALC	LCM
7/18/7:30am	6125	10.4+	39	11	12	7/13	6.0	2	3.25	tr	10.4	200,000	330,000	1650	0

**BIT DATA**

BIT NO.	SIZE	MFG.	TYPE	IADC CODE	SERIAL NO.	JETS (1/32nd" or TFA)				IN	OUT	FOOTAGE	HOURS	ROP	MTR	RPM RT+MTR	WOB	DULL CONDITION		
						T	B	G												
5	12.250	Reed	MM249POH	537	WP6106	28	28	28		5469	6125	597	41.50	14.4	Y	0/110	38-45	8	E	I
6	12.250	Smith	F67ODCPS	647	PC3896	28	28	28		6125		35	6.00	5.8	Y	0/110	38-50			
														#DIV/0!						
														#DIV/0!						

**HYDRAULICS**

**SLOW PUMP PSI**

PUMP NO.	MANUFACTURER	LINER	STROKE LENGTH	GAL / STK 100%	SPM	GPM	AV DP	AV DC	PUMP PRESS.	MOTOR DIFF PSI	HHP/IN2	ECD	DEPTH	5980
1	National 10P130	6.0	10	3.5	96	336							1	410
2	National 10P130	6.0	10	3.5	96	336							2	410
3					0								3	
<b>CONFIDENTIAL REPORT</b>														
					672		131	152-191	2900	340	0.45	10.60		

**DRILL STRING**

**GEOLOGIC**

**GENERAL INFO**

BOTTOM HOLE ASSEMBLY#	LENGTH	O.D.	I.D.	FORMATION	MD	TVD	LITHO LOGY	RIG INFO			
bit	1.50	12.250	NP	Arapian	4,050	4,050	ss, sh, lime, anhd.	Co Man 435-979-2202			
Vertitak motor w/filter su	38.63	9.500	np	Twin Creek	5,611	5,611		Mudlogger			
xo, fs, 11 3/4' stabilizer	11.84	8.000	2.94	Navajio	5,901	5,901	ss	Toolpusher			
Shock sub	9.93	8.000	2.56	GAS DATA				Last BOP Test 7/5			
6 - 8" DC / XO sub	180.57	8.000	2.94	BOTTOMS UP TIME	BG GAS	CONN GAS	TRIP GAS	Next BOP Test 8/4			
10 - 6 1/2" DC	300.88	6.500	2.75	56.5	21	34	71	Last Safety Meeting 7/18			
Jar	32.64	6.500	2.75	SHOWS				Last BOP Drill 7/18			
2 - 6 1/2" DC	58.30	6.500	2.75	GAS UNITS	FROM	TO	ROP (FT/HR)	Last Operate Pipe Ra 7/18			
2 - 5" HWDP	61.21	5.000	3.19					Last Operate Blind Ra 7/18			
TOTAL	695.50							Last Operate Annular 7/18			
STRING WT.	BHA WT.	PU WT.	SO WT.	ROT. TORQUE	GRD. ELEVATION	GL TO KB	KB ELEVATION	SURF CSG	INT CASING 1	INT CASING 2	PROD CSG
180,000	74,900	192	170	0	5,793	26	5,819	1,915	(7000)		(14500)

**SURVEYS**

MD	INCL.	AZIMUTH	TVD	N+S-	E+W-	SECTION	DLS	TOOL	MD	INCL.	AZIMUTH	TVD	N+S-	E+W-	SECTION	DLS	TOOL

**DAILY ACTIVITY**

FROM	TO	HRS	LAST 24 HOURS:
0:00	6:00	6.00	Drill & survey from 6066' to 6125'
6:00	7:30	1.50	Circ. Bottoms up pump pill retract arms on vertitak
7:30	12:30	5.00	Trip out close blind rams
12:30	13:30	1.00	Change shock sub & bit
13:30	14:30	1.00	TIH w/ BHA surface test vertitak
14:30	15:00	0.50	Change saver sub & corr. Rings
15:00	18:00	3.00	TIH
18:00	0:00	6.00	Drill & survey from 6125 to 6160
0:00			
0:00			
0:00			Well did not take any fluid in last 24 hours
0:00			
0:00			
0:00			
0:00			
0:00			
0:00			06:00 Drilling @ 6235
0:00			
Daily Total		24.00	

SEE ATTACHED COST DETAIL PAGE FOR ESTIMATED DRY HOLE COSTS

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

**DAILY DRILLING REPORT**

24 hrs - midnight to midnight

DATE 07/17/07	WELL Wolverine Federal 17-8	CONTRACTOR SST #68	COUNTY, STATE Sevier, UT	SPUD DATE 6/28/07	API# 43-041-30047	SUPERVISOR Rodger Rebsom	
DAYS F/ SPUD 20	PRESENT OPERATIONS @ 2400 Hour Drilling	TOTAL DEPTH 6,066	PROGRESS 267	DRILLING TIME 18.00	ROP 14.8	TD FORMATION Kaibab	AUTH. DEPTH 14,500

**MUD DATA**

DATE/TIME 7/17/7:30am	DEPTH 5932	WT 10.4+	VIS 40	PV 12	YP 13	GELS 8/13	FILTRATE 6.0	CAKE/32 2	SOLIDS 3.25	SAND tr	PH 10.0	CHLORIDES 200,000	SALT 330,000	CALC 1650	LCM 0
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**BIT DATA**

BIT NO.	SIZE	MFG.	TYPE	IADC CODE	SERIAL NO.	JETS (1/32nd" or TFA)			IN	OUT	FOOTAGE	HOURS	ROP	MTR	RPM RT+MTR	WOB	DULL CONDITION			
						T	B	G												
5	12.250	Reed	M4249POH	537	WP6106	28	28	28			5469									
													#DIV/0!							
													#DIV/0!							
													#DIV/0!							

**HYDRAULICS**

**SLOW PUMP PSI**

PUMP NO.	MANUFACTURER	LINER	STROKE LENGTH	GAL / STK 100%	SPM	GPM	AV DP	AV DC	PUMP PRESS.	MOTOR DIFF PSI	HHP/IN2	ECD	DEPTH	5980
1	National 10P130	6.0	10	3.5	96	336							1	410
2	National 10P130	6.0	10	3.5	96	336							2	410
3					0								3	
<b>CONFIDENTIAL REPORT</b>														
					672		131	152-191	2900	340	0.45	10.60		

**DRILL STRING**

**GEOLOGIC**

**GENERAL INFO**

BOTTOM HOLE ASSEMBLY#	LENGTH	O.D.	I.D.	FORMATION	MD	TVD	LITHOLOGY	RIG INFO			
bit	1.50	12.250	NP	Arapian	4,050	4,050	ss, sh, lime, anhd.	Co Man 435-979-2202			
Vertitak motor w/filter su	38.63	9.500	np	Twin Creek	5,611	5,611		Mudlogger			
xo, fs, 11 3/4' stabilizer	11.84	8.000	2.94					Toolpusher			
Shock sub	9.93	8.000	2.56					Last BOP Test 7/5			
6 - 8" DC / XO sub	180.57	8.000	2.94					Next BOP Test 8/4			
10 - 6 1/2" DC	300.88	6.500	2.75					Last Safety Meeting 7/17			
Jar	32.64	6.500	2.75					Last BOP Drill 7/14			
2 - 6 1/2" DC	58.30	6.500	2.75					Last Operate Pipe Ra 7/13			
2 - 5" HWDP	61.21	5.000	3.19					Last Operate Blind Ra 7/16			
<b>TOTAL</b>	<b>695.50</b>							Last Operate Annular 7/14			
STRING WT.	BHA WT.	PU WT.	SO WT.	ROT. TORQUE	GRD. ELEVATION	GL TO KB	KB ELEVATION	SURF CSG	INT CASING 1	INT CASING 2	PROD CSG
176,000	74,900	186,000	166,000	0	5,793	26	5,819	1,915	(7000)		(14500)

**SURVEYS**

MD	INCL.	AZIMUTH	TVD	N+S-	E+ / W-	SECTION	DLS	TOOL	MD	INCL.	AZIMUTH	TVD	N+S-	E+ / W-	SECTION	DLS	TOOL

**DAILY ACTIVITY**

FROM	TO	HRS	LAST 24 HOURS:
0:00	11:00	11.00	Drill & survey from 5799' to 5980'
11:00	12:00	1.00	Service rig recal down hole tools
12:00	13:30	1.50	Drill & survey from 5980' to 6003'
13:30	14:00	0.50	Recal down hole tools due to motor over heating
14:00	18:00	4.00	Drill & survey from 6003' to 6042'
18:00	22:30	4.50	Repair rig clean radiaters on all three motors
22:30	0:00	1.50	Drill & survey from 6042' to 6066'
0:00			
0:00			
0:00			
0:00			Well did not take any fluid in last 24 hours
0:00			
0:00			
0:00			
0:00			
0:00			6123' Drilling ahead @ 0600 hour.
0:00			
0:00			
Daily Total		24.00	

SEE ATTACHED COST DETAIL PAGE FOR ESTIMATED DRY HOLE COSTS

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

**DAILY DRILLING REPORT**

24 hrs - midnight to midnight

DATE 07/16/07	WELL Wolverine Federal 17-8	CONTRACTOR SST #68	COUNTY, STATE Sevier, UT	SPUD DATE 6/28/07	API# 43-041-30047	SUPERVISOR Rodger Rebsom	
DAYS F/ SPUD 19	PRESENT OPERATIONS @ 2400 Hour Drilling	TOTAL DEPTH 5,799	PROGRESS 330	DRILLING TIME 17.50	ROP 18.9	TD FORMATION Kaibab	AUTH. DEPTH 14,500

**MUD DATA**

DATE/TIME	DEPTH	WT	VIS	PV	YP	GELS	FILTRATE	CAKE/32	SOLIDS	SAND	PH	CHLORIDES	SALT	CALC	LCM
7/16/7:30am	5471	10.4+	38	11	12	9/13	8.8	2	3.25	tr	10.4	200,000	330,000	1650	0

**BIT DATA**

BIT NO.	SIZE	MFG.	TYPE	IADC CODE	SERIAL NO.	JETS (1/32nd" or TFA)			IN	OUT	FOOTAGE	HOURS	ROP	MTR	RPM RT+MTR	WOB	DULL CONDITION			
						T	B	G												
4	12.250	Security	EPA220D	517	719749	24	24	24	22	5054	5469	414	46.00	9.0	Y	0/110	40/52	3	8	In
5	12.250	Reed	M4249POH	537	WP6106	28	28	28		5469		330	17.50	18.9	Y	0/105	35-48			

**HYDRAULICS**

**SLOW PUMP PSI**

PUMP NO.	MANUFACTURER	LINER	STROKE LENGTH	GAL / STK 100%	SPM	GPM	AV DP	AV DC	PUMP PRESS.	MOTOR DIFF PSI	HHP/IN2	ECD	DEPTH	5737
1	National 10P130	6.0	10	3.5	96	336							1	410
2	National 10P130	6.0	10	3.5	96	336							2	410
3					0								3	
					672		131	152-191	2775	220	0.51	10.65		

**CONFIDENTIAL REPORT**

**DRILL STRING**

**GEOLOGIC**

**GENERAL INFO**

BOTTOM HOLE ASSEMBLY #	LENGTH	O.D.	I.D.	FORMATION	MD	TVD	LITHO LOGY	RIG INFO			
bit	1.50	12.250	NP	Arapian	4,050	4,050	ss, sh, lime, anhd.	Co Man 435-979-2202			
Vertitak motor w/filter sub	38.63	9.500	np	Twin Creek	5,611	5,611		Mudlogger			
xo, fs, 11 3/4' stabilizer	11.84	8.000	2.94					Toolpusher			
Shock sub	9.93	8.000	2.56					Last BOP Test 7/5			
6 - 8" DC / XO sub	180.57	8.000	2.94					Next BOP Test 8/4			
10 - 6 1/2" DC	300.88	6.500	2.75					Last Safety Meeting 7/17			
Jar	32.64	6.500	2.75					Last BOP Drill 7/14			
2 - 6 1/2" DC	58.30	6.500	2.75					Last Operate Pipe Ra 7/13			
2 - 5" HWDP	61.21	5.000	3.19					Last Operate Blind Ra 7/16			
TOTAL	695.50							Last Operate Annular 7/14			
STRING WT.	BHA WT.	PU WT.	SO WT.	ROT. TORQUE	GRD. ELEVATION	GL TO KB	KB ELEVATION	SURF CSG	INT CASING 1	INT CASING 2	PROD CSG
174,000	74,900	188,000	160,000	0	5,793	26	5,819	1,915	(7000)		(14500)

**SURVEYS**

MD	INCL.	AZIMUTH	TVD	N+S-	E+ / W-	SECTION	DLS	TOOL	MD	INCL.	AZIMUTH	TVD	N+S-	E+ / W-	SECTION	DLS	TOOL	

**DAILY ACTIVITY**

FROM	TO	HRS	LAST 24 HOURS:
0:00	1:30	1.50	Trip out work blind rams
1:30	3:00	1.50	Change out Vertitak & Bit open blind rams
3:00	4:00	1.00	Trip in bha.
4:00	4:30	0.50	Repair top drive changed out o-ring that was leaking
4:30	6:00	1.50	Trip in fill pipe
6:00	6:30	0.50	Fill pipe wash & ream 41' to bottom no fill
6:30	0:00	17.50	Drill & survey from 5469' to 5799'
0:00			
0:00			
0:00			
0:00			Well did not take any fluid in last 24 hours
0:00			
0:00			
0:00			
0:00			5882' Drilling @ 0500 hour.
0:00			
0:00			
Daily Total		24.00	

SEE ATTACHED COST DETAIL PAGE FOR ESTIMATED DRY HOLE COSTS

Operator: Wolverine Gas & Oil Co of Utah, LLC

**DAILY DRILLING REPORT**

24 hrs - midnight to midnight

DATE 07/15/07	WELL Wolverine Federal 17-8	CONTRACTOR SST #68	COUNTY, STATE Sevier, UT	SPUD DATE 6/28/07	API# 43-041-30047	SUPERVISOR Rodger Rebsom	
DAYS P/SPUD 18	PRESENT OPERATIONS @ 2400 Hour Trip out	TOTAL DEPTH 5,469	PROGRESS 149	DRILLING TIME 19.50	ROP 7.6	TD FORMATION Kaibab	AUTH. DEPTH 14,500

**MUD DATA**

DATE/TIME	DEPTH	WT	VIS	PV	YP	GELS	FILTRATE	CAKE/32	SOLIDS	SAND	PH	CHLORIDES	SALT	CALC	LCM
7/15/7:30am	5400	10.4	38	12	13	9/13	8.0	2	3.00	tr	10.4	200,000	330,000	1650	0

**BIT DATA**

BIT NO.	SIZE	MFG.	TYPE	IADC CODE	SERIAL NO.	JETS (1/32nd" or TFA)				IN	OUT	FOOTAGE	HOURS	ROP	MTR	RPM RT+MTR	WOB	DULL CONDITION			
						T	B	G													
4	12.250	Security	ERA220D	517	719749	24	24	24	22												
														#DIV/0!							
														#DIV/0!							
														#DIV/0!							

**HYDRAULICS**

**SLOW PUMP PSI**

PUMP NO.	MANUFACTURER	LINER	STROKE LENGTH	GAL / STK 100%	SPM	GPM	AV DP	AV DC	PUMP PRESS.	MOTOR DIFF PSI	HHP/IN2	ECD	DEPTH	5403
1	National 10P130	6.0	10	3.5	93	326							1	400
2	National 10P130	6.0	10	3.5	93	326							2	400
3						0							3	
<b>CONFIDENTIAL REPORT</b>														
					651		127	147-185	2700		325	0.46	10.59	

**DRILL STRING**

**GEOLOGIC**

**GENERAL INFO**

BOTTOM HOLE ASSEMBLY#	LENGTH	O.D.	I.D.	FORMATION	MD	TVD	LITHO LOGY	RIG INFO			
9											
bit	1.50	12.250	NP	Arapian	4,050	4,050	ss, sh, lime, anhd.	Co Man 435-979-2202			
Vertitak motor w/filter su	38.91	9.500	np					Mudlogger			
xo, fs, 11 3/4' stabilizer	11.84	8.000	2.94					Toolpusher			
Shock sub	9.93	8.000	2.56					Last BOP Test 7/5			
6 - 8" DC / XO sub	180.57	8.000	2.94					Next BOP Test 8/4			
10 - 6 1/2" DC	300.88	6.500	2.75					Last Safety Meeting 7/16			
Jar	32.64	6.500	2.75					Last BOP Drill 7/14			
2 - 6 1/2" DC	56.30	6.500	2.75					Last Operate Pipe Ra 7/13			
2 - 5" HWDP	61.21	5.000	3.19					Last Operate Blind Ra 7/13			
<b>TOTAL</b>	<b>693.78</b>							Last Operate Annular 7/14			
STRING WT.	BHA WT.	PU WT.	SO WT.	ROT. TORQUE	GRD. ELEVATION	GL TO KB	KB ELEVATION	SURF CSG	INT CASING 1	INT CASING 2	PROD CSG
170,000	74,900	190,000	160,000	0	5,793	26	5,819	1,915	(7000)		(14500)

**SURVEYS**

MD	INCL	AZIMUTH	TVD	N+S-	E+ / W-	SECTION	DLS	TOOL	MD	INCL	AZIMUTH	TVD	N+S-	E+ / W-	SECTION	DLS	TOOL

**DAILY ACTIVITY**

FROM	TO	HRS	LAST 24 HOURS:
0:00	8:00	8.00	Drill & survey 5320' to 5403'
8:00	8:30	0.50	Service rig -- top drive
8:30	19:30	11.00	Drill & survey 5403' to 5467'
19:30	20:30	1.00	Change middel liner & swab # 2 pump
20:30	21:00	0.50	Drill & survey 5467' to 5469'
21:00	22:00	1.00	Circ. Clean hole pump pill
22:00	0:00	2.00	Trip out to change Vertitak motor
0:00			
0:00			
0:00			At 5326' hole started taking fluid sealed hole after mixing & pumping 80 bbls mud with 52 sks of calcium carbo
0:00			Lost a total of 125 bbls. Of fluid.
0:00			
0:00			
0:00			
0:00			
0:00			Trip in 0500 hour
0:00			
0:00			
0:00			
Daily Total		24.00	

SEE ATTACHED COST DETAIL PAGE FOR ESTIMATED DRY HOLE COSTS













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

**DAILY DRILLING REPORT**

24 hrs - midnight to midnight

DATE 07/08/07	WELL Wolverine Federal 17-8	CONTRACTOR SST #68	COUNTY, STATE Sevier, UT	SPUD DATE 6/28/07	API# 43-041-30047	SUPERVISOR Darren Naylor	
DAYS F/ SPUD 11	PRESENT OPERATIONS @ 2400 Hour Drilling	TOTAL DEPTH 2,992	PROGRESS 424	DRILLING TIME 13.50	ROP 31.4	TD FORMATION Kaibab	AUTH. DEPTH 14,500

**MUD DATA**

DATE/TIME	DEPTH	WT	VIS	PV	YP	GELS	FILTRATE	CAKE/32	SOLIDS	SAND	PH	CHLORIDES	SALT	CALC	LCM
7/8/7:30am	2807	10.4	32	5	10	7/9	r/c	2	3.00	tr	10.0	195,000	321,750	2100	

**BIT DATA**

BIT NO.	SIZE	MFG.	TYPE	IADC CODE	SERIAL NO.	JETS (1/32nd") or TFA			IN	OUT	FOOTAGE	HOURS	ROP	MTR	RPM RT-MTR	WOB	DULL CONDITION			
																	T	B	G	
4	12.250	RTC	HP51A	447	HP5745	28	28	28		1915	1985	70	3.00	23.3	n	60	25	1	1	1
5	12.250	RTC	HP51A	447	HP5745	28	28	28		1985		1007	34.50	29.2	Y	0/110	30			
														#DIV/0!						
														#DIV/0!						

**HYDRAULICS**

**SLOW PUMP PSI**

PUMP NO.	MANUFACTURER	LINER	STROKE LENGTH	GAL / STK 100%	SPM	GPM	AV DP	AV DC	PUMP PRESS.	MOTOR DIFF PSI	HHP/IN2	ECD	DEPTH	SPM
1	National 10P130	6.0	10	3.5	110	385							1	
2	National 10P130	6.0	10	3.5	110	385							2	
3					0								3	
<b>CONFIDENTIAL REPORT</b>														
					770		143	166/204	1950	200	75.6/614	10.65		

**DRILL STRING**

**GEOLOGIC**

**GENERAL INFO**

BOTTOM HOLE ASSEMBLY#	7	LENGTH	O.D.	I.D.	FORMATION	MD	TVD	LITHO LOGY	RIG INFO		
bit		1.50	12.250	NP	Arapiean				Co Man 435-979-2202		
Vertitak motor w/filter su		38.91	9.500	np					Mudlogger		
xo, fs, 11 1/2' stabilizer		11.84	8.000	2.94					Toolpusher		
Shock sub		9.93	8.000	2.56					Last BOP Test 7/5		
6 - 8" DC / XO sub		180.57	8.000	2.94					Next BOP Test 8/4		
4 - 6 1/2" DC		115.89	6.500	2.75					Last Safety Meeting 7/8		
Jar		32.64	6.500	2.75					Last BOP Drill		
2 - 6 1/2" DC		56.30	6.500	2.75					Last Operate Pipe Ra 7/5		
2 - 5" HWDP		61.21	5.000	3.19					Last Operate Blind Ra 7/5		
<b>TOTAL</b>		<b>508.79</b>							Last Operate Annular 7/5		
STRING WT.	BHA WT.	PU WT.	SO WT.	ROT. TORQUE	GRD. ELEVATION	GL TO KB	KB ELEVATION	SURF CSG	INT CASING 1	INT CASING 2	PROD CSG
115	55	120	110		5,793	26	5,818	1,915	(7000)		(14500)

**SURVEYS**

MD	INCL.	AZIMUTH	TVD	N+S-	E+ / W-	SECTION	DLS	TOOL	MD	INCL.	AZIMUTH	TVD	N+S-	E+ / W-	SECTION	DLS	TOOL

**DAILY ACTIVITY**

FROM	TO	HRS	LAST 24 HOURS:
0:00	0:30	0.50	Repair mud line, discharge off pumps.
0:30	13:30	13.00	Drill & survey 2568 to 2971
13:30	23:30	10.00	Repair mud line, where mud line turns from sub up to floor. Replaced T union & 2' mud line.
23:30	0:00	0.50	Drill & survey 2971 to 2992
0:00			
0:00			
0:00			
0:00			
0:00			
0:00			Have replaced all visible & most critical turns in mud line.
0:00			We are making preparations to replace entire mud line including stand pipe.
0:00			
0:00			
0:00			
0:00			
0:00			
0:00			
0:00			
Daily Total	24.00		

SEE ATTACHED COST DETAIL PAGE FOR ESTIMATED DRY HOLE COSTS





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

**DAILY DRILLING REPORT**

24 hrs - midnight to midnight

DATE 07/05/07	WELL Wolverine Federal 17-8	CONTRACTOR SST #68	COUNTY, STATE Sevier, UT	SPUD DATE 6/28/07	API# 43-041-30047	SUPERVISOR Darren Naylor	
DAYS F/ SPUD 8	PRESENT OPERATIONS @ 2400 Hour Trip to PU vertittrak	TOTAL DEPTH 1,985	PROGRESS 70	DRILLING TIME 3.00	ROP 23.3	TD FORMATION Kaibab	AUTH. DEPTH 14,500

**MUD DATA**

DATE/TIME	DEPTH	WT	VIS	PV	YP	GELS	FILTRATE	CAKE/32	SOLIDS	SAND	PH	CHLORIDES	SALT	CALC	LCM
7/5/08:00	1915	10.2	34	6	7	4/6	n/c	2	1.50	0	6.8	200,000	330,000	2450	

**BIT DATA**

BIT NO.	SIZE	MFG.	TYPE	IADC CODE	SERIAL NO.	JETS (1/32nd" or TFA)						IN	OUT	FOOTAGE	HOURS	ROP	MTR	RPM RT+MTR	WOB	DULL CONDITION		
						28	28	28														T
4	12.250	RTC	HP51A	447	HP5745							1915	1985	70	3.00	23.3	n	60	25			
																#DIV/0!						
																#DIV/0!						
																#DIV/0!						

**HYDRAULICS**

**SLOW PUMP PSI**

PUMP NO.	MANUFACTURER	LINER	STROKE LENGTH	GAL / STK 100%	SPM	GPM	AV DP	AV DC	PUMP PRESS.	MOTOR DIFF PSI	HHP/IN2	ECD	DEPTH	SPM
1	National 10P130	6.0	10	3.5	100	350						10.9	1	
2	National 10P130	6.0	10	3.5	100	350							2	
3					0								3	

**CONFIDENTIAL REPORT**

**DRILL STRING**

**GEOLOGIC**

**GENERAL INFO**

BOTTOM HOLE ASSEMBLY#	LENGTH	O.D.	I.D.	FORMATION	MD	TVD	LITHO LOGY	RIG INFO			
5	1.50	12.250	NP	Arapiean				Co Man	435-979-2202		
bit	3.01	8.000	np					Mudlogger			
6 - 8" DC	177.52	8.000	2.94					Toolpusher			
XO	3.09	7.500	2.88					Last BOP Test	7/5		
6 - 6 1/2" DC	174.19	6.563	2.75					Next BOP Test	8/4		
2 - 5" HWDP	61.21	5.000	3.19					Last Safety Meeting	7/5		
								Last BOP Drill			
								Last Operate Pipe Ra	7/5		
								Last Operate Blind Ra	7/5		
								Last Operate Annular	7/5		
TOTAL	420.52										
STRING WT.	BHA WT.	PU WT.	SD WT.	ROT. TORQUE	GRD. ELEVATION	GL TO KB	KB ELEVATION	SURF CSG	INT CASING 1	INT CASING 2	PROD CSG
100	50	102	98	700	5,793	26	5,818	(1915)	(7000)		(14500)

**SURVEYS**

MD	INCL.	AZIMUTH	TVD	N+S-	E+ / W-	SECTION	DLS	TOOL	MD	INCL.	AZIMUTH	TVD	N+S-	E+ / W-	SECTION	DLS	TOOL

**DAILY ACTIVITY**

FROM	TO	HRS	LAST 24 HOURS:
0:00	5:00	5.00	NU BOPE
5:00			Test blind rams-both sets 5" pipe rams-choke manifold-super choke-adjustable choke-hcr valve-choke line
0:00			Manual choke line valve-kill line valve-check valve-floor safety valve-top drive valve
0:00			all tested @ 200 psi for 5 min. & 5000 psi for 10 min. all tested good
0:00			Test annular to 2500 psi for 10 min.-tested 13-3/8" casing to 1500 psi for 30 min.-both held good
0:00	12:00	7.00	Tested accumulator & accumulator bottles had 1025-1150 psi on precharge both good
12:00	16:00	4.00	Re fab spool between annular & rotating head, refab flow line to fit with skid system.
16:00	18:00	2.00	PU new bit #3 TIH tag @ 1870
18:00	19:00	1.00	Drill cement & shoe.
19:00	19:30	0.50	Drill 10' new hole, formation integrity test to 10.5 ppg. EMW.
19:30	22:30	3.00	Drill 1925 to 1985
22:30	0:00	1.50	POOH to PU vertittrak system.
0:00			
0:00			
0:00			
0:00			
0:00			This am drilling @ 2100
0:00			
0:00			
Daily Total		24.00	

SEE ATTACHED COST DETAIL PAGE FOR ESTIMATED DRY HOLE COSTS

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

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

**SUNDRY NOTICES AND REPORTS ON WELLS**

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

5. Lease Serial No.  
**UTU-73528**

6. If Indian, Allottee or Tribe Name  
N/A

7. If Unit or CA/Agreement, Name and/or No.  
**Wolverine Fed Exploration Unit**

8. Well Name and No.  
**Wolverine Federal 17-8**

9. API Well No.  
**4304130047**

10. Field and Pool, or Exploratory Area  
**Covenant Field**

11. County or Parish, State  
**Sevier Co, UT**

**SUBMIT IN TRIPLICATE- Other instructions on reverse side.**

1. Type of Well  Oil Well  Gas Well  Other

2. Name of Operator **Wolverine Gas & Oil Company of Utah, LLC**

3a. Address **One Riverfront Plaza, 55 Campau NW, Grand Rapids, MI** 3b. Phone No. (include area code) **616-458-1150**

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)  
**Surface hole location - 2020' FSL & 1610' FWL, NE/4 SW/4 Section 17, T23S, R1W**  
**Bottom hole location - 2020' FSL & 1610' FWL, NE/4 SW/4 Section 17, T23S, R1W**

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

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

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

**Given:** APD provides for 9-5/8" intermediate casing set depth of 10,600'

**Request:** Alter intermediate casing set depth from 10,600' to approx 7000' to protect prospective Navajo Sand from potentially damaging drill fluids while drilling below 7000'.

**Plan:** Run 9-5/8" 47ppf HCP-110 LTC (same wt & grd as present APD) from drilled TD of approx 7000' to surface with stage tool placed at approx 5600'. Raise cement from TD to approx 5600' in stage 1 using 550 sx 50/50 POZ (25% excess, 14.3ppg, 1.28 cfps) and from 5600' to 1000' in stage 2 using 180 sx CBM Light III (25% excess, 10.5 ppg, 4.29 cfps) and 790 sx Premium (25% excess, 15.8ppg, 1.29 cfps). Drill 8-1/2" hole from approx 7000' to a projected total depth of 14,500' and run a 5-1/2" casing liner.

Expect open-hole logging operations July 22 and casing and cementing operations July 23, 2007.

xc: UDOGM

COPY SENT TO OPERATOR  
Date: 7/22/07  
Initials: CHO

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

Steven R Hash

Title Consulting Engineer - EXACT Engineering Inc

Signature

*Steven R. Hash*

Date

07/20/2007

THIS SPACE FOR FEDERAL OR STATE AGENCY USE

Approved by

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

Title

Oil, Gas and Mining

Date

Office

*AS 10/7*  
*[Signature]*

Federal Approval Of This  
Action Is Necessary

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

(Instructions on page 2)

RECEIVED

JUL 25 2007

CONFIDENTIAL

DIV. OF OIL, GAS & MINING

## **EXACT Engineering, Inc.**

www.exactengineering.com

415 S. Boston Ave., Suite 734, Tulsa, OK 74103 • (918) 599-9400 • (918) 599-9401 (fax)

Steven R. Hash, P.E.  
Registered Professional Engineer  
stevehash@exactengineering.com

July 30, 2007

Mr. Al McKee  
Bureau of Land Management  
Utah State Office  
P.O. Box 45155  
Salt Lake City, UT 84145-0155

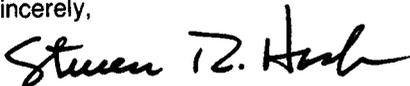
✓ Mr. Dustin Doucet  
Utah Division of Oil, Gas & Mining  
1594 West North Temple, Suite 1210  
Salt Lake City, UT 84114-5801

Re: Drilling Update #3 - **Wolverine Federal 17-8**  
Sec 17 T23S R01W  
Sevier Co, UT  
API# 43-041-30047

Gentlemen,

On behalf of Wolverine Gas and Oil Company of Utah, LLC, please find enclosed daily drilling reports for the subject well from July 20, 2007 through July 30, 2007. We set and cemented 9-5/8" casing at 6985 feet on July 26, 2007 and are presently drilling 8-1/2" hole at 7849 feet. Our Sundry Report of 9-5/8" Casing and Cementing operations is enclosed. We respectfully request that the enclosed information remain confidential.

Sincerely,



Steven R. Hash, P.E.

Enclosures

copy without enclosures via email to:  
Wolverine Gas & Oil Co of Utah, LLC: Helene Bardolph  
EXACT Engineering, Inc. well file

Petroleum Engineering Consulting, Personnel & Jobsite Supervision  
complete well design, construction & management, drilling, completion, production, pipelines, appraisals,  
due diligence, acquisitions, procedures, temporary personnel and field supervision

Operator: Wolverine Gas & Oil Co of Utah, LLC

**DAILY DRILLING REPORT**

24 hrs - midnight to midnight

DATE 07/20/07	WELL Wolverine Federal 17-8	CONTRACTOR SST #68	COUNTY, STATE Sevier, UT	SPUD DATE 6/28/07	API# 43-041-30047	SUPERVISOR DL Naylor
DAYS F/ SPUD 23	PRESENT OPERATIONS @ 2400 Hour Drilling	TOTAL DEPTH 6,557	PROGRESS 85	DRILLING TIME 7.50	ROP 11.3	TD FORMATION Kaibab
						AUTH. DEPTH 14,500

**MUD DATA**

DATE/TIME	DEPTH	WT	VIS	PV	YP	GELS	FILTRATE	CAKE/32	SOLIDS	SAND	PH	CHLORIDES	SALT	CALC	LCM
7/20/7:30am	6520	10.7	39	13	10	8/12	8.0	2	5.00	tr	10.0	200,000	330,000	1650	0

**BIT DATA**

BIT NO.	SIZE	MFG.	TYPE	IADC CODE	SERIAL NO.	JETS (1/32nd" or TFA)				IN	OUT	FOOTAGE	HOURS	ROP	MTR	RPM	WOB	DULL CONDITION		
						T	B	G												
6	12.250	Reed	M4249POH	537	WP6106	28	28	28		5469	6125	597	41.50	14.4	Y	0/110	38-45	8	E	I
7	12.250	Smith	F670DCPS	647	PC3896	28	28	28		6125	6520	395	32.00	12.3	Y	0/110	38-50	6	E	I
8	12.250	Smith	F670DCR	647Y	PD2641	28	28	28		6520		37	3.50	10.6	Y	0/110	38-50			

**HYDRAULICS**

**SLOW PUMP PSI**

PUMP NO.	MANUFACTURER	LINER	STROKE LENGTH	GAL / STK 100%	SPM	GPM	AV DP	AV DC	PUMP PRESS.	MOTOR DIFF. PSI	HHP/IN2	ECD	DEPTH	6510	SPM	35
1	National 10P130	6.0	10	3.5	90	315							1	420		
2	National 10P130	6.0	10	3.5	90	315							2	420		
3					0								3			
					150	630	123	143/175	2800	250	0.22	10.85				

**CONFIDENTIAL REPORT**

**DRILL STRING**

**GEOLOGIC**

**GENERAL INFO**

BOTTOM HOLE ASSEMBLY#	LENGTH	O.D.	I.D.	FORMATION	MD	TVD	LITHOLOGY	RIG INFO			
bit	1.50	12.250	NP	Arapian	4,050	4,050	ss, sh, lime, anhd.	Co Man 435-979-2202			
Vertitak motor w/filter sub	38.63	9.500	np	Twin Creek	5,611	5,611		Mudlogger			
xo, fs, 11 3/4' stabilizer	11.84	8.000	2.94	Navajo	5,901	5,901	ss	Toolpusher			
Shock sub	9.93	8.000	2.56	GAS DATA							
6 - 8" DC / XO sub	180.57	8.000	2.94	BOTTOMS UP TIME	BG GAS	CONN GAS	TRIP GAS				
10 - 6 1/2" DC	300.88	6.500	2.75	56.5	6	25	na				
Jar	32.64	6.500	2.75	SHOWS							
2 - 6 1/2" DC	58.30	6.500	2.75	GAS UNITS	FROM	TO	ROP (FT/HR)				
2 - 5" HWDP	61.21	5.000	3.19								
<b>TOTAL</b>	<b>695.50</b>							Last BOP Test 7/5			
STRING WT.	BHA WT.	PU WT.	SO WT.	ROT. TORQUE	GRD. ELEVATION	GL TO KB	KB ELEVATION	SURF CSG	INT CASING 1	INT CASING 2	PROD CSG
202	74,900	214	198	0	5,793	26	5,819	1,915	(7000)		(14500)

**SURVEYS**

MD	INCL	AZIMUTH	TVD	N+S-	E+ / W-	SECTION	DLS	TOOL	MD	INCL	AZIMUTH	TVD	N+S-	E+ / W-	SECTION	DLS	TOOL

**DAILY ACTIVITY**

FROM	TO	HRS	LAST 24 HOURS:
0:00	4:00	4.00	Drill & survey 6472 to 6520, ROP slowed to 5' hr. differential increased 100 psi.
4:00	6:00	2.00	Circ. Close pads on vertitak, pump pill
6:00	7:00	1.00	POOH to 4900
7:00	7:30	0.50	Rig Service, change slip dies
7:30	9:30	2.00	POOH close blind rams
9:30	11:00	1.50	Change bit, check vertitak, clean filtersub, operate pipe & blind rams, funtion test annular
11:00	15:00	4.00	TIH to 5900 took 30k down wt. 50k overpull, pooh to 5800
15:00	20:30	5.50	W&R 5800 to btm. Taking 2-5 wt. & torque @ 800-1100 psi
20:30	0:00	3.50	Drill & survey 6520 to 6557
0:00			
0:00			
0:00			
0:00			Hole took 80 bbls. While washing to btm. & is taking 15 bbl/hr.
0:00			pumping 15 ppbl. Calcium carbinat 80 bbl sweeps
0:00			
0:00			
0:00			06:00 drilling @ 6630
0:00			
Daily Total		24.00	

SEE ATTACHED COST DETAIL PAGE FOR ESTIMATED DRY HOLE COSTS



Operator: Wolverine Gas & Oil Co of Utah, LLC

**DAILY DRILLING REPORT**

24 hrs - midnight to midnight

DATE 07/22/07	WELL Wolverine Federal 17-8	CONTRACTOR SST #68	COUNTY, STATE Sevier, UT	SPUD DATE 6/28/07	API# 43-041-30047	SUPERVISOR DL Naylor	
DAYS F/ SPUD 25	PRESENT OPERATIONS @ 2400 Hour Circ. & condition for logs	TOTAL DEPTH 7,003	PROGRESS 158	DRILLING TIME 9.50	ROP 16.6	TD FORMATION Kaibab	AUTH. DEPTH 14,500

**MUD DATA**

DATE/TIME	DEPTH	WT	VIS	PV	YP	GELS	FILTRATE	CAKE/32	SOLIDS	SAND	PH	CHLORIDES	SALT	CALC	LCM
7/22/7:30am	6966	10.7	41	13	12	9/13	7.0	2	5.25	1	10.4	200,000	330,000	1650	0

**BIT DATA**

BIT NO.	SIZE	MFG.	TYPE	IADC CODE	SERIAL NO.	JETS (1/32nd" or TFA)				IN	OUT	FOOTAGE	HOURS	ROP	MTR	RPM	WOB	DULL CONDITION		
																		T	B	G
6	12.250	Reed	M4249POH	537	WP6106	28	28	28		5469	6125	597	41.50	14.4	Y	0/110	38-45	8	E	I
7	12.250	Smith	F670DCPS	647	PC3896	28	28	28		6125	6520	395	32.00	12.3	Y	0/110	38-50	6	E	I
8	12.250	Smith	F670DCR	647Y	PD2641	28	28	28		6520	7003	483	33.00	14.6	Y	0/110	38-50	6	E	I

**HYDRAULICS**

**SLOW PUMP PSI**

PUMP NO.	MANUFACTURER	LINER	STROKE LENGTH	GAL / STK 100%	SPM	GPM	AV DP	AV DC	PUMP PRESS.	MOTOR DIFF PSI	HHP/IN2	ECD	DEPTH	6510
1	National 10P130	6.0	10	3.5	80	280							1	420
2	National 10P130	6.0	10	3.5	80	280							2	420
3					0								3	

**CONFIDENTIAL REPORT**

**DRILL STRING**

**GEOLOGIC**

**GENERAL INFO**

BOTTOM HOLE ASSEMBLY#	LENGTH	O.D.	I.D.	FORMATION	MD	TVD	LITHOLOGY	RIG INFO			
bit	1.50	12.250	NP	Arapian	4,050	4,050	ss, sh, lime, anhd.	Co Man 435-979-2202			
Bit sub	2.98	7.875	2.94	Twin Creek	5,611	5,611		Mudlogger			
6 - 8" DC	177.48	8.000	2.94	Navajo	5,901	5,901	ss,90%,anhd,10%	Toolpusher			
XO sub	3.09	8.000	2.94	GAS DATA				Last BOP Test 7/5			
				BOTTOMS UP TIME	BG GAS	CONN GAS	TRIP GAS	Next BOP Test 8/4			
				75.7	30	38	44	Last Safety Meeting 7/22			
10 - 6 1/2" DC	300.88	6.500	2.75	SHOWS				Last BOP Drill 7/22			
Jar	32.64	6.500	2.75	GAS UNITS	FROM	TO	ROP (FT/HR)	Last Operate Pipe Ra 7/22			
2 - 6 1/2" DC	58.30	6.500	2.75					Last Operate Blind Ra 7/22			
2 - 5" HWDP	61.21	5.000	3.19					Last Operate Annular 7/22			
<b>TOTAL</b>	<b>638.08</b>										
STRING WT.	BHA WT.	PU WT.	SO WT.	ROT. TORQUE	GRD. ELEVATION	GL TO KB	KB ELEVATION	SURF CSG	INT CASING 1	INT CASING 2	PROD CSG
200	67	210	195	0	5,793	26	5,819	1,915	(7000)		(14500)

**SURVEYS**

MD	INCL	AZIMUTH	TVD	N+S-	E+ / W-	SECTION	DLS	TOOL	MD	INCL	AZIMUTH	TVD	N+S-	E+ / W-	SECTION	DLS	TOOL

**DAILY ACTIVITY**

FROM	TO	HRS	LAST 24 HOURS:
0:00	9:30	9.50	Drill & survey 6845 to 7003, losses minimal 2-3 bbl/hr. ROP went from 5.9'hr @ 6999 to 14.4'hr @ 7003 where
9:30	11:00		Lost 100% returns. Spot 50 bbl. 6ppbl. Ancosorb (diametric polemer) pill on btm. Had 0 returns until 90 % of displacement gone, then appr. 50% returns, pumping @ reduced rate of 8.33 bpm.
11:00	11:00	1.50	
11:00	12:00	1.00	POOH to 5900, hole drag normal.
12:00	12:30	0.50	Circ. Clear pipe 90% returns, fluid level fell 30' after pumps stopped.
12:30	15:00	2.50	POOH . Hole took 15 bbl. More than calculated fill volume.( 71 bbl )
15:00	18:00	3.00	LD verttrak, filter sub, stabilizer & float sub. Hole stayed full.
18:00	19:00	1.00	Make up bit & bit sub w/float, TIH to shoe.
19:00	20:30	1.50	Slip & cut 150' drlg line.
20:30	0:00	3.50	TIH breaking circ. Every 2000' TIH to 6990 took 10k wt. pull up to 6960 circ. 100% returns no losses
0:00			Circ. w/ full rate (17.8 bpm) no losses.
0:00			
0:00			Lost a total of 360 bbl. Last 24 hrs. 315 bbls. While pumping & displacing LCM.
0:00			
0:00			
0:00			
0:00			
0:00			07:00 logging truck on location RU loggers.
0:00			
Daily Total		24.00	

SEE ATTACHED COST DETAIL PAGE FOR ESTIMATED DRY HOLE COSTS



Operator: Wolverine Gas & Oil Co of Utah, LLC

DAILY DRILLING REPORT

24 hrs - midnight to midnight

Table with 8 columns: DATE, WELL, CONTRACTOR, COUNTY, STATE, SPUD DATE, API#, SUPERVISOR, DAYS F/ SPUD, PRESENT OPERATIONS @ 2400 Hour, TOTAL DEPTH, PROGRESS, DRILLING TIME, ROP, TD FORMATION, AUTH. DEPTH

MUD DATA

Table with 15 columns: DATE/TIME, DEPTH, WT, VIS, PV, YP, GELS, FILTRATE, CAKE/32, SOLIDS, SAND, PH, CHLORIDES, SALT, CALC, LCM

BIT DATA

Table with 15 columns: BIT NO., SIZE, MFG., TYPE, IADC CODE, SERIAL NO., JETS (1/32nd) or TFA, IN, OUT, FOOTAGE, HOURS, ROP, MTR, RPM, WOB, DULL CONDITION

HYDRAULICS

SLOW PUMP PSI

Table with 15 columns: PUMP NO., MANUFACTURER, LINER, STROKE LENGTH, GAL / STK 100%, SPM, GPM, AV DP, AV DC, PUMP PRESS., MOTOR DIFF PSI, HHP/IN2, ECD, DEPTH, SPM

CONFIDENTIAL REPORT

DRILL STRING

GEOLOGIC

GENERAL INFO

Table with 12 columns: BOTTOM HOLE ASSEMBLY#, LENGTH, O.D., I.D., FORMATION, MD, TVD, LITHO LOGY, RIG INFO, GAS DATA, SHOWS, ROP (FT/HR)

SURVEYS

Table with 17 columns: MD, INCL, AZIMUTH, TVD, N/S, E+/W-, SECTION, DLS, TOOL

DAILY ACTIVITY

Table with 4 columns: FROM, TO, HRS, LAST 24 HOURS

SEE ATTACHED COST DETAIL PAGE FOR ESTIMATED DRY HOLE COSTS



Operator: Wolverine Gas & Oil Co of Utah, LLC

DAILY DRILLING REPORT

24 hrs - midnight to midnight

Table with 8 columns: DATE, WELL, CONTRACTOR, COUNTY, STATE, SPUD DATE, API#, SUPERVISOR. Values include 07/26/07, Wolverine Federal 17-8, SST #68, Sevier, UT, 6/28/07, 43-041-30047, DL Naylor.

Table with 8 columns: DAYS F/ SPUD, PRESENT OPERATIONS @ 2400 Hour, TOTAL DEPTH, PROGRESS, DRILLING TIME, ROP, TD FORMATION, AUTH. DEPTH. Values include 29, TIH, 7,003, 0, 0.00, #DIV/0!, Kaibab, 14,500.

MUD DATA

Table with 16 columns: DATE/TIME, DEPTH, WT, VIS, PV, YP, GELS, FILTRATE, CAKE/32, SOLIDS, SAND, PH, CHLORIDES, SALT, CALC, LCM. Values include 7/26/8:45am, 7003, 10.5, 37, 11, 10, 8/12, 7.0, 2, 5.00, tr, 10.2, 200,000, 330,000, 1650, 0.

BIT DATA

Table with 16 columns: BIT NO., SIZE, MFG., TYPE, IADC CODE, SERIAL NO., JETS (1/32nd" or TFA), IN, OUT, FOOTAGE, HOURS, ROP, MTR, RPM, WOB, DULL CONDITION. Values include 9, 8.500, RTC, TD74PDH, 747, DH1621, 16, 16, 16, 7003, #DIV/0!.

HYDRAULICS

SLOW PUMP PSI

Table with 14 columns: PUMP NO., MANUFACTURER, LINER, STROKE LENGTH, GAL / STK 100%, SPM, GPM, AV DP, AV DC, PUMP PRESS., MOTOR DIFF PSI, HHP/IN2, ECD, DEPTH SPM. Includes 'CONFIDENTIAL REPORT' watermark.

DRILL STRING

GEOLOGIC

GENERAL INFO

Table with 12 columns: BOTTOM HOLE ASSEMBLY#, LENGTH, O.D., I.D., FORMATION, MD, TVD, LITHO LOGY, RIG INFO. Includes details for 8 1/2" bit, 25-SWDP, 4-SWDP, and various logs.

SURVEYS

Table with 16 columns: MD, INCL, AZIMUTH, TVD, N+S, E+W, SECTION, DLS, TOOL. Survey data table.

DAILY ACTIVITY

Table with 4 columns: FROM, TO, HRS, LAST 24 HOURS. Log of activities from 0:00 to 24:00, including pump operations and drilling progress.

SEE ATTACHED COST DETAIL PAGE FOR ESTIMATED DRY HOLE COSTS

Operator: Wolverine Gas & Oil Co of Utah, LLC

**DAILY DRILLING REPORT**

24 hrs - midnight to midnight

DATE 07/27/07	WELL Wolverine Federal 17-8	CONTRACTOR SST #68	COUNTY, STATE Sevier, UT	SPUD DATE 6/28/07	API# 43-041-30047	SUPERVISOR DL Naylor	
DAYS F/ SPUD 30	PRESENT OPERATIONS @ 2400 Hour POOH to PU vertittrak	TOTAL DEPTH 7,051	PROGRESS 48	DRILLING TIME 2.00	ROP 24.0	TD FORMATION Kaibab	AUTH. DEPTH 14,500

**MUD DATA**

DATE/TIME	DEPTH	WT	VIS	PV	YP	GELS	FILTRATE	CAKE/32	SOLIDS	SAND	PH	CHLORIDES	SALT	CALC	LCM
7/27/6:pm	7003	8.4	30												

**BIT DATA**

BIT NO.	SIZE	MFG.	TYPE	IADC CODE	SERIAL NO.	JETS (1/32nd") or TFA			IN	OUT	FOOTAGE	HOURS	ROP	MTR	RPM	WOB	DULL CONDITION				
																	T	B	G		
9	8.500	RTC	TD74PDH	747	DH1621	16	16	16			7003		48	2.00	24.0	N	60	30			
															#DIV/0!						
															#DIV/0!						
															#DIV/0!						

**HYDRAULICS**

**SLOW PUMP PSI**

PUMP NO.	MANUFACTURER	LINER	STROKE LENGTH	GAL / STK 100%	SPM	GPM	AV DP	AV DC	PUMP PRESS.	MOTOR DIFF PSI	HHP/IN2	ECD	DEPTH	SPM
1	National 10P130	6.0	10	3.5	0	0							1	
2	National 10P130	6.0	10	3.5	0	0							2	
3					0	0							3	
<b>CONFIDENTIAL REPORT</b>														

**DRILL STRING**

**GEOLOGIC**

**GENERAL INFO**

BOTTOM HOLE ASSEMBLY#	LENGTH	O.D.	I.D.	FORMATION	MD	TVD	LITHO LOGY	RIG INFO			
8 1/2" bit	1.00	8.500		Navajo	5,901	5,901	SS	Co Man	435-979-2202		
Bit sub	3.53	6.625	2.88					Mudlogger			
25 - SWDP	767.91	5.000	3.00					Toolpusher			
Jar	32.53	6.500	2.75					Last BOP Test	7/5		
4 - SWDP	123.28	5.000	3.00					Next BOP Test	8/4		
								Last Safety Meeting	7/27		
								Last BOP Drill	7/27		
								Last Operate Pipe Ra	7/27		
								Last Operate Blind Ra	7/26		
								Last Operate Annular	7/26		
<b>TOTAL</b>	<b>928.25</b>										
STRING WT.	BHA WT.	PU WT.	SO WT.	ROT. TORQUE	GRD. ELEVATION	GL TO KB	KB ELEVATION	SURF CSG	INT CASING 1	INT CASING 2	PROD CSG
170	50	175	165	900	5,793	26	5,819	1,915	6,985		(14500)

**SURVEYS**

MD	INCL	AZIMUTH	TVD	N+S-	E+ / W-	SECTION	DLS	TOOL	MD	INCL	AZIMUTH	TVD	N+S-	E+ / W-	SECTION	DLS	TOOL	

**DAILY ACTIVITY**

FROM	TO	HRS	LAST 24 HOURS:
0:00	2:30	2.50	TIH, picking up 5" spiral wt. DP
2:30	3:00	0.50	Drill thru stage tool
3:00	4:30	1.50	TIH to plugs on float collar
4:30	8:00	3.50	Drill plugs, float collar & 80' cement to 6975
8:00	9:00	1.00	Circ plugs & rubber out of hole. Held bop drill.
9:00	18:30	9.50	Dump & clean mud tanks, fill w/ fresh water, displace salt mud in hole, mud up to 30 vis.
18:30	19:00	0.50	Drill 10' cement, clean out rat hole, FIT to 9.0 emw.
19:00	21:00	2.00	Drill 7003 to 7051
21:00	22:00	1.00	Circ & condition, starting to get good mud around.
22:00	0:00	2.00	POOH to pu vertittrak
0:00			
0:00			
0:00			
0:00			
0:00			
0:00			
0:00			6am on btm. Starting to drill w/ vertittrak
0:00			
0:00			
Daily Total		24.00	

SEE ATTACHED COST DETAIL PAGE FOR ESTIMATED DRY HOLE COSTS

Operator: Wolverine Gas & Oil Co of Utah, LLC

**DAILY DRILLING REPORT**

24 hrs - midnight to midnight

DATE 07/28/07	WELL Wolverine Federal 17-8	CONTRACTOR SST #68	COUNTY, STATE Sevier, UT	SPUD DATE 6/28/07	API# 43-041-30047	SUPERVISOR DL Naylor	
DAYS F/SPUD 31	PRESENT OPERATIONS @ 2400 Hour Drilling	TOTAL DEPTH 7,390	PROGRESS 339	DRILLING TIME 18.00	ROP 18.8	TD FORMATION Kaibab	AUTH. DEPTH 14,500

**MUD DATA**

DATE/TIME	DEPTH	WT	VIS	PV	YP	GELS	FILTRATE	CAKE/32	SOLIDS	SAND	PH	CHLORIDES	SALT	CALC	LCM
7/28/08:00	7088	8.4+	39	9	9	6/9	12.0	1	1.00	tr	10.8	11,000	18,150	160	

**BIT DATA**

BIT NO.	SIZE	MFG.	TYPE	IADC CODE	SERIAL NO.	JETS (1/32nd)			IN	OUT	FOOTAGE	HOURS	ROP	MTR	RPM	WOB	DULL CONDITION				
						RT	T	B									G				
9	8.500	RTC	TD74PDH	747	DH1621	16	16	16			7003	7051	48	2.00	24.0	N	60	30	1	1	1
RR9	8.500	RTC	TD74PDH	747	DH1621	16	16	16			7051		339	18.00	18.8	Y	85	35			

**HYDRAULICS**

**SLOW PUMP PSI**

PUMP NO.	MANUFACTURER	LINER	STROKE LENGTH	GAL / STK 100%	SPM	GPM	AV DP	AV DC	PUMP PRESS.	MOTOR DIFF PSI	HHP/IN2	ECD	DEPTH	7250	SPM	65
1	National 10P130	6.0	10	3.5	120	420									1	750
2	National 10P130	6.0	10	3.5	0	0									2	
3					0	0									3	
					420	420	217	357	1300	100	1.58	8.71				

**CONFIDENTIAL REPORT**

**DRILL STRING**

**GEOLOGIC**

**GENERAL INFO**

BOTTOM HOLE ASSEMBLY#	LENGTH	O.D.	I.D.	FORMATION	MD	TVD	LITHOLOGY	RIG INFO			
8 1/2" bit	1.00	8.500		Navajo	5,901	5,901	SS	Co Man 435-979-2202			
VertiTrak(motor)	30.78	7.063	np	Kayenta	7,135	7,135		Mudlogger			
Float sub	3.49	5.000	np	Wingate	7,254	7,254		Toolpusher			
Filter sub	5.55	6.500	2.94	GAS DATA				Last BOP Test 7/5			
Xo	1.85	5.000	2.25	BOTTOMS UP TIME	BG GAS	CONN GAS	TRIP GAS	Next BOP Test 8/4			
8 1/4 stab. / Xo	7.96	6.500	2.81	41	19	20	208	Last Safety Meeting 7/28			
25 - SWDP	767.91	5.000	3.00	SHOWS				Last BOP Drill 7/27			
Jar	32.53	6.500	2.75	GAS UNITS	FROM	TO	ROP (FT/HR)	Last Operate Pipe Ra 7/27			
4 - SWDP	123.28	5.000	3.00					Last Operate Blind Ra 7/26			
<b>TOTAL</b>	<b>974.35</b>							Last Operate Annular 7/26			
STRING WT.	BHA WT.	PU WT.	SO WT.	ROT. TORQUE	GRD. ELEVATION	GL TO KB	KB ELEVATION	SURF CSG	INT CASING 1	INT CASING 2	PROD CSG
196	55	205	195		5,793	26	5,819	1,915	6,985		(14500)

**SURVEYS**

MD	INCL.	AZIMUTH	TVD	N+S-	E+ / W-	SECTION	DLS	TOOL	MD	INCL.	AZIMUTH	TVD	N+S-	E+ / W-	SECTION	DLS	TOOL	

**DAILY ACTIVITY**

FROM	TO	HRS	LAST 24 HOURS:
0:00	0:30	0.50	POOH
0:30	1:00	0.50	Rig service, replace tong torque sensor
1:00	2:00	1.00	PU vertitrak assembly
2:00	5:00	3.00	TIH
5:00	6:00	1.00	Circ. Surv. Wash 50' to btm.
6:00	0:00	18.00	Drill & survey 7051 to 7390
0:00			
0:00			Detected some seepage @ 7220, 4-6 bblhr. Started sifting nutplug & mica, 10 sks. Hr.
0:00			7325 losses increased to 15-20 bblhr. Mix & pump 60 bbl. LCM 20 nutplug, 10 mica
0:00			Losses minimal 1-2 bblhr. Continue sifting nutplug & mica 5 sks. Hr each.
0:00			Total losses last 24 hrs. 120 bbls.
0:00			
0:00			
0:00			
0:00			
0:00			6am drilling @ 7493
0:00			
0:00			
Daily Total		24.00	

SEE ATTACHED COST DETAIL PAGE FOR ESTIMATED DRY HOLE COSTS

Operator: Wolverine Gas & Oil Co of Utah, LLC

**DAILY DRILLING REPORT**

24 hrs - midnight to midnight

DATE 07/29/07	WELL Wolverine Federal 17-8	CONTRACTOR SST #68	COUNTY, STATE Sevier, UT	SPUD DATE 6/28/07	API# 43-041-30047	SUPERVISOR DL Naylor
DAYS F/ SPUD 32	PRESENT OPERATIONS @ 2400 Hour TIH w/ bit #10	TOTAL DEPTH 7,651	PROGRESS 261	DRILLING TIME 16.50	ROP 15.8	TD FORMATION Kaibab
			AUTH. DEPTH 14,500			

**MUD DATA**

DATE/TIME	DEPTH	WT	VIS	PV	YP	GELS	FILTRATE	CAKE/32	SOLIDS	SAND	PH	CHLORIDES	SALT	CALC	LCM
7/29/08:00	7500	8.4+	42	13	14	7/10	9.6	1	1.00	tr	10.0	9,000	14,850	110	

**BIT DATA**

BIT NO.	SIZE	MFG.	TYPE	IADC CODE	SERIAL NO.	JETS (1/32nd)			IN	OUT	FOOTAGE	HOURS	ROP	MTR	RPM	WOB	DULL CONDITION			
						16	16	16									T	B	G	
9	8.500	RTC	TD74PDH	747	DH1621	16	16	16		7003	7051	48	2.00	24.0	N	60	30	1	1	1
9	8.500	RTC	TD74PDH	747	DH1621	16	16	16		7051	7651	600	34.50	17.4	Y	85	35	4	4	1
10	8.500	STC	F67YODR	747	MY1931	16	16	16		7651				#DIV/O!						
														#DIV/O!						

**HYDRAULICS**

**SLOW PUMP PSI**

PUMP NO.	MANUFACTURER	LINER	STROKE LENGTH	GAL / STK 100%	SPM	GPM	AV DP	AV DC	PUMP PRESS.	MOTOR DIFF PSI	HHP/IN2	ECD	DEPTH	7651				
1	National 10P130	6.0	10	3.5	100	350							1	600				
2	National 10P130	6.0	10	3.5	0	0							2					
3					0	0							3					
<b>CONFIDENTIAL REPORT</b>																		
													181	298	1100	100	1.01	8.68

**DRILL STRING**

**GEOLOGIC**

**GENERAL INFO**

BOTTOM HOLE ASSEMBLY#	LENGTH	O.D.	I.D.	FORMATION	MD	TVD	LITHO LOGY	GAS DATA		TRIP GAS		RIG INFO		
8 1/2" bit	1.00	8.500		Navajo	5,901	5,901	SS					Co Man	435-979-2202	
VertiTrak(motor)	30.78	7.063	np	Kayenta	7,135	7,135						Mudlogger		
Float sub	3.49	5.000	np	Wingate	7,254	7,254						Toolpusher		
Filter sub	5.55	6.500	2.94					BOTTOMS UP TIME	BG GAS	CONN GAS	TRIP GAS	Last BOP Test	7/5	
Xo	1.85	5.000	2.25					41	19	20	208	Next BOP Test	8/4	
8 1/4 stab. / Xo	7.96	6.500	2.81					SHOWS				Last Safety Meeting	7/29	
25 - SWDP	767.91	5.000	3.00					GAS UNITS		FROM	TO	ROP (FT/HR)	Last BOP Drill	7/27
Jar	32.53	6.500	2.75									Last Operate Pipe Ra	7/27	
4 - SWDP	123.28	5.000	3.00									Last Operate Blind Ra	7/26	
<b>TOTAL</b>	<b>974.35</b>											Last Operate Annular	7/26	
STRING WT.	BHA WT.	PU WT.	SO WT.	ROT. TORQUE	GRD. ELEVATION	GL TO KB	KB ELEVATION	SURF CSG	INT CASING 1	INT CASING 2	PROD CSG	(14500)		
196	55	210	190		5,793	26	5,819	1,915	6,985					

**SURVEYS**

MD	INCL.	AZIMUTH	TVD	N+S-	E+ / W-	SECTION	DLS	TOOL	MD	INCL.	AZIMUTH	TVD	N+S-	E+ / W-	SECTION	DLS	TOOL

**DAILY ACTIVITY**

FROM	TO	HRS	LAST 24 HOURS:
0:00	6:00	6.00	Drill & survey 7390 to 7490 losses varied 2-10 bbl/hr. Pump 25ppbl lcm sweep @ 7400
6:00	7:00	1.00	lost 100% returns while on btm. Drilling, pu off btm. 50% returns. Mix & pump 60 bbl. 30ppbl LCM sweep
7:00	17:30	10.50	Regain circ. Drill & survey 7490 to 7651 rop slowed to 4.6/hr. losses minimal 2-4 bbl/hr.
17:30	19:00	1.50	Circ. Btms up, mix & spot 40 bbl. 30 ppbl. Lcm pill on btm.
19:00	21:30	2.50	POOH for bit
21:30	22:00	0.50	Close blind rams, ckeck vertitrak, change bit
22:00	0:00	2.00	TIH, change jars
0:00			
0:00			Continue sifting nutplug & mica 2-4 sks. Hr. depending on losses
0:00			Lost 180 bbl. Last 24 hr.
0:00			
0:00			
0:00			
0:00			
0:00			
0:00			
0:00			6am drilling @ 7682
0:00			
0:00			
Daily Total		24.00	

SEE ATTACHED COST DETAIL PAGE FOR ESTIMATED DRY HOLE COSTS



CONFIDENTIAL

Form 3160-5  
(April 2004)

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

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

SUNDRY NOTICES AND REPORTS ON WELLS

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

5. Lease Serial No. UTU-73528
6. If Indian, Allottee or Tribe Name N/A
7. If Unit or CA/Agreement, Name and/or No. Wolverine Fed Exploration Unit
8. Well Name and No. Wolverine Federal 17-8
9. API Well No. 4304130047
10. Field and Pool, or Exploratory Area Covenant Field
11. County or Parish, State Sevier Co, UT

SUBMIT IN TRIPLICATE- Other instructions on reverse side.

1. Type of Well <input checked="" type="checkbox"/> Oil Well <input type="checkbox"/> Gas Well <input type="checkbox"/> Other
2. Name of Operator Wolverine Gas & Oil Company of Utah, LLC
3a. Address One Riverfront Plaza, 55 Campau NW, Grand Rapids, MI
3b. Phone No. (include area code) 616-458-1150
4. Location of Well (Footage, Sec., T., R., M., or Survey Description) Surface hole location - 2020' FSL & 1610' FWL, NE/4 SW/4 Section 17, T23S, R1W Bottom hole location - 2020' FSL & 1610' FWL, NE/4 SW/4 Section 17, T23S, R1W

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

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

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

Given:

Surface Casing: 13-3/8" 68ppf J55 BTC surface casing set 7/4/2007 @ 1915 feet kb and cemented to surface  
Intermediate Hole: 12-1/4" hole was then drilled into lower Navajo 1 to 7003 feet kb on 7/22/2007 with 10.7ppf salt based mud; open hole logs run on 7/23 and 7/24.

Report of 9-5/8" Intermediate Casing & Cementing operations 7/25 and 7/26:

Note: Verbal approval for 9.625in casing change from 10,600 to ~7000' given by Al McKee, BLM on 7/23/2007  
9-5/8" 47ppf HCP-110 LTC new casing (164 jts) was run to 6985 feet and cemented in two stages (stage tool set at 5671 feet) as follows:  
Stage 1: Tail 570 sx 50/50 POZ (25% excess, 14.3ppg, 1.28 cfps); displaced, bumped plug, floats held, open stage tool, circ 9.5 hrs WOC  
Stage 2: Lead 170 sx CBM Light III (25% excess, 10.5 ppg, 4.29 cfps) and tail w/ 805 sx Class G (25% excess, 15.8ppg, 1.29 cfps)  
Temperature log found top of cement behind 9-5/8" casing at 1100 feet as planned.

Well control: BOP stack was not broken, used MBS system, packed off, tested to 7500 psi (5000 psi reqmt), resumed drilling

xc: UDOGM - Dustin Doucet

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

Steven R Hash

Title Consulting Engineer - EXACT Engineering Inc

Signature

Date

07/30/2007

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved by \_\_\_\_\_

Title

Date

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

Office

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

(Instructions on page 2)

RECEIVED

AUG 03 2007

DIV. OF OIL, GAS & MINING

**EXACT Engineering, Inc.**

www.exactengineering.com

415 S. Boston Ave., Suite 734, Tulsa, OK 74103 • (918) 599-9400 • (918) 599-9401 (fax)

Steven R. Hash, P.E.  
Registered Professional Engineer  
stevehash@exactengineering.com

August 20, 2007

Mr. Al McKee  
Bureau of Land Management  
Utah State Office  
P.O. Box 45155  
Salt Lake City, UT 84145-0155

CONFIDENTIAL

Mr. Dustin Doucet  
Utah Division of Oil, Gas & Mining  
1594 West North Temple, Suite 1210  
Salt Lake City, UT 84114-5801

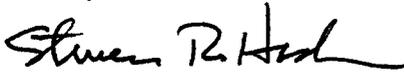
CONFIDENTIAL

Re: Drilling Update #4 - **Wolverine Federal 17-8**  
Sec 17 T23S R01W  
Sevier Co, UT  
API# 43-041-30047

Gentlemen,

On behalf of Wolverine Gas and Oil Company of Utah, LLC, please find enclosed daily drilling reports for the subject well from July 31, 2007 through August 19, 2007. Electric logs were run on August 2 and August 10 at depths of 8319 feet and 9793 feet respectively. We are presently drilling at 11,153 feet toward our anticipated total depth of 14,500 feet. We respectfully request that the enclosed information remain confidential.

Sincerely,



Steven R. Hash, P.E.

Enclosures

copy without enclosures via email to:

Wolverine Gas & Oil Co of Utah, LLC: Helene Bardolph  
EXACT Engineering, Inc. well file

RECEIVED

AUG 23 2007

DIV. OF OIL, GAS & MINING

Petroleum Engineering Consulting, Personnel & Jobsite Supervision  
complete well design, construction & management, drilling, completion, production, pipelines, appraisals,  
due diligence, acquisitions, procedures, temporary personnel and field supervision





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

**DAILY DRILLING REPORT**

24 hrs - midnight to midnight

DATE 08/17/07	WELL Wolverine Federal 17-8	CONTRACTOR SST #68	COUNTY, STATE Sevier, UT	SPUD DATE 6/28/07	API# 43-041-30047	SUPERVISOR DL Naylor	
DAYS F/SPUD 51	PRESENT OPERATIONS @ 2400 Hour Drilling	TOTAL DEPTH 10,649	PROGRESS 300	DRILLING TIME 22.50	ROP 13.3	TD FORMATION Kaibab	AUTH. DEPTH 14,500

**MUD DATA**

DATE/TIME	DEPTH	WT	VIS	PV	YP	GELS	FILTRATE	CAKE/32	SOLIDS	SAND	PH	CHLORIDES	SALT	CALC	LCM
8/17/08:00	10462	8.5	45	15	14	6/8	8.8	1	1.50	tr	9.6	1,100	1,815	60	

**BIT DATA**

BIT NO.	SIZE	MFG.	TYPE	IADC CODE	SERIAL NO.	JETS (1/32nd" or TFA)			IN	OUT	FOOTAGE	HOURS	ROP	MTR	RPM RT+MTR	WOB	DULL CONDITION			
																	T	B	G	
17	8.500	Smith	DF40YBOD1	617	MX8456	16	16	16			10238				Y	0-84	30-35			
													#DIV/0!							
													#DIV/0!							
													#DIV/0!							

**HYDRAULICS**

**SLOW PUMP PSI**

PUMP NO.	MANUFACTURER	LINER	STROKE LENGTH	GAL / STK 100%	SPM	GPM	AV DP	AV DC	PUMP PRESS.	MOTOR DIFF PSI	HHP/IN2	ECD	DEPTH	10500
1	National 10P130	6.0	10	3.5	0	0							1	540
2	National 10P130	6.0	10	3.5	120	420							2	540
3						0							3	
<b>CONFIDENTIAL REPORT</b>														
					124	420	218	358	2000	125-200	1.76	8.85		

**DRILL STRING**

**GEOLOGIC**

**GENERAL INFO**

BOTTOM HOLE ASSEMBLY#	21	LENGTH	O.D.	I.D.	FORMATION	MD	TVD	LITHOLOGY	RIG INFO		
8 1/2" bit & bit sub		1.00	8.500	0.00	Wingate 2	9,527	9,527		Co Man 435-979-2202		
VertiTrak(motor)		30.50	7.063	np	Chilne	9,997	9,997		Mudlogger		
Float sub		3.49	5.000	np	Moenkopi	10,520	10,520		Toolpusher		
Filter sub		5.55	6.500	2.94	GAS DATA				Last BOP Test 8/3		
Xo		1.57	5.000	2.25	BOTTOMS UP TIME	BG GAS	CONN GAS	TRIP GAS	Next BOP Test 9/3		
8 1/4 stab. / Xo		7.96	6.500	2.81	50	25	25		Last Safety Meeting 8/17		
25 - SWDP		767.91	5.000	3.00	SHOWS				Last BOP Drill 8/16		
Jar		32.53	6.500	2.75	GAS UNITS	FROM	TO	ROP (FT/HR)	Last Operate Pipe Ra 8/16		
4 - SWDP		123.28	5.000	3.00					Last Operate Blind Ra 8/16		
<b>TOTAL</b>		<b>973.79</b>							Last Operate Annular 8/11		
STRING WT.	BHA WT.	PU WT.	SO WT.	ROT. TORQUE	GRD. ELEVATION	GL TO KB	KB ELEVATION	SURF CSG	INT CASING 1	INT CASING 2	PROD CSG
245	55	255	240		5,793	26	5,819	1,915	6,985		(14500)

**SURVEYS**

MD	INCL.	AZIMUTH	TVD	N+S-	E+ / W-	SECTION	DLS	TOOL	MD	INCL.	AZIMUTH	TVD	N+S-	E+ / W-	SECTION	DLS	TOOL

**DAILY ACTIVITY**

FROM	TO	HRS	LAST 24 HOURS:
0:00	7:30	7.50	Drill & survey from 10349 to 10465
7:30	8:00	0.50	Work thru fractures 10455 to 10465, high torque & pressure, losing 6 bblhr.
8:00	9:00	1.00	Drill & survey from 10465 to 10480
9:00	9:30	0.50	Work thru rubble 10450 to 10480, high torque & pressure, losing 8 bblhr. Pumped 15 ppbbl Nutplug & mica.
9:30	11:30	2.00	Drill & survey 10480 to 10497
11:30	12:00	0.50	Work thru rubble 10490 to 10497, high torque & pressure, losing 8 bblhr.
12:00	0:00	12.00	Drill & survey 10497 to 10649
0:00			
0:00			Hole taking 5-6 bblhr. Lost 150 bbl last 24 hrs.
0:00			Did not mix any LCM thru this interval, needed to get mud properties in line, monitor losses to determine future course of action.
0:00			This am mixed & pumped 15 ppbbl nut plug & mica sweep. 4am.
0:00			Sifting 1sk mica, 1 sk nutplug p/hr. over suction has slowed losses to 2-3 bblhr.
0:00			
0:00			Hole seems to have stabilized, drilling ahead
0:00			
0:00			This 6am drilling @ 10722
0:00			
0:00			
Daily Total		24.00	

SEE ATTACHED COST DETAIL PAGE FOR ESTIMATED DRY HOLE COSTS





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

**DAILY DRILLING REPORT**

24 hrs - midnight to midnight

DATE 08/14/07	WELL Wolverine Federal 17-8	CONTRACTOR SST #68	COUNTY, STATE Sevier, UT	SPUD DATE 6/28/07	API# 43-041-30047	SUPERVISOR Rodger Rebsom
DAYS F/SPUD 48	PRESENT OPERATIONS @ 2400 Hour Drilling	TOTAL DEPTH 10,139	PROGRESS 101	DRILLING TIME 19.50	ROP 5.2	AUTH. DEPTH 14,500

**MUD DATA**

DATE/TIME	DEPTH	WT	VIS	PV	YP	GELS	FILTRATE	CAKE/32	SOLIDS	SAND	PH	CHLORIDES	SALT	CALC	LCM
8/14-08:00	10059	8.4+	48	16	12	5/8	8.8	1	1.25	tr	10.8	1,100	1,815	60	

**BIT DATA**

BIT NO.	SIZE	MFG.	TYPE	IADC CODE	SERIAL NO.	JETS (1/32nd" or TFA)			IN	OUT	FOOTAGE	HOURS	ROP	MTR	RPM RT+MTR	WOB	DULL CONDITION				
																	T	B	G		
15	8.500	Reed	EHP61DAKF	617	LU8514	16	16	16			10021	10038	17	8.00	2.1	Y	0-84	30-35	7	2	In
16	8.500	Smith	F67YODR	747	MY1932	20	20	16			10038		101	19.50	5.2	Y	0-84	35			
																	#DIV/0!				
																	#DIV/0!				

**HYDRAULICS**

**SLOW PUMP PSI**

PUMP NO.	MANUFACTURER	LINER	STROKE LENGTH	GAL / STK 100%	SPM	GPM	AV DP	AV DC	PUMP PRESS.	MOTOR DIFF PSI	HHP/IN2	ECD	DEPTH	10127
1	National 10P130	6.0	10	3.5	0	0							1	520
2	National 10P130	6.0	10	3.5	120	420							2	520
3						0							3	
<b>CONFIDENTIAL REPORT</b>														
					124	420	218	358	1725	125-200	0.92	8.70		

**DRILL STRING**

**GEOLOGIC**

**GENERAL INFO**

BOTTOM HOLE ASSEMBLY#	LENGTH	O.D.	I.D.	FORMATION	MD	TVD	LITHO LOGY	RIG INFO			
8 1/2" bit & bit sub	1.00	8.500	0.00	Kayenta 2	9,410	9,410		Co Man 435-979-2202			
VertiTrak(motor)	30.74	7.063	np	Wingate 2	9,527	9,527		Mudlogger			
Float sub	3.49	5.000	np	Chilne	9,997	9,997		Toolpusher			
Filter sub	5.55	6.500	2.94	GAS DATA				Last BOP Test 8/3			
Xo	1.57	5.000	2.25	BOTTOMS UP TIME	BG GAS	CONN GAS	TRIP GAS	Next BOP Test 9/3			
8 1/4 stab. / Xo	7.96	6.500	2.81	48	32	36		Last Safety Meeting 8/14			
25 - SWDP	767.91	5.000	3.00	SHOWS				Last BOP Drill 8/11			
Jar	32.53	6.500	2.75	GAS UNITS	FROM	TO	ROP (FT/HR)	Last Operate Pipe Ra 8/11			
4 - SWDP	123.28	5.000	3.00					Last Operate Blind Ra 8/13			
<b>TOTAL</b>	<b>974.03</b>							Last Operate Annular 8/11			
STRING WT.	BHA WT.	PU WT.	SO WT.	ROT. TORQUE	GRD. ELEVATION	GL TO KB	KB ELEVATION	SURF CSG	INT CASING 1	INT CASING 2	PROD CSG
239	55	252	228		5,793	26	5,819	1,915	6,985		(14500)

**SURVEYS**

MD	INCL.	AZIMUTH	TVD	N+S-	E+W-	SECTION	DLS	TOOL	MD	INCL.	AZIMUTH	TVD	N+S-	E+W-	SECTION	DLS	TOOL

**DAILY ACTIVITY**

FROM	TO	HRS	LAST 24 HOURS:
0:00	4:00	4.00	Trip into 9949'
4:00	4:30	0.50	Wash to 10038' no fill clean bottom
4:30	0:00	19.50	Drill & survey from 10038' to 10139'
0:00			
0:00			
0:00			
0:00			
0:00			
0:00			
0:00			
0:00			
0:00			Well took 39 bbls over last 24 hours
0:00			
0:00			Well taking 1-2bbls drilling fluid/hour
0:00			
0:00			10167' Drilling @ 0630 hour
0:00			
0:00			
Daily Total		24.00	

SEE ATTACHED COST DETAIL PAGE FOR ESTIMATED DRY HOLE COSTS



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

**DAILY DRILLING REPORT**

24 hrs - midnight to midnight

DATE 08/12/07	WELL Wolverine Federal 17-8	CONTRACTOR SST #68	COUNTY, STATE Sevier, UT	SPUD DATE 6/28/07	API# 43-041-30047	SUPERVISOR Rodger Rebsom	
DAYS F/SPUD 46	PRESENT OPERATIONS @ 2400 Hour Check VertiTrak change bits	TOTAL DEPTH 10,021	PROGRESS 138	DRILLING TIME 19.50	ROP 7.1	TD FORMATION Kaibab	AUTH. DEPTH 14,500

**MUD DATA**

DATE/TIME	DEPTH	WT	VIS	PV	YP	GELS	FILTRATE	CAKE/32	SOLIDS	SAND	PH	CHLORIDES	SALT	CALC	LCM
8/11-08:00	9793	8.4+	51	17	19	9/11	7.0	1	1.25	tr	10.0	1,200	1,980	90	

**BIT DATA**

BIT NO.	SIZE	MFG.	TYPE	IADC CODE	SERIAL NO.	JETS (1/32nd" or TFA)			IN	OUT	FOOTAGE	HOURS	ROP	MTR	RPM RT+MTR	WOB	DULL CONDITION			
																	T	B	G	
15	8.500	Reed	EHP61DAKP	617	LU8514	16	16	16		10021	10038	17	8.00	2.1	Y	0-84	30-35	7	2	In
16	8.500	Smith	F67YODR	747	MY1932	20	20	16		10038				#DIV/0!	Y					
														#DIV/0!						
														#DIV/0!						

**HYDRAULICS**

**SLOW PUMP PSI**

PUMP NO.	MANUFACTURER	LINER	STROKE LENGTH	GAL / STK 100%	SPM	GPM	AV DP	AV DC	PUMP PRESS.	MOTOR DIFF PSI	HHP/IN2	ECD	DEPTH	9870
1	National 10P130	6.0	10	3.5	0	0							1	575
2	National 10P130	6.0	10	3.5	120	420							2	580
3					0								3	
<b>CONFIDENTIAL REPORT</b>														
					120	420	218	358	1750	125-200	1.74	8.66		

**DRILL STRING**

**GEOLOGIC**

**GENERAL INFO**

BOTTOM HOLE ASSEMBLY#	19	LENGTH	O.D.	I.D.	FORMATION	MD	TVD	LITHOLOGY	RIG INFO		
8 1/2" bit & bit sub		1.00	8.500	0.00	Kayenta 2	9,410	9,410		Co Man 435-979-2202		
VertiTrak(motor)		30.74	7.063	np	Wingate 2	9,527	9,527		Mudlogger		
Float sub		3.49	5.000	np	Chilne	9,997	9,997		Toolpusher		
Filter sub		5.55	6.500	2.94	GAS DATA			Last BOP Test	8/3		
Xo		1.57	5.000	2.25	BOTTOMS UP TIME	BG GAS	CONN GAS	TRIP GAS	Next BOP Test	9/3	
8 1/4 stab. / Xo		7.96	6.500	2.81	46	32	36		Last Safety Meeting	1/8	
25 - SWDP		767.91	5.000	3.00	SHOWS			Last BOP Drill	8/11		
Jar		32.53	6.500	2.75	GAS UNITS	FROM	TO	ROP (FT/HR)	Last Operate Pipe Ra	8/11	
4 - SWDP		123.28	5.000	3.00					Last Operate Blind Ra	8/13	
<b>TOTAL</b>		<b>974.03</b>							Last Operate Annular	8/11	
STRING WT.	BHA WT.	PU WT.	SO WT.	ROT. TORQUE	GRD. ELEVATION	GL TO KB	KB ELEVATION	SURF CSG	INT CASING 1	INT CASING 2	PROD CSG
237	55	251	226		5,793	26	5,819	1,915	6,985		(14500)

**SURVEYS**

MD	INCL.	AZIMUTH	TVD	N+S	E+W	SECTION	DLS	TOOL	MD	INCL.	AZIMUTH	TVD	N+S	E+W	SECTION	DLS	TOOL

**DAILY ACTIVITY**

FROM	TO	HRS	LAST 24 HOURS:
0:00	19:30	19.50	Drill & survey from 9883' to 10021'
19:30	22:00	2.50	Circ. Hole clean & spot 60 bbls 45% nut plug-multi seal-mica from 7880' to 6775'
22:00	0:00	2.00	Trip out due to p. rate
0:00			
0:00			
0:00			
0:00			
0:00			
0:00			Well 8 bbls drilling fluid over displacement on trip out
0:00			
0:00			Well took 7-12 bbls/hr while drilling
0:00			Well took 179 bbls over last 24 hours
0:00			
0:00			
0:00			
0:00			Trip in @ 0500 hour.
0:00			
Daily Total		24.00	

SEE ATTACHED COST DETAIL PAGE FOR ESTIMATED DRY HOLE COSTS



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

**DAILY DRILLING REPORT**

24 hrs - midnight to midnight

DATE 08/10/07	WELL Wolverine Federal 17-8	CONTRACTOR SST #68	COUNTY, STATE Sevier, UT	SPUD DATE 6/28/07	API# 43-041-30047	SUPERVISOR Rodger Rebsom
DAYS F/ SPUD 44	PRESENT OPERATIONS @ 2400 Hour Logging	TOTAL DEPTH 9,793	PROGRESS 6	DRILLING TIME 3.00	ROP 2.0	TD FORMATION AUTH. DEPTH Kaibab 14,500

**MUD DATA**

DATE/TIME	DEPTH	WT	VIS	PV	YP	GELS	FILTRATE	CAKE/32	SOLIDS	SAND	PH	CHLORIDES	SALT	CALC	LCM
8/10-08:00	9793	8.4+	47	15	15	7/11	7.0	1	1.25	tr	10.0	1,400	2,310	90	

**BIT DATA**

BIT NO.	SIZE	MFG.	TYPE	IADC CODE	SERIAL NO.	JETS (1/32nd" or TFA)			IN	OUT	FOOTAGE	HOURS	ROP	MTR	RPM RT+MTR	WOB	DULL CONDITION		
																	T	B	G
12	8.500	Reed	TD74PDH	747	DH1668	16	16	16					8.4	Y	0-84	30-35	7	2	1/16"
13	8.500	Reed	TD74PDH	747	DH1624	16	16	16					2.0	No	45	10	2	2	In
													#DIV/0!						
													#DIV/0!						

**HYDRAULICS**

**SLOW PUMP PSI**

PUMP NO.	MANUFACTURER	LINER	STROKE LENGTH	GAL / STK 100%	SPM	GPM	AV DP	AV DC	PUMP PRESS.	MOTOR DIFF PSI	HHP/W2	ECD	DEPTH	9544
1	National 10P130	6.0	10	3.5	120	420							1	580
2	National 10P130	6.0	10	3.5	0	0							2	nc
3						0							3	
<b>CONFIDENTIAL REPORT</b>														
					120	420	218	358	1500	50-100	1.74	8.66		

**DRILL STRING**

**GEOLOGIC**

**GENERAL INFO**

BOTTOM HOLE ASSEMBLY#	18	LENGTH	O.D.	I.D.	FORMATION	MD	TVD	LITHO LOGY	RIG INFO
8 1/2" bit & bit sub	4.46	8.500	0.00		Kayenta 2	9,410	9,410		Co Man 435-979-2202
VertiTrak(motor)		7.063	np		Wingate 2	9,527	9,527		Mudlogger
Float sub		5.000	np						Toolpusher
Filter sub		6.500	2.94						Last BOP Test 8/3
Xo		5.000	2.25			43	32	36	Next BOP Test 9/3
8 1/4 stab. / Xo		6.500	2.81						Last Safety Meeting 8/10
25 - SWDP	767.91	5.000	3.00						Last BOP Drill 8/6
Jar	32.53	6.500	2.75						Last Operate Pipe Ra 8/6
4 - SWDP	123.28	5.000	3.00						Last Operate Blind Ra 8/10
<b>TOTAL</b>	<b>928.18</b>								Last Operate Annular 8/3
STRING WT.	BHA WT.	PU WT.	SO WT.	ROT. TORQUE	GRD. ELEVATION	GL TO KB	KB ELEVATION	SURF CSG	INT CASING 1
234	55	248	224		5,793	26	5,819	1,915	6,985
									INT CASING 2
									PROD CSG (14500)

**SURVEYS**

MD	INCL.	AZIMUTH	TVD	N+S-	E+ / W-	SECTION	DLS	TOOL	MD	INCL.	AZIMUTH	TVD	N+S-	E+ / W-	SECTION	DLS	TOOL

**DAILY ACTIVITY**

FROM	TO	HRS	LAST 24 HOURS:
0:00	3:30	3.50	Trip in
3:30	4:00	0.50	Wash & ream 46' to bottom 5' fill
4:00	7:00	3.00	Drill from 9787' to 9793'
7:00	8:30	1.50	Circ. & spot 60 bbls. Of 15% multi seal-nutplug-mica from 9793' to 8646'
8:30	9:30	1.00	Trip out 9793' to 8748'
9:30	10:00	0.50	Spot 60 bbls. Of 15% multi seal-nut plug-mica from 8748' to 7603'
10:00	10:30	0.50	Trip out 8748' to 7705'
10:30	11:00	0.50	Spot 60 bbls. Of 15% multi seal-nut plug-mica from 7705' to 6602'
11:00	15:00	4.00	Trip out 7705' to surface - w ork blind rams
15:00	0:00	9.00	Rig up loggers & log
0:00			
0:00			Well took 49 bbls. Last 24 hours.
0:00			
0:00			Well taking 0 bbls/hour of drilling fluid while logging
0:00			
0:00			
0:00			
0:00			
0:00			
0:00			
Daily Total	24.00		

SEE ATTACHED COST DETAIL PAGE FOR ESTIMATED DRY HOLE COSTS







Operator: Wolverine Gas & Oil Co of Utah, LLC

**DAILY DRILLING REPORT**

24 hrs - midnight to midnight

DATE 08/06/07	WELL Wolverine Federal 17-8	CONTRACTOR SST #68	COUNTY, STATE Sevier, UT	SPUD DATE 6/28/07	API# 43-041-30047	SUPERVISOR Rodger Rebsom	
DAYS F/SPUD 40	PRESENT OPERATIONS @ 2400 Hour Drilling	TOTAL DEPTH 9,328	PROGRESS 184	DRILLING TIME 9.00	ROP 20.4	TD FORMATION Kaibab	AUTH. DEPTH 14,500

**MUD DATA**

DATE/TIME	DEPTH	WT	VIS	PV	YP	GELS	FILTRATE	CAKE/32	SOLIDS	SAND	PH	CHLORIDES	SALT	CALC	LCM
8/6-08:00	9267	8.4+	50	15	20	9/13	6.0	1	1.25	tr	11.0	1,700	2,805	90	

**BIT DATA**

BIT NO.	SIZE	MFG.	TYPE	IADC CODE	SERIAL NO.	JETS (1/32nd" or TFA)			IN	OUT	FOOTAGE	HOURS	ROP	MTR	RPM RT+MTR	WOB	DULL CONDITION				
																	T	B	G		
11	8.500	STC	F67YODR	747	MY1938	16	16	16			8319	9269	950	51.50	18.4	Y	0-84	35	6	2	In
12	8.500	Reed	TD74PDH	747	DH1668	16	16	16					59	3.00	19.7	Y	0-84	28-32			
																	#DIV/0!				
																	#DIV/0!				

**HYDRAULICS**

**SLOW PUMP PSI**

PUMP NO.	MANUFACTURER	LINER	STROKE LENGTH	GAL / STK 100%	SPM	GPM	AV DP	AV DC	PUMP PRESS.	MOTOR DIFF PSI	HHP/IN2	ECD	DEPTH	9363
1	National 10P130	6.0	10	3.5	120	420							1	700
2	National 10P130	6.0	10	3.5	0	0							2	nc
3					0								3	

**CONFIDENTIAL REPORT**

**DRILL STRING**

**GEOLOGIC**

**GENERAL INFO**

BOTTOM HOLE ASSEMBLY#	LENGTH	O.D.	I.D.	FORMATION	MD	TVD	LITHO LOGY	RIG INFO			
8 1/2" bit	1.00	8.500		Thrust fault	7,660	7,660		Co Man 435-979-2202			
VertiTrak(motor)	30.74	7.063	np	Twin creek 2	7,883	7,883		Mudlogger			
Float sub	3.49	5.000	np	Navajo 2	8,201	8,201		Toolpusher			
Filter sub	5.55	6.500	2.94	GAS DATA				Last BOP Test 8/3			
Xo	1.57	5.000	2.25	BOTTOMS UP TIME	BG GAS	CONN GAS	TRIP GAS	Next BOP Test 9/3			
				43	32	36		Last Safety Meeting 8/7			
8 1/4 stab. / Xo	7.96	6.500	2.81	SHOWS				Last BOP Drill 8/6			
25 - SWDP	767.91	5.000	3.00	GAS UNITS	FROM	TO	ROP (FT/HR)	Last Operate Pipe Ra 1/8			
Jar	32.53	6.500	2.75					Last Operate Blind Ra 8/6			
4 - SWDP	123.28	5.000	3.00					Last Operate Annular 8/3			
<b>TOTAL</b>	<b>974.03</b>										
STRING WT.	BHA WT.	PU WT.	SO WT.	ROT. TORQUE	GRD. ELEVATION	GL TO KB	KB ELEVATION	SURF CSG	INT CASING 1	INT CASING 2	PROD CSG
222	55	240	209		5,793	26	5,819	1,915	6,985		(14500)

**SURVEYS**

MD	INCL.	AZIMUTH	TVD	N+S-	E+ / W-	SECTION	DLS	TOOL	MD	INCL.	AZIMUTH	TVD	N+S-	E+ / W-	SECTION	DLS	TOOL

**DAILY ACTIVITY**

FROM	TO	HRS	LAST 24 HOURS:
0:00	6:00	6.00	Drill & survey from 9144' to 9269'-pump pressure increased 400 psi.
6:00	8:30	2.50	Circ. Hole clean spot 50 bbl/of #40/bbl nut plug & mica from 9050' to 8095'
8:30	13:30	0.50	Trip out 12,000-15,000 over pull no tights spots-work blind rams
13:30	14:30	1.00	Change out VertriTrak-bit-bad bearings in VertriTrak was the cause of pump pressure increase
14:30	20:00	5.50	Trip in-fill pipe test tool @ 1101'-fill pipe @ 3714'- fill pipe @ 5535'- fill pipe @ 7242'- fill pipe @ 9209'
20:00	21:00	1.00	Set VertriTrak-wash from 9209' - 9269'-120 spm 1625 psi 1-2000 wt.-6' fill
21:00	0:00	3.00	Drill & survey from 9269' to 9328'
0:00			
0:00			
0:00			Mixed & pumped 2-50 bbl pill 40#/bbl nut plug & mica-45 vis-8.4+wt.
0:00			Well took 16 bbls mud over displacement on trip out-stayed full while handling Bha.
0:00			Well took 184 bbls. Last 24 hours.
0:00			
0:00			Well taking 14 bbls/hour of drilling fluid
0:00			
0:00			
0:00			9408' Drilling @ 500 hour
0:00			
0:00			
Daily Total		19.50	

SEE ATTACHED COST DETAIL PAGE FOR ESTIMATED DRY HOLE COSTS



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

**DAILY DRILLING REPORT**

24 hrs - midnight to midnight

DATE 08/04/07	WELL Wolverine Federal 17-8	CONTRACTOR SST #68	COUNTY, STATE Sevier, UT	SPUD DATE 6/28/07	API# 43-041-30047	SUPERVISOR Rodger Rebsom	
DAYS F/ SPUD 38	PRESENT OPERATIONS @ 2400 Hour Drilling	TOTAL DEPTH 8,744	PROGRESS 371	DRILLING TIME 23.00	ROP 16.1	TD FORMATION Kaibab	AUTH. DEPTH 14,500

**MUD DATA**

DATE/TIME	DEPTH	WT	VIS	PV	YP	GELS	FILTRATE	CAKE/32	SOLIDS	SAND	PH	CHLORIDES	SALT	CALC	LCM
8/4-08:00	8457	8.4+	40	10	13	5/7	8.0	1	1.25	tr	10.8	2,200	3,960	90	

**BIT DATA**

BIT NO.	SIZE	MFG.	TYPE	IADC CODE	SERIAL NO.	JETS (1/32nd" or TFA)				IN	OUT	FOOTAGE	HOURS	ROP	MTR	RPM RT-MTR	WOB	DULL CONDITION		
																		T	B	G
11	8.500	STC	F67YODR	747	MY1938	16	16	16		8319		425	26.50	16.0	Y	0-84	35			
														#DIV/0!						
														#DIV/0!						
														#DIV/0!						

**HYDRAULICS**

**SLOW PUMP PSI**

PUMP NO.	MANUFACTURER	LINER	STROKE LENGTH	GAL / STK 100%	SPM	GPM	AV DP	AV DC	PUMP PRESS.	MOTOR DIFF PSI	HHP/IN2	ECD	DEPTH	8703	8703
1	National 10P130	6.0	10	3.5	0	0							1	nc	nc
2	National 10P130	6.0	10	3.5	120	420							2	220	410
3					0								3		
<b>CONFIDENTIAL REPORT</b>															
					420		219	360	1400		75-125	1.78	8.67		

**DRILL STRING**

**GEOLOGIC**

**GENERAL INFO**

BOTTOM HOLE ASSEMBLY#	LENGTH	O.D.	I.D.	FORMATION	MD	TVD	LITHOLOGY	RIG INFO			
8 1/2" bit	8.50	8.500		Thrust fault	7,660	7,660		Co Man	435-979-2202		
VertiTrak(motor)	30.78	7.063	np	Twin creek 2	7,883	7,883		Mudlogger			
Float sub	3.49	5.000	np	Navajo 2	8,201	8,201		Toolpusher			
Filter sub	5.55	6.500	2.94	GAS DATA				Last BOP Test	8/3		
Xo	1.85	5.000	2.25	BOTTOMS UP TIME	BG GAS	CONN GAS	TRIP GAS	Next BOP Test	9/3		
8 1/4 stab. / Xo	7.96	6.500	2.81	SHOWS				Last Safety Meeting	8/5		
25 - SWDP	767.91	5.000	3.00	GAS UNITS	FROM	TO	ROP (FT/HR)	Last BOP Drill	8/3		
Jar	32.53	6.500	2.75					Last Operate Pipe Ra	8/3		
4 - SWDP	123.28	5.000	3.00					Last Operate Blind Ra	8/3		
<b>TOTAL</b>	<b>981.85</b>							Last Operate Annular	8/3		
STRING WT.	BHA WT.	PU WT.	SO WT.	ROT. TORQUE	GRD. ELEVATION	GL TO KB	KB ELEVATION	SURF CSG	INT CASING 1	INT CASING 2	PROD CSG
212	55	226	200		5,793	26	5,819	1,915	6,985		(14500)

**SURVEYS**

MD	INCL.	AZIMUTH	TVD	N+S-	E+/W-	SECTION	DLS	TOOL	MD	INCL.	AZIMUTH	TVD	N+S-	E+/W-	SECTION	DLS	TOOL	

**DAILY ACTIVITY**

FROM	TO	HRS	LAST 24 HOURS:
0:00	8:00	8.00	Drill & survey from 8373' to 8458'
8:00	9:00	1.00	Recycle VertiTrak pulser quit shortly after pumping sweep-service rig-pulser working
9:00	0:00	15.00	Drill & survey from 8458' to 8744'
0:00			
0:00			
0:00			
0:00			Midnight to 0630 well holding fluid
0:00			0630 to 1330 well taking drilling fluid rate of 23 bbls/hr.
0:00			1330 to midnight well holding fluid
0:00			Mixed & pumped 1-50 bbl pill 40#/bbl nut plug & mica
0:00			Well took 163 bbls of drilling fluid over last 24 hours
0:00			
0:00			
0:00			
0:00			
0:00			
0:00			8867' Drilling @ 0545 hour
0:00			
Daily Total		24.00	

SEE ATTACHED COST DETAIL PAGE FOR ESTIMATED DRY HOLE COSTS

Operator: Wolverine Gas & Oil Co of Utah, LLC

**DAILY DRILLING REPORT**

24 hrs - midnight to midnight

DATE 08/03/07	WELL Wolverine Federal 17-8	CONTRACTOR SST #68	COUNTY, STATE Sevier, UT	SPUD DATE 6/28/07	API# 43-041-30047	SUPERVISOR Rodger Rebsom
DAYS F/ SPUD 37	PRESENT OPERATIONS @ 2400 Hour Drilling	TOTAL DEPTH 8,373	PROGRESS 54	DRILLING TIME 3.50	ROP 15.4	TD FORMATION AUTH. DEPTH Kajibab 14,500

**MUD DATA**

DATE/TIME	DEPTH	WT	VIS	PV	YP	GELS	FILTRATE	CAKE/32	SOLIDS	SAND	PH	CHLORIDES	SALT	CALC	LCM
8/3-08:00	8319	8.4	53	18	19	10/14	8.0	1	1.00	tr	10.0	2,400	3,960	90	

**BIT DATA**

BIT NO.	SIZE	MFG.	TYPE	IADC CODE	SERIAL NO.	JETS (1/32nd" or TFA)			IN	OUT	FOOTAGE	HOURS	ROP	MTR	RPM RT+MTR	WOB	DULL CONDITION							
																	T	B	G					
11	8.500	STC	F67YODR	747	MY1938	16	16	16			8319		54	3.50	15.4	Y	0-84	35						

**HYDRAULICS**

**SLOW PUMP PSI**

PUMP NO.	MANUFACTURER	LINER	STROKE LENGTH	GAL / STK 100%	SPM	GPM	AV DP	AV DC	PUMP PRESS.	MOTOR DIFF PSI	HHP/IN2	ECD	DEPTH	8180
1	National 10P130	6.0	10	3.5	100	350							1	660
2	National 10P130	6.0	10	3.5	0	0							2	660
3						0							3	
<b>CONFIDENTIAL REPORT</b>														
					100	350	181	295	1300	175	1.10	8.65		

**DRILL STRING**

**GEOLOGIC**

**GENERAL INFO**

BOTTOM HOLE ASSEMBLY#	LENGTH	O.D.	I.D.	FORMATION	MD	TVD	LITHO LOGY	RIG INFO			
8 1/2" bit	8.50	8.500		Thrust fault	7,660	7,660		Co Man	435-979-2202		
VertiTrak(motor)	30.78	7.063	np	Twin creek 2	7,883	7,883		Mudlogger			
Float sub	3.49	5.000	np	Navajo 2	8,201	8,201		Toolpusher			
Filter sub	5.55	6.500	2.94	GAS DATA				Last BOP Test	8/3		
Xo	1.85	5.000	2.25	BOTTOMS UP TIME	BG GAS	CONN GAS	TRIP GAS	Next BOP Test	9/3		
8 1/4 stab. / Xo	7.96	6.500	2.81	SHOWS				Last Safety Meeting	8/4		
25 - SWDP	767.91	5.000	3.00	GAS UNITS	FROM	TO	ROP (FT/HR)	Last BOP Drill	8/3		
Jar	32.53	6.500	2.75					Last Operate Pipe Ra	8/3		
4 - SWDP	123.28	5.000	3.00					Last Operate Blind Ra	8/3		
<b>TOTAL</b>	<b>981.85</b>							Last Operate Annular	8/3		
STRING WT.	BHA WT.	PU WT.	SO WT.	ROT. TORQUE	GRD. ELEVATION	GL TO KB	KB ELEVATION	SURF CSG	INT CASING 1	INT CASING 2	PROD CSG
203	55	227	192		5,793	26	5,819	1,915	6,985		(14500)

**SURVEYS**

MD	INCL.	AZIMUTH	TVD	N+S-	E+ / W-	SECTION	DLS	TOOL	MD	INCL.	AZIMUTH	TVD	N+S-	E+ / W-	SECTION	DLS	TOOL	

**DAILY ACTIVITY**

FROM	TO	HRS	LAST 24 HOURS:
0:00	1:00	1.00	Log & rig down loggers
1:00	3:00	2.00	Cut & slip 125' drilling line
3:00	5:00	2.00	Pull wear bushing wait on bop tester
5:00	14:00	9.00	Test upper & lower pipe rams - blind rams - hcr valve - kill line valves - check valve - manual choke line valve
14:00	0:00		Choke manifold - super choke - top drive valves - floor safety valve - dart valve - choke line
0:00			Tested all above @ 250 psi for 5 min each & 5000 psi for 10 min each
0:00	14:00		Tested annular @ 250 psi for 5 min & 2500 psi for 10 min
14:00	15:00	1.00	Pickup vertitrak bit & trip into 442'
15:00	15:30	0.50	Accumulator function test Oked acc. & all bop test by Jeff Brown with BLM
15:30	20:00	4.50	Trip in fill pipe every 2000'
20:00	20:30	0.50	Wash & ream 78' to bottom 15' fill
20:30	0:00	3.50	Drill & survey from 8319' to 8373'
0:00			
0:00			Well taking 18 bbls of drilling fluid /hour during logging-bop test-trip in-after reaming to bottom
0:00			Cutting on bottom sealed formation until 630 am.
0:00			Well taking 23 bbls/hour
0:00			Drilling @ 8452' @ 0700 hour
0:00			
0:00			Well took 360 bbls drilling fluid over last 24 hours.
Daily Total		24.00	

SEE ATTACHED COST DETAIL PAGE FOR ESTIMATED DRY HOLE COSTS

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

**DAILY DRILLING REPORT**

24 hrs - midnight to midnight

DATE 08/02/07	WELL Wolverine Federal 17-8	CONTRACTOR SST #68	COUNTY, STATE Sevier, UT	SPUD DATE 6/28/07	API# 43-041-30047	SUPERVISOR Rodger Rebsom
DAYS F/ SPUD 36	PRESENT OPERATIONS @ 2400 Hour Logging	TOTAL DEPTH 8,319	PROGRESS 0	DRILLING TIME 0.00	ROP #DIV/0!	AUTH. DEPTH 14,500

**MUD DATA**

DATE/TIME	DEPTH	WT	VIS	PV	YP	GELS	FILTRATE	CAKE/32	SOLIDS	SAND	PH	CHLORIDES	SALT	CALC	LCM
8/2-08:00	8180	8.4	40	8	12	5/8	9.0	1	1.00	tr	10.8	3,200	5,280	90	

**BIT DATA**

BIT NO.	SIZE	MFG.	TYPE	IADC CODE	SERIAL NO.	JETS (1/32nd" or TFA)			IN	OUT	FOOTAGE	HOURS	ROP	MTR	RPM RT+MTR	WOB	DULL CONDITION						
																	T	B	G				
10	8.500	STC	F67YODR	747	MY1931	16	16	16			7651	8319	668	68.00	9.8	Y	0-84	35	4	2	1/8"		

**HYDRAULICS**

**SLOW PUMP PSI**

PUMP NO.	MANUFACTURER	LINER	STROKE LENGTH	GAL / STK 100%	SPM	GPM	AV DP	AV DC	PUMP PRESS.	MOTOR DIFF PSI	HHP/IN2	ECD	DEPTH	8180
1	National 10P130	6.0	10	3.5	100	350							1	660
2	National 10P130	6.0	10	3.5	0	0							2	660
3					0	0							3	
<b>CONFIDENTIAL REPORT</b>														
					100	350	181	295	1210	125	1.10	8.65		

**DRILL STRING**

**GEOLOGIC**

**GENERAL INFO**

BOTTOM HOLE ASSEMBLY#	LENGTH	O.D.	I.D.	FORMATION	MD	TVD	LITHOLOGY	RIG INFO			
8 1/2" bit		8.500		Thrust fault	7,660	7,660		Co Man	435-979-2202		
VertiTrak(motor)		7.063	np	Twin creek 2	7,883	7,883		Mudlogger			
Float sub	3.49	5.000	np					Toolpusher			
Filter sub	5.55	6.500	2.94	GAS DATA				Last BOP Test	7/5		
Xo	1.85	5.000	2.25	BOTTOMS UP TIME	BG GAS	CONN GAS	TRIP GAS	Next BOP Test	8/4		
8 1/4 stab. / Xo	7.96	6.500	2.81	SHOWS				Last Safety Meeting	8/3		
25 - SWDP	767.91	5.000	3.00	GAS UNITS	FROM	TO	ROP (FT/HR)	Last BOP Drill	7/30		
Jar	32.53	6.500	2.75					Last Operate Pipe Ra	7/30		
4 - SWDP	123.28	5.000	3.00					Last Operate Blind Ra	8/2		
<b>TOTAL</b>	<b>942.57</b>							Last Operate Annular	7/26		
STRING WT.	BHA WT.	PU WT.	SO WT.	ROT. TORQUE	GRD. ELEVATION	GL TO KB	KB ELEVATION	SURF CSG	INT CASING 1	INT CASING 2	PROD CSG
202	55	225	190		5,793	26	5,819	1,915	6,985		(14500)

**SURVEYS**

MD	INCL.	AZIMUTH	TVD	N/S-	E+/W-	SECTION	DLS	TOOL	MD	INCL.	AZIMUTH	TVD	N/S-	E+/W-	SECTION	DLS	TOOL	

**DAILY ACTIVITY**

FROM	TO	HRS	LAST 24 HOURS:
0:00	:30	0.50	Short trip to shoe @ 6985'
:30	1:30	1.00	Trip in 6985' to 8319' no fill
1:30	4:30	3.00	Circ. & cond. Hole for logs pump 50 bbl. 40#/bbl nut plug & mica sweep hole
4:30	8:30	4.00	Trip out for logs lay down Veritrak work blind rams
8:30	0:00	15.50	Rig up & log first log to bottom @ 1130 loggers TD = 8301'
0:00			3 logging runs = Wave Sonic, Dip Meter (XRMI) , Induction, Density-Neutron 20 Side wall core points
0:00			Depth of core points 7910'-7920'-7930'-7980'-8004'-8006'-8028'-8040'-8050'-8060'-8068'-8076'-8090'-8096'
0:00			8100'-8104'-8125'-8210'-8220'-8230'-Recovered all 20 cores
0:00			Well took 38 bbls drilling fluid during short trip
0:00			While circ.well took 36 bbls. Drilling fluid rate of 12 bbls/hour
0:00			On trip out well took 21bbls. Drilling fluid over displacement of tubulars to fill hole
0:00			While logging well was stable for a short time then started taking drilling fluid @ a rate of 18 bbls./hour
0:00			
0:00			Well took 351 bbls. Drilling fluid over last 24 hours
0:00			
0:00			
0:00			0500 Testing bops
0:00			
0:00			
Daily Total		24.00	

SEE ATTACHED COST DETAIL PAGE FOR ESTIMATED DRY HOLE COSTS

Operator: Wolverine Gas & Oil Co of Utah, LLC

**DAILY DRILLING REPORT**

24 hrs - midnight to midnight

DATE 08/01/07	WELL Wolverine Federal 17-8	CONTRACTOR SST #68	COUNTY, STATE Sevier, UT	SPUD DATE 6/28/07	API# 43-041-30047	SUPERVISOR Rodger Rebsom	
DAYS F/ SPUD 35	PRESENT OPERATIONS @ 2400 Hour Short trip for logs	TOTAL DEPTH 8,319	PROGRESS 158	DRILLING TIME 21.00	ROP 7.5	TD FORMATION Kaibab	AUTH. DEPTH 14,500

**MUD DATA**

DATE/TIME	DEPTH	WT	VIS	PV	YP	GELS	FILTRATE	CAKE/32	SOLIDS	SAND	PH	CHLORIDES	SALT	CALC	LCM
8/1/08:00	8180	8.4+	44	14	14	7/9	9.0	1	1.00	tr	9.0	3,800	6,270	90	

**BIT DATA**

BIT NO.	SIZE	MFG.	TYPE	IADC CODE	SERIAL NO.	JETS (1/32nd") or TFA			IN	OUT	FOOTAGE	HOURS	ROP	MTR	RPM RT+MTR	WOB	DULL CONDITION		
																	T	B	G
10	8.500	STC	F67YODR	747	MY1931	16	16	16						Y	0-84	35			

**HYDRAULICS**

**SLOW PUMP PSI**

PUMP NO.	MANUFACTURER	LINER	STROKE LENGTH	GAL / STK 100%	SPM	GPM	AV DP	AV DC	PUMP PRESS.	MOTOR DIFF PSI	HHP/IN2	ECD	DEPTH	SPM
1	National 10P130	6.0	10	3.5	100	350							1	65
2	National 10P130	6.0	10	3.5	0	0							1	660
3					0	0							2	660
							181	295	1210	125	1.10	8.65	3	

**CONFIDENTIAL REPORT**

**DRILL STRING**

**GEOLOGIC**

**GENERAL INFO**

BOTTOM HOLE ASSEMBLY#	LENGTH	O.D.	I.D.	FORMATION	MD	TVD	LITHO LOGY	RIG INFO		
8 1/2" bit	1.00	8.500		Thrust fault	7,660	7,660		Co Man	435-979-2202	
VertiTrak(motor)	30.78	7.063	np	Twin creek 2	7,883	7,883		Mudlogger		
Float sub	3.49	5.000	np					Toolpusher		
Filter sub	5.55	6.500	2.94	GAS DATA				Last BOP Test	7/5	
Xo	1.85	5.000	2.25	BOTTOMS UP TIME	BG GAS	CONN GAS	TRIP GAS	Next BOP Test	8/4	
8 1/4 stab. / Xo	7.96	6.500	2.81	41	32	36		Last Safety Meeting	8/1	
25 - SWDP	767.91	5.000	3.00	SHOWS				Last BOP Drill	7/30	
Jar	32.53	6.500	2.75	GAS UNITS	FROM	TO	ROP (FT/HR)	Last Operate Pipe Ra	7/30	
4 - SWDP	123.28	5.000	3.00					Last Operate Blind Ra	7/30	
TOTAL	974.35							Last Operate Annular	7/26	
STRING WT.	BHA WT.	PU WT.	SO WT.	ROT. TORQUE	GRD. ELEVATION	GL TO KB	KB ELEVATION	SURF CSG	INT CASING 1	PROD CSG
202	55	225	190		5,793	26	5,819	1,915	6,985	(14500)

**SURVEYS**

MD	INCL.	AZIMUTH	TVD	N+S-	E+ / W-	SECTION	DLS	TOOL	MD	INCL.	AZIMUTH	TVD	N+S-	E+ / W-	SECTION	DLS	TOOL	

**DAILY ACTIVITY**

FROM	TO	HRS	LAST 24 HOURS:
0:00	6:00	6.00	Drill & survey from 8161' to 8180'
6:00	7:00	1.00	Mix & pump 2-50 bbl lcm pills 35#/bbl nut plug & mica pills
7:00	22:00	15.00	Drill & survey from 8180' to 8319'
22:00	23:00	1.00	Circ. Bottoms up cond. Mud for logs
23:00	0:00	1.00	Short trip for logs had to pump first two stands out
0:00			
0:00			motor stalling @ reduced rate mix & pump six 50 bbl. 35#pbbl nutplug & mica pills over last 24 hours
0:00			Was losing 30 bbls/hour drilling fluid last two hours while drilling slowed down to 14 bbls/hour
0:00			Well took 38 bbls drilling fluid during short trip
0:00			
0:00			Total fluid loss over last 24 hours was 643 bbls drilling fluid
0:00			
0:00			
0:00			
0:00			
0:00			
0:00			
0:00			0600 hour trip out for logs
0:00			
0:00			
Daily Total		24.00	

SEE ATTACHED COST DETAIL PAGE FOR ESTIMATED DRY HOLE COSTS

Operator: Wolverine Gas & Oil Co of Utah, LLC

DAILY DRILLING REPORT

24 hrs - midnight to midnight

Table with 8 columns: DATE, WELL, CONTRACTOR, COUNTY, STATE, SPUD DATE, API#, SUPERVISOR, DAYS F/SPUD, PRESENT OPERATIONS @ 2400 Hour, TOTAL DEPTH, PROGRESS, DRILLING TIME, ROP, TD FORMATION, AUTH. DEPTH

MUD DATA

Table with 15 columns: DATE/TIME, DEPTH, WT, VIS, PV, YP, GELS, FILTRATE, CAKE/32, SOLIDS, SAND, PH, CHLORIDES, SALT, CALC, LCM

BIT DATA

Table with 18 columns: BIT NO., SIZE, MFG., TYPE, IADC CODE, SERIAL NO., JETS (1/32nd" or TFA), IN, OUT, FOOTAGE, HOURS, ROP, MTR, RPM, WOB, DULL CONDITION

HYDRAULICS

SLOW PUMP PSI

Table with 14 columns: PUMP NO., MANUFACTURER, LINER, STROKE LENGTH, GAL / STK 100%, SPM, GPM, AV DP, AV DC, PUMP PRESS., MOTOR DIFF PSI, HHP/IN2, ECD, DEPTH, 8100, SPM, 65

CONFIDENTIAL REPORT

DRILL STRING

GEOLOGIC

GENERAL INFO

Table with 10 columns: BOTTOM HOLE ASSEMBLY #, LENGTH, O.D., I.D., FORMATION, MD, TVD, LITHO LOGY, RIG INFO

SURVEYS

Table with 18 columns: MD, INCL, AZIMUTH, TVD, N+S, E+W, SECTION, DLS, TOOL, MD, INCL, AZIMUTH, TVD, N+S, E+W, SECTION, DLS, TOOL

DAILY ACTIVITY

Table with 4 columns: FROM, TO, HRS, LAST 24 HOURS

SEE ATTACHED COST DETAIL PAGE FOR ESTIMATED DRY HOLE COSTS

## NOTICE

Utah Oil and Gas Conservation General Rule R649-3-21 states that,

- A well is considered completed when the well has been adequately worked to be capable of producing oil or gas or when well testing as required by the division is concluded.
- Within 30 days after the completion or plugging of a well, the following shall be filed:
  - Form 8, Well Completion or Recompletion Report and Log
  - A copy of electric and radioactivity logs, if run
  - A copy of drillstem test reports,
  - A copy of formation water analyses, porosity, permeability or fluid saturation determinations
  - A copy of core analyses, and lithologic logs or sample descriptions if compiled
  - A copy of directional, deviation, and/or measurement-while-drilling survey for each horizontal well

Failure to submit reports in a timely manner will result in the issuance of a Notice of Violation by the Division of Oil, Gas and Mining, and may result in the Division pursuing enforcement action as outlined in Rule R649-10, Administrative Procedures, and Section 40-6-11 of the Utah Code.

---

As of the mailing of this notice, the division has not received the required reports for

Operator: Wolverine Gas & Oil Co UT Today's Date: 11/27/2007

Well:	API Number:	Drilling Commenced:
Wolverine Fed 17-8 drlg rpts/wcr	4304130047	06/16/2007

To avoid compliance action, required reports should be mailed within 7 business days to:

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

If you have questions or concerns regarding this matter, please call (801) 538-5284.

cc: Well File  
Compliance File

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

<b>SUNDRY NOTICES AND REPORTS ON WELLS</b>		5. LEASE DESIGNATION AND SERIAL NUMBER: <b>UTU-73528</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.		6. IF INDIAN, ALLOTTEE OR TRIBE NAME: <b>NA</b>
1. TYPE OF WELL OIL WELL <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER _____		7. UNIT or CA AGREEMENT NAME: <b>Wolverine Federal Unit</b>
2. NAME OF OPERATOR: <b>Wolverine Gas and Oil Company of Utah, LLC</b>		8. WELL NAME and NUMBER: <b>Wolverine Federal 17-8</b>
3. ADDRESS OF OPERATOR: 55 Campau NW CITY Grand Rapids STATE MI ZIP 49503-2616		9. API NUMBER: <b>4304130047</b>
4. LOCATION OF WELL FOOTAGES AT SURFACE: 2020' FSL and 1602' FWL COUNTY: <b>Sevier</b> QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: <b>NESW 17 23S 01W S</b> STATE: <b>UTAH</b>		10. FIELD AND POOL, OR WILDCAT: <b>Covenant Field, Navajo</b>
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 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.

This well was the first of two wells drilled on a single pad. There has been no activity on this well since production casing was run and cemented on September 15, 2007, and the drilling rig was skidded to the Wolverine Federal 17-9, the other well on the drill pad. Wolverine Federal 17-8 will be completed after completion activities are finished on the Wolverine Federal 17-9.

NAME (PLEASE PRINT) Ellis M. Peterson TITLE Senior Production Engineer

SIGNATURE  DATE 11/29/2007

(This space for State use only)

**RECEIVED**  
**DEC 06 2007**  
DIV. OF OIL, GAS & MINING



**WOLVERINE GAS AND OIL COMPANY  
OF UTAH, LLC**

*Energy Exploration in Partnership with the Environment*

November 29, 2007

CONFIDENTIAL

Mr. Gil Hunt  
Utah Division of Oil, Gas and Mining  
P.O. Box 145801  
Salt Lake City, Utah 84114-5801

Re: Sundry Notices - Wolverine Gas and Oil Company of Utah, LLC  
**Wolverine Federal 17-8**  
**Wolverine Federal 17-9**  
**Wolverine State Twist Canyon 16-1**

Dear Mr. Hunt:

Wolverine Gas and Oil Company of Utah, LLC respectfully submits the attached Sundry Notices (Form 9) in duplicate for the referenced wells. The Sundry Notices are to provide status of wells that have not yet been completed.

Please accept this letter as Wolverine's written request for confidential treatment of all information contained in and pertaining to these wells.

Sincerely,

Ellis M. Peterson  
Senior Production Engineer  
Wolverine Gas and Oil

**RECEIVED**

**DEC 06 2007**

**DIV. OF OIL, GAS & MINING**

**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: UTU-73528
2. NAME OF OPERATOR: Wolverine Gas and Oil Company of Utah, LLC				6. IF INDIAN, ALLOTTEE OR TRIBE NAME: NA
3. ADDRESS OF OPERATOR: 55 Campau NW		CITY Grand Rapids	STATE MI	7. UNIT or CA AGREEMENT NAME: Wolverine Federal Unit
		ZIP 49503-2616	PHONE NUMBER: (616) 458-1150	8. WELL NAME and NUMBER: Wolverine Federal 17-8
4. LOCATION OF WELL		FOOTAGES AT SURFACE: 2020' FSL and 1602' FWL		9. API NUMBER: 4304130047
		QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: NESW 17 23S 01W S		10. FIELD AND POOL, OR WILDCAT: Covenant Field, Navajo
		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 checked="" type="checkbox"/> SUBSEQUENT REPORT (Submit Original Form Only)  Date of work completion: _____	<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"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input checked="" type="checkbox"/> OTHER: <u>Activity Update</u>
	<input type="checkbox"/> CONVERT WELL TYPE	<input type="checkbox"/> RECOMPLETE - DIFFERENT FORMATION	

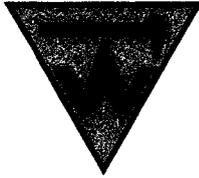
12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

The Wolverine Federal 17-8 and 17-9 wells are both located on the same drilling pad. Surface facilities are being constructed but there has been no subsurface activity on the Wolverine Federal 17-8 well since production casing was run and cemented on September 15, 2007. Completion work on the Wolverine Federal 17-8 will commence after the rig activities in progress on the Wolverine Federal 17-9 are complete.

NAME (PLEASE PRINT) <u>Ellis M. Peterson</u>	TITLE <u>Senior Production Engineer</u>
SIGNATURE	DATE <u>12/27/2007</u>

(This space for State use only)

**RECEIVED**  
**JAN 04 2008**  
DIV. OF OIL, GAS & MINING **CONFIDENTIAL**



**WOLVERINE GAS AND OIL COMPANY  
OF UTAH, LLC**

*Energy Exploration in Partnership with the Environment*

January 29, 2008

CONFIDENTIAL

Mr. Gil Hunt  
Utah Division of Oil, Gas and Mining  
P.O. Box 145801  
Salt Lake City, Utah 84114-5801

Re: Reporting Forms - Wolverine Gas and Oil Company of Utah, LLC  
**Wolverine Federal 17-8** (UDOGM Sundry Notice)  
**Wolverine Federal 17-9** (BLM Completion Report and BLM Sundry Notice)  
**Wolverine State Twist Canyon 16-1** (UDOGM Sundry Notice)  
*FED 21-2*

Dear Mr. Hunt:

Wolverine Gas and Oil Company of Utah, LLC respectfully submits the enclosed Sundry Notices (Form 9) in duplicate for the Wolverine Federal 17-8 and Wolverine State Twist Canyon 16-1. A copy of the BLM Completion Report for the Wolverine Federal 17-9 along with copies of materials required to be submitted with that Completion Report are also enclosed.

Please accept this letter as Wolverine's written request for confidential treatment of all information pertaining to these wells.

Sincerely,

Ellis M. Peterson  
Senior Production Engineer  
Wolverine Gas and Oil

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FEB 08 2008

Div. of Oil, Gas and Mining

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

<b>SUNDRY NOTICES AND REPORTS ON WELLS</b>		5. LEASE DESIGNATION AND SERIAL NUMBER: <b>UTU-73528</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.		6. IF INDIAN, ALLOTTEE OR TRIBE NAME: <b>NA</b>
1. TYPE OF WELL OIL WELL <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER _____		7. UNIT or CA AGREEMENT NAME: <b>Wolverine Federal Unit</b>
2. NAME OF OPERATOR: <b>Wolverine Gas and Oil Company of Utah, LLC</b>		8. WELL NAME and NUMBER: <b>Wolverine Federal 17-8</b>
3. ADDRESS OF OPERATOR: <b>55 Campau NW</b> CITY <b>Grand Rapids</b> STATE <b>MI</b> ZIP <b>49503-2616</b>		9. API NUMBER: <b>4304130047</b>
4. LOCATION OF WELL FOOTAGES AT SURFACE: <b>2020' FSL and 1602' FWL</b>		10. FIELD AND POOL, OR WILDCAT: <b>Covenant Field, Navajo</b>
QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: <b>NESW 17 23S 01W S</b>		COUNTY: <b>Sevier</b> STATE: <b>UTAH</b>

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>Activity Update</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.

A completion unit rigged up on the Wolverine Federal 17-8 on 1/18/08 and completion activities are currently in progress.

NAME (PLEASE PRINT) <u>Ellis M. Peterson</u>	TITLE <u>Senior Production Engineer</u>
SIGNATURE	DATE <u>1/29/2008</u>

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**RECEIVED**  
**FEB 08 2008**  
DIV. OF OIL, GAS & MINING

## NOTICE

Utah Oil and Gas Conservation General Rule R649-3-21 states that,

- A well is considered completed when the well has been adequately worked to be capable of producing oil or gas or when well testing as required by the division is concluded.
- Within 30 days after the completion or plugging of a well, the following shall be filed:
  - Form 8, Well Completion or Recompletion Report and Log
  - A copy of electric and radioactivity logs, if run
  - A copy of drillstem test reports,
  - A copy of formation water analyses, porosity, permeability or fluid saturation determinations
  - A copy of core analyses, and lithologic logs or sample descriptions if compiled
  - A copy of directional, deviation, and/or measurement-while-drilling survey for each horizontal well

Failure to submit reports in a timely manner will result in the issuance of a Notice of Violation by the Division of Oil, Gas and Mining, and may result in the Division pursuing enforcement action as outlined in Rule R649-10, Administrative Procedures, and Section 40-6-11 of the Utah Code.

---

As of the mailing of this notice, the division has not received the required reports for

Operator: Wolverine Gas & Oil Co UT Today's Date: 02/14/2008

Well:	API Number:	Drilling Commenced:
Wolverine Fed 17-8 drlg rpts/wcr	4304130047	06/16/2007
Wolverine Fed 17-9 drlg rpts/wcr	4304130049	06/16/2007
Wov Fed Arapien Vly 24-1 drlg rpts/wcr	4303930030	10/03/2007

23S 1W 17

To avoid compliance action, required reports should be mailed within 7 business days to:

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

If you have questions or concerns regarding this matter, please call (801) 538-5284.

cc: Well File  
Compliance File



**WOLVERINE GAS AND OIL COMPANY  
OF UTAH, LLC**

*Energy Exploration in Partnership with the Environment*

February 15, 2008

CONFIDENTIAL

Al McKee  
BLM Utah State Office  
PO Box 45155  
Salt Lake City, Utah 84145-0155  
United States of America

RE: Sundry Notices - Wolverine Gas and Oil Company of Utah, LLC  
**Wolverine Federal 17-8, API 43-041-30047**  
**Wolverine Federal 17-9, API 43-041-30049**  
Covenant Field, Sevier County, Utah

Dear Mr. McKee:

Wolverine Gas and Oil Company of Utah, LLC (Wolverine) respectfully submits the enclosed Sundry Notices in triplicate for the two referenced wells.

Please accept this letter as Wolverine's written request for confidential treatment of all information contained in and pertaining to these notices.

Please advise if you have any questions or need additional information.

Sincerely,

Ellis M. Peterson  
Senior Production Engineer  
Wolverine Gas and Oil

cc: UDOGM w/ attachments in duplicate

RECEIVED  
FEB 19 2008

DIV. OF OIL, GAS & MINING

**COPY**

CONFIDENTIAL

CONFIDENTIAL

Form 3160-5  
(April 2004)

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

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

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

5. Lease Serial No.  
UTU-73528

6. If Indian, Allottee or Tribe Name  
NA

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

8. Well Name and No.  
Wolverine Federal 17-8

9. API Well No.  
4304130047

10. Field and Pool, or Exploratory Area  
Covenant Field, Navajo

11. County or Parish, State  
Sevier County, Utah

**SUBMIT IN TRIPLICATE- Other instructions on reverse side.**

1. Type of Well  
 Oil Well  Gas Well  Other

2. Name of Operator  
Wolverine Gas and Oil Company of Utah, LLC

3a. Address  
55 Campau NW, Grand Rapids, MI 49503

3b. Phone No. (include area code)  
616-458-1150

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)  
2020' FSL, 1602' FWL, Sec. 17, T23S, R1W, SLB&M

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

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

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

The Navajo 2 in this well was perforated at 8360' - 8370' and 8210' - 8220' with 6 SPF and swab tested to verify that the reservoir produces only water. The perforations were abandoned by setting a CICR at 8200' and cementing with 25 sacks (5.12 barrels) of Class "G" cement. Approximately 4.12 barrels of cement were pumped below the CICR and 1.0 barrel of cement was dumped on top of the CICR. The top of the cement plug was tagged at 8130' by wireline.

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FEB 19 2008  
DIV. OF OIL, GAS & MINING

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

Ellis Peterson

Title Sr. Production Engineer

Signature

Date

02/15/2008

**THIS SPACE FOR FEDERAL OR STATE OFFICE USE**

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

Title

Date

Office

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

(Instructions on page 2)

CONFIDENTIAL

COPY

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

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

**SUNDRY NOTICES AND REPORTS ON WELLS**

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

**SUBMIT IN TRIPLICATE- Other instructions on reverse side.**

1. Type of Well  
 Oil Well  Gas Well  Other

2. Name of Operator **Wolverine Gas and Oil Company of Utah, LLC**

3a. Address  
**55 Campau NW, Grand Rapids, MI 49503**

3b. Phone No. (include area code)  
**616-458-1150**

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)  
**2020' FSL, 1602' FWL, Sec. 17, T23S, R1W, SLB&M**

5. Lease Serial No.  
**UTU-73528**

6. If Indian, Allottee or Tribe Name  
**NA**

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

8. Well Name and No.  
**Wolverine Federal 17-8**

9. API Well No.  
**4304130047**

10. Field and Pool, or Exploratory Area  
**Covenant Field, Navajo**

11. County or Parish, State  
**Sevier County, Utah**

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

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

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

**Oil production in saleable quantities was initiated during completion operations in the Twin Creek Formation in this well on February 14, 2008. Oil gravity was 37 degrees API at 60 degrees F per field measurement.**

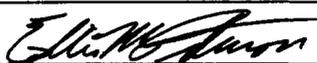
RECEIVED

FEB 19 2008

DIV. OF OIL, GAS & MINING

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

Name (Printed/Typed) **Ellis Peterson** Title **Sr. Production Engineer**

Signature  Date **02/15/2008**

**THIS SPACE FOR FEDERAL OR STATE OFFICE USE**

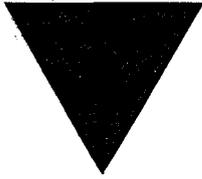
Approved by \_\_\_\_\_ Title \_\_\_\_\_ Date \_\_\_\_\_

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

Office \_\_\_\_\_

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

(Instructions on page 2)



**WOLVERINE GAS AND OIL COMPANY  
OF UTAH, LLC**

*Energy Exploration in Partnership with the Environment*

March 26, 2008

Mr. Gil Hunt  
Utah Division of Oil, Gas and Mining  
P.O. Box 145801  
Salt Lake City, Utah 84114-5801

Re: Reporting Forms - Wolverine Gas and Oil Company of Utah, LLC  
**Wolverine Federal 17-8** (UDOGM Sundry Notice)  
**Wolverine State Twist Canyon 16-1** (UDOGM Sundry Notice)  
**Wolverine Federal 17-5** (BLM Sundry Notice)

Dear Mr. Hunt:

Wolverine Gas and Oil Company of Utah, LLC respectfully submits the enclosed Sundry Notices (Form 9) in duplicate for the Wolverine Federal 17-8 and Wolverine State Twist Canyon ~~16-1~~<sup>17-2</sup>. A copy of a BLM Sundry Notice for a recompletion workover performed on the Wolverine Federal 17-5 is also enclosed.

Please accept this letter as Wolverine's written request for confidential treatment of all information pertaining to these wells.

Sincerely,

Ellis M. Peterson  
Senior Production Engineer  
Wolverine Gas and Oil

**RECEIVED**  
**APR 01 2008**  
DIV. OF OIL, GAS & MINING

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

**CONFIDENTIAL**

FORM 9

<b>SUNDRY NOTICES AND REPORTS ON WELLS</b>			5. LEASE DESIGNATION AND SERIAL NUMBER: <b>UTU-73528</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.			6. IF INDIAN, ALLOTTEE OR TRIBE NAME: <b>NA</b>
1. TYPE OF WELL <b>OIL WELL</b> <input checked="" type="checkbox"/> <b>GAS WELL</b> <input type="checkbox"/> <b>OTHER</b> _____			7. UNIT or CA AGREEMENT NAME: <b>Wolverine Federal Unit</b>
2. NAME OF OPERATOR: <b>Wolverine Gas and Oil Company of Utah, LLC</b>			8. WELL NAME and NUMBER: <b>Wolverine Federal 17-8</b>
3. ADDRESS OF OPERATOR: <b>55 Campau NW</b> CITY <b>Grand Rapids</b> STATE <b>MI</b> ZIP <b>49503-2616</b>		PHONE NUMBER: <b>(616) 458-1150</b>	9. API NUMBER: <b>4304130047</b>
4. LOCATION OF WELL FOOTAGES AT SURFACE: <b>2020' FSL and 1602' FWL</b>			10. FIELD AND POOL, OR WILDCAT: <b>Covenant Field, Navajo</b>
QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: <b>NESW 17 23S 01W S</b>			COUNTY: <b>Sevier</b> STATE: <b>UTAH</b>

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA			
TYPE OF SUBMISSION	TYPE OF ACTION		
<input type="checkbox"/> <b>NOTICE OF INTENT</b> (Submit in Duplicate) Approximate date work will start: _____	<input 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 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/RESUME) <input type="checkbox"/> RECLAMATION OF WELL SITE <input type="checkbox"/> RECOMPLETE - DIFFERENT FORMATION	<input type="checkbox"/> REPERFORATE CURRENT FORMATION <input type="checkbox"/> SIDETRACK TO REPAIR WELL <input type="checkbox"/> TEMPORARILY ABANDON <input type="checkbox"/> TUBING REPAIR <input type="checkbox"/> VENT OR FLARE <input type="checkbox"/> WATER DISPOSAL <input type="checkbox"/> WATER SHUT-OFF <input checked="" type="checkbox"/> OTHER: <b>Activity Update</b>
<input checked="" type="checkbox"/> <b>SUBSEQUENT REPORT</b> (Submit Original Form Only) Date of work completion: _____			

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

Twin Creek Formation perforations at 7996' - 8008', 8050' - 8070', and 8088' - 8108' were flow tested until high volume water production eventually caused the well to quit flowing. On 3/25/08 a completion unit was moved to swab test and determine the source of the water, possibly cement squeeze water producing intervals, add additional perforations at 8014' - 8026', and run pumping equipment. The well is expected to be completed for production following this work.

NAME (PLEASE PRINT) <u>Ellis M. Peterson</u>	TITLE <u>Senior Production Engineer</u>
SIGNATURE	DATE <u>3/26/2008</u>

(This space for State use only)

**RECEIVED**  
**APR 01 2008**  
**DIV. OF OIL, GAS & MINING**

UDOGM

Form 3160-4  
(April 2004)

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

CONFIDENTIAL

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

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

1a. Type of Well  Oil Well  Gas Well  Dry  Other  
b. Type of Completion:  New Well  Work Over  Deepen  Plug Back  Diff. Resvr.,  
Other \_\_\_\_\_

5. Lease Serial No.  
UTU-73528

6. If Indian, Allottee or Tribe Name  
N.A.

7. Unit or CA Agreement Name and No.  
Wolverine Federal Unit

8. Lease Name and Well No.  
Wolverine Federal 17-8

2. Name of Operator **Wolverine Gas and Oil Co. of Utah, LLC**

3. Address **55 Campau NW, Grand Rapids, MI 49503**

3a. Phone No. (include area code)  
**616-458-1150**

9. AFI Well No.  
**4304130047**

4. Location of Well (Report location clearly and in accordance with Federal requirements)\*

At surface **2020' FSL, 1602' FWL, Sec. 17, T23S, R1W**

At top prod. interval reported below **2020' FSL, 1602' FWL, Sec. 17, T23S, R1W**

At total depth **2020' FSL, 1620' FWL, Sec. 17, T23S, R1W**

10. Field and Pool, or Exploratory  
**Covenant Field, Twin Creek**

11. Sec., T., R., M., on Block and Survey or Area **17, T23S, R1W, NESW, SLB&M**

12. County or Parish **Sevier** 13. State **UT**

14. Date Spudded  
**06/16/2007**

15. Date T.D. Reached  
**09/07/2007**

16. Date Completed **04/08/2008**  
 D & A  Ready to Prod.

17. Elevations (DF, RKB, RT, GL)\*  
**5819' KB, 5793' GL**

18. Total Depth: MD **13760'**  
TVD **13760'**

19. Plug Back T.D.: MD **8130'**  
TVD **8130'**

20. Depth Bridge Plug Set: MD **8200'**  
TVD **8200'**

21. Type Electric & Other Mechanical Logs Run (Submit copy of each)  
**DLL, MSFL, DML, SD, DSN, WS, ICD, HRI, Pex, CP, PIT, TLD, H GNS, MCEL, AIL, BHC, CPL, GR**

22. Was well cored?  No  Yes (Submit analysis)  
Was DST run?  No  Yes (Submit report)  
Directional Survey?  No  Yes (Submit copy)

23. Casing and Liner Record (Report all strings set in well) **CEL, LD, CN, MUD**

Hole Size	Size/Grade	Wt. (#/ft.)	Top (MD)	Bottom (MD)	Stage Cementer Depth	No. of Sks. & Type of Cement	Slurry Vol. (BBL)	Cement Top*	Amount Pulled
30.0"	20"	0.25 wall	Surface	115		redi-mix	67	Surface	
17.5"	13.375 J	68.0	Surface	1915		352 CBM	271	Surf. (CIR)	
"	"	"				470 Type V	100		
12.25"	9.625 P	47.0	Surface	6985	5671	570 50:50 Poz	128	1100 (TS)	
"	"	"			5671	170 C+ 805 G	315		
8.5"	5.500 L	20.0	Surface	9524	6816	425 50:50 Poz	136	6816 (CIR)	

24. Tubing Record

Size	Depth Set (MD)	Packer Depth (MD)	Size	Depth Set (MD)	Packer Depth (MD)	Size	Depth Set (MD)	Packer Depth (MD)
2 3/8	8058	8036	2-7/8	7956	7956			

25. Producing Intervals

Formation	Top	Bottom	Perforated Interval	Size	No. Holes	Perf. Status
A) Navajo	8360	8370	8360 - 8370	0.40"	60	Plugged
B) Navajo	8210	8220	8210 - 8220	0.40"	60	Plugged
C) Twin Creek	7996	8108	7996 - 8108	0.40"	256	Open - Producing
D)						

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

Depth Interval	Amount and Type of Material
8210 - 8370	Perforations were squeeze cemented with 5.1 Bbls of Class "G" cement through a cement retainer at 8200'.

28. Production - Interval A

Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
	02/08/2008	7.5	→	0	0	218			Swabbing
Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas/Oil Ratio	Well Status	
			→						

28a. Production - Interval B

Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
	02/05/2008	10	→	0	0	363			Swabbing
Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas/Oil Ratio	Well Status	
			→						

\*(See instructions and spaces for additional data on page 2)

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DIV. OF OIL, GAS & MINING

28b. Production - Interval C

Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
02/14/2008	04/10/2008	24	→	170	Tr	352	39		Temporary Hydraulic Pump
Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas/Oil Ratio	Well Status	
			→	170	Tr	352			Producing Oil Well

28c. Production - Interval D

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

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

Vented

30. Summary of Porous Zones (Include Aquifers):

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

31. Formation (Log) Markers

Formation	Top	Bottom	Descriptions, Contents, etc.	Name	Top
					Meas. Depth
Navajo 2	8206	9470	Water	Arapien	Surface
Twin Creek 2	7876	8206	Water and Oil	Twin Creek 1	5614
Wingate 1	7227	7644	Water	Navajo 1	5912
Kayenta 1	7088	7227	Water	Chinle 1	7644
Navajo 1	5912	7088	Water and Oil	Twin Creek 2	7876
				Navajo 2	8206
				Chinle 2	9998
				Moenkopi	10476
				Sinbad	12116
				Black Dragon	12503
				Kaibab	12973
				Toroweap	13350

32. Additional remarks (include plugging procedure):

Cement Plugs were set at 12,700' - 12,910' and 9850' - 10,150' before running 5-1/2" production casing. Navajo 2 perforations at 8360' - 8370' and 8210' - 8220' were cemented with 25 sacks (5.12 barrels) of Class "G" through a CICR at 8200'. The top of the cement plug was wireline tagged at 8130' as the current PBTD.

33. Indicate which items have been attached by placing a check in the appropriate boxes:

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

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

Name (please print) Ellis Peterson

Title Sr. Production Engineer

Signature 

Date 04/14/2008

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



**WOLVERINE GAS AND OIL COMPANY  
OF UTAH, LLC**

*Energy Exploration in Partnership with the Environment*

June 20, 2008

Mr. Stan Andersen  
Fluid Minerals Group  
Bureau of Land Management  
Richfield Field Office  
150 East 900 North  
Richfield, Utah 84701

Re: Sundry Notice - Wolverine Gas and Oil Company of Utah, LLC  
**Wolverine Federal 17-8**

Dear Mr. Andersen:

Wolverine Gas and Oil Company of Utah, LLC respectfully submits the enclosed Sundry Notice (Form 3160-5) for the Wolverine Federal 17-8 located in the Covenant Field.

Please accept this letter as Wolverine's written request for continued confidential treatment of all information relating to this well.

Sincerely,

Ellis M. Peterson  
Senior Production Engineer  
Wolverine Gas and Oil

cc: Gil Hunt, UDOGM

**RECEIVED**

**JUN 26 2008**

**DIV. OF OIL, GAS & MINING**

UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT

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

SUNDRY NOTICES AND REPORTS ON WELLS

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

SUBMIT IN TRIPLICATE- Other instructions on reverse side.

1. Type of Well [X] Oil Well [ ] Gas Well [ ] Other [ ]
2. Name of Operator Wolverine Gas and Oil Company of Utah, LLC
3a. Address 55 Campau NW, Grand Rapids, MI 49503
3b. Phone No. (include area code) 616-458-1150
4. Location of Well (Footage, Sec., T., R., M., or Survey Description) 2020' FSL, 1602' FWL, Sec. 17, T23S, R1W, SLB&M

5. Lease Serial No. UTU-73528
6. If Indian, Allottee or Tribe Name NA
7. If Unit or CA/Agreement, Name and/or No. Wolverine Unit
8. Well Name and No. Wolverine Federal 17-8
9. API Well No. 4304130047
10. Field and Pool, or Exploratory Area Covenant Field, Navajo
11. County or Parish, State Sevier County, Utah

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

Table with columns TYPE OF SUBMISSION and TYPE OF ACTION. Includes checkboxes for Notice of Intent, Subsequent Report, Final Abandonment Notice, Acidize, Alter Casing, Casing Repair, Change Plans, Convert to Injection, Deepen, Fracture Treat, New Construction, Plug and Abandon, Plug Back, Production (Start/Resume), Reclamation, Recomplete, Temporarily Abandon, Water Disposal, Water Shut-Off, Well Integrity, and Other.

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

The Twin Creek2 is currently being produced in this well from perforations at 7996'- 8108'. It is planned to temporarily plug back the Twin Creek 2 producing interval using a retrievable bridge plug, back off or cut the 5-1/2" casing at approximately 6600', and then remove the 5-1/2" from the back-off depth to surface. After removal of the 5-1/2" casing, the Navajo1 will be completed by perforating the exposed 9-5/8" casing in five selected perforation intervals at depths from 6178' to 6334' and the well will be placed on production from the Navajo1.

The planned completion activities on this 2007 Covenant Field well are expected to resume on June 29, 2008 and have a duration of approximately 35 days.

COPY SENT TO OPERATOR

Date: 7-16-2008
Initials: KS

RECEIVED

JUN 26 2008

DIV. OF OIL, GAS & MINING

14. I hereby certify that the foregoing is true and correct
Name (Printed/Typed) Ellis Peterson
Title Sr. Production Engineer
Signature [Signature]
Date 06/20/2008

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Federal Approval Of This Action Is Necessary

Approved by [Signature]
Accepted by the [Signature] Title [Signature] Division of [Signature] Office [Signature]
Date 7/14/08

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

Form 3160-5  
(April 2004)

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

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

**SUNDRY NOTICES AND REPORTS ON WELLS**

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

**SUBMIT IN TRIPLICATE- Other instructions on reverse side.**

1. Type of Well <input checked="" type="checkbox"/> Oil Well <input type="checkbox"/> Gas Well <input type="checkbox"/> Other	5. Lease Serial No. UTU-73528
2. Name of Operator Wolverine Gas and Oil Company of Utah, LLC	6. If Indian, Allottee or Tribe Name NA
3a. Address 55 Campau NW, Grand Rapids, MI 49503	7. If Unit or CA/Agreement, Name and/or No. Wolverine Unit
3b. Phone No. (include area code) 616-458-1150	8. Well Name and No. Wolverine Federal 17-8
4. Location of Well (Footage, Sec., T., R., M., or Survey Description) 2020' FSL, 1602' FWL, Sec. 17, T23S, R1W, SLB&M	9. API Well No. 4304130047
	10. Field and Pool, or Exploratory Area Covenant Field, Navajo
	11. County or Parish, State Sevier County, Utah

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

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

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

Work was in progress to remove 5-1/2" casing prior to completing the Navajo1 in this well when it was discovered that the 9-5/8" had collapsed with the most severe deformation in an interval at 5570' - 5590'. It is now planned and work is in progress to swage the 9-5/8" casing out as needed to run 5-1/2" 20# N-80 casing from the cut-off depth of 6580' back to surface and cement it in place. After successfully repairing the casing, work to complete the Navajo 1 at depths from 6178' to 6334' will proceed as previously approved but through the two concentric casing strings. A procedure with details of the planned repair work is included herewith.

Workover activities on this 2007 Covenant Field well are currently in progress. The casing repair is expected to take up to 10 days and then the Navajo1 completion work will have duration of approximately four weeks.

RECEIVED

AUG 12 2008

DIV. OF OIL, GAS & MINING

COPY SENT TO OPERATOR

Date: 8-14-2008

Initials: KS

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

Name (Printed/Typed) Ellis Peterson	Title Sr. Production Engineer
Signature 	Date 08/06/2008

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved by _____	Accepted by the Utah Division of Oil, Gas and Mining	Date 8/12/08	Federal Approval Of This Action Is Necessary
Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.	Office 	Date 8/12/08	

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

**Wolverine Gas & Oil Company of Utah, LLC**  
**Procedure to Repair Collapsed Casing**

**Wolverine Federal 17-8**  
**Covenant Field**

Purpose: Procedure to swage out collapsed 9-5/8" casing and then run and cement 5-1/2" casing in preparation for completing the Navajo.

PERTINENT INFORMATION

Location: 2020' FSL, 1602' FWL (NE-SW)  
Section 17, Township 23 South, Range 1 West  
Sevier County, Utah

Elevation: 5793' GL, 5819' KB

TD: 13,760'

PBTD: 8130' (cement above CICR @ 8200'), Arrowset 1 packer with H-valve top at 7100'  
w/ 2 sacks of sand on top.

API No.: 43-041-30047

Casing: 13-3/8", 68.0# @ 1915', cemented to surface  
9-5/8", 47.0#, HCP-110, LT&C @ 6985', cemented with 570 sks 50:50 Poz and 805  
sks Class 'G'  
5-1/2", 20.0#, L-80, LT&C @ 9524', Weatherford Pack-Off Stage Tool (POST) at  
6816', cemented with 425 sks 50:50 Poz. Casing was cut off at 6580' KB  
using a hydraulic mechanical casing cutter.

Wellhead: Tubing Head Flange: Currently 11" 5k

Tubing: 2-7/8", 6.5#, L-80, EUE, 8rd (has been laid down)

Int./Prod.Casing Specs: 9-5/8", 47.0#, HCP-110, LT&C, 8rd, ID: 8.681" Drift: 8.525"  
Collapse: 7060 psi Burst: 7552 psi (80% 9440 psi)

Production Casing Specs: 5-1/2", 20.0#, L-80, LT&C, 8rd, ID: 4.778" Drift: 4.653"  
Collapse: 8830 psi Burst: 7352 psi (80% 9190 psi)

Tubing Specs: 2-7/8", 6.5#, L-80, EUE, 8rd, ID: 2.441" Drift: 2.347"  
Collapse: 11,170 psi Burst: 10,570 psi (80% 8456 psi)  
Joint: 145,000 lbs (80% 116,000 lbs)

Capacities: 5-1/2", 20.0#: 0.0222 Bbls/ft, 0.1245 ft<sup>3</sup>/ft  
2-7/8", 6.5#: 0.00579 Bbls/ft, 0.0325 ft<sup>3</sup>/ft  
5-1/2" x 2-7/8" Annulus: 0.0141 Bbls/ft, 0.0794 ft<sup>3</sup>/ft  
9-5/8", 47.0#: 0.0732 Bbls/ft, 0.4110 ft<sup>3</sup>/ft  
9-5/8" x 2-7/8" Annulus: 0.0652 Bbls/ft, 0.3660 ft<sup>3</sup>/ft

BH Temperature: 185°F @ 6200' TVD

**Current Twin Creek 2 Perforations:**

7996' - 8008' MD (7996' – 8008' TVD), 12', 48 holes  
8014' - 8026' MD (8014' – 8026' TVD), 12', 48 holes  
8050' - 8070' MD (8050' – 8070' TVD), 20', 80 holes  
8088' - 8108' MD (8088' – 8108' TVD), 20', 80 holes

**Future Navajo1 completion interval: 5914'- 6334' MD**

**All depths are referenced to Halliburton SDL-DSN-GR log dated 7/23/07.**

Note: During completion activities, 5-1/2" casing was cut at 6580' and pulled in anticipation of completing the Navajo1 in the 9-5/8" casing. It was discovered that the 9-5/8" casing was severely salt collapsed at approximately 5600'. A rig is on the well and this procedure outlines plans for swaging the 9-5/8" casing out, running and cementing 5-1/2" casing in place, and cleaning out the 5-1/2" casing in preparation for completing the Navajo1 through the 5-1/2" and 9-5/8" casing strings.

**PROCEDURE**

1. Assure that well is filled to surface with completion fluid. Rig up Weatherford wireline. Run a 3-5/8" OD 40-arm MSC log across collapsed casing interval from 5620' to 5450' with three passes. RIH with a 3-1/8" perforating gun loaded with eight 11-gram loads on 90° phasing. Ease perforating gun into 5-1/2" casing stubbed at 6580', get on depth to Schlumberger CBL (dated 23-Jan-2008) in 5-1/2", and perforate the casing with top shot at 6630'. Tag top of sand at ~7080' to verify depth and POOH with wireline. RD and release Weatherford wireline.

Note: 24-hour operations will start when swaging activities begin. Weatherford is providing equipment and personnel to supervise the swaging operation. Assuming casing deformation has not worsened since the last caliper run, start swaging with a 5.50" swage and plan to increase swage size in 0.125" to 0.25" increments on subsequent runs. On each swage run, after swaging down and pulling up, wait 30 minutes above swaged interval and then run the swage back through before tripping for the next swage. It is anticipated that the worst collapsed interval at ~5580' can be swaged out to a minimum of 6.0" and it is desired to swage out to 6.5". The weight it takes to swage and pull out is to be monitored and communicated, and that information will be used for the basis of determining when swaging is discontinued.

2. Change out BOP rams for 3-1/2" DP. PU and RIH with a swage, one 4-3/4" DC, safety joint, lubricated bumper sub, 4-3/4" hydraulic drilling jar, four 4-3/4" DC, 4-3/4" slinger, and seven 4-3/4" DC on 3-1/2" drill pipe.
3. Swage out collapsed casing at approximately 5576' – 5585' with initial swage sized per the Weatherford Fisherman's recommendation and following the guidelines above. Continue swaging until the casing is out to desired diameter (6.5") or until advised by Wolverine Management to discontinue swaging.
4. After swaging out to final diameter, wait with tools hanging above collapsed spot for a minimum of 12 hours and then check to see if swage goes through collapse area. POOH with tools.

5. RIH with a 6" lead impression block, 950' of DP, one 5-5/8" or 6.25" DC (depending on last swage size), one 4-3/4" DC, safety joint, lubricated bumper sub, 4-3/4" hydraulic drilling jar, four 4-3/4" DC, 4-3/4" slinger, and seven 4-3/4" DC on 3-1/2" drill pipe. Set down on 5-1/2" casing stub to get imprint on IB, and the DC will verify that 5-1/2" casing can be run through the swaged casing. POOH and lay down DP and tools.
6. RU casing crew and RIH with 5-1/2" casing as outlined on the casing tally sheet (to be provided after casing is received and tallied). If 9-5/8" casing was swaged to 6.25"+, the casing will include a cut-off end-joint, 23 joints (~930) of 20# N-80 LTC, 7 joints (~280') of 20# HCP-110 LTC, and ~130 joints (~5340') of 20# N-80 LTC to surface. If 9-5/8" casing was swaged to <6.25", the cut-off joint and bottom 23 full joints will be 20# L-80 Ultraflush-joint with a cross-over to the 20# HCP-110 LTC casing. It is planned to run six slim-hole casing centralizers on lock rings at depths (to be specified on tally sheet) below and at the collapse depth and 11 regular bow-spring centralizers will be spaced out from ~5460' to ~4140'. Lightly tag bottom with casing and then pick up to the free-pipe hanging weight and land casing in slips (without putting weight on bottom).
7. Change out BOP rams for tubing. PU and run inside the 5-1/2" to check drift with a 4-5/8" swage, a ~20' 3-1/2" drill collar, 4-5/8" string mill, 3-3/4" fishing jars, and six 3-1/2" DC on 2-7/8" tubing. Round trip assembly to 6580'.
8. RIH to ~6560' with a Halliburton casing alignment tool (20' long) attached to a 5-1/2" (20#) cement retainer and stinger on 2-7/8" tubing.
9. RU wireline service and run a GR-CCL inside the tubing and correlate depth to the Halliburton SDL-DSN-GR log (23-Jul-2007). RD wireline.
10. Lower the tubing so the alignment tool straddles (10' above and below) where the 5-1/2" casing ends meet at 6587' (Halliburton SDL-DSN-GR log depth), and set the cement retainer (at ~ 6576').
11. RU Halliburton cementing service. Install choke or valve in return line from 9-5/8" casing to hold back pressure as needed during cementing. Pressure test surface lines and tubing to 2500 psi. Shear out of cement retainer with stinger and then sting back into retainer. Establish circulation down tubing and up 5-1/2" x 9-5/8" annulus with fresh water at 2 BPM.
12. Pump 160 Bbls of fresh water containing 70 gallons (1%) of Baker Petrolite CRW132 (biocide, Oxygen Scavenger, and Corrosion Inhibitor), 5 Bbls of fresh water spacer, and 139 Bbls (660 sacks) of cement slurry at 2 BPM. Cement is to be premium Class "G" containing Halliburton recommended additives mixed to 15.8 ppg weight, 1.186 ft<sup>3</sup>/sk yield, and 5.13 gal/sk mix water. Displace cement with 37 Bbls of water and then unstring to dump 1 Bbl of cement on top of cement retainer. Pull up one joint and reverse circulate tubing clean with 70 Bbls of water. RD cementing service and POOH with tubing and stinger.
13. Shut down for 24+ hours to wait on cement and then return to day light operations.
14. Latch casing, pull 50,000 lbs tension, and land casing in slips. Cut casing, ND BOP, and ND tubing head and DSA. Make final casing cut and install DSA and 7-1/16" 5k tubing head. NU BOP.

15. RIH with a 4-5/8" medium-tooth rock bit, and six 3-1/2" DC on 2-7/8" tubing. RU power swivel and drill out cement, cement retainer, and alignment tool. Circulate clean and POOH.
16. RIH with a 4-3/4" tapered mill, a short (~10') 3-1/2" drill collar, 4-3/4" string mill, 3-3/4" fishing jars, and six 3-1/2" DC on 2-7/8" tubing. Work through the area where the 5-1/2" casing was tied together as necessary to assure tools can be smoothly run. Continue to top of sand at ~7080', reverse circulate clean with completion fluid, and POOH with tubing and tools.
17. Proceed to complete Lower Navajo1 in the 5-1/2" casing as will be outlined in a subsequently distributed procedure.

Contacts:

Weatherford Wireline: Ron Wells, 435-781-1868 (office), 435-828-8479 (cell)  
Weatherford Fisherman: Jim Hoffman, 970-242-3845 (home), 970-778-2978 (cell)  
Halliburton Tools: Randy Ripple, 435-781-7532 (office), 435-828-1610 (cell)  
Halliburton Cementing: Corey Reynolds, 435-781-5539 (office)  
Weston Spencer, 435-781-5540 (office)  
Main Dispatch, 435-789-2550

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

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

**SUNDRY NOTICES AND REPORTS ON WELLS**

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

**SUBMIT IN TRIPLICATE- Other instructions on reverse side.**

1. Type of Well  
 Oil Well  Gas Well  Other

2. Name of Operator **Wolverine Gas and Oil Company of Utah, LLC**

3a Address **55 Campau NW, Grand Rapids, MI 49503** 3b. Phone No. (include area code) **616-458-1150**

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)  
**2020' FSL, 1602' FWL, Sec. 17, T23S, R1W, SLB&M**

5. Lease Serial No.  
**UTU-73528**

6. If Indian, Allottee or Tribe Name  
**NA**

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

8. Well Name and No.  
**Wolverine Federal 17-8**

9. API Well No.  
**4304130047**

10. Field and Pool, or Exploratory Area  
**Covenant Field, Navajo**

11. County or Parish, State  
**Sevier County, Utah**

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

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

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

The 9-5/8" casing was swaged out to 5-7/8" through a collapsed interval at 5574' - 5583'. A 5-1/2" casing string was run that consisting of 20#, L-80, Ultra-Flush Joint from 5555' to 6580'; 20#, HCP-110, LTC from 5352' to 5555'; and 20#, N-80, LTC from surface to 5352'. The casing was cemented in place using 660 sacks (139 Bbls) of 15.8 ppg Class "G" cement on 10/19/2008. A total of 12 centralizers were run and spaced through an interval from 4124' to 5574'. The bottom of the new 5-1/2" casing butts to the cut-off casing at 6580' and was held in place to continuous drift while cementing using an alignment tool.

After drilling out cement and the alignment tool and cleaning out of the new production casing, it is planned to complete the Navajo 1 at depths from 6178' to 6334' as previously approved but through the 5-1/2" and 9-5/8" concentric casing strings. A procedure with revised details of the planned completion work is included herewith.

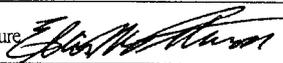
Workover activities on this Covenant Field well will resume on 8/26/2008. The Navajo1 completion work will have duration of approximately four weeks.

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

**Ellis Peterson**

Title **Sr. Production Engineer**

Signature



Date

**08/20/2008**

**THIS SPACE FOR FEDERAL OR STATE OFFICE USE**

Approved by \_\_\_\_\_

Title

Date

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

Office

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

(Instructions on page 2)

RECEIVED

AUG 26 2008

DIV. OF OIL, GAS & MINING

**Wolverine Gas & Oil Company of Utah, LLC**  
**Completion Procedure**

**Wolverine Federal 17-8**  
**Covenant Field**

Purpose: Update original procedure to complete the Navajo1 after running, cementing, and drilling out 5-1/2" casing (inside existing 9-5/8").

PERTINENT INFORMATION

Location: 2020' FSL, 1602' FWL (NE-SW)  
Section 17, Township 23 South, Range 1 West  
Sevier County, Utah

Elevation: 5793' GL, 5819' KB

TD: 13,760'

PBTD: 7080' (Arrowset 1 packer with "H" valve @ 7100' and 2 sacks of sand on top)

API No.: 43-041-30047

Casing: 13-3/8", 68.0# @ 1915', cemented to surface  
9-5/8", 47.0#, HCP-110, LT&C @ 6985', cemented with 570 sks 50:50 Poz and 805 sks Class 'G'  
5-1/2", 20.0#, L-80, UFJ and LT&C @ 9524', Weatherford Pack-Off Stage Tool (POST) at 6816', originally cemented with 425 sks 50:50 Poz. Squeeze perforations at 6630' - 6632', casing cut and realigned at 6580', and cemented in 9-5/8" from 6632' to ~3500' with 660 sacks of Premium Class "G"

Wellhead: Tubing Head Flange – 7-1/16" 5k w/ 2-7/8" EUE top connection

Tubing: 2-7/8", 6.5#, L-80, EUE, 8rd

Production Casing Specs: 5-1/2", 20.0#, L-80, LT&C, 8rd, ID: 4.778" Drift: 4.653"  
Collapse: 8830 psi Burst: 7352 psi (80% 9190 psi)

Tubing Specs: 2-7/8", 6.5#, L-80, EUE, 8rd, ID: 2.441" Drift: 2.347"  
Collapse: 11,170 psi Burst: 10,570 psi (80% 8456 psi)  
Joint: 145,000 lbs (80% 116,000 lbs)

Capacities: 5-1/2", 20.0#: 0.0222 Bbls/ft, 0.1245 ft<sup>3</sup>/ft  
2-7/8", 6.5#: 0.00579 Bbls/ft, 0.0325 ft<sup>3</sup>/ft  
5-1/2" x 2-7/8" Annulus: 0.0141 Bbls/ft, 0.0794 ft<sup>3</sup>/ft

BH Temperature: 185°F @ 6200' TVD

Twin Creek 2 Perforations:

7996' - 8008' MD (7996' - 8008' TVD), 12', 48 holes  
8014' - 8026' MD (8014' - 8026' TVD), 12', 48 holes  
8050' - 8070' MD (8050' - 8070' TVD), 20', 80 holes  
8088' - 8108' MD (8088' - 8108' TVD), 20', 80 holes

Proposed Lower Navajol Perforations:

6178' - 6188' MD (6178' - 6188' TVD), 10', 60 holes  
6202' - 6222' MD (6202' - 6222' TVD), 20', 120 holes  
6240' - 6260' MD (6240' - 6260' TVD), 20', 120 holes  
6276' - 6291' MD (6276' - 6291' TVD), 15', 90 holes  
6311' - 6334' MD (6311' - 6334' TVD), 23', 138 holes

**Note: All depths are referenced to Halliburton SDL-DSN-GR log dated 7/23/07.**

PROCEDURE

Note: Rig is on well with BOPE and tanks filled with completion fluid in place.

1. RIH with 2-7/8" tubing and barred collar (or seating nipple) for no-go to ~7070'.
2. RU service company. Clean tubing and casing by reverse circulating the following in order (or per service company recommendation): 1000 gallons of CF, 685 gallons of caustic solution, 685 gallons of chemical wash (containing mutual solvent with surfactant), 685 gallons of gelled spacer (with buffering agents), 685 gallons of fresh water, 685 gallons of 7-1/2% HCl acid (with inhibitor), and 685 gallons of fresh water. Displace with 37 Bbls of CF followed by 15 Bbls of 9+ ppg salt water containing 6 gallons (1%) of Baker Petrolite CRW132 and then 89 Bbls of CF. RD service company.
3. POOH with tubing.
4. RU wireline unit. Run a radial CBL-GR-CCL with cement mapping from PBTD (~7080') to top of cement (~3500'). Make an initial pass from PBTD to 5900' with no pressure and then log from PBTD to TOC with maximum pressure permitted by wireline equipment up to 3000 psi. RD wireline unit.
5. RIH with tubing to ~4000'. RU and swab fluid level in well down to 2500'. RD swab and POOH with tubing.
6. RU wireline. Perforate the bottom completion interval at 6311' - 6334' WLM with 0.40+'' diameter holes using 4'' hollow carriers loaded 6 SPF on 60° phasing with 24+ gram charges. RD and release wireline unit.
7. RIH with a 5-1/2'' (20#) RBP, retrieving head, pup joint, 5-1/2'' (20#) stimulation packer, seating nipple, and 2-7/8'' tubing. Set RBP at ~6360 and packer at ~6250' in 20,000 lbs compression. RU and swab for rate and clean up. If swab rates indicate perforation breakdown is not needed, skip to step 10.
8. RU to break down and ball off the isolated perforation interval using 2000 gallons of completion fluid mixed with 5 gpt Halliburton GasPerm 1000 and 200 mixed ball sealers (half BioBalls and half buoyant balls) as follows.

Fluids and Additives:

Breakdown Fluid: 2000 gallons completion fluid (Wolverine provided) with added 5 gpt Halliburton GasPerm 1000.

Diverter: 200 Diverter Balls including 100 BioBalls MR (7/8", green) and 100 7/8" 0.90 S.G. balls.

Displacement Fluid (CF): 40 Barrels

Maximum Injection Pressure: 5000 psi

Injection Rate: 2-5 BPM

Pump Schedule:

- A. Pressure test surface lines to 5000+ psi.
  - B. Establish a rate into the isolated perforations with CF (no balls).
  - C. Open bypass on packer.
  - D. Pump 500 gallons (11.9 Bbls) of Breakdown Fluid (with no balls) at a rate of 1.5 BPM.
  - E. Pump 750 gallons (17.9 Bbls) of Breakdown Fluid containing 100 buoyant balls (one per 7.5 gallons) at a rate of 1.5 BPM.
  - F. Pump 250 gallons (6.0 Bbls) of Breakdown Fluid containing 33 BioBalls (one per 7.5 gallons) at a rate of 1.5 BPM.
  - G. Close bypass on packer.
  - H. Pump 500 gallons (11.9 Bbls) of Breakdown Fluid containing 67 BioBalls (one per 7.5 gallons) at a rate of rate of 2-5 BPM and 4000 - 5000 psi.
  - I. Pump 1680 gallons (40 Bbls) of CF to displace Breakdown Fluid and balls at a rate of 2-5 BPM and 4000 - 5000 psi.
  - J. Shut well in, record ISIP, and monitor pressure for 15 minutes.
9. Open well, make a couple of swab runs to release ball sealers, open bypass on packer, and reverse circulate 40+ Bbls of CF at 1.5 BPM to recover buoyant balls. Close bypass on packer and swab back for cleanup until load fluid is recovered and rate, fluid level, and water-cut stabilize.
  10. Release packer and RIH to RBP. Reverse circulate clean and move RBP to 6306' WLM. Set packer and pressure test RBP to 2000 psi. Release packer and swab fluid level in casing down to ~2500'. POOH with retrieving head, packer and tubing.
  11. RU wireline company. Perforate intervals at 6276' - 6291' and 6240' - 6260' WLM with 0.40+" diameter holes using 4" hollow carriers loaded 6 SPF on 60° phasing with 24+ gram charges. RD and release wireline unit.
  12. RIH with a retrieving head, pup joint, 5-1/2" (20#) stimulation packer, seating nipple, and 2-7/8" tubing. Set packer at ~6200' in 20,000 lbs compression. RU and swab for rate and clean up.
  13. Release packer and reset it at 6266' WLM. RU and swab for rate and clean up.

14. If swab rates indicate perforation breakdown is not needed, skip to step 17. Otherwise, move and set packer at ~6160'.
15. RU to break down and ball off the isolated perforation interval using 2500 gallons of completion fluid mixed with 5 gpt Halliburton GasPerm 1000 and 300 mixed ball sealers (half BioBalls and half buoyant balls) as follows.

Fluids and Additives:

Breakdown Fluid: 2500 gallons completion fluid (Wolverine provided) with added 5 gpt GasPerm 1000.

Diverter: 300 Diverter Balls including 150 BioBalls MR (7/8", green) and 150 7/8" 0.90 S.G. balls.

Displacement Fluid (CF): 40 Barrels

Maximum Injection Pressure: 5000 psi

Injection Rate: 2-5 BPM

Pump Schedule:

- A. Pressure test surface lines to 5000+ psi.
  - B. Establish a rate into the isolated perforations with CF (no balls).
  - C. Open bypass on packer.
  - D. Pump 500 gallons (11.9 Bbls) of Breakdown Fluid (with no balls) at a rate of 1.5 BPM.
  - E. Pump 1000 gallons (23.8 Bbls) of Breakdown Fluid containing 150 buoyant balls (one per 6.67 gallons) at a rate of 1.5 BPM.
  - F. Close bypass on packer.
  - G. Pump 1000 gallons (23.8 Bbls) of Breakdown Fluid containing 150 BioBalls (one per 6.67 gallons) at a rate of rate of 2-5 BPM and 4000 - 5000 psi.
  - H. Pump 1680 gallons (40 Bbls) of CF to displace Breakdown Fluid and balls at a rate of 2-5 BPM and 4000 - 5000 psi.
  - I. Shut well in, record ISIP, and monitor pressure for 15 minutes.
16. Open well, make a couple of swab runs to release ball sealers, open bypass on packer, and reverse circulate 40+ Bbls of CF at 1.5 BPM to recover buoyant balls. Close bypass on packer and swab back for cleanup until load fluid is recovered and rate, fluid level, and water-cut stabilize.
  17. Release packer and RIH to RBP. Reverse circulate clean and move RBP to 6235' WLM. Set packer and pressure test RBP to 2000 psi. Release packer and swab fluid level in casing down to ~2500'. POOH with retrieving head, packer and tubing.
  18. RU wireline company. Perforate intervals at 6202' - 6222' and 6178' - 6188' WLM with 0.40+" diameter holes using 4" hollow carriers loaded 6 SPF on 60° phasing with 24+ gram charges. RD and release wireline unit.

19. RIH with a 5-1/2" (20#) stimulation packer (no tubing tail), seating nipple, and 2-7/8" tubing. Set packer at ~6160' in 20,000 lbs compression. RU and swab for rate and clean up.
20. Release packer and reset it at 6195' WLM. RU and swab for rate and clean up.
21. If swab rates indicate perforation breakdown is not needed, skip to step 24. Otherwise, move and set packer at ~6100'.
22. RU to break down and ball off the isolated perforation interval using 2500 gallons of completion fluid mixed with 5 gpt Halliburton GasPerm 1000 and 250 mixed ball sealers (half BioBalls and half buoyant balls) as follows.

Fluids and Additives:

Breakdown Fluid: 2500 gallons completion fluid (Wolverine provided) with added 5 gpt GasPerm 1000.

Diverter: 250 Diverter Balls including 125 BioBalls MR (7/8", green) and 125 7/8" 0.90 S.G. balls.

Displacement Fluid (CF): 40 Barrels

Maximum Injection Pressure: 5000 psi

Injection Rate: 2-5 BPM

Pump Schedule:

- A. Pressure test surface lines to 5000+ psi.
  - B. Establish a rate into the isolated perforations with CF (no balls).
  - C. Open bypass on packer.
  - D. Pump 500 gallons (11.9 Bbls) of Breakdown Fluid (with no balls) at a rate of 1.5 BPM.
  - E. Pump 1000 gallons (23.8 Bbls) of Breakdown Fluid containing 125 buoyant balls (one per 8.0 gallons) at a rate of 1.5 BPM.
  - F. Close bypass on packer.
  - G. Pump 1000 gallons (23.8 Bbls) of Breakdown Fluid containing 125 BioBalls (one per 8.0 gallons) at a rate of rate of 2-5 BPM and 4000 - 5000 psi.
  - H. Pump 1680 gallons (40 Bbls) of CF to displace Breakdown Fluid and balls at a rate of 2-5 BPM and 4000 - 5000 psi.
  - I. Shut well in, record ISIP, and monitor pressure for 15 minutes.
23. Open well, make a couple of swab runs to release ball sealers, open bypass on packer, and reverse circulate 40+ Bbls of CF at 1.5 BPM to recover buoyant balls. Close bypass and swab back for cleanup until load fluid is recovered and rate, fluid level, and water-cut stabilize.
  24. Release packer and RIH to RBP. Reverse circulate clean, release RBP, and POOH with tubing, packer, and RBP.

25. RIH with a barred tubing collar, one joint of 2-7/8" tubing, 5-1/2" (20#) production packer, 6' 2-7/8" tubing sub, hydraulic lift pump cavity with standing valve in place, and 2-7/8" tubing. Set packer at ~6100'.
26. Land tubing, ND BOP and NU wellhead.
27. RDMOSU.
28. NU hydraulic lift unit and circulate clean fluid overnight. Drop recommended jet pump and pump it to seat. Pressure up, check equipment, and turn well to production.
29. Plan to obtain a pressure build-up as soon as well production stabilizes.

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

FORM 6

**ENTITY ACTION FORM**

Operator: Wolverine Gas and Oil Company of Utah, LLC Operator Account Number: N 1655  
Address: 55 Campau NW, One Riverfront Plaza  
city Grand Rapids  
state MI zip 49503-2616 Phone Number: (616) 458-1150

Well 1

API Number	Well Name		QQ	Sec	Twp	Rng	County
4304130047	Wolverine Federal 17-8		NESW	17	23S	1W	Sevier
Action Code	Current Entity Number	New Entity Number	Spud Date			Entity Assignment Effective Date	
C	16217	13995 ✓	6/16/2007			9/6/2008	
<b>Comments:</b> Temporarily suspended production from the Twin Creek Formation while completing the Navajo Formation <i>NAVA</i>							

**CONFIDENTIAL** 10/27/08

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	
<b>Comments:</b>							

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	
<b>Comments:</b>							

**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)

Jennifer Ondersma

Name (Please Print)

Signature

Accountant

Title

9/12/2008

Date

**RECEIVED**

**SEP 16 2008**



# United States Department of the Interior



BUREAU OF LAND MANAGEMENT  
Utah State Office  
P.O. Box 45155  
Salt Lake City, UT 84145-0155  
<http://www.blm.gov>

IN REPLY REFER TO:  
3160  
(U-922)

October 9, 2008

Wolverine Gas and Oil Corp  
One Riverfront Plaza  
55 Campau, N.W.  
Grand Rapids, MI 49503-2616  
Attn: Richard D. Moritz

Re: Non-Paying Well Determination  
17-8 Well, Wolverine Unit  
Sevier County, Utah

Gentlemen:

Pursuant to your request of October 8, 2008, it has been determined by this office that under existing conditions the following well is not capable of producing unitized substances in paying quantities as defined in Section 9 of the unit agreement from the Sub-thrust Twin Creek Formation.

API Number	Well Name	Location	Comp. Date	Lease
4304130047	17-8	NESW 17 23.0 S 1.0 W SLB&M	04/08/2008	UTU73528

All past and future production from the Sub-thrust Twin Creek Formation produced from this well shall be handled and reported on a lease basis. The Sub-thrust Twin Creek completion has been temporarily abandoned and the well was recompleted in the Navajo Formation on September 26, 2008. The Navajo production is being reported to the Navajo Participating Area, UTU80800A.

If you have any questions please contact Mickey Coulthard of this office at (801) 539-4042.

Sincerely,

/s/ Becky J. Hammond

Becky J. Hammond  
Chief, Branch of Fluid Minerals

Accepted by the  
Utah Division of  
Oil, Gas and Mining  
FOR RECORD ONLY

RECEIVED

OCT 14 2008

DIV. OF OIL, GAS & MINING

bcc: FOM Richfield  
Wolverine Unit File  
MMS  
SITLA  
Division of Oil, Gas and Mining  
Central Files  
Agr. Sec. Chron.  
Fluid Chron  
Tickler (December, 2008)

MCoulthard:mc:10-9-08

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

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

**SUNDRY NOTICES AND REPORTS ON WELLS**

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

**SUBMIT IN TRIPLICATE- Other instructions on reverse side.**

1. Type of Well <input checked="" type="checkbox"/> Oil Well <input type="checkbox"/> Gas Well <input type="checkbox"/> Other		5. Lease Serial No. UTU-73528
2. Name of Operator Wolverine Gas and Oil Company of Utah, LLC		6. If Indian, Allottee or Tribe Name NA
3a. Address 55 Campau NW, Grand Rapids, MI 49503	3b. Phone No. (include area code) 616-458-1150	7. If Unit or CA/Agreement, Name and/or No. Wolverine Unit
4. Location of Well (Footage, Sec., T., R., M., or Survey Description) 2020' FSL, 1602' FWL, Sec. 17, T23S, R1W, SLB&M		8. Well Name and No. Wolverine Federal 17-8
		9. API Well No. 4304130047
		10. Field and Pool, or Exploratory Area Covenant Field, Navajo
		11. County or Parish, State Sevier County, Utah

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

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

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

The producing Twin Creek2 completion was temporarily abandoned below a retrievable bridge plug. The 5-1/2" casing was pulled from 6580'. It was replaced with 5-1/2", 20#, L-80/HCP-110/N-80 LTC/FJ casing and the new casing was cemented using 660 sacks of Class G cement to prevent further damage to the 9-5/8" intermediate casing by collapsing salt sections. Navajo1 was then completed in select intervals at 6178' - 6334' by perforating with 6 SPF and breaking the perforations down by pumping completion fluid and ball sealers. The Navajo1 was then placed on production with an ESP.

An attached Recompletion Summary and Results report contains more details of the completed work.

**RECEIVED**  
**OCT 16 2008**  
**DIV. OF OIL, GAS & MINING**

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

Name (Printed/Typed) Ellis Peterson	Title Sr. Production Engineer
Signature 	Date 10/06/2008

**THIS SPACE FOR FEDERAL OR STATE OFFICE USE**

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

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

## Recompletion Summary and Results

**Wolverine Federal 17-8**

**Covenant Field**

**July 9, 2008 to September 26, 2008**

### **Purpose of Workover: Recomplete Lower Navajo**

#### **Work Summary:**

1. Set Arrowset-1 packer with H-valve (equivalent to RBP) at 7100' and dump bailed 2 sacks of sand on top.
2. Cut 5-1/2" casing off at 6580' using a hydraulic mechanical blade cutter.
3. Pulled 5-1/2" casing above 6580' out and laid it down. Pulled up to 140k over string weight to pull casing out.
4. Ran a 6" gauge ring on wireline and set down at 5575'. Ran a Schlumberger Isolation Scanner log and found deformed casing across lower salt intervals. Cement top behind 9-5/8" casing was at approximately 1450'.
5. Ran 5-7/8" gauge ring on wireline and set down at 5584'. Ran a multi-finger caliper and recorded minimum ID of 5.28" at 5581'.
6. Perforated 8 squeeze holes at 6630' – 6632'.
7. Swaged 9-5/8" casing using swage sizes ranging from 5-1/2" to 5-7/8" OD. A 6" OD swage could not be worked through the deformed casing.
8. Ran 17 joints (1025') of 5-1/2", 20#, L-80, Ultra-flush joint casing with a square cut on bottom joint; 5 joints (203') of 5-1/2", 20#, HCP-110, LTC casing; and 126 joints (5358') of 5-1/2", 20#, N-80, LTC casing to surface. Twelve bow spring centralizers were run and spaced from 5574' to 4124'.
9. A 20-foot long Halliburton alignment tool was run on a cement retainer with tubing to straddle the casing splice at 6580' and the cement retainer was set at 6567'.
10. The 5-1/2" x 9-5/8" casing annulus was cemented by pumping 160 Bbls of packer fluid, 5 Bbls fresh water, 139 Bbls of cement (660 sacks Class 'G', 15.8 ppg, 1.186 CF/sk), and 37 Bbls fresh water displacement.
11. Drilled out cement retainer, alignment tool, and cement in 5-1/2" casing and circulated clean. Cement was from cement retainer at 6567' to 6639'.
12. Cleaned tubing and casing with caustic/acid solutions and spotted 9+ ppg salt water containing packer fluid chemicals bottom of 5-1/2" casing.
13. Ran a radial CBL in 5-1/2" casing from 7082' to 3050' under 2500 psi pressure. Top of cement behind 5-1/2" casing was at approximately 3250'.
14. Perforated 6311' – 6334' using 4" hollow carriers loaded 6 SPF. Casing gun had slight drag at approximately 5580'.
15. Performed a break-down on perforations at 6311' – 6334' using 2000 gallons of completion fluid and 200 ball sealers.
16. Swabbed perforations at 6311' – 6334' with FSR of 32 BPH, 98% OC, 3 runs/hr, and FFL of 3200' pulling from 4500'.
17. Set RBP at 6300'.

18. Perforated 6276' – 6291' and 6240' – 6260' using 4" hollow carriers loaded 6 SPF. Casing gun had slight drag at approximately 5580'.
19. Performed a break-down on perforations at 6276' – 6291' and 6240' – 6260' using 2500 gallons of completion fluid and 300 ball sealers.
20. Swabbed perforations at 6276' – 6291' and 6240' – 6260' with FSR of 29 BPH, 99% OC, 3 runs/hr, and FFL of 2600' pulling from 3800'.
21. Moved RBP to 6235'.
22. Perforated 6202' – 6222' and 6178' – 6188' using 3-3/8" hollow carriers loaded 6 SPF. Casing gun had no increase in drag at approximately 5580'.
23. Performed a break-down on perforations at 6202' – 6222' and 6178' – 6188' using 2500 gallons of completion fluid and 250 ball sealers.
24. Swabbed perforations at 6202' – 6222' and 6178' – 6188' with FSR of 39 BPH, 100% OC, 3 runs/hr, and FFL of 2400' pulling from 3100'.
25. Retrieved RBP.
26. Ran ESP. Placed well on production.

**Active Perforations (Lower Navajo):**

6178'- 6188' MD (6178'- 6188' TVD), 10', 60 holes  
 6202'- 6222' MD (6202'- 6222' TVD), 20', 120 holes  
 6240'- 6260' MD (6240'- 6260' TVD), 20', 120 holes  
 6276'- 6291' MD (6276'- 6291' TVD), 15', 90 holes  
 6311'- 6334' MD (6311'- 6334' TVD), 23', 138 holes

**Temporarily Abandoned Perforations (Twin Creek2):**

7996' - 8008' MD (7996' – 8008' TVD), 12', 48 holes  
 8014' - 8026' MD (8014' – 8026' TVD), 12', 48 holes  
 8050' - 8070' MD (8050' – 8070' TVD), 20', 80 holes  
 8088' - 8108' MD (8088' – 8108' TVD), 20', 80 holes

**Production before Recompletion (Twin Creek2):** 94 BOPD and 768 BWPD on hydraulic jet pump

**Production after Recompletion:** 537 BOPD and 0 BWPD with 1550 psi FBHP

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

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

5. Lease Serial No. **UTU-73528**

6. If Indian, Allottee or Tribe Name  
**N.A.**

7. Unit or CA Agreement Name and No.  
**Wolverine Federal Unit**

8. Lease Name and Well No.  
**Wolverine Federal 17-8**

9. AFI Well No.  
**4304130047**

10. Field and Pool, or Exploratory  
**Covenant Field, Navajo**

11. Sec., T., R., M., on Block and Survey or Area  
**17, T23S, R1W, NESW, SLB&M**

12. County or Parish  
**Sevier**

13. State  
**UT**

14. Date Spudded  
**06/16/2007**

15. Date T.D. Reached  
**09/07/2007**

16. Date Completed  
**09/25/2008**  
 D & A  Ready to Prod.

17. Elevations (DF, RKB, RT, GL)\*  
**5819' KB, 5793' GL**

18. Total Depth: MD **13760'**  
TVD **13760'**

19. Plug Back T.D.: MD **8130'**  
TVD **8130'**

20. Depth Bridge Plug Set: MD **8200'**  
TVD **8200'**

21. Type Electric & Other Mechanical Logs Run (Submit copy of each)  
**Isolation Scanner, CBL**

22. Was well cored?  No  Yes (Submit analysis)  
Was DST run?  No  Yes (Submit report)  
Directional Survey?  No  Yes (Submit copy)

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

Hole Size	Size/Grade	Wt. (#/ft.)	Top (MD)	Bottom (MD)	Stage Cementer Depth	No. of Sk. & Type of Cement	Slurry Vol. (BBL)	Cement Top*	Amount Pulled
30.0"	20"	0.25 wall	Surface	115		Prev. Report		Surface	
17.5"	13.375 J	68.0	Surface	1915		Prev. Report		Surf. (CIR)	
12.25"	9.625 P	47.0	Surface	6985	5671	Prev. Report		1450 (CBL)	
8.50"	5.50 L/N	20	6580	9524	6816	170 C+ 805 G	315	7000 (CBL)	
"	"	"				425 50:50 Poz	136		
"	" L/N/P	"	Surface	6580	6580	660 Class G	139	3250 (CBL)	

24. Tubing Record

Size	Depth Set (MD)	Packer Depth (MD)	Size	Depth Set (MD)	Packer Depth (MD)	Size	Depth Set (MD)	Packer Depth (MD)
2 3/8	8058	8036	2-7/8	7956	7956			

25. Producing Intervals

Formation	Top	Bottom	Perforated Interval	Size	No. Holes	Perf. Status
A) Navajo2	8360	8370	8360 - 8370	0.40"	60	P&A
B) Navajo2	8210	8220	8210 - 8220	0.40"	60	P&A
C) Twin Creek2	7996	8108	7996 - 8108	0.40"	256	TA
D) Navajo1	6178	6334	6178 - 6334	0.40"	528	Active

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

Depth Interval	Amount and Type of Material
8210 - 8370	Perforations were squeeze cemented with 5.1 Bbls of Class "G" cement through a cement retainer at 8200'.
6178 - 6334	All Navajo1 perforations where broken down by pumping treated produced water with ball sealers.

28. Production - Interval A

Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
	02/08/2008	7.5	→	0	0	218			Swabbing
Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas/Oil Ratio	Well Status	
			→						Plugged

28a. Production - Interval B

Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
	02/05/2008	10	→	0	0	363			Swabbing
Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas/Oil Ratio	Well Status	
			→						Plugged

\*(See instructions and spaces for additional data on page 2)

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OCT 16 2008

DIV. OF OIL, GAS & MINING

28b. Production - Interval C

Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
02/14/2008	04/10/2008	24	→	170	Tr	352	39		Temporary Hydraulic Pump
Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas/Oil Ratio	Well Status	
			→	170	Tr	352			Temporarily Abandoned

28c. Production - Interval D

Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
09/12/2008	10/04/2008	24	→	537	TLTM	0	40		Electric Submersible Pump
Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas/Oil Ratio	Well Status	
	40	8	→	537	0	0			Producing

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

Vented

30. Summary of Porous Zones (Include Aquifers):

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

31. Formation (Log) Markers

Formation	Top	Bottom	Descriptions, Contents, etc.	Name	Top
					Meas. Depth
Navajo 2	8206	9470	Water	Arapien	Surface
Twin Creek 2	7876	8206	Water and Oil	Twin Creek 1	5614
Wingate 1	7227	7644	Water	Navajo 1	5912
Kayenta 1	7088	7227	Water	Chinle 1	7644
Navajo 1	5912	7088	Water and Oil	Twin Creek 2	7876
				Navajo 2	8206
				Chinle 2	9998
				Moenkopi	10476
				Sinbad	12116
				Black Dragon	12503
				Kaibab	12973
				Toroweap	13350

32. Additional remarks (include plugging procedure):

Cement Plugs were set at 12,700' - 12,910' and 9850' - 10,150' before running 5-1/2" production casing. Navajo 2 perforations at 8360' - 8370' and 8210' - 8220' were cemented with 25 sacks (5.12 barrels) of Class "G" through a CICR at 8200'. The top of the cement plug was wireline tagged at 8130' as the current PBTD.

Twin Creek2 isolated below a RBP. 5-1/2" casing is cut and spliced at 6580'. Lower Navajo1 completed at 6178' - 6334'.

33. Indicate which items have been attached by placing a check in the appropriate boxes:

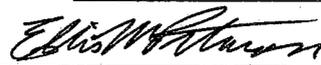
- Electrical/Mechanical Logs (1 full set req'd.)   
  Geologic Report   
  DST Report   
  Directional Survey  
 Sundry Notice for plugging and cement verification   
  Core Analysis   
  Other:

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

Name (please print) Ellis Peterson

Title Sr. Production Engineer

Signature



Date 10/07/2008

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

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

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

**SUNDRY NOTICES AND REPORTS ON WELLS**

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

**SUBMIT IN TRIPLICATE- Other instructions on reverse side.**

1. Type of Well  
 Oil Well  Gas Well  Other

2. Name of Operator **Wolverine Gas and Oil Company of Utah, LLC**

3a. Address  
**55 Campau NW, Grand Rapids, MI 49503**

3b. Phone No. (include area code)  
**616-458-1150**

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)  
**2020' FSL, 1602' FWL, Sec. 17, T23S, R1W, SLB&M**

5. Lease Serial No.  
**UTU-73528**

6. If Indian, Allottee or Tribe Name  
**NA**

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

8. Well Name and No.  
**Wolverine Federal 17-8**

9. API Well No.  
**4304130047**

10. Field and Pool, or Exploratory Area  
**Covenant Field, Navajo**

11. County or Parish, State  
**Sevier County, Utah**

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

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

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

The 9-5/8" casing was swaged out to 5-7/8" through a collapsed interval at 5574' - 5583'. A 5-1/2" casing string was run that consisting of 20#, L-80, Ultra-Flush Joint from 5555' to 6580'; 20#, HCP-110, LTC from 5352' to 5555'; and 20#, N-80, LTC from surface to 5352'. The casing was cemented in place using 660 sacks (139 Bbls) of 15.8 ppg Class "G" cement on 10/19/2008. A total of 12 centralizers were run and spaced through an interval from 4124' to 5574'. The bottom of the new 5-1/2" casing butts to the cut-off casing at 6580' and was held in place to continuous drift while cementing using an alignment tool.

After drilling out cement and the alignment tool and cleaning out of the new production casing, it is planned to complete the Navajo 1 at depths from 6178' to 6334' as previously approved but through the 5-1/2" and 9-5/8" concentric casing strings. A procedure with revised details of the planned completion work is included herewith.

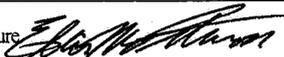
Workover activities on this Covenant Field well will resume on 8/26/2008. The Navajo1 completion work will have duration of approximately four weeks.

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

**Ellis Peterson**

Title **Sr. Production Engineer**

Signature



Date

**08/20/2008**

**THIS SPACE FOR FEDERAL OR STATE OFFICE USE**

Approved by

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

Title

Date **9/29/08**

Office

**Accepted For Record Purposes**

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

(Instructions on page 2)

09PH0013S  
UD OGM

**RECEIVED**  
OCT 29 2008

DIV. OF OIL, GAS & MINING

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

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

**SUNDRY NOTICES AND REPORTS ON WELLS**

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

<b>SUBMIT IN TRIPLICATE- Other instructions on reverse side.</b>		5. Lease Serial No. <b>UTU-73528</b>
1. Type of Well <input checked="" type="checkbox"/> Oil Well <input type="checkbox"/> Gas Well <input type="checkbox"/> Other		6. If Indian, Allottee or Tribe Name <b>NA</b>
2. Name of Operator <b>Wolverine Gas and Oil Company of Utah, LLC</b>		7. If Unit or CA/Agreement, Name and/or No. <b>Wolverine Unit</b>
3a. Address <b>55 Campau NW, Grand Rapids, MI 49503</b>	3b. Phone No. (include area code) <b>616-458-1150</b>	8. Well Name and No. <b>Wolverine Federal 17-8</b>
4. Location of Well (Footage, Sec., T., R., M., or Survey Description) <b>2020' FSL, 1602' FWL, Sec. 17, T23S, R1W, SLB&amp;M</b>		9. API Well No. <b>4304130047</b>
		10. Field and Pool, or Exploratory Area <b>Covenant Field, Navajo</b>
		11. County or Parish, State <b>Sevier County, Utah</b>

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

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

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

**Wolverine Gas and Oil Company of Utah, LLC plan to undertake a work-over on the Wolverine Federal 17-8, which is part of the Covenant Field. Based on the analysis of the well, the existing perforations are under performing. Therefore, we intend to acid treat existing perforations. Once the work is completed, the well will be returned to production.**

**RECEIVED**

**JUN 14 2010**

**DIV. OF OIL, GAS & MINING**

**COPY SENT TO OPERATOR**

Date: 6/22/2010

Initials: KS

14. I hereby certify that the foregoing is true and correct Name (Printed/Typed) <b>Edward A. Higyera</b>		Title <b>Manager - Production</b>
Signature		Date <b>06/11/2010</b>

**THIS SPACE FOR FEDERAL OR STATE OFFICE USE**

Approved by	Title <b>Ret. Eng.</b>	Date <b>6/16/10</b>
Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.	Office <b>DOGm</b>	Federal Approval Of This Action Is Necessary

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

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

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

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

**SUBMIT IN TRIPLICATE- Other instructions on reverse side.**

1. Type of Well <input checked="" type="checkbox"/> Oil Well <input type="checkbox"/> Gas Well <input type="checkbox"/> Other		5. Lease Serial No. <b>UTU-73528</b>
2. Name of Operator <b>Wolverine Gas and Oil Company of Utah, LLC</b>		6. If Indian, Allottee or Tribe Name <b>NA</b>
3a. Address <b>55 Campau NW, Grand Rapids, MI 49503</b>	3b. Phone No. (include area code) <b>616-458-1150</b>	7. If Unit or CA/Agreement, Name and/or No. <b>Wolverine Unit</b>
4. Location of Well (Footage, Sec., T., R., M., or Survey Description) <b>2020' FSL, 1602' FWL, Sec. 17, T23S, R1W, SLB&amp;M</b>		8. Well Name and No. <b>Wolverine Federal 17-8</b>
		9. API Well No. <b>4304130047</b>
		10. Field and Pool, or Exploratory Area <b>Covenant Field, Navajo</b>
		11. County or Parish, State <b>Sevier County, Utah</b>

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

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

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

**Wolverine Gas and Oil Company of Utah LLC completed a workover on the Wolverine Federal 17-8 on August 30, 2011. Prior to the workover the well was making approximately 100 BOPD and 100 BWPD. During swabbing of selected intervals, communication was noted between all perforation sets from behind pipe. A decision was made to acid stimulate all perforation sets with one acid job. Perforations from 6178' - 6334' were stimulated with 5000 gallons of 7-1/2 % FE HCL acid and 250 buoyant balls. The intervals were swabbed for rate and clean up and an ESP was run in the hole. Initial rates were 150 BOPD & 150 BWPD.**

See attached WBD and Activity Report for additional details.

**RECEIVED**

**OCT 07 2011**

**DIV. OF OIL, GAS & MINING**

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

Name (Printed/Typed) <b>Matthew Rivers</b>	Title <b>Production Engineer</b>
Signature 	Date <b>10/05/2011</b>

**THIS SPACE FOR FEDERAL OR STATE OFFICE USE**

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

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(Instructions on page 2)

**CONFIDENTIAL**



Covenant Field  
Federal 17-8  
API# 43-041-30047

SHL NE/SW Sec 17, T23S, R1W  
BHL NE/SW Sed 17, T23S, R1W  
Sevier County, Utah

- 8/18/2011 MIRUSU, hauled in frac tanks, rig pump and water filtration system. Hooked up flow back and pump lines, filled frac tanks with CF and filtered the water through 5 micron filters.  
Plan to pull out of hole with ESP then TIH with bit and scraper.  
Shut well in and dropped bar to break drain sub on the ESP, Hooked up pump lines and pumped 1 bbl of 4% KCL water down tubing, ND wellhead, NU BOP's. RU vac truck to casing, RU cable spooler and POOH with ESP. PU & RIH 4 5/8" bit and 5 1/2" casing scraper to PBTD @ 7080', reverse circulated 150 bbls of 4% KCL water. SWIFN  
Plan to POOH with bit and casing scraper then RIH with plug and packer to swab 6311'-6334', 6276'-6291' & 6240'-6260'.
- 8/23/2011 Opened well, POOH with bit and scraper, PU & RIH with plug and packer. Set plug at 6350', set packer at 6301', RU swab equipment, made 8 swab runs recovering 5 bbls of oil and 79 bbls of water with a fluid level of 4100' and a rate of 360 bpd. RD swab equipment, RU pump lines and injected into perf interval 6311'-6334' at a rate of 1 bpm @ 800 psi tubing pressure with returns up the annulus. RD pump lines, released packer and plug, reset plug at 6300', set packer at 6150', RU swab equipment, made 6 runs recovering 6 bbls of oil and 76 bbls of water with a final fluid level of 4800' with a rate not yet determined.  
Plan to continue swabbing for rate then move plug and packer to swab perf intervals 6178'-6188' & 6202' - 6222'.
- 8/24/2011 Opened well, RU swab equipment, made 13 swab runs recovering 37 bbls oil, 61 bbls of water with a FL of 1400', rate of 360 bpd, with a 20% water cut. RD swab equipment, released packer and plug, reset plug at 6350', set packer at 6154'. RU pump lines and pressure tested packer to 1500 psi, RD pump lines and SWIFN  
Plan to pump acid on all perf intervals then swab for rate and clean up.
- 8/25/2011 Opened well, 0 psi, RU Halliburton acid equipment, pressure tested lines to 6000 psi and pumped acid job on all perf intervals from 6178'-6334' as follows:

<u>Bbls</u>	<u>Max psi</u>	<u>Max rate</u>	<u>Fluid</u>	<u>Description</u>
5.00	50	1.5 bpm	4% KCL water	Established circulation
35.00	96	1.5 bpm	7 1/2% HCL acid	Spotted acid with 250 7/8" .90 S.G. buoyant balls.
~	~	~	~	Closed packer
31.00	1097	0.8 bpm	7 1/2% HCL acid	Shut in to let pressure drop
13.00	1096	0.8 bpm	7 1/2% HCL acid	Shut in to let pressure drop
39.00	1220	0.8 bpm	7 1/2% HCL acid	
28.00	1614	1.5	Acid & water	Increased rate to 1.5 bpm
13.00	1885	2	4% KCL water	Increased rate to 2.0 bpm
~	1736	~	~	ISISP
~	1329	~	~	5 Min
~	1120	~	~	10 Min

Total	Max psi	Max rate
<u>164.00</u>	<u>1885</u>	<u>2</u>

See 8-26-11 Acid pressure chart for details.

RU swab equipment, made 1 swab run then was unable to get through tubing due to a piece of packer rubber being suspended with balls. Made several attempts to free up tubing blockage with no success. SWIFN Plan to pull tubing to clear blockage then reset packer and swab for rate and clean up.

8/27/2011

POOH with tubing and packer, RIH with one stand and circulated balls out of casing, cleaned ball sealers from flowback lines. RIH with tubing and packer, set packer at 6150'. RU swab equipment, made 11 swab runs recovering 75 bbls of water, 23 bbls of oil with a 90% water cut and a final fluid level of 1800' from surface, an inflow rate has not been determined yet. SWIFN. See 8-27 swab report tab for details

Plan to continue swabbing for rate and clean up.

8/28/2011

Opened well, RU swab equipment, made 28 swab runs recovering 81 bbls oil, 146 bbls of water with a FL of 3275', rate of 500 bpd, with a 50% water cut. SWIFN See 8-28-11 Swab report for details

Plan to continue swabbing while the downhole pump is being built.

8/29/2011

Opened well, RU swab equipment, made 15 swab runs recovering 60 bbls oil, 70 bbls of water with a FL of 2658', rate of 540 bpd, with a 50% water cut. RD swab equipment, released packer and plug, POOH with tubing, plug and packer. SWIFN See 8-29-11 Swab report for details

Plan to install ESP

Supervisor:

*Tony E. Cook*

Rig Operator:



**Wolverine Federal 17-8**  
**API # 43-041-30047**  
**Covenant Field**  
**Section 17, T23S, R1W**  
**Sevier County, Utah**

Ground Elevation: 5,793'  
 KB Elevation: 5,819'

**(Not to Scale)**

**Vertical Well**

Surface: 2020' FSL 1602' FWL, NE SW, 17-23S-1W  
 Total Depth: 2020' FSL 1602' FWL, NE SW, 17-23S-1W

**Conductor Casing (06/15/07)**

Size: 20", 0.25" wall  
 Depth Landed: 115' KB  
 Cement Data: Cemented to surface with 14 yds redi-mix

**Surface Casing (7/04/07)**

Size/Wt/Grade: 13 3/8", 68#, J-55, STC, 8rd  
 Depth Landed: 1915' KB  
 Cement Data: 352 sks CBM light (10.5 ppg, 4.33 cf/sk), 470 sks Type V (15.6 ppg, 1.19 cf/sk), Cemented to surface

**Intermediate Casing (7/26/07)**

Size/Wt/Grade: 9-5/8", 47#, HCP-110, LTC, 8rd  
 Depth Landed: 6985' KB, stage tool @ 5671' KB  
 Cement Data: Stage 1- 570 sks 50:50 Poz, 14.4 ppg, 1.26 cf/sk  
 Stage 2- 170 sks CBM Lite, 1.5 ppg, 4.29 cf/sk  
 805 sks Class G, 15.8 ppg, 1.29 cf/sk

**Production Casing (9/15/07 & 8/17/08)**

Size/Wt/Grade: 5-1/2", 20#, L-80/HCP-110, LTC 8rd/Ultra-FJ  
 Properties: 9190 psi burst, 4.653" drift, 4.778" ID, 0.0221 Bbl/ft Capacity  
 Depth Landed: 9524' KB  
 Stage tool: (Weatherford POST 781) @ 6816' KB  
 Splice: Cut & realigned @ 6580' KB, squeeze holes at 6630'- 6632' KB  
 Cement Data: 425 sks 50:50 Poz, 13.4 ppg, 1.8 cf/sk (9/15/07)  
 660 sks Class "G", 15.8 ppg, 1.15 cf.sk (8/19/08)

**Navajo Perforations**

6178'- 6188' MD (6178'- 6188' TVD), 10', 60 holes (9/19/08)  
 6202'- 6222' MD (6202'- 6222' TVD), 20', 120 holes (9/19/08)  
 6240'- 6260' MD (6240'- 6260' TVD), 20', 120 holes (9/12/08)  
 6276'- 6291' MD (6276'- 6291' TVD), 15', 90 holes (9/12/08)  
 6311'- 6334' MD (6311'- 6334' TVD), 23', 138 holes (9/6/08)

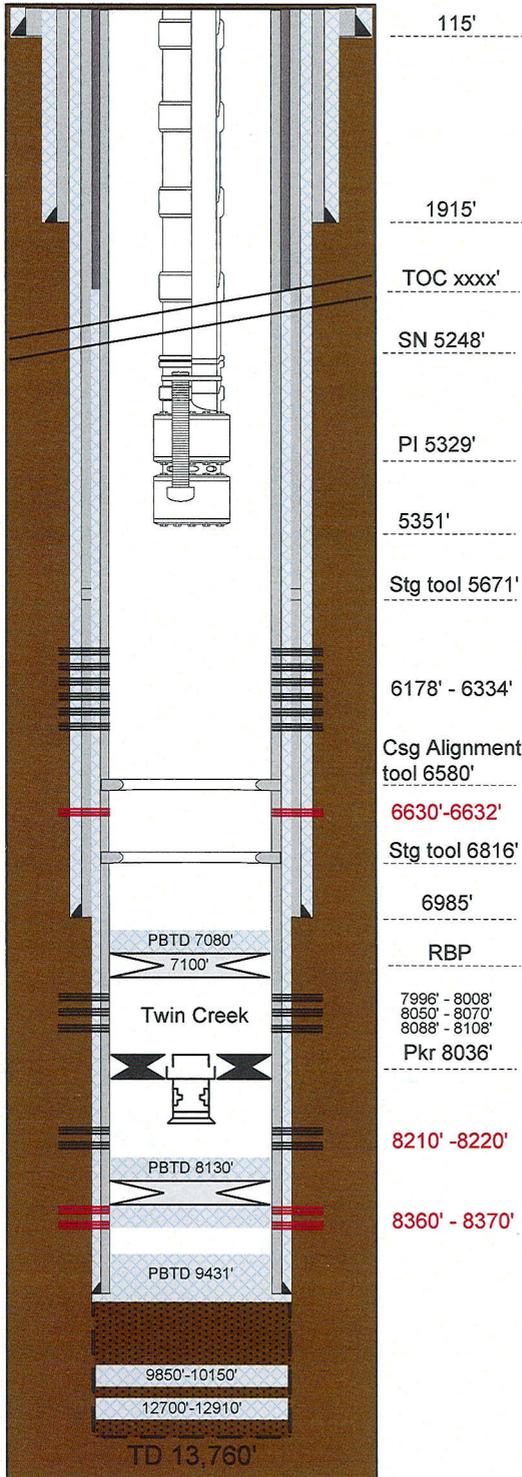
Mid-Perf = 6256' MD (6256' TVD), 88' M (88.0' TV), 528 holes

**Tubing (8/30/2011)** (see Page 2 for details)

End of BHA 5351' WLM (5351' TVD)  
 Centinel 5347' WLM (5347' TVD)  
 Pump intake 5329' WLM (5329' TVD)  
 Seating Nipple 5248' WLM (5248' TVD)

**PBTD**

(08/23/11) 7080' - Tubing tag with wireline correction  
 (08/05/08) 7080' - WL tag of sand plug  
 (02/13/08) 8130' - WL tag  
 (02/11/08) 8200' - CICR (tubing set)  
 (01/23/08) 9378' - CBL logger depth  
 (09/15/07) 9431' - Float Collar





**Wolverine Federal 17-8**  
**API # 43-041-30047**  
**Covenant Field**  
**Section 17, T23S, R1W**  
**Sevier County, Utah**

**Tubing Detail (8/30/2011)**

	26.00	KB
	-2.00	Landed above GL
165	5225.74	Tubing - 2-7/8", 6.5#, N-80, EUE, 8rd
1	1.10	Cup type SN
2	63.43	Tubing - 2-7/8", 6.5#, N-80, EUE, 8rd
1	0.48	Drain sub
1	0.77	X-over - 2-3/8" x 2-7/8", EUE, 8rd
1	14.98	Pump
1	6.10	Seal
1	11.93	Motor
1	4.10	Downhole pressure sensor, Centinel III, 4.50" OD (5347' MD, 5347' TVD)
	-2.0	Wireline correction
<hr/>		
	5350.63'	EOT (5351' KB MD-WLM, 5351' TVD)

**Note:** No check valve in this well.  
 Wireline measurements are 5' shallow to SLM.  
 Tubing capacity = 0.00579 Bbl/ft, Burst = 10570 psi, Joint Yield = 144960 lbs

**Twin Creek Perforations**

7996' - 8008' MD (7996' - 8008' TVD), 12', 48 holes (2/13/08)  
 8014' - 8026' MD (8014' - 8026' TVD), 12', 48 holes (3/29/08)  
 8050' - 8070' MD (8050' - 8070' TVD), 20', 80 holes (2/13/08)  
 8088' - 8108' MD (8088' - 8108' TVD), 20', 80 holes (2/13/08)

-----  
 Mid-Perf = 8052' MD (8052' TVD), 64' M (64.0' TV), 256 holes

**Wellhead Information**

- Tubing head flange is 7-1/16", 5M with a 2-7/8" EUE 8rd top connection.
- South valve in cellar is to the 13-3/8" x 9-5/8" annulus?
- North valve in cellar is to the 9-5/8" x 5-1/2" annulus?

**Stimulation**

- 08/26/11 Pumped 5000 gallons of 7-½% FE HCL w/ 250 buoyant balls into all Navajo perf intervals
- All perforated Navajo intervals broken down using completion fluid and ball sealers during completion.

**Notes**

Surface Location: Latitude = 38.78729, Longitude = -111.93382  
 (1/23/08) Original top of Cement behind 5-½" @ 7003'  
 (1/28/08) Cement squeezed leaking POST with 30 sks micromatrix cement.  
 (10/7/08): Available Logs: Halliburton- DLL/MSFL, HRI, SDL/DSN, MRIL  
 Schlumberger- AIT/TLD/HGNS/MCFL, AII/GR, BHC/GR, CBL, Isolation Scan  
 Weatherford & Baker Atlas- caliper logs

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

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

**SUNDRY NOTICES AND REPORTS ON WELLS**

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

**SUBMIT IN TRIPLICATE- Other instructions on reverse side.**

1. Type of Well <input checked="" type="checkbox"/> Oil Well <input type="checkbox"/> Gas Well <input type="checkbox"/> Other		5. Lease Serial No. UTU-73528
2. Name of Operator Wolverine Gas and Oil Company of Utah, LLC		6. If Indian, Allottee or Tribe Name NA
3a. Address 55 Campau NW, Grand Rapids, MI 49503	3b. Phone No. (include area code) 616-458-1150	7. If Unit or CA/Agreement, Name and/or No. Wolverine Unit
4. Location of Well (Footage, Sec., T., R., M., or Survey Description) 2020' FSL, 1602' FWL, Sec. 17, T23S, R1W, SLB&M		8. Well Name and No. Wolverine Federal 17-8
		9. API Well No. 4304130047
		10. Field and Pool, or Exploratory Area Covenant Field, Navajo
		11. County or Parish, State Sevier County, Utah

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

TYPE OF SUBMISSION	TYPE OF ACTION			
<input type="checkbox"/> Notice of Intent	<input checked="" type="checkbox"/> Acidize	<input type="checkbox"/> Deepen	<input type="checkbox"/> Production (Start/Resume)	<input type="checkbox"/> Water Shut-Off
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<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Casing Repair	<input type="checkbox"/> New Construction	<input type="checkbox"/> Recomplete	<input type="checkbox"/> Other
	<input type="checkbox"/> Change Plans	<input type="checkbox"/> Plug and Abandon	<input type="checkbox"/> Temporarily Abandon	
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See attached WBD and Activity Report for additional details.

RECEIVED

OCT 18 2011

DIV. OF OIL, GAS & MINING

RECEIVED

OCT 7 2011

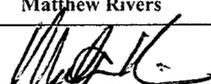
Richfield BLM Field Office

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

Matthew Rivers

Title Production Engineer

Signature



Date

10/05/2011

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved by

Title

Date

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

Office

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(Instructions on page 2)

Sundry # 125LA00035

Accepted For Record Purposes

CONFIDENTIAL



Covenant Field  
 Federal 17-8  
 API# 43-041-30047

SHL NE/SW Sec 17, T23S, R1W  
 BHL NE/SW Sed 17, T23S, R1W  
 Sevier County, Utah

- 8/18/2011 MIRUSU, hauled in frac tanks, rig pump and water filtration system. Hooked up flow back and pump lines, filled frac tanks with CF and filtered the water through 5 micron filters.  
 Plan to pull out of hole with ESP then TIH with bit and scraper.  
 Shut well in and dropped bar to break drain sub on the ESP, Hooked up pump lines and pumped 1 bbl of 4% KCL water down tubing, ND wellhead, NU BOP's. RU vac truck to casing, RU cable spooler and POOH with ESP. PU & RIH 4 5/8" bit and 5 1/2" casing scraper to PBTD @ 7080', reverse circulated 150 bbls of 4% KCL water. SWIFN  
 Plan to POOH with bit and casing scraper then RIH with plug and packer to swab 6311'-6334', 6276'-6291' & 6240'-6260'.
- 8/23/2011
- 8/24/2011 Opened well, POOH with bit and scraper, PU & RIH with plug and packer. Set plug at 6350', set packer at 6301', RU swab equipment, made 8 swab runs recovering 5 bbls of oil and 79 bbls of water with a fluid level of 4100' and a rate of 360 bpd. RD swab equipment, RU pump lines and injected into perf interval 6311'-6334' at a rate of 1 bpm @ 800 psi tubing pressure with returns up the annulus. RD pump lines, released packer and plug, reset plug at 6300', set packer at 6150', RU swab equipment, made 6 runs recovering 6 bbls of oil and 76 bbls of water with a final fluid level of 4800' with a rate not yet determined.  
 Plan to continue swabbing for rate then move plug and packer to swab perf intervals 6178'-6188' & 6202' - 6222'.
- 8/25/2011 Opened well, RU swab equipment, made 13 swab runs recovering 37 bbls oil, 61 bbls of water with a FL of 1400', rate of 360 bpd, with a 20% water cut. RD swab equipment, released packer and plug, reset plug at 6350', set packer at 6154'. RU pump lines and pressure tested packer to 1500 psi, RD pump lines and SWIFN  
 Plan to pump acid on all perf intervals then swab for rate and clean up.
- 8/26/2011 Opened well, 0 psi, RU Halliburton acid equipment, pressure tested lines to 6000 psi and pumped acid job on all perf intervals from 6178'-6334' as follows:

<u>Bbls</u>	<u>Max psi</u>	<u>Max rate</u>	<u>Fluid</u>	<u>Description</u>
5.00	50	1.5 bpm	4% KCL water	Established circulation
35.00	96	1.5 bpm	7 1/2% HCL acid	Spotted acid with 250 7/8" .90 S.G. buoyant balls.
~	~	~	~	Closed packer
31.00	1097	0.8 bpm	7 1/2% HCL acid	Shut in to let pressure drop
13.00	1096	0.8 bpm	7 1/2% HCL acid	Shut in to let pressure drop
39.00	1220	0.8 bpm	7 1/2% HCL acid	
28.00	1614	1.5	Acid & water	Increased rate to 1.5 bpm
13.00	1885	2	4% KCL water	Increased rate to 2.0 bpm
~	1736	~	~	ISIP
~	1329	~	~	5 Min
~	1120	~	~	10 Min

Total	Max psi	Max rate
<u>164.00</u>	<u>1885</u>	<u>2</u>

See 8-26-11 Acid pressure chart for details.

RU swab equipment, made 1 swab run then was unable to get through tubing due to a piece of packer rubber being suspended with balls. Made several attempts to free up tubing blockage with no success. SWIFN  
Plan to pull tubing to clear blockage then reset packer and swab for rate and clean up.

8/27/2011

POOH with tubing and packer, RIH with one stand and circulated balls out of casing, cleaned ball sealers from flowback lines. RIH with tubing and packer, set packer at 6150'. RU swab equipment, made 11 swab runs recovering 75 bbls of water, 23 bbls of oil with a 90% water cut and a final fluid level of 1800' from surface, an inflow rate has not been determined yet. SWIFN. See 8-27 swab report tab for details

Plan to continue swabbing for rate and clean up.

8/28/2011

Opened well, RU swab equipment, made 28 swab runs recovering 81 bbls oil, 146 bbls of water with a FL of 3275', rate of 500 bpd, with a 50% water cut. SWIFN See 8-28-11 Swab report for details

Plan to continue swabbing while the downhole pump is being built.

8/29/2011

Opened well, RU swab equipment, made 15 swab runs recovering 60 bbls oil, 70 bbls of water with a FL of 2658', rate of 540 bpd, with a 50% water cut. RD swab equipment, released packer and plug, POOH with tubing, plug and packer. SWIFN See 8-29-11 Swab report for details

Plan to install ESP

Supervisor:

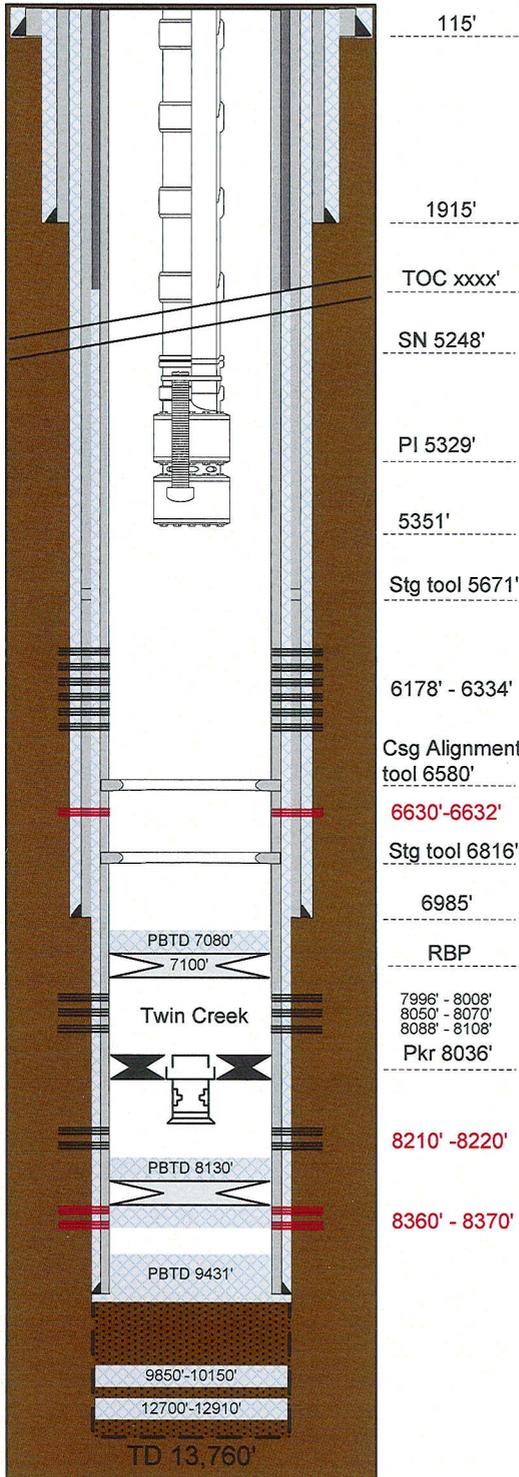
*Tony E. Cook*

Rig Operator:



**Wolverine Federal 17-8**  
**API # 43-041-30047**  
**Covenant Field**  
**Section 17, T23S, R1W**  
**Sevier County, Utah**

Ground Elevation: 5,793'  
 KB Elevation: 5,819'



**(Not to Scale)**

**Vertical Well**

Surface: 2020' FSL 1602' FWL, NE SW, 17-23S-1W  
 Total Depth: 2020' FSL 1602' FWL, NE SW, 17-23S-1W

**Conductor Casing (06/15/07)**

Size: 20", 0.25" wall  
 Depth Landed: 115' KB  
 Cement Data: Cemented to surface with 14 yds redi-mix

**Surface Casing (7/04/07)**

Size/Wt/Grade: 13 3/8", 68#, J-55, STC, 8rd  
 Depth Landed: 1915' KB  
 Cement Data: 352 sks CBM light (10.5 ppg, 4.33 cf/sk), 470 sks Type V (15.6 ppg, 1.19 cf/sk), Cemented to surface

**Intermediate Casing (7/26/07)**

Size/Wt/Grade: 9-5/8", 47#, HCP-110, LTC, 8rd  
 Depth Landed: 6985' KB, stage tool @ 5671' KB  
 Cement Data: Stage 1- 570 sks 50:50 Poz, 14.4 ppg, 1.26 cf/sk  
 Stage 2- 170 sks CBM Lite, 1.5 ppg, 4.29 cf/sk  
 805 sks Class G, 15.8 ppg, 1.29 cf/sk

**Production Casing (9/15/07 & 8/17/08)**

Size/Wt/Grade: 5-1/2", 20#, L-80/HCP-110, LTC 8rd/Ultra-FJ  
 Properties: 9190 psi burst, 4.653" drift, 4.778" ID, 0.0221 Bbl/ft Capacity  
 Depth Landed: 9524' KB  
 Stage tool: (Weatherford POST 781) @ 6816' KB  
 Splice: Cut & realigned @ 6580' KB, squeeze holes at 6630'- 6632' KB  
 Cement Data: 425 sks 50:50 Poz, 13.4 ppg, 1.8 cf/sk (9/15/07)  
 660 sks Class "G", 15.8 ppg, 1.15 cf.sk (8/19/08)

**Navajo Perforations**

6178'- 6188' MD (6178'- 6188' TVD), 10', 60 holes (9/19/08)  
 6202'- 6222' MD (6202'- 6222' TVD), 20', 120 holes (9/19/08)  
 6240'- 6260' MD (6240'- 6260' TVD), 20', 120 holes (9/12/08)  
 6276'- 6291' MD (6276'- 6291' TVD), 15', 90 holes (9/12/08)  
 6311'- 6334' MD (6311'- 6334' TVD), 23', 138 holes (9/6/08)

Mid-Perf = 6256' MD (6256' TVD), 88' M (88.0' TV), 528 holes

**Tubing (8/30/2011)** (see Page 2 for details)

End of BHA 5351' WLM (5351' TVD)  
 Sentinel 5347' WLM (5347' TVD)  
 Pump intake 5329' WLM (5329' TVD)  
 Seating Nipple 5248' WLM (5248' TVD)

**PBTD**

(08/23/11) 7080' - Tubing tag with wireline correction  
 (08/05/08) 7080' - WL tag of sand plug  
 (02/13/08) 8130' - WL tag  
 (02/11/08) 8200' - CICR (tubing set)  
 (01/23/08) 9378' - CBL logger depth  
 (09/15/07) 9431' - Float Collar



**Wolverine Federal 17-8**  
**API # 43-041-30047**  
**Covenant Field**  
**Section 17, T23S, R1W**  
**Sevier County, Utah**

**Tubing Detail (8/30/2011)**

	26.00	KB
	-2.00	Landed above GL
165	5225.74	Tubing - 2-7/8", 6.5#, N-80, EUE, 8rd
1	1.10	Cup type SN
2	63.43	Tubing - 2-7/8", 6.5#, N-80, EUE, 8rd
1	0.48	Drain sub
1	0.77	X-over - 2-3/8" x 2-7/8", EUE, 8rd
1	14.98	Pump
1	6.10	Seal
1	11.93	Motor
1	4.10	Downhole pressure sensor, Centinel III, 4.50" OD (5347' MD, 5347' TVD)
	-2.0	Wireline correction
<hr/>		
	5350.63'	EOT (5351' KB MD-WLM, 5351' TVD)

**Note:** No check valve in this well.  
 Wireline measurements are 5' shallow to SLM.  
 Tubing capacity = 0.00579 Bbl/ft, Burst = 10570 psi, Joint Yield = 144960 lbs

**Twin Creek Perforations**

7996' - 8008' MD (7996' - 8008' TVD), 12', 48 holes (2/13/08)  
 8014' - 8026' MD (8014' - 8026' TVD), 12', 48 holes (3/29/08)  
 8050' - 8070' MD (8050' - 8070' TVD), 20', 80 holes (2/13/08)  
 8088' - 8108' MD (8088' - 8108' TVD), 20', 80 holes (2/13/08)

-----  
 Mid-Perf = 8052' MD (8052' TVD), 64' M (64.0' TV), 256 holes

**Wellhead Information**

- Tubing head flange is 7-1/16", 5M with a 2-7/8" EUE 8rd top connection.
- South valve in cellar is to the 13-3/8" x 9-5/8" annulus?
- North valve in cellar is to the 9-5/8" x 5-1/2" annulus?

**Stimulation**

- 08/26/11 Pumped 5000 gallons of 7-1/2% FE HCL w/ 250 buoyant balls into all Navajo perf intervals
- All perforated Navajo intervals broken down using completion fluid and ball sealers during completion.

**Notes**

Surface Location: Latitude = 38.78729, Longitude = -111.93382  
 (1/23/08) Original top of Cement behind 5-1/2" @ 7003'  
 (1/28/08) Cement squeezed leaking POST with 30 sks micromatrix cement.  
 (10/7/08): Available Logs: Halliburton- DLL/MSFL, HRI, SDL/DSN, MRIL  
 Schlumberger- AIT/TLD/HGNS/MCFL, AII/GR, BHC/GR, CBL, Isolation Scan  
 Weatherford & Baker Atlas- caliper logs

<b>STATE OF UTAH</b> DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING	FORM 9  5. LEASE DESIGNATION AND SERIAL NUMBER: UTU 73528
<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.	6. IF INDIAN, ALLOTTEE OR TRIBE NAME:  7. UNIT or CA AGREEMENT NAME: WOLVERINE
1. TYPE OF WELL Oil Well	8. WELL NAME and NUMBER: WOLVERINE FED 17-8
2. NAME OF OPERATOR: WOLVERINE GAS & OIL COMPANY OF UTAH, LLC	9. API NUMBER: 43041300470000
3. ADDRESS OF OPERATOR: One Riverfront Plaza 55 Campau NW, Grand Rapids, MI, 49503	PHONE NUMBER: 616 458-1150 Ext
4. LOCATION OF WELL FOOTAGES AT SURFACE: 2020 FSL 1602 FWL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: NESW Section: 17 Township: 23.0S Range: 01.0W Meridian: S	9. FIELD and POOL or WILDCAT: COVENANT  COUNTY: SEVIER  STATE: UTAH

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

TYPE OF SUBMISSION	TYPE OF ACTION		
<input checked="" type="checkbox"/> <b>NOTICE OF INTENT</b> Approximate date work will start: 3/25/2013  <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 type="checkbox"/> ACIDIZE  <input type="checkbox"/> CHANGE TO PREVIOUS PLANS  <input type="checkbox"/> CHANGE WELL STATUS  <input type="checkbox"/> DEEPEN  <input type="checkbox"/> OPERATOR CHANGE  <input type="checkbox"/> PRODUCTION START OR RESUME  <input type="checkbox"/> REPERFORATE CURRENT FORMATION  <input type="checkbox"/> TUBING REPAIR  <input type="checkbox"/> WATER SHUTOFF  <input type="checkbox"/> WILDCAT WELL DETERMINATION	<input type="checkbox"/> ALTER CASING  <input type="checkbox"/> CHANGE TUBING  <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS  <input type="checkbox"/> FRACTURE TREAT  <input type="checkbox"/> PLUG AND ABANDON  <input type="checkbox"/> RECLAMATION OF WELL SITE  <input type="checkbox"/> SIDETRACK TO REPAIR WELL  <input type="checkbox"/> VENT OR FLARE  <input type="checkbox"/> SI TA STATUS EXTENSION  <input checked="" type="checkbox"/> OTHER	<input type="checkbox"/> CASING REPAIR  <input type="checkbox"/> CHANGE WELL NAME  <input type="checkbox"/> CONVERT WELL TYPE  <input type="checkbox"/> NEW CONSTRUCTION  <input type="checkbox"/> PLUG BACK  <input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION  <input type="checkbox"/> TEMPORARY ABANDON  <input type="checkbox"/> WATER DISPOSAL  <input type="checkbox"/> APD EXTENSION  OTHER: <input type="text" value="Workover"/>

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

Wolverine Gas and Oil Co. of Utah, LLC has determined that the Wolverine Federal 17-8 is underperforming and intends to workover the well to improve its production. After re-perforating and acid stimulating selected Navajo intervals, an ESP will be run and the well will be returned to production. A follow-up summary of well work activities will be filed, after work is completed.

**Accepted by the  
 Utah Division of  
 Oil, Gas and Mining**

Date: February 19, 2013

By: *Derek Quist*

NAME (PLEASE PRINT) Helene Bardolph	PHONE NUMBER 616 458-1150	TITLE Engineering Administrative Assistant
SIGNATURE N/A	DATE 2/19/2013	

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

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

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

5. Lease Serial No.	UTU 73528
6. If Indian, Allottee or Tribe Name	N/A
7. If Unit or CA/Agreement, Name and/or No.	Wolverine Federal Unit
8. Well Name and No.	Wolverine Federal 17-8
9. API Well No.	43041300470000
10. Field and Pool, or Exploratory Area	Covenant
11. County or Parish, State	Sevier

**SUBMIT IN TRIPLICATE - Other instructions on reverse side**

1. Type of Well <input checked="" type="checkbox"/> Oil Well <input type="checkbox"/> Gas Well <input type="checkbox"/> Other	
2. Name of Operator Wolverine Gas & Oil Company of Utah, LLC	
3a. Address 55 Campau NW, Grand Rapids, MI 49503	3b. Phone No. (include area code) 616-458-1150
4. Location of Well (Footage, Sec., T., R., M., or Survey Description) SHL: 2020' FSL, 1602' FWL, Sec 17, T23S, R1W, SLB & M BHL: 2020' FSL, 1620' FWL, Sec 17, T23S, R1W	

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

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

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

Wolverine Gas and Oil Co. of Utah, LLC has determined that the Wolverine Federal 17-8 is underperforming and intends to workover the well to improve its production. After re-perforating and acid stimulating selected Navajo intervals, an ESP will be run and the well will be returned to production. A follow-up summary of well work activities will be filed, after work is completed.

**RECEIVED**

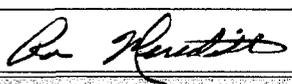
**RECEIVED**

FEB 25 2013

MAR 08 2013

DIV. OF OIL, GAS & MINING

Richfield BLM Field Office

14. I hereby certify that the foregoing is true and correct	
Name (Printed/Typed) Ron Meredith	Title Senior Production Engineer
Signature 	Date 02/19/2013

**THIS SPACE FOR FEDERAL OR STATE OFFICE USE**

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

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

(Instructions on reverse)

SUNDRY # 13 SLA0037F

Accepted For Record Purposes

CONFIDENTIAL

<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> UTU 73528
		<b>6. IF INDIAN, ALLOTTEE OR TRIBE NAME:</b>
<b>1. TYPE OF WELL</b> Oil Well		<b>7. UNIT or CA AGREEMENT NAME:</b> WOLVERINE
<b>2. NAME OF OPERATOR:</b> WOLVERINE GAS & OIL COMPANY OF UTAH, LLC		<b>8. WELL NAME and NUMBER:</b> WOLVERINE FED 17-8
<b>3. ADDRESS OF OPERATOR:</b> One Riverfront Plaza 55 Campau NW, Grand Rapids, MI, 49503		<b>9. API NUMBER:</b> 43041300470000
<b>PHONE NUMBER:</b> 616 458-1150 Ext		<b>9. FIELD and POOL or WILDCAT:</b> COVENANT
<b>4. LOCATION OF WELL</b> <b>FOOTAGES AT SURFACE:</b> 2020 FSL 1602 FWL <b>QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:</b> Qtr/Qtr: NESW Section: 17 Township: 23.0S Range: 01.0W Meridian: S		<b>COUNTY:</b> SEVIER
		<b>STATE:</b> 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 Approximate date work will start:	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> CASING REPAIR
<input checked="" type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion: 4/13/2013	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> CHANGE WELL NAME
<input type="checkbox"/> SPUD REPORT Date of Spud:	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> CONVERT WELL TYPE
<input type="checkbox"/> DRILLING REPORT Report Date:	<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 type="checkbox"/> RECOMPLETE DIFFERENT FORMATION
	<input type="checkbox"/> REPERFORATE CURRENT FORMATION	<input type="checkbox"/> SIDETRACK TO REPAIR WELL	<input type="checkbox"/> TEMPORARY ABANDON
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	<input type="checkbox"/> WATER SHUTOFF	<input type="checkbox"/> SI TA STATUS EXTENSION	<input type="checkbox"/> APD EXTENSION
	<input type="checkbox"/> WILDCAT WELL DETERMINATION	<input checked="" type="checkbox"/> OTHER	OTHER: <input type="text" value="Workover"/>

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

Wolverine completed a workover on the Wolverine Federal #17-8 on April 13, 2013. Existing perforation intervals were re-perforated from 6209'-6218'(9') and 6246'-6256' (10') with 3-3/8", 6 spf, tubing conveyed perf guns and a pressure-fire system. After guns were fired a foamed acid treatment was pumped. The treatment consisted of 2,500 gals of 7-1/2% acid foamed to 70Q, and pumped at a maximum pressure of 4000 psi. Flushed with 90,000 SCF N2 and shut-in at 3950 psi. Flowed and swabbed back for clean-up, and recovered the entire load volume. The well returned to production at 149 BOPD and 184 BWPD. See attached WBD and Daily Reports for additional details.

**Accepted by the  
Utah Division of  
Oil, Gas and Mining  
FOR RECORD ONLY  
May 01, 2013**

<b>NAME (PLEASE PRINT)</b> Helene Bardolph	<b>PHONE NUMBER</b> 616 458-1150	<b>TITLE</b> Engineering Administrative Assistant
<b>SIGNATURE</b> N/A	<b>DATE</b> 4/25/2013	



Covenant Field  
Federal 17-8  
API# 43-041-30047

SHL NE/SW Sec 17, T23S, R1W  
BHL NE/SW Sec 17, T23S, R1W  
Sevier County, Utah

Purpose: EOB Re-Perf Two L. Navajo Zones and Acid Stimulate

3/26/2013

Spotted frac tanks, water filtration system, BOP's and flowback equipment.

3/27/2013

Hooked up flowback lines, laid down oil absorbent around the well head, hooked up frac tanks and filled them with 4% KCL.

4/1/2013

Unloaded P-110 work string onto tubing racks

4/2/2013

MIRUSU, unloaded cat walk, rig pump and rig tank. Hooked up pump lines and assembled BOP's. Plan to NU BOP's, pull out of hole with ESP, Pick up work string and TIH with bit and scraper, circulate well clean and pull out of hole standing back the work string.

4/3/2013

Opened well, 60 psi tubing, 75 psi casing. Hooked up vac truck to the casing, RU pump lines and pumped 10 bbls of completion fluid down the tubing, RD pump lines, ND wellhead, NU BOP's. RU cable spooler and pulled out of hole with ESP equipment. Picked up and run in hole with bit, casing scraper and P-110 work string to PBTD. RU pump lines and reverse circulated the well with 160 bbls of completion fluid. SWIFN

4/4/2013

Opened well, 0 psi tubing, 0 psi casing. POOH with bit and casing scraper, PU and TIH with retrievable bridge plug, retrieving head, 4' sub, HD packer, 1 joint 2 7/8" P-110 tubing, 12' P-110 tubing sub, cup type seating nipple and 203 joints of P-110 tubing to surface. RU wireline unit to correlate the tubing measurement to the open hole logs, this was unsuccessful due to problems with the wireline unit, RD and released wireline company. Set the bridge plug at 6350', released off plug and set the packer at 6142' to swab all of the perf intervals. RU swab equipment and made three swab runs, SWIFN  
Plan to finish swabbing all perf intervals together

4/5/2013

Opened well, 0 psi tubing, 0 psi casing. RU swab equipment and swabbed well as follows:

Swab runs - 8

Average rate - 222 bfpd

Total fluid recovered - 80 bbls

Perf intervals open -6178' - 6334'

RD swab equipment, RU pump lines and pumped 12 bbls of completion fluid down the tubing, RD pump lines.

Released packer, RU wireline unit and correlated to the open hole log, RD wireline unit. Reset pkr at 6230'

RU swab equipment and swabbed well as follows:

Swab runs - 12

Average rate - Inconclusive due to behind pipe communication from the two perf intervals above the packer

Total fluid recovered - 58 bbls

Perf intervals open -6240' - 6334'

RD swab equipment, released plug and packer, reset plug at 6230' and packer at 6150'. SWIFN

Note: There is behind pipe communication between all perf intervals from 6240'-6344'

4/6/2013

Opened well, 0 psi tubing, 0 psi casing. RU swab equipment and swabbed well as follows:

Swab runs - 12

Average rate - 570 bfpd

Total fluid recovered - 98 bbls

Perf intervals open -6178' - 6222'

Note: The swab rates from these top two perf intervals are higher than the wells original total fluid production

prior to pulling the pump.

RD swab equipment, released packer and plug, reset plug at 6350 and the packer at 6142'. RU swab equip. and swabbed well as follows:

Swab runs - 8

Average rate - 610 bfpd

Total fluid recovered - 68 bbls

Perf intervals open -6178' - 6334'

RD swab equipment and SWIFN

4/7/2013

Opened well, 0 psi tubing, 0 psi casing. Pulled out of hole with tubing and packer, picked up tubing conveyed perforating BHA and tripped in the hole setting the top shot on the tubing conveyed guns at 6209'. RU wireline unit and correlated tubing measurements to the open hole logs, RD and released wireline unit. Set pkr and pressured up the annulus to 1600 psi. RU Halliburton's nitrogen and acid equipment and pumped extreme overbalanced perforating / acid job as follows:

Time	Tbg PSI	Description
1924	6	Start Job - Pressure up tubing W/ N2 to fire perf guns
1949	7017	Perf guns fire - 68,842 SCF Job total
1950	3924	Start 2500 gals of 7-1/2% acid foamed to 70Q with 71,594 scf N2
2029	3729	Flush with 100% N2 - 225,877 SCF Job total
2050	3951	Shut down - 315,878 SCF Job total
2050	3949	ISIP

RD and released Halliburton acid equipment, rigged up flowback lines and flowed back 239 bbls of fluid overnight.

4/8/2013

Shut well in, RD flowback lines, released packer, RU pump lines and reverse circulated well with 60 bbls of completion fluid. RD pump line and tripped out of the hole with tubing laying down packer and perf guns. Picked up 5 1/2" HD packer and tripped in the hole setting the packer at 6135'. RU swab equipment and swabbed the well as follows:

Swab runs - 10

Average rate - 809 bfpd

Total fluid recovered - 102 bbls

Perf intervals open -6178' - 6334'

RD swab equipment and SWIFN

4/9/2013

Opened well, 500 psi tubing, 0 psi casing. RU flowback line and opened the well to the frac tank flowing back 9 bbls of oil. RU swab equipment and swabbed well as follows:

Swab runs - 6

Average rate - 600 bfpd (Rate may still be influenced by pockets of nitrogen from the acid job)

Total fluid recovered - 190 bbls

Perf intervals open -6178' - 6334'

RD swab equipment and SWIFN

4/10/2013

Opened well, 400 psi tubing, 0 psi casing. RU flowback line and opened the well to the frac tank flowing back 10 bbls of oil. RU swab equipment and swabbed well as follows:

Swab runs - 6

Average rate - 615 bfpd (Rate may still be influenced by pockets of nitrogen from the acid job)

Total fluid recovered - 66 bbls

Perf intervals open -6178' - 6334'

RD swab equipment, released packer and lowered retrieving head down near sand top, RU pump lines and tubing swivel then reverse circulated sand off the top of the RBP with 55 bbls of completion fluid. RD pump lines, released RBP and pulled out of hole with plug and packer laying down P-110 work string. RIH with one stand and SWIFN.

4/11/2013

Opened well, 0 psi tubing, 0 psi casing. Pulled out of hole with kill joints, PU and RIH with Centinel, motor, double seal section, tandem P-18 pumps, drain sub, 2 joints 2-7/8" tubing, cup type SN and 164 joints of 2-7/8" tubing to surface. Made lower pigtail splice, ND BOP's, NU wellhead. Turned well into production.

1.5 Hour production, 30 bopd, 60 bwpd, 40 Hz, BHP 1361

4/12/2013

RD MOSU, released rig company. Roustabouts moved all of the workover equipment off location.

Final report

Supervisor:

*Tony E. Cook*

Rig Operator:

**Wolverine Federal 17-8**  
**API # 43-041-30047**  
**Covenant Field**  
**Section 17, T23S, R1W**  
**Sevier County, Utah**



Ground Elevation: 5,793'  
 KB Elevation: 5,819'

**(Not to Scale)**

**Vertical Well**

Surface: 2020' FSL 1602' FWL, NE SW, 17-23S-1W  
 Total Depth: 2020' FSL 1602' FWL, NE SW, 17-23S-1W

**Conductor Casing (06/15/07)**

Size: 20", 0.25" wall  
 Depth Landed: 115' KB  
 Cement Data: Cemented to surface with 14 yds redi-mix

**Surface Casing (7/04/07)**

Size/Wt/Grade: 13 3/8", 68#, J-55, STC, 8rd  
 Depth Landed: 1915' KB  
 Cement Data: 352 sks CBM light (10.5 ppg, 4.33 cf/sk), 470 sks Type V (15.6 ppg, 1.19 cf/sk), Cemented to surface

**Intermediate Casing (7/26/07)**

Size/Wt/Grade: 9-5/8", 47#, HCP-110, LTC, 8rd  
 Depth Landed: 6985' KB, stage tool @ 5671' KB  
 Cement Data: Stage 1- 570 sks 50:50 Poz, 14.4 ppg, 1.26 cf/sk  
 Stage 2- 170 sks CBM Lite, 1.5 ppg, 4.29 cf/sk  
 805 sks Class G, 15.8 ppg, 1.29 cf/sk

**Production Casing (9/15/07 & 8/17/08)**

Size/Wt/Grade: 5-1/2", 20#, L-80/HCP-110, LTC 8rd/Ultra-FJ  
 Properties: 9190 psi burst, 4.653" drift, 4.778" ID, 0.0221 Bbl/ft Capacity  
 Depth Landed: 9524' KB  
 Stage tool: (Weatherford POST 781) @ 6816' KB  
 Splice: Cut & realigned @ 6580' KB, squeeze holes at 6630'- 6632' KB  
 Cement Data: 425 sks 50:50 Poz, 13.4 ppg, 1.8 cf/sk (9/15/07)  
 660 sks Class "G", 15.8 ppg, 1.15 cf.sk (8/19/08)

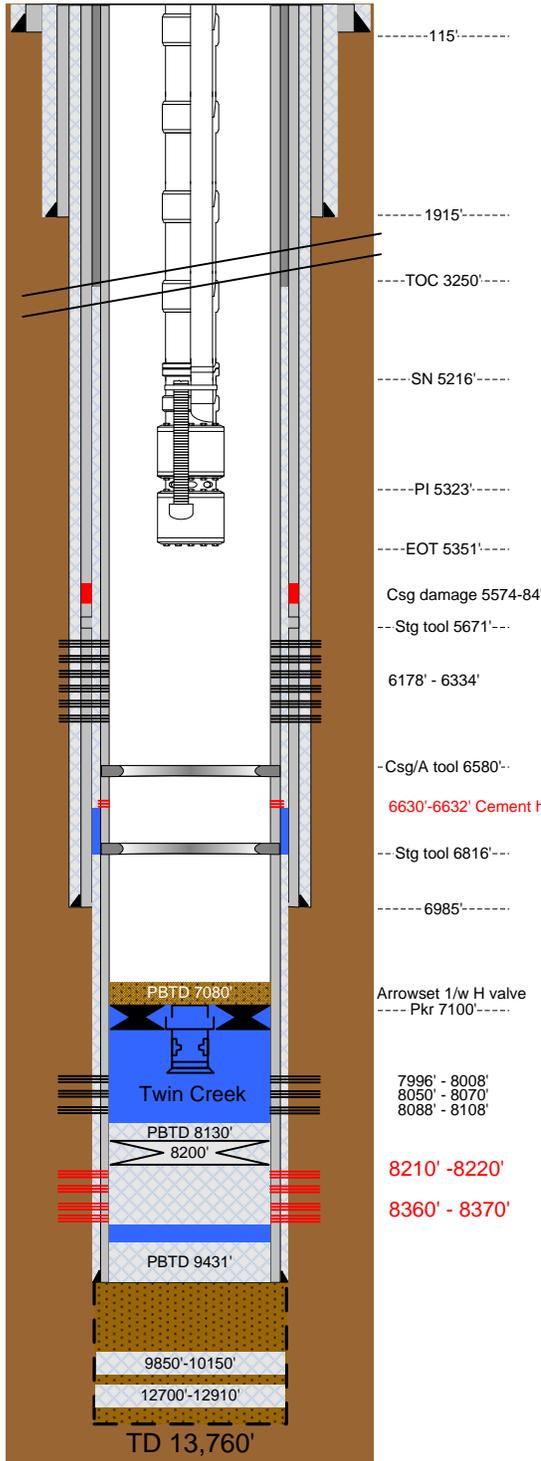
**Navajo Perforations**

6178'- 6188' MD (6178'- 6188' TVD), 10', 60 holes (9/19/08)  
 6202'- 6222' MD (6202'- 6222' TVD), 20', 120 holes (9/19/08)  
 6209'- 6218' MD (6209'- 6218' TVD) Re-perf existing intervals (4/07/13)  
 6240'- 6260' MD (6240'- 6260' TVD), 20', 120 holes (9/12/08)  
 6246'- 6256' MD (6246'- 6256' TVD), Re-perf existing intervals (4/07/13)  
 6276'- 6291' MD (6276'- 6291' TVD), 15', 90 holes (9/12/08)  
 6311'- 6334' MD (6311'- 6334' TVD), 23', 138 holes (9/06/08)

Mid-Perf = 6256' MD (6256' TVD), 88' M (88.0' TV), 528 holes

**Tubing (8/30/2011)** (see Page 2 for details)

End of BHA 5351' WLM (5351' TVD)  
 Centinel 5347' WLM (5347' TVD)  
 Pump intake 5323' WLM (5323' TVD)  
 Seating Nipple 5216' WLM (5216' TVD)





**Wolverine Federal 17-8  
API # 43-041-30047  
Covenant Field  
Section 17, T23S, R1W  
Sevier County, Utah**

**PBTD**

(08/23/11) 7080' - Tubing tag with wireline correction  
(08/05/08) 7080' - WL tag of sand plug  
(02/13/08) 8130' - WL tag  
(02/11/08) 8200' - CICR (tubing set)  
(01/23/08) 9378' - CBL logger depth  
(09/15/07) 9431' - Float Collar

**Tubing Detail (4/11/2013)**

	26.00	KB
	-2.00	Landed above GL
164	5193.97	Tubing - 2-7/8", 6.5#, N-80, EUE, 8rd
1	1.10	Cup type SN
2	63.43	Tubing - 2-7/8", 6.5#, N-80, EUE, 8rd
1	0.48	Drain sub
1	0.50	Discharge
1	20.50	Pump
1	20.70	Pump
1	6.10	Seal
1	6.10	Seal
1	12.10	Motor
1	4.10	Downhole pressure sensor, Centinel III
	-2.0	Wireline correction
<hr/>		
	5351.08'	EOT (5351' KB MD-WLM, 5351' TVD)

Note: No check valve in this well.  
Tubing capacity = 0.00579 Bbl/ft, Burst = 10570 psi, Joint Yield = 144960 lbs

**Twin Creek Perforations**

7996' - 8008' MD (7996' - 8008' TVD), 12', 48 holes (2/13/08)  
8014' - 8026' MD (8014' - 8026' TVD), 12', 48 holes (3/29/08)  
8050' - 8070' MD (8050' - 8070' TVD), 20', 80 holes (2/13/08)  
8088' - 8108' MD (8088' - 8108' TVD), 20', 80 holes (2/13/08)

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Mid-Perf = 8052' MD (8052' TVD), 64' M (64.0' TV), 256 holes

**Wellhead Information**

- Tubing head flange is 7-1/16", 5M with a 2-7/8" EUE 8rd top connection.

**Stimulation**

-04/07/13 Acidized all perf intervals with, 2,500 gals of 7½% FeX2 (w/ 2 gpt HAI-404M corrosion inhibitor, 8 gpt AQF-2 foaming agent, and 5 gpt Pen-88M surfactant, and 5 gpt AS-5 anti-sludge), foamed to 70Q.  
- 08/26/11 Pumped 5000 gallons of 7-½% FE HCL w/ 250 buoyant balls into all Navajo perf intervals  
- 09/24/08 All perforated Navajo intervals broken down using completion fluid and ball sealers during completion.

**Notes**

Surface Location: Latitude = 38.78729, Longitude = -111.93382  
(1/23/08) Original top of Cement behind 5-½" @ 7003'  
(1/28/08) Cement squeezed leaking POST with 30 sks micromatrix cement.  
(10/7/08): Available Logs: Halliburton- DLL/MSFL, HRI, SDL/DSN, MRIL  
Schlumberger- AIT/TLD/HGNS/MCFL, AII/GR, BHC/GR, CBL, Isolation Scan  
Weatherford & Baker Atlas- caliper logs