WOLVERINE OPERATING COMPANY
of Utah, LLC
Energy Exploration in Partnership with the Environment

July 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 17-9
Covenant Field, Sevier County, UT

Dear Ms. Whitney:

Wolverine Gas & Oil of Utah, LLC is proposing to drill the Wolverine Federal 17-9, 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 to Permit to Drill.* The Wolverine Federal 17-9 will be drilled from the same well pad as the previously approved Wolverine Federal 17-8. Wolverine intends, subject to receiving approval of the APD, to drill the 17-9, immediately after drilling the 17-8. We anticipate we will be ready to slide the rig and begin drilling the 17-9 within 45 days or by August 28th.

The Wolverine Federal 17-9 is proposed as a 7,000' Navajo well. The surface location is 2006' FSL and 1609 FWL of Section 17, T23S-R01W. This well will be drilled as a directional well with the bottom hole location at 764' FSL and 666' FWL at the top of the Navajo, and 707' FSL and 622' FWL at the proposed total depth. The proposed bottom hole location will be within the "400' window" allowed under Rule 649-3.2.

The proposed Wolverine Federal 17-9 will be directionally drilled from the surface location known as the C-Pad, which is the same pad being used to drill the Wolverine Federal 17-8. The well will need to be drilled directionally because of the limited land for drilling wells and because we wanted to minimize the "footprint" of our operations. The proposed location falls within the Wolverine Federal Unit and Wolverine Gas & Oil owns the mineral lease for the proposed bottomhole location and the mineral leases within 460' radius of the proposed drilling location and for directly or diagonally offsetting drilling locations. Woverine Gas & Oil owns all leases within 460 feet of the entire proposed trajectory of the wellbore. The exception to Rule 649-3-11 is needed because a vertical well is not feasible, given our existing surface land situation.

One Riverfront Plaza • 55 Campau, N.W. • Grand Rapids, MI 49503-2616 • 616.458.1150
FAX 616.458.0869

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 nay questions, please contact me.

Sincerely,

Edward A. Higuera

Enclosure WF 17-9 APD package

CONFIDENTIAL

Form 3160-3
(February 2005)

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

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL OR REENTER

5. Lease Serial No.
UTU-73528

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

1a. Type of work: ☑ DRILL ☐ REENTER

7. If Unit or CA Agreement, Name and No.
Wolerine Federal Unit

1b. Type of Well: ☑ Oil Well ☐ Gas Well ☐ Other ☑ Single Zone ☐ Multiple Zone

8. Lease Name and Well No.
Wolverine Federal 17-9

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

9. API Well No.
43-041-30049

3a. Address **55 Campau, NW**
Grand Rapids, Michigan, 49503-2616

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

10. Field and Pool, or Exploratory
Covenant Field Navajo 497

4. Location of Well *(Report location clearly and in accordance with any State requirements.*)*
At surface **2006' FSL, 1609' FWL, NE/4 SW/4**
At proposed prod. zone **764' FSL, 666' FWL, SW/4 SW/4**

11. Sec., T. R. M. or Blk. and Survey or Area
Section 17, T23S, R1W, SLB&M

14. Distance in miles and direction from nearest town or post office*
3.2 miles southeast of Sigurd, Utah

12. County or Parish
Sevier

13. State
UT

15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any) **1793**

16. No. of acres in lease
8236

17. Spacing Unit dedicated to this well
40 acres

18. Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft. **884' NE of WF 18-1**

19. Proposed Depth
7000

20. BLM/BIA Bond No. on file
BLM WY3329

21. Elevations (Show whether DF, KDB, RT, GL, etc.)
5793' GL, 5819' KB

22. Approximate date work will start*
08/28/2007

23. Estimated duration
40 days

24. Attachments

The following, completed in accordance with the requirements of Onshore Oil and Gas Order No.1, must be attached to this form:

1. Well plat certified by a registered surveyor.
2. A Drilling Plan.
3. A Surface Use Plan (if the location is on National Forest System Lands, the SUPO must be filed with the appropriate Forest Service Office).
4. Bond to cover the operations unless covered by an existing bond on file (see Item 20 above).
5. Operator certification
6. Such other site specific information and/or plans as may be required by the BLM.

25. Signature Edward O Higuera — Name *(Printed/Typed)* **Edward A. Higuera** — Date **07/19/2007**

Title **Manager - Development**

Approved by *(Signature)* — Name *(Printed/Typed)* BRADLEY G. HILL — Date 07-25-07

Title — Office ENVIRONMENTAL MANAGER

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

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)

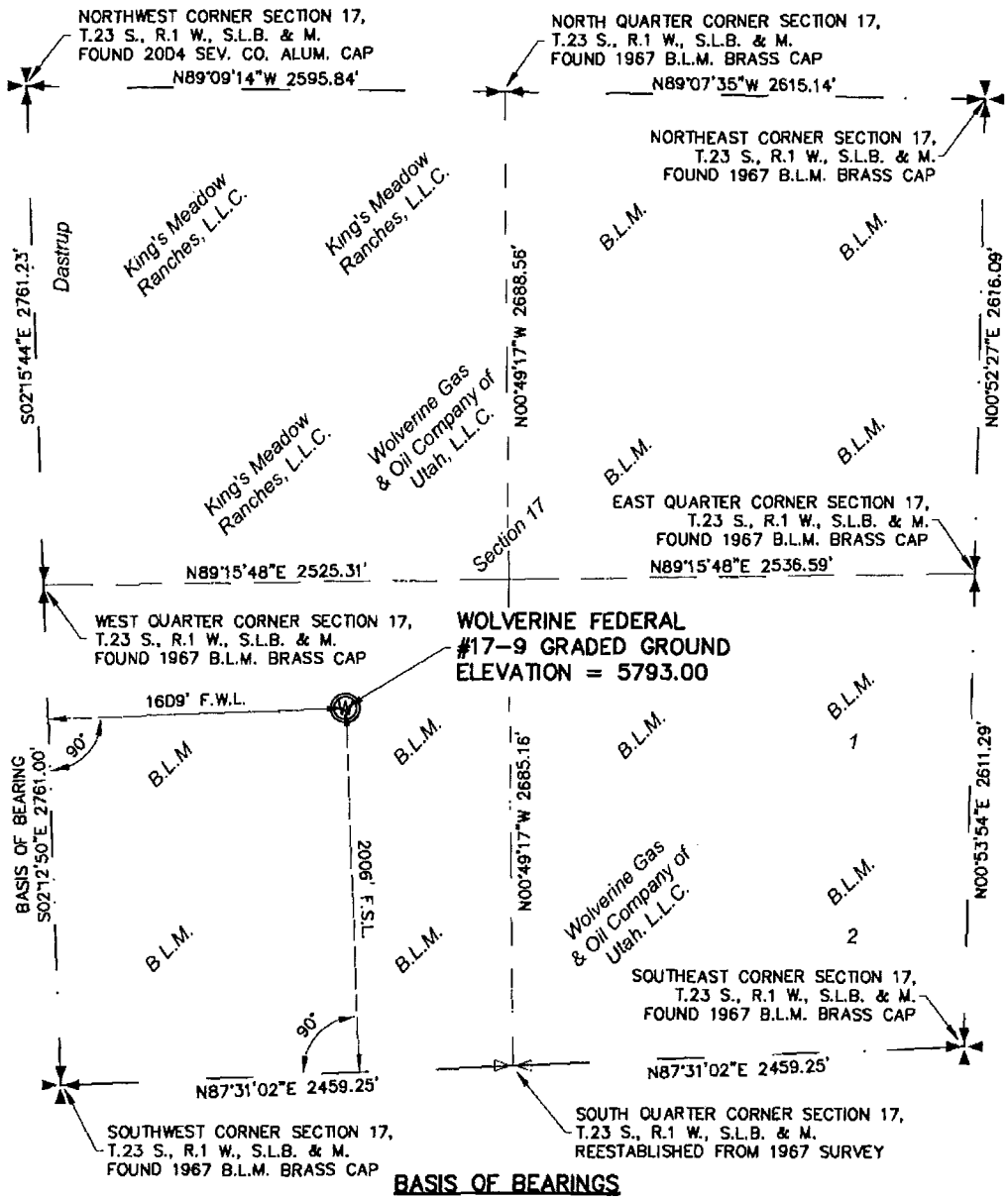
Surf
418791X
4294865Y
38.800623
-111.935192

Federal Approval of this Action is Necessary

BHL 418515X
4294474Y
38.797140
-111.938316

RECEIVED
JUL 20 2007
DIV. OF OIL, GAS & MINING

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°48'02.4834" (38.800689833) NAD 83
LONGITUDE: -111°56'09.6772" (-111.936021444) 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

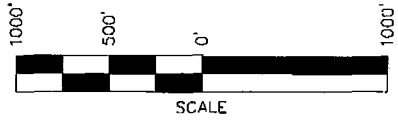
LEGEND

= SECTION CORNERS LOCATED
= QUARTER SECTION CORNERS LOCATED
(W) = PROPOSED WELL HEAD

NOTE: THE PURPOSE OF THIS SURVEY WAS TO PLAT THE WOLVERINE FEDERAL #17-9 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.

TREVOR R. GADD P.L.S. # 345639 — 06/04/07

PROFESSIONAL LAND SURVEYOR TREVOR ROY GADD 345639 STATE OF UTAH

Jones & DeMille Engineering
1535 South 100 West — Richfield, Utah 84701
Phone (435) 896-8266
Fax (435) 896-8268
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		DWG NAME	SCALE		
06/01/07		WELL_LOC	1"=1000'		

WOLVERINE GAS AND OIL COMPANY OF UTAH, LLC

DRILLING PLAN

Wolverine Federal 17-9
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 development well as a directional bore hole due to surface topography constraints and in accordance with the enclosed directional drilling plan. The well will be drilled to a measured depth of 7,000' (6,735' TVD) to test the Navajo formation. 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 Location:	2006' FSL, 1609' FWL, Section 17, T23S, R1W, S.L.B. & M.
Bottom Hole Location @ top target (Navajo)	764' FSL, 666' FWL, Section 17, T23S, R1W, S.L.B. & M.
Bottom Hole Location @ total depth	707' FSL, 622' FWL, Section 17, T23S, R1W, S.L.B. & M.

Conductor casing will be set at approximately 120 feet and cemented to surface. A 17-1/2" hole will be drilled vertically to approximately 1000' and then deviated at 2 degrees per 100' to 20 degrees from vertical at 2020' (2000' TVD) where 13-3/8" surface casing will be set and cemented to surface. A 12-1/4" hole will be drilled at 20 degrees from vertical to approximately 5700', then allowed to drop slightly to approximately 16 degrees by 5900' (5600' TVD) where the well will be logged and 9-5/8" intermediate casing will be set and cemented to 2020' (13-3/8" csg shoe). An 8-1/2" hole will be drilled allowing the vertical deviation to drop to approximately vertical by total depth of 7000' (6735' TVD). The hole will again be logged and a 5-1/2" production liner set from total depth of 7000' to top of liner at approximately 5500' (400' overlap in 9-5/8"). The liner will be cemented.

Drilling activities at this well are expected to commence as early as September, 2007 if regulatory approvals are obtained.

Well Name: **Wolverine Federal 17-9**

Surface Location: 2006' FSL, 1609' FWL
NE SW Section 17, T23S, R1W, S.L.B. & M.
Sevier County, Utah

TD Bottom-Hole Location: 707' FSL, 622' FWL

Elevations (est): 5793' GL, 5819' KB

I. Geology:

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

Formation	TVD Interval (KB)	MD Interval (KB)	Contents	Pressure Gradient
Arapien	26' – 5528'	26' – 5776'		
Twin Creek	5528' – 5888'	5776' – 6149'	Oil & water	0.44 psi/ft
Navajo	5888' – 6735'	6149' – 7000'	Oil & water	0.44 psi/ft
Total Depth	6735'	7000'		

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.):

BOPE Item	Flange Size and Rating
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 (Pipe)	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 (13-3/8" SOW w/ two 2-1/16" SSO's)	13-5/8" 5M

Auxiliary Equipment (5M Min.):

BOPE Item
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 choke lines will be straight lines unless turns have tee blocks or are targeted with running tees, 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"	20"		Conductor			120' GL
17.50"	13.375"	68.0	J-55	BTC	14.375"	2020' KB
12.25"	9.625"	47.0	HCL-80	LTC	10.625"	5900' KB
8.50"	5.500"	17.0	J55	LTC	6.050"	7000' KB

	Surface	Intermediate	Prod Liner
Casing O. D. (in)	13.375	9.625	5.500
Casing Grade	J-55	HCL-80	J55
Weight of Pipe (lbs/ft)	68.0	47.0	17.0
Connection	BTC	LTC	LTC
Top Setting Depth - MD (ft)	0	0	5500
Top Setting Depth - TVD (ft)	0	0	5300
Bottom Setting Depth - MD (ft)	2020	5900	7000
Bottom Setting Depth - TVD (ft)	2000	5600	6735
Maximum Mud Weight - Inside (ppg)	9.6	10.5	9.0
Maximum Mud Weight - Outside (ppg)	9.6	10.5	9.0
Design Cement Top - MD (ft)	0	2020	5500
Design Cement Top - TVD (ft)	0	2000	5300
Max. Hydrostatic Inside w/ Dry Outside (psi)	998	3058	3276
Casing Burst Rating (psi)	3450	6870	5320
Burst Safety Factor (1.10 Minimum)	**3.46**	**2.25**	**1.62**
Max. Hydrostatic Outside w/ Dry Inside (psi)	998	3058	3276
Collapse Rating	1950	7100	4910
Collapse Safety Factor (1.125 Minimum)	**1.95**	**2.32**	**1.50**
Casing Weight in Air (kips)	137.0	277.3	119.0
Body Yield (kips)	1069	1086	273
Joint Strength (kips)	1140	1015	247
Tension Safety Factor (1.80 Minimum)	**8.38**	**3.66**	**2.08**

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

Casing Size	Cement Slurry	Quantity (sks)	Density (ppg)	Yield (ft^3/sk)
13.375"	Lead: CBM Lite	400	10.5	4.12
	Tail: Premium Plus	450	15.6	1.19
9.625"	Lead: 50:50 POZ	1100	14.3	1.47
	Tail: Prem	200	15.6	1.19
5.500"	Tail: 50:50 POZ	350	14.35	1.21

Surface: 13-3/8" surface casing will be cemented from setting depth (2020' MD) 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.

Intermediate: 9-5/8" intermediate casing will be cemented in one stage from setting depth (5900' MD) to 2000' (back into the surface csg shoe). Hardware will include a guide shoe, float collar, top plug, and a minimum of one centralizer per joint on the bottom three (3) joints of casing. Water and preflush fluid pumped ahead of the slurry will separate cement from the drilling fluids.

Production: 5-1/2" production casing liner will be cemented in one stage from setting depth (7000') to 5500' (at least 400' into the 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 20% 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:

Depth	Mud Weight (ppg)	Mud Type	Viscosity	Fluid Loss
0 – 2020'	8.4 – 9.2	Fresh Water	26 – 50	N/C to 12 cc
2000' – 5900'	9.2 – 10.5	Salt Mud	36 – 50	N/C to 12 cc
5900' – 7000'	8.5 – 8.7	Polymer	36 – 45	6 - 8 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, filtration, 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 2000 feet to TD. Samples will be caught, cleaned, bagged, and marked as required.

B. Drill Stem Tests: No DST's are expected.

C. Coring: It is planned to cut 120 feet of whole core in the Navajo Formation. 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_2S) gas is not expected in the geologic formations to be penetrated by this well.

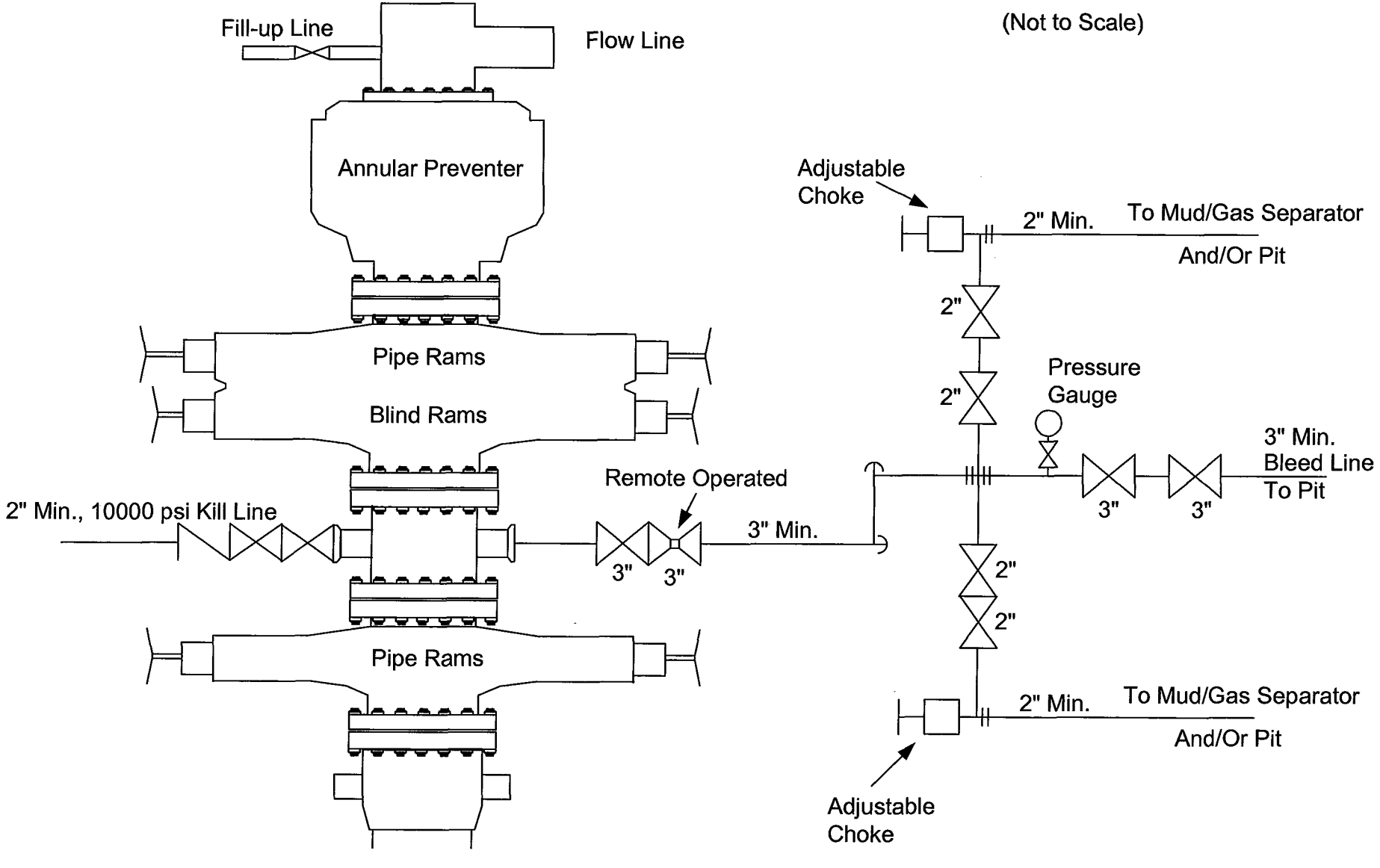
B. Pressure: No abnormally pressured zones are expected in this well. The pressure gradient for all potentially productive formations is expected to be approximately 0.44 psi/ft.

C. Temperature: Bottom-hole temperature at TD is expected to be approximately 195 °F.

end

Wolverine Federal 17-9
BOPE Schematic

(Not to Scale)



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 17-9**
(located on the same pad as the Wolverine Federal 17-8)
SHL: 2,006' FSL & 1,609' FWL, NE/4 SW/4,
BHL: 764' FSL & 666 FWL (top of Navajo)
Section 17, T23S, R1W, SLB&M
Sevier County, Utah

Note: The proposed Wolverine Federal 17-9 is located on the same well pad as the previously approved Wolverine Federal 17-8. The well pad has been constructed for the Wolverine Federal 17-8 and drilling operations are ongoing for the 17-8. Wolverine Gas & Oil intends, once the 17-8 is finished drilling and a permit is issued for Wolverine Federal 17-9, to slide the rig and commence drilling on the proposed Wolverine 17-9 well. The Surface Use Plan is similar to the BLM-approved Surface Use Plan submitted with the Wolverine Federal 17-8 (and supplemented on February 16, 2007), except for changes to reflect that the construction of the 17-8 well pad has been completed. Because the construction/design drawings were submitted originally with the 17-8 APD, an additional set of drawings are not included with this Surface Use Plan.

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.

A Federal onsite inspection was conducted on Thursday, September 7, 2006 for the Wolverine Federal 17-8, which is located on the same well pad as the Wolverine Federal 17-9 (approximately 16' south of 17-8 well). The following individuals were present for the original onsite inspection for the Wolverine Federal 17-8:

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 Wetzel – BLM Associate Field Manager
Tim Finger – BLM Outdoor Recreation Planner
Larry Greenwood - BLM Biologist
Mark Rickenbach - Road Supervisor, Sevier County Road Commission

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.

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 has been obtained from UDOT as part of the construction for the Wolverine Federal 17-8 well pad. 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 has been obtained from Sevier County as part of the construction for the Wolverine Federal 17-8 well pad. Additional new construction will not be needed to drill the Wolverine Federal 17-9, because it is located on the same pad.

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 have been completed to the existing access road from the UDOT maintained SR-24 highway surface to the Wolverine Federal 17-8 well site, along the existing county road. Additional new construction will not be needed to drill the Wolverine Federal 17-9, because it is located on the same pad.

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 have been constructed for the Wolverine Federal 17-8 well pad. The access consists of entirely new construction for the access and egress road, neither of which crosses any significant drainage. A road alignment plan was included with the APD submitted for the Wolverine Federal 17-8.

b. The newly constructed access road maintained to facilitate safe and effective travel during drilling operations. The road will then be further upgraded as necessary for longer term year-round access during continued production operations.

c. The newly constructed access and egress roads consist of a 16' travel way plus a two-foot shoulder on either side for a total 20-foot travel surface.

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 previous culvert along the county road leaving the UDOT surface was replaced with an 18" culvert that is 56' or greater in length as part of the construction of Wolverine Federal 17-8 well pad. Drainage structures were incorporated into the road design. 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:

Well	Type	Surface Location *	Bottom hole Loc.*
KMR 17-1	Producer-oil	SE/NW Sec. 17	SE/NW Sec. 17
WF 17-2	Producer-oil	SE/SW Sec. 17	SE/SW Sec. 17
WF 17-3	Producer-oil	SE/NW Sec. 17	SW/NW Sec. 17
WF 17-4	Producer-oil	SE/NW Sec. 17	NW/SE Sec. 17
WF 17-5	Producer-oil	SE/NW Sec. 17	SE/NE Sec. 17
WF 17-6	Producer-oil	SE/NW Sec. 17	NW/NE Sec. 17
KMR 17-7	Producer-oil	SE/NW Sec. 17	NW/SW Sec. 17
WF 18-1	Producer-oil	SE/SW Sec. 17	SE/SE Sec. 18
WF 19-1	Producer-oil	SE/SW Sec. 17	NE/NE Sec. 19
WF 20-1	Producer-oil	SE/SW Sec. 17	NW/NW Sec. 20
WF 8-1	Dryhole-plugged	SE/NW Sec. 17	SE/SE Sec. 8
SWD-1	Disposal-active	SW/SW Sec. 8	SW/SW Sec. 8
Water well	Culinary Supply	SW/NE Sec. 20	SW/NE Sec. 20

*All wells are located in T23 S-R1W

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.

a. 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.

b. Any necessary pits will be properly fenced to prevent any wildlife and livestock entry.

c. 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.

d. 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.

e. 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, in the same pit that is currently being used for the Wolverine Federal 17-8 well.

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 form 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 in support of the Categorical Exclusion and APD prepared for the Wolv. Fed. 17-8 well.

b. A T&E survey was conducted in support of the Categorical Exclusion prepared for the Wolv. Fede. 17-8 well.

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

Title	Name	Office Phone
Company Representative (Richfield)	Charlie Irons	1-435-896-1943
Company Representative (Grand Rapids)	Edward Higuera	1-616-458-1150

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: Edward C Higuera Date: 7-19-07

WOLVERINE GAS AND OIL COMPANY OF UTAH, LLC.

LOCATION LAYOUT FOR

WOLVERINE FEDERAL #17-9

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

EXIST. CO. ROAD

48 L.F. 24"ø CMP REQ'D

SPOIL AREA

UDOT

822 L.F. TEMPORARY SILT FENCE REQ'D.

TEMPORARY STOCK TIGHT FENCE REQ'D. SEE DT-01

50' 25' 0' 50'

SCALE

R=35'

R=35'

RECONSTRUCT EXIST. DIRT ROAD

PETERSON CREEK

REPAIR EXIST. ROAD

SECONDARY ACCESS ROAD

SEE SHEET SP-02

DATA

STORAGE TANK

FUEL

TRAILER

TRAILER

TRAILER

TOILET

50'x86'x8' IMPORTED GRANULAR BORROW RIG FOUNDATION

2 FOOT DEEP DRAINAGE DITCH REQ'D

CENTER WELL
8' DIA. X 8' LONG CORRUGATED METAL PIPE CELLAR REQ'D.
(INSTALL VERTICAL W/TOP FLUSH W/FINISHED PAD SURFACE)

228'

190'

DOG HOUSE

CATWALK

PIPE RACKS

F-1.5' EL 98.4'

WATER

ACCUMULATOR COMPRESSOR

PUMP 1

PUMP 2

FUEL

SCR

ENGINE #1

ENGINE #2

ENGINE #3

BOILER

MUD TANKS

TRASH

222'

148'

12+00

11+00

398 L.F. TEMPORARY STOCK-TIGHT FENCE REQ'D

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

C-6.2' EL 98.7'

153'

82'

80'

RESERVE PIT w/LINER 14' DEEP

FLARE PIT

UNCOMPACTED FILL

Elevation Ungraded Ground at FEDERAL 17-9 = 5789

Elevation Finished Graded Ground at FEDERAL 17-9 = 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.

NO.	DATE	REMARKS	LAST UPDATE 5/30/2007
	3-27-06	ORIGINAL SUBMISSION FOR AUTHORIZATION	DWG CREATED: 8/16/2006
	4-24-06	REVISIONS	DWG NAME: A-2179
	5-30-07		SHT SET: WOLVERINE (2930.dwg)

SCALE: 1"=50'

REVIEW	DATE	BY
-	-	-
-	-	-
-	-	-
-	-	-

Jones & DeMille Engineering

1596 South 100 West - Richfield, Utah 84701

Phone (435) 896-8266 Fax (435) 896-5286

www.jonesanddemille.com

DRAWN:	CHECKED:
T.D.H.	L.G.
08-06	08-06

Wolverine Gas & Oil Co. of Utah LLC

FEDERAL 17-9

WELL LOCATION LAYOUT

PROJECT NUMBER 0604-099

SEVIER COUNTY

SHEET NO. SP-01

WOLVERINE GAS AND OIL COMPANY OF UTAH, L.L.C.

LOCATION LAYOUT FOR
WOLVERINE FEDERAL #17-9
SECTION 17, T.23 S., R.1 W., S.L.B.& M.

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

2 FOOT DEEP DRAINAGE DITCH REQ'D

C-6.2' EL. 98.7'

3:1

UNCOMPACTED FILL

SEE SHEET SP-01

409 L.F. TEMPORARY STOCK-TIGHT FENCE REQ'D

FLARE PIT

RESERVE PIT w/LINER 14' DEEP

CATWALK

PIPE RACKS

F 0.5' EL. 88.4'

50'x86'x8' IMPORTED GRANULAR BORROW RIG FOUNDATION

CENTER WELL 8" DIA. X 8' LONG CORRUGATED METAL PIPE CELLAR REQ'D (INSTALL VERTICAL W/TOP FLUSH W/FINISHED PAD SURFACE)

STA. 12+21.57

DOG HOUSE

STORAGE TANK

FUEL

MUD TANKS

PUMP 2

PUMP 1

ACCUMULATOR COMPRESSOR

WATER

BOILER

ENGINE #3

ENGINE #2

ENGINE #1

SCR

FUEL

TRASH

TRAILER

TRAILER

TRAILER

TOILET

RECONSTRUCT EXISTING DIRT ROAD

SCALE 50' 25' 0' 50'

SEVIER CO. RIGHT-OF-WAY

REPAIR EXIST. ROAD

TEMPORARY STOCK-TIGHT FENCE REQ'D SEE DT-01

822 L.F. TEMPORARY SILT FENCE REQ'D

EXIST. CO. ROAD

PETERSON CREEK

VEHICLE TURNOUT

R=60'

REMOVE EXIST. CMP

EXIST. SEVIER CO. ROAD APPROACH

PAD ACCESS

60'

STATE HWY 24

60 L.F. 36"ø CMP REQ'D

RELOCATE EXIST. STOP SIGN

UDOT RIGHT-OF-WAY

R=60'

3" THICK AC PAVEMENT REQ'D. SEE SECTION DETAIL ON TS-01.

F 8.2' EL. 84.3

C-12.2' EL. 04.7'

2 FOOT DEEP DRAINAGE DITCH REQ'D

RIPRAP ARMOR, DRAINAGE DITCH (IF PRODUCTION OCCURS)

Elevation Ungraded Ground at FEDERAL 17-9 = 5789

Elevation Finished Graded Ground at FEDERAL 17-9 = 5793.0

N

NO.	DATE	REMARKS
1	7-25-07	ORIGINAL SUBMISSION FOR AUTHORIZATION
2	8-29-07	REVISIONS

SCALE: 1"=50'

DWG NAME: JOB17-9

SHT SET: WOLVERINE

DWG CREATED: 8/16/2006

LAST UPDATE: 5/30/2007

Jones & DeMille Engineering
1535 South 100 West - Richfield, Utah 84701
Phone (435) 896-8266 Fax (435) 896-5288
www.jonesanddemille.com

	REVIEW	DATE
SURVEYED	-	-
DRAWN	L.G. 08-06	-
CHECKED	-	-
APPROVED	-	-

APPROVED - DIVISION OF OIL, GAS & MINING

APPROVED

DATE

Wolverine Gas & Oil Co. of Utah LLC

FEDERAL 17-9

WELL LOCATION LAYOUT

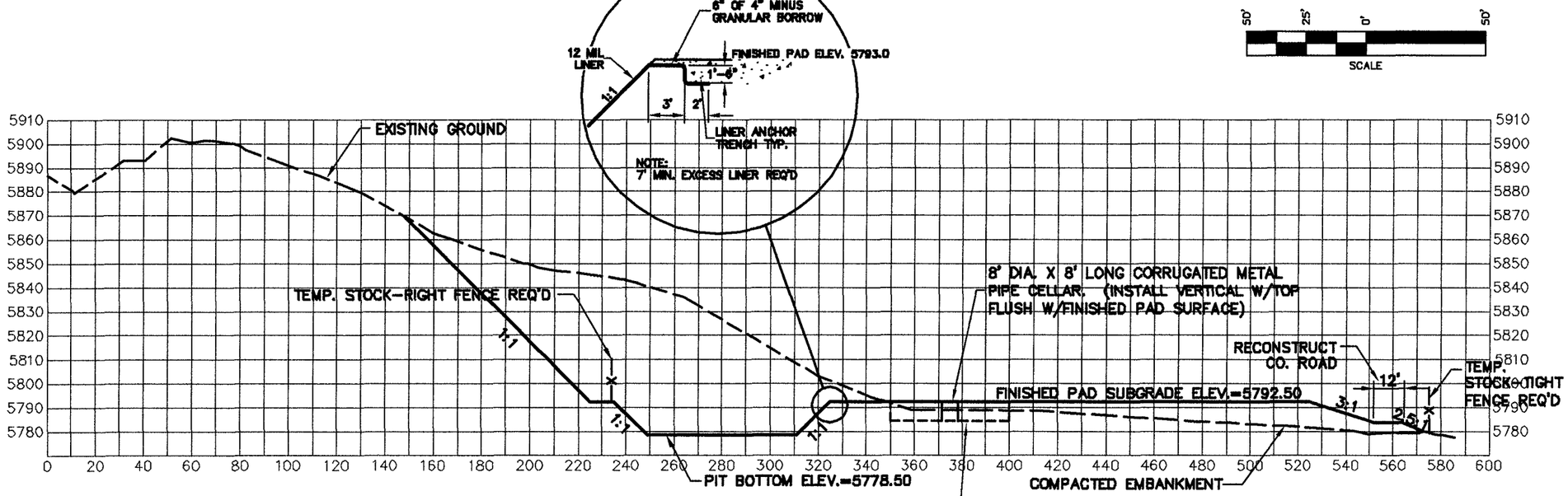
PROJECT NUMBER: 0604-099

SEVIER COUNTY

SHEET NO. SP-02

WOLVERINE GAS AND OIL COMPANY OF UTAH, LLC.

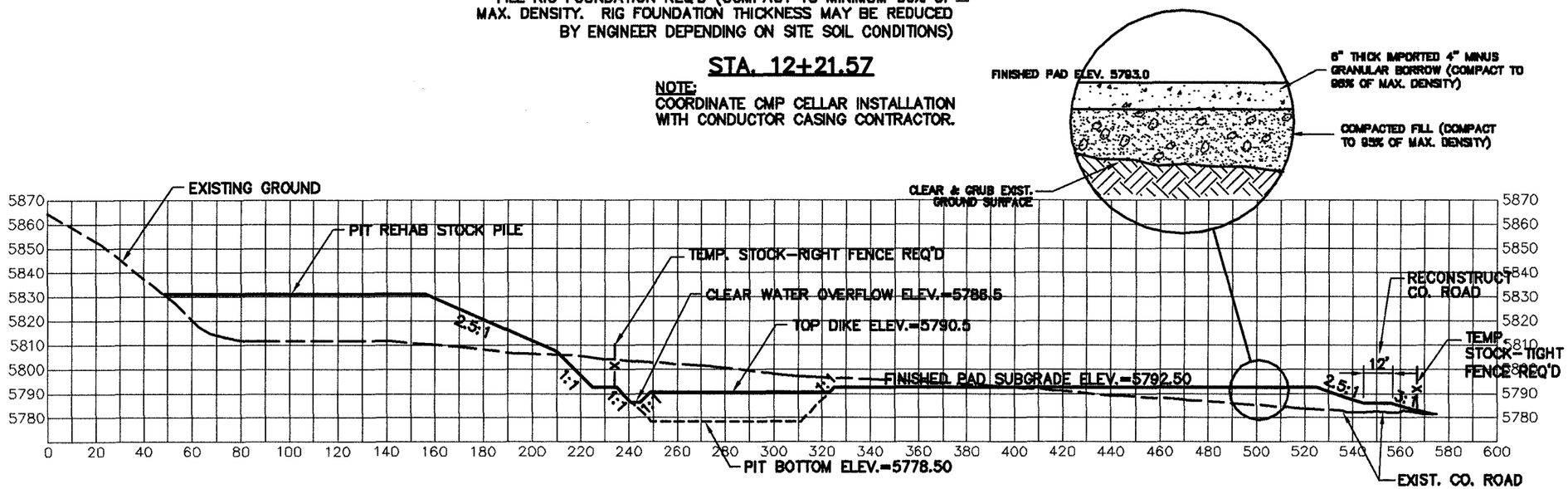
TYPICAL CROSS SECTIONS FOR
WOLVERINE FEDERAL #17-9
SECTION 17, T.23 S., R.1 W., S.L.B.& M.



50'X86'X8' THICK (MAX.), IMPORTED 10" MINUS G.B. COMPACTED FILL RIG FOUNDATION REQ'D (COMPACT TO MINIMUM 96% OF MAX. DENSITY. RIG FOUNDATION THICKNESS MAY BE REDUCED BY ENGINEER DEPENDING ON SITE SOIL CONDITIONS)

STA. 12+21.57

NOTE:
COORDINATE CMP CELLAR INSTALLATION WITH CONDUCTOR CASING CONTRACTOR.



STA. 11+05

SCALE
50' 25' 0' 50'

REVISIONS

NO.	DATE	REMARKS
1	3-29-07	ORIGINAL SUBMISSION FOR AUTHORIZATION

DWG NAME: A3179
SHT SET: WOLVERINE
DWG CREATED: 8/16/2006
REVISED: 5/30/2007
LAST UPDATE

SCALE: 1"=50'

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

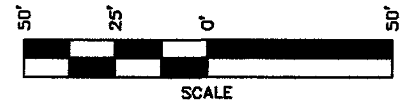
	REVIEW	DATE
DRAWN	L.G.	08-06
CHECKED		
APPROVED		

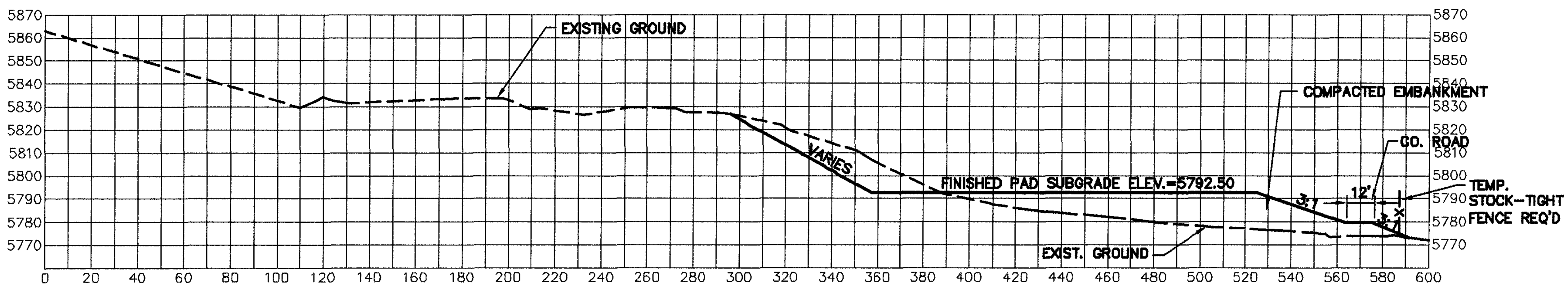
Wolverine Gas & Oil Co. of Utah LLC
FEDERAL 17-9
CROSS SECTIONS
PROJECT NUMBER: 0604-099

SEVIER COUNTY
SHEET NO. CS-01

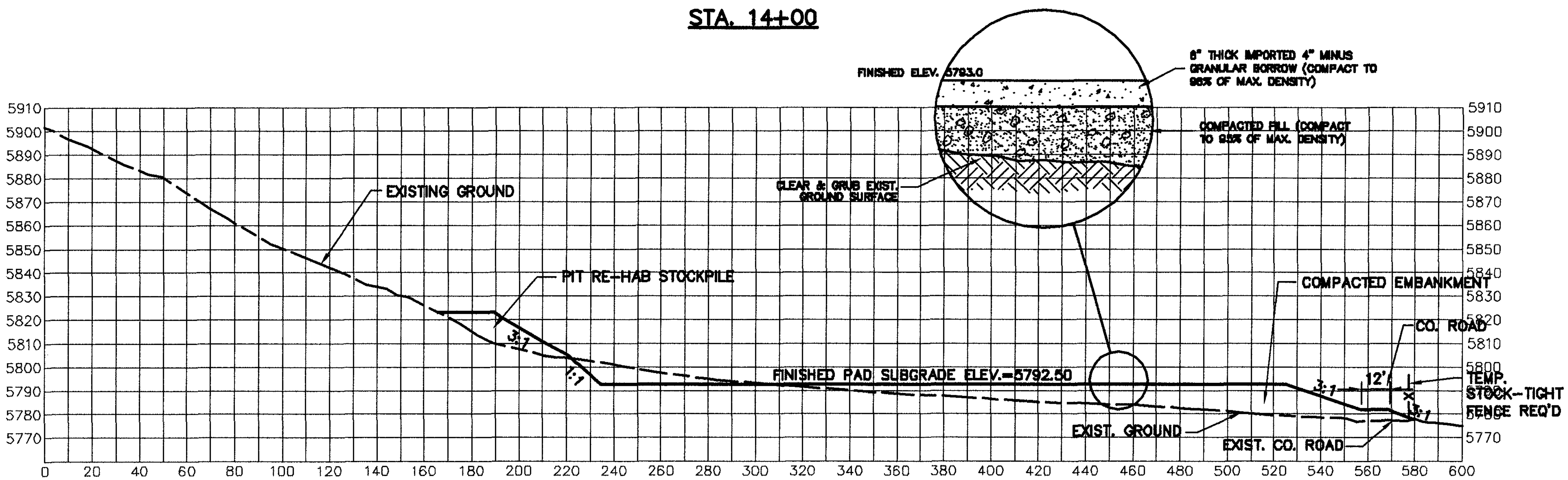
WOLVERINE GAS AND OIL COMPANY OF UTAH, LLC.

TYPICAL CROSS SECTIONS FOR
WOLVERINE FEDERAL #17-9
SECTION 17, T.23 S., R.1 W., S.L.B.& M.





STA. 14+00



STA. 13+00

REVISIONS	ORIGINAL SUBMISSION FOR AUTHORIZATION
SCALE	1"=50'
DWG CREATED	8/16/2006
LAST UPDATE	5/30/2007
DRAWN	L.G. 08-06

Jones & DeMille Engineering

Wolverine Gas & Oil Co. of Utah LLC

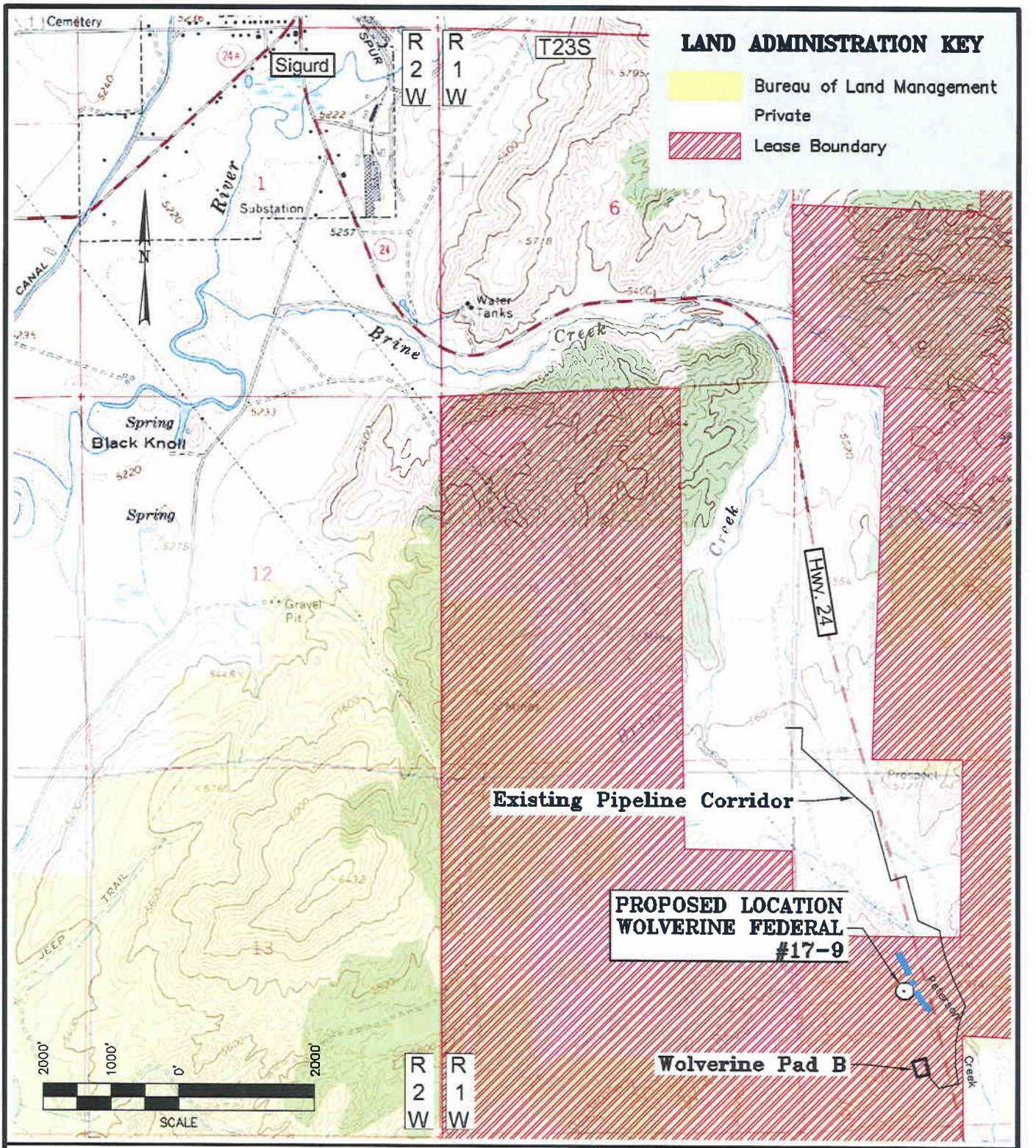
FEDERAL 17-9

CROSS SECTIONS

PROJECT NUMBER 0604-099

SEVIER COUNTY

SHEET NO. CS-02



LEGEND

⊙ PROPOSED LOCATION

EXISTING ROAD NEEDING UPGRADE

Wolverine Federal #17-9
Section 17, T.23 S., R.1 W., S.L.B. & M.
1609' FWL 2006' FSL

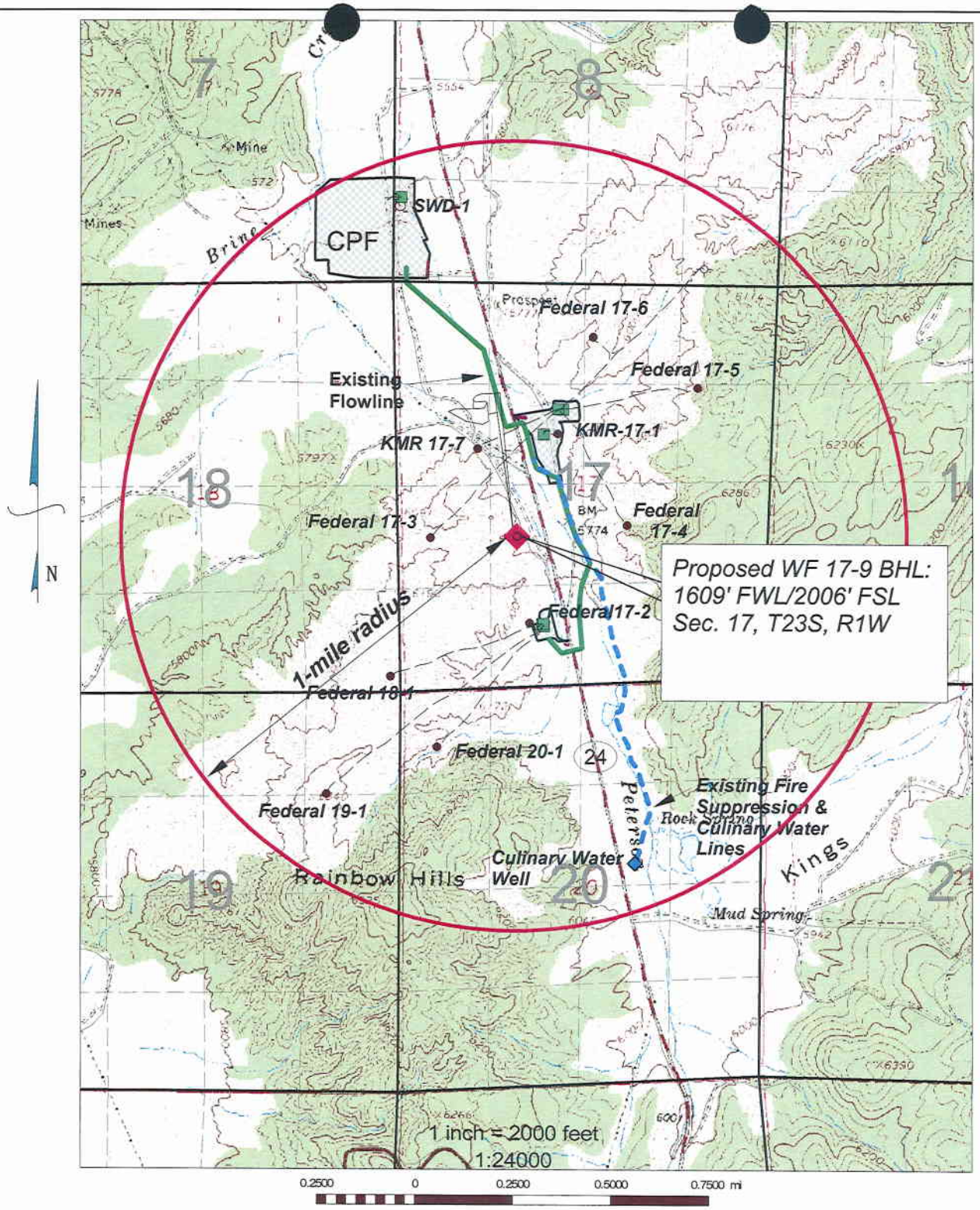
Jones & DeMille Engineering
1535 South 100 West – Richfield, Utah 84701
(435) 896-8266 Phone
(435) 896-8268 Fax
www.jonesanddemille.com

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

Wolverine Federal #17-9

Vicinity Map

SCALE: 1"=2000'	ENG.: D.H.R.	PROJ.#: 0604-099
DATE: 05/29/2007	DWG.BY: LG/BL	DWG.NAME: location



Deviated well-Surface location

Oil well

Dry hole

SWD

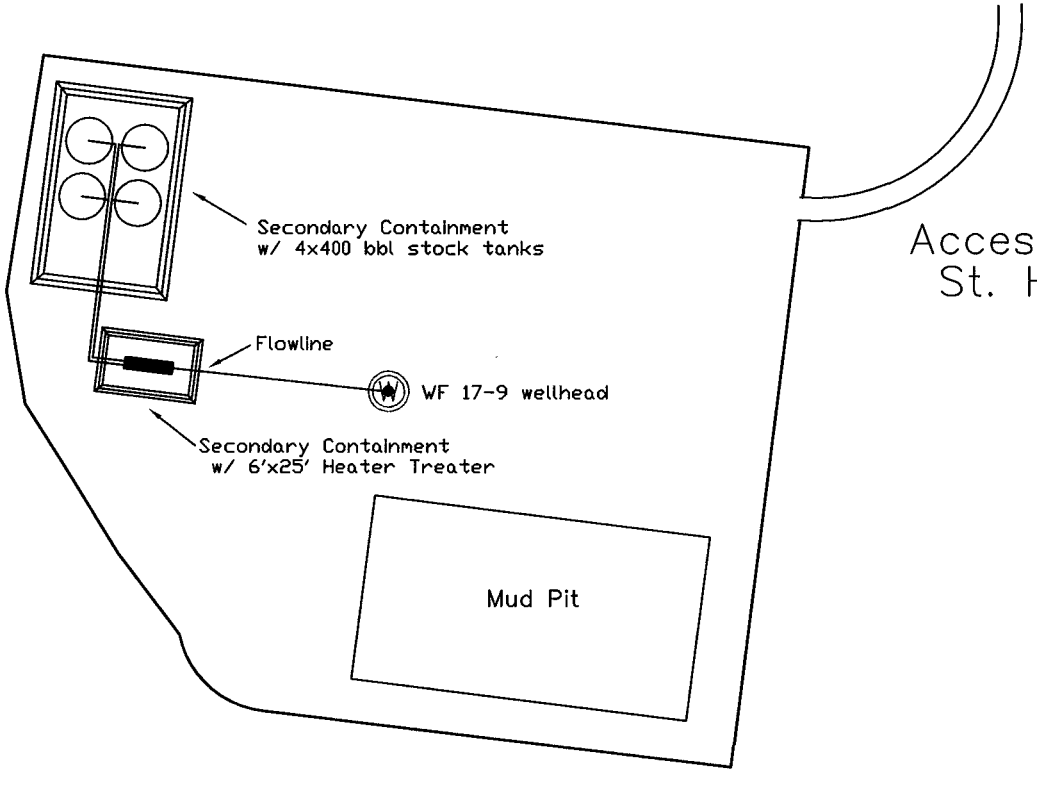
Deviated w ell - Wellbore path

Wolverine Gas & Oil Company of Utah, LLC
(Operator)
Energy Exploration in Partnership with the Environment
ONE RIVERFRONT PLAZA
55 CAMPAU, N.W.
GRAND RAPIDS, MI 49503-2616
(616) 458-1150

Covenant Field
Proposed Wolverine Federal 17-9 Well Location
Section 17, T23S, R1W
Sevier Co., UT

Date: 18 July, 2007 | gmp: mi covenant base

Temporary Test Facility Layout
Well Site Diagram
Wolverine Federal 17–9



North

Scale: 1" = 100'

0 50 100 ft.

07/18/2007

WORKSHEET
APPLICATION FOR PERMIT TO DRILL

APD RECEIVED: 07/20/2007

API NO. ASSIGNED: 43-041-30049

WELL NAME: WOLVERINE FED 17-9

OPERATOR: WOLVERINE GAS & OIL CO (N1655)

PHONE NUMBER: 616-458-1150

CONTACT: EDWARD HIGUERA

PROPOSED LOCATION:

NESW 17 230S 010W

SWSW SURFACE: 2006 FSL 1609 FWL

BOTTOM: 0764 FSL 0666 FWL

COUNTY: SEVIER

LATITUDE: 38.80067 LONGITUDE: -111.9352

UTM SURF EASTINGS: 418791 NORTHINGS: 4294865

FIELD NAME: COVENANT (492)

INSPECT LOCATN BY: / /

Tech Review	Initials	Date
Engineering		
Geology		
Surface		

LEASE TYPE: 1 - Federal

LEASE NUMBER: UTU-73528

PROPOSED FORMATION: NAVA

SURFACE OWNER: 1 - Federal

COALBED METHANE WELL? NO

RECEIVED AND/OR REVIEWED:

✓ Plat

✓ Bond: Fed[1] Ind[] Sta[] Fee[]
(No. WY3329)

N Potash (Y/N)

N Oil Shale 190-5 (B) or 190-3 or 190-13

✓ Water Permit
(No. 63-2529)

N RDCC Review (Y/N)
(Date:)

NA Fee Surf Agreement (Y/N)

NA Intent to Commingle (Y/N)

LOCATION AND SITING:

___ R649-2-3.

Unit: WOLVERINE

___ R649-3-2. General

Siting: 460 From Qtr/Qtr & 920' Between Wells

___ R649-3-3. Exception

___ Drilling Unit

Board Cause No:

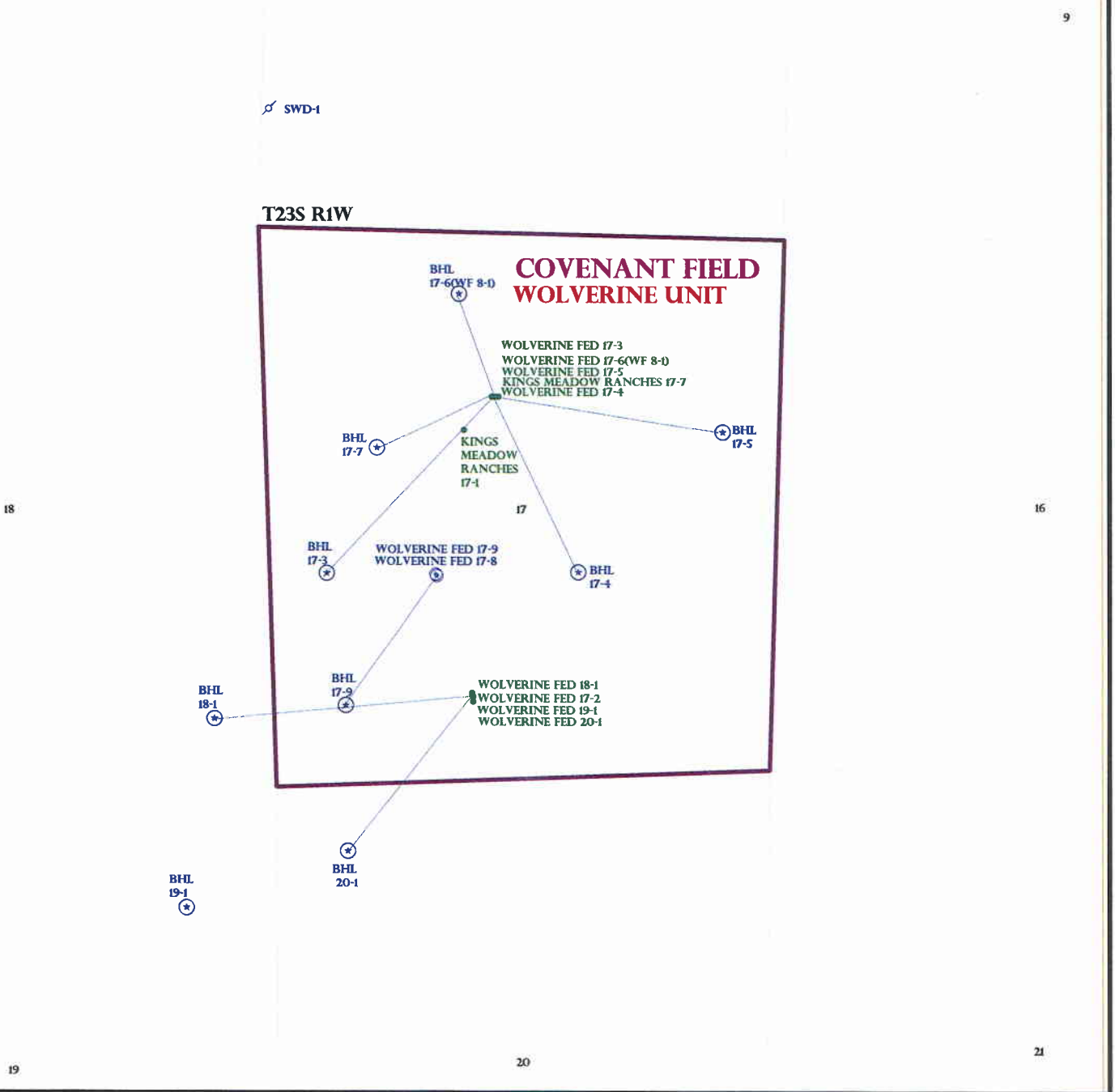
Eff Date:

Siting:

✓ R649-3-11. Directional Drill

COMMENTS:

STIPULATIONS: 1- Federal Approval
2- Spacing Stip



OPERATOR: WOLVERINE G&O LLC (N1655)

SEC: 17 T.23S R. 1W

FIELD: COVENANT (492)

COUNTY: SEVIER

SPACING: R649-3-11 / DIRECTIONAL DRILLING

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

Utah Oil Gas and Mining

N
W E
S

PREPARED BY: DIANA MASON
DATE: 23-JULY-2007

United States Department of the Interior

BUREAU OF LAND MANAGEMENT
Utah State Office
P.O. Box 45155
Salt Lake City, Utah 84145-0155

IN REPLY REFER TO:
3160
(UT-922)

July 24, 2007

Memorandum

To: Field Office Manger, Richfield Field Office

From: Michael Coulthard, Petroleum Engineer

Subject: 2007 Plan of Development Wolverine Unit Sanpete and Sevier County, Utah.

Pursuant to email between Diana Whitney, Division of Oil, Gas and Mining, and Mickey Coulthard, Utah State Office, Bureau of Land Management, the following well is planned for calendar year 2007 within the Wolverine Unit, Sevier County, Utah.

API #	WELL NAME	LOCATION

(Proposed PZ Navajo)

43-041-30049 Wolverine Fed 17-9 Sec 17 T23S R01W 2006 FSL 1609 FWL
BHL Sec 17 T23S R01W 0764 FSL 0666 FWL

This office has no objection to permitting the well at this time.

/s/ Michael L. Coulthard

bcc: File – Wolverine Unit
Division of Oil Gas and Mining
Central Files
Agr. Sec. Chron
Fluid Chron

MCoulthard:mc:7-24-07

JON M. HUNTSMAN, JR.
Governor

GARY R. HERBERT
Lieutenant Governor

State of Utah
DEPARTMENT OF NATURAL RESOURCES

MICHAEL R. STYLER
Executive Director

Division of Oil Gas and Mining

JOHN R. BAZA
Division Director

July 25, 2007

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

Re: Wolverine Federal 17-9 Well, Surface Location 2006' FSL, 1609' FWL, NE SW, Sec. 17, T. 23 South, R. 1 West, Bottom Location 764' FSL, 666' FWL, SW 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.

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 43-041-30049.

Sincerely,

Gil Hunt
Associate Director

pab
Enclosures

cc: Sevier County Assessor
Bureau of Land Management, Utah State Office

1594 West North Temple, Suite 1210, PO Box 145801, Salt Lake City, UT 84114-5801
telephone (801) 538-5340 • facsimile (801) 359-3940 • TTY (801) 538-7458 • *www.ogm.utah.gov*

UTAH DNR OIL, GAS & MINING

Operator: Wolverine Gas and Oil Company of Utah, LLC

Well Name & Number Wolverine Federal 17-9

API Number: 43-041-30049

Lease: UTU-73528

Surface Location:	NE SW	**Sec.** 17	**T.** 23 South	**R.** 1 West
Bottom Location:	SW 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 (801) 733-0983 home

3. **Reporting Requirements**

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

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

5. In accordance with Utah Admin. R.649-3-11, Directional Drilling, the operator shall submit a complete angular deviation and directional survey report to the Division within 30 days following completion of the well.

6. 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.

WOLVERINE GAS AND OIL COMPANY
OF UTAH, LLC
Energy Exploration in Partnership with the Environment

September 26, 2007

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

RE: Wolverine Federal 17-9
API No. 43-041-30049
2006' FSL, 1609' FWL, (SW/4 SW/4),
Section 17, T. 23 South, R. 1 West, SLB&M,
Sevier County, Utah

Dear Mr. Hunt:

Enclosed herewith is a copy of a BLM Sundry notice with attachments requesting approval to drill the subject well deeper than originally permitted. Drilling operations are currently in progress on this Covenant Field development well. The planned location of the well bore at the producing formation has not changed significantly from the originally approved APD. However, because the deviated well will extend to a location at total depth that is more than 200' from the center of the 40-acre drilling unit, an exception to locating and siting requirements of R649-3-2 is hereby requested. The exception to R649-3-2 is requested because of difficult topography in the vicinity of the regulation drilling window. The surface location for the well is on a multiple well drilling pad. Wolverine Operating Company of Utah is the only operator within 460' of the proposed well bore. The plat required to accompany this request per R649-3-3 is attached.

Wolverine Operating Company of Utah, LLC respectfully requests approval this request. Please accept the attached documents for the referenced well and treat them with confidentially as requested for all information pertaining to this well.

Sincerely,

Ellis M. Peterson – Senior Production Engineer
Wolverine Operating Company of Utah, LLC

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Form 3160-5
(April 2004)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM APPROVED
OM 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.

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 Federal Unit

1. Type of Well
☑ Oil Well ☐ Gas Well ☐ Other

8. Well Name and No.
Wolverine Federal 17-9

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

9. API Well No.
43-041-30049

3a. Address
55 Campau NW, Grand Rapids, Michigan 49503-2616

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

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

4. Location of Well *(Footage, Sec., T., R., M., or Survey Description)*
2006' FSL, 1609' FWL (NE/4 SW/4), Section 17, T23S, R1W, SLB&M

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			
☑ Notice of Intent	☐ Acidize	☐ Deepen	☐ Production (Start/Resume)	☐ Water Shut-Off
☐ Subsequent Report	☐ Alter Casing	☐ Fracture Treat	☐ Reclamation	☐ Well Integrity
☐ Final Abandonment Notice	☐ Casing Repair	☐ New Construction	☐ Recomplete	☐ Other
	☑ Change Plans	☐ Plug and Abandon	☐ Temporarily Abandon	
	☐ Convert to Injection	☐ Plug Back	☐ 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 original APD for this well was approved for drilling a directional hole to a total depth of 7000' MD (6735' TVD). Wolverine Gas and Oil Company of Utah, LLC now plans to drill the well to a proposed depth of 8975' MD (8675' TVD). The surface location for the well has not been changed, but the directional plan has been modified so the proposed location at the producing zone (Navajo 1) is 760' FSL, 661 FWL (SW/4 SW/4) and at total depth is 362' FSL, 358 FWL (SW/4 SW/4) of Section 17, T23S, R1W. The drilling plan has been revised to reflect changes with the added depth. Proposed changes to the approved APD are also tabulated on the attached document. An addition ten days will be required to drill to the deeper depth. No modifications to the Surface Use Plan are expected to result from the planned changes to the drilling plan.

Attachments: Changes to Original Drilling Plan, Drilling Plan, Directional Plan

RECEIVED
SEP 28 2007
DIV. OF OIL, GAS & MINING

COPY SENT TO OPERATOR
Date: 10-11-07
Initials: RM

418514X
4294475Y
38.797131
-111.938327

14. I hereby certify that the foregoing is true and correct
Name *(Printed/Typed)*
Ellis Peterson Title **Sr. Production Engineer**

Signature Ellis W Peterson Date 09/26/2007

Approved by the
Utah Division of
Oil, Gas and Mining

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

Date: 10-10-07
By:

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)

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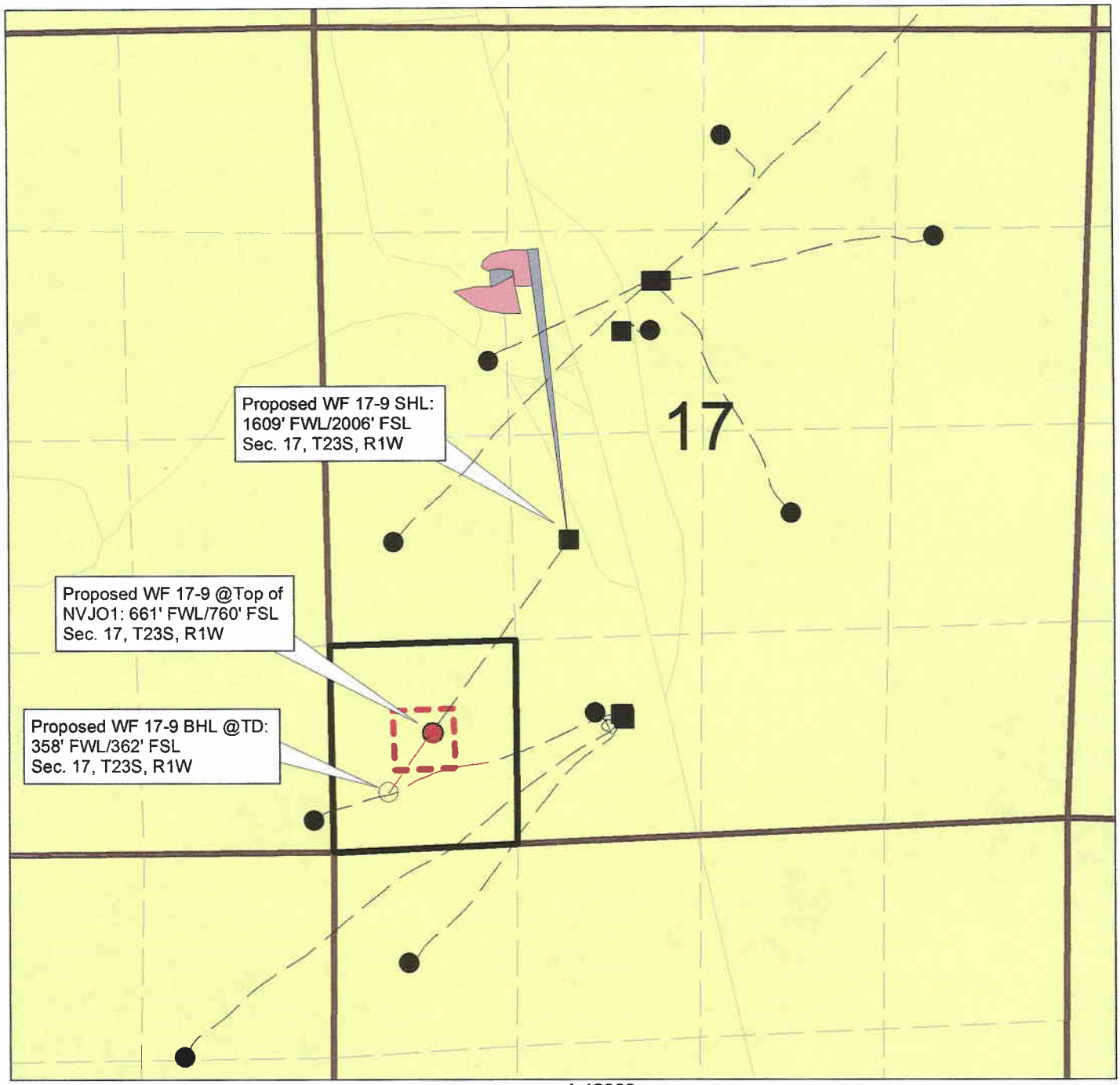
Exception Location and Ownership Plat



1:12000

400 0 400 800 1200 ft

1 inch = 1000 feet

R649-3.2 Window

Wolverine Lease

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WOLVERINE GAS & OIL Company of Utah, LLC
(Operator)
Energy Exploration in Partnership with the Environment
ONE RIVERFRONT PLAZA
55 CAMPAU, N.W.
GRAND RAPIDS, MI 49503-2616
(616) 458-1150

Proposed Wolverine Federal 17-9 Well Location
Section 17, T23S, R1W
Sevier County, Utah

Date: 9/25/2007 | Map gmp: mjl proposed wf 17-9 well location

Attachment to Sundry Notice – Changes to Original Drilling Plan

Wolverine Gas and Oil Company of Utah, LLC

Drilling Plan revisions for the: **Wolverine Federal 17-9**
API No. 43-041-30049
SW/4 SW/4 Sec. 17, T23S, R1W, SLB&M
Sevier County, Utah

	Revised Drilling Plan	Original APD
Location of Well:		
At Surface:	None	2006' FSL, 1609' FWL
At Navajo Top:	760' FSL, 661' FWL	764' FSL, 666' FWL
At TD:	362' FSL, 358' FWL	707' FSL, 622' FWL
Total Depth:	8975' MD, 8675' TVD	7000' MD, 6735' TVD
Elevations:	5793' GL, 5819' KB	5793' GL, 5819' KB

Geology:

Formation	TVD Interval (KB)	MD Interval (KB)
Arapien	26' – 5529'	26' – 5779'
Twin Creek 1	5529' – 5889'	5779' – 6146'
Navajo 1	5889' – 7836'	6146' – 8124'
Twin Creek 2	7836' – 8166'	8124' – 8460'
Navajo 2	8166' - 8675'	8460' – 8975'
Total Depth	8675'	8975'

Formation	TVD Interval (KB)	MD Interval (KB)
Arapien	26' – 5528'	26' – 5776'
Twin Creek 1	5528' – 5888'	5776' – 6149'
Navajo 1	5888' – 6735'	6149' – 7000'
Total Depth	6735'	7000'

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	Revised Drilling Plan	Original APD

Well Control: No changes from original drilling plan.

Casing Program:

Hole Size	Casing Size, Grade, Weight	Depth Interval	Hole Size	Casing Size, Grade, Weight	Depth Interval
30"	20", conductor	0 – 150'	30"	20", conductor	0 – 150'
17.50"	13-3/8", J-55, 68.0#	0 – 2006'	17.50"	13-3/8", J-55, 68.0#	0 – 2020'
12.25"	9-5/8", HCL-80, 47.0#	0 – 5965'	12.25"	9-5/8", HCL-80, 47.0#	0 – 5900'
8.50"	5-1/2", J-55, 17.0#	0 – 8975'	8.50"	5-1/2", J-55, 17.0#	0 – 7000'

Note: See casing design factors in updated drilling program.

Cementing Program:

Casing	Cement Quantity, Type, Yield, and Slurry Weight	Casing	Cement Quantity, Type, Yield, and Slurry Weight
13-3/8"	400 sks, CBM Lite, 4.12 ft^3/sk, 10.5 ppg 450 sks, Premium Plus, 1.19 ft^3/sk, 15.6 ppg	13-3/8"	400 sks, CBM Lite, 4.12 ft^3/sk, 10.5 ppg 450 sks, Premium Plus, 1.19 ft^3/sk, 15.6 ppg
9-5/8"	1300 sks, 50:50 Poz, 1.47 ft^3/sk, 14.3 ppg 200 sks, Premium, 1.19 ft^3/sk, 15.6 ppg	9-5/8"	1100 sks, 50:50 Poz, 1.47 ft^3/sk, 14.3 ppg 200 sks, Premium, 1.19 ft^3/sk, 15.6 ppg
5-1/2"	750 sks, 50:50 Poz , 1.21 ft^3/sk, 14.3 ppg		350 sks, 50:50 Poz , 1.21 ft^3/sk, 14.3 ppg

Mud Program:

Depth	Mud Weight (ppg)	Mud Type
0 – 2006'	8.4 – 9.2	Fresh Water
2006' – 5965'	9.2 – 10.5	Salt Mud
5965' – 8975'	8.5 – 8.7	Polymer

Depth	Mud Weight (ppg)	Mud Type
0 – 2020'	8.4 – 9.2	Fresh Water
2020' – 5900'	9.2 – 10.5	Salt Mud
5900' – 7000'	8.5 – 8.7	Polymer

	Revised Drilling Plan	Original APD
Evaluation:		
Mud Logging:	2000' to TD	2000' to TD
Drill Stem Tests:	One possible in Twin Creek 2	None
Coring:	Up to 120' in Navajo 1	Up to 120' in Navajo 1
Wireline Logs:	8975' (TD) to 2006'	7000' to 2020'
Expected Bottom-Hole Conditions:		
Hydrogen Sulfide:	None expected	None expected
Pressure:	No abnormal pressures (0.44 psi/ft)	No abnormal pressures (0.44 psi/ft)
Temperature:	BHT at TD of 220 °F	BHT at TD of 195 °F
Surface Use Plan:	No changes from original plan.	

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WOLVERINE GAS AND OIL COMPANY OF UTAH, LLC

DRILLING PLAN

Wolverine Federal 17-9
SW/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 development well as a directional bore hole due to surface topography constraints and in accordance with the enclosed directional drilling plan. The well will be drilled to a measured depth of 8,975' (8,675' TVD) to test the upper and lower thrusts of the Twin Creek and Navajo formations. 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 Location:	2006' FSL, 1609' FWL, Section 17, T23S, R1W, S.L.B. & M.
Bottom Hole Location @ Navajo 1 target	760' FSL, 661' FWL, Section 17, T23S, R1W, S.L.B. & M.
Bottom Hole Location @ total depth	362' FSL, 358' FWL, Section 17, T23S, R1W, S.L.B. & M.

Conductor casing will be set at approximately 120 feet and cemented to surface. A 17-1/2" hole will be drilled vertically to approximately 800' and then deviated at 1.75 degrees per 100' to 20 degrees from vertical at 2006' (1979' TVD) where 13-3/8" surface casing will be set and cemented to surface. A 12-1/4" hole will be drilled at 20 degrees from vertical to approximately 5500', then allowed to drop to approximately 10 degrees by 5965' (5711' TVD) where the well will be logged and 9-5/8" intermediate casing will be set and cemented to 1935' (13-3/8" csg shoe). An 8-1/2" hole will then be drilled allowing the vertical deviation to remain at approximately 10 degrees from vertical to total depth of 8975'. (A conventional core is planned in the Navajo 1 interval from approximately 6600' to 6700'). The hole will again be logged at total depth and a 5-1/2" production liner set from total depth of 8975' to top of liner at approximately 5700' (400' overlap in 9-5/8"). The liner will be cemented.

Drilling activities at this well are expected to commence in September, 2007.

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Well Name: **Wolverine Federal 17-9**

Surface Location: 2006' FSL, 1609' FWL
SW/4 SW/4 Section 17, T23S, R1W, S.L.B. & M.
Sevier County, Utah

TD Bottom-Hole Location: 362' FSL, 358' FWL

Elevations (est): 5793' GL, 5819' KB

I. Geology:

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

Formation	TVD Interval (KB)	MD Interval (KB)	Contents	Pressure Gradient
Arapien	26' – 5529'	26' – 5779'		
Twin Creek 1	5529' – 5889'	5779' – 6146'	Oil & water	0.44 psi/ft
Navajo 1	5889' – 7836'	6146' – 8124'	Oil & water	0.44 psi/ft
Twin Creek 2	7836' – 8166'	8124' – 8460'	Oil & water	0.44 psi/ft
Navajo 2	8166' - 8675'	8460' – 8975'	Oil & water	0.44 psi/ft
Total Depth	8675'	8975'		

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.):

BOPE Item	Flange Size and Rating
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 (Pipe)	13-5/8" 10M
Casing Spool (Multi-Bowl)	13-5/8" 10M x 13-5/8" 5M
Casing Head (13-3/8" SOW w/ two 2-1/16" SSO's)	13-5/8" 5M

Auxiliary Equipment (5M Min.):

BOPE Item
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 choke lines will be straight lines unless turns have tee blocks or are targeted with running tees, 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"	20"		Conductor			120' GL
17.50"	13.375"	68.0	J-55	BTC	14.375"	2006' KB
12.25"	9.625"	47.0	HCL-80	LTC	10.625"	5965' KB
8.50"	5.500"	17.0	J55	LTC	6.050"	8975' KB

	Surface	Intermediate	Prod Liner
Casing O. D. (in)	13.375	9.625	5.500
Casing Grade	J-55	HCL-80	J55
Weight of Pipe (lbs/ft)	68.0	47.0	17.0
Connection	BTC	LTC	LTC
Top Setting Depth - MD (ft)	0	0	5700
Top Setting Depth - TVD (ft)	0	0	5450
Bottom Setting Depth - MD (ft)	2006	5965	8975
Bottom Setting Depth - TVD (ft)	1979	5711	8675
Maximum Mud Weight - Inside (ppg)	9.6	10.6	9.0
Maximum Mud Weight - Outside (ppg)	9.6	10.6	9.0
Design Cement Top - MD (ft)	0	1900	5700
Design Cement Top - TVD (ft)	0	1900	5450
Max. Hydrostatic Inside w/ Dry Outside (psi)	988	3148	4060
Casing Burst Rating (psi)	3450	6870	5320
Burst Safety Factor (1.10 Minimum)	**3.49**	**2.18**	**1.31**
Max. Hydrostatic Outside w/ Dry Inside (psi)	988	3148	4060
Collapse Rating	1950	7100	4910
Collapse Safety Factor (1.125 Minimum)	**1.97**	**2.25**	**1.21**
Casing Weight in Air (kips)	136.4	280.4	55.7
Body Yield (kips)	1069	1086	273
Joint Strength (kips)	1140	1015	247
Tension Safety Factor (1.80 Minimum)	**7.83**	**3.62**	**4.44**

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

Casing Size	Cement Slurry	Quantity (sks)	Density (ppg)	Yield (ft^3/sk)
13.375"	Lead: CBM Lite	400	10.5	4.12
	Tail: Premium Plus	400	15.6	1.19
9.625"	Lead: 50:50 POZ	1300	14.3	1.47
	Tail: Prem	200	15.6	1.19
5.500"	Tail: 50:50 POZ	750	14.35	1.21

Surface: 13-3/8" surface casing will be cemented from setting depth (2006' MD) 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.

Intermediate: 9-5/8" intermediate casing will be cemented in one stage from setting depth (5965' MD) to 1900' (back into the surface casing shoe). Hardware will include a guide shoe, float collar, top plug, and a minimum of one centralizer per joint on the bottom three (3) joints of casing. Water and preflush fluid pumped ahead of the slurry will separate cement from the drilling fluids.

Production: 5-1/2" production casing liner will be cemented in two stages from setting depth (8975') to 5700' (at least 200' into the 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 20% 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:

Depth	Mud Weight (ppg)	Mud Type	Viscosity	Fluid Loss
0 – 2006'	8.4 – 9.2	Fresh Water	26 – 50	N/C to 12 cc
2006' – 5965'	9.2 – 10.5	Salt Mud	36 – 50	N/C to 12 cc
5965' – 8975'	8.5 – 8.7	Polymer	36 – 45	6 - 8 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, filtration, 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 2000 feet to TD. Samples will be caught, cleaned, bagged, and marked as required.

B. Drill Stem Tests: A DST may be conducted to test the Twin Creek 2 if there is evidence that hydrocarbons are present.

C. Coring: It is planned to cut 120 feet of whole core in the Navajo Formation. 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_2S) 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: Bottom-hole temperature at TD is expected to be approximately 220 °F.

end

WOLVERINE GAS & OIL COMPANY

Location: UTAH | Slot: Slot #2 Wolverine Federal 17-9 (2006'FSL & 1609'FWL)
Field: SEVIER COUNTY | Well: Wolverine Federal 17-9
Facility: SEC.17-T23S-R1W | Wellbore: Wolverine Federal 17-9 PWB

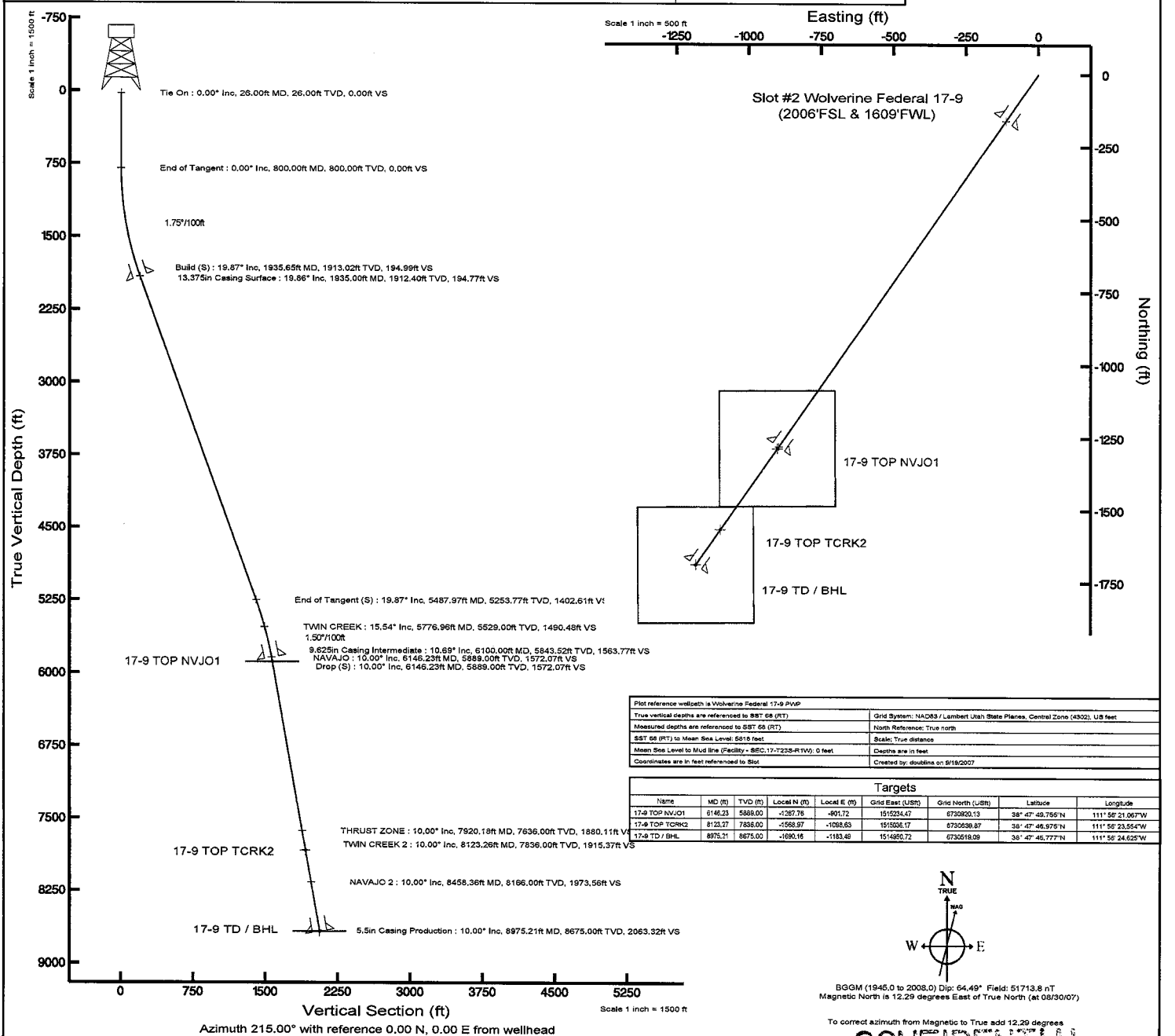
BAKER HUGHES INTEQ

Well Profile Data

Design Comment	MD (ft)	Inc (°)	Az (°)	TVD (ft)	Local N (ft)	Local E (ft)	DLS (°/100ft)	VS (ft)
Tie On	26.00	0.000	215.001	26.00	0.00	0.00	0.00	0.00
End of Tangent	800.00	0.000	215.001	800.00	0.00	0.00	0.00	0.00
Build (S)	1935.65	19.874	215.001	1913.02	-159.73	-111.84	1.75	194.99
End of Tangent (S)	5487.97	19.874	215.001	5253.77	-1148.94	-804.52	0.00	1402.61
NAVAJO	6146.23	10.000	215.001	5889.00	-1287.76	-901.72	1.50	1572.07
TWIN CREEK 2	8123.27	10.000	215.001	7836.00	-1568.97	-1098.63	0.00	1915.37
TD / BHL	8975.21	10.001	215.000	8675.00	-1690.16	-1183.49	0.00	2063.32

Location Information

Facility Name			Grid East (USft)	Grid North (USft)	Latitude	Longitude
SEC.17-T23S-R1W			1516134.368	6732217.324	38° 48' 02.619"N	111° 56' 09.781"W
Slot	**Local N (ft)**	**Local E (ft)**	**Grid East (USft)**	**Grid North (USft)**	**Latitude**	**Longitude**
Slot #2 Wolverine Federal 17-9 (2006'FSL & 1609'FWL)	-13.73	8.20	1516142.503	6732203.554	38° 48' 02.483"N	111° 56' 09.677"W
SST 68 (RT) to Mud line (Facility - SEC.17-T23S-R1W)					5818ft	
Mean Sea Level to Mud line (Facility - SEC.17-T23S-R1W)					0ft	
SST 68 (RT) to Mean Sea Level					5818ft	



Plot reference wellpath is Wolverine Federal 17-9 PWP	
True vertical depths are referenced to SST 68 (RT)	Grid System: NAD83 / Lambert Utah State Planes, Central Zone (4302), US feet
Measured depths are referenced to SST 68 (RT)	North Reference: True north
SST 68 (RT) to Mean Sea Level: 5818 feet	Scale: True distance
Mean Sea Level to Mud line (Facility - SEC.17-T23S-R1W): 0 feet	Depths are in feet
Coordinates are in feet referenced to Slot	Created by: doublins on 9/19/2007

Targets

Name	MD (ft)	TVD (ft)	Local N (ft)	Local E (ft)	Grid East (USft)	Grid North (USft)	Latitude	Longitude
17-9 TOP NVJO1	6146.23	5889.00	-1287.76	-901.72	1515234.47	6730920.13	38° 47' 49.755"N	111° 56' 21.067"W
17-9 TOP TCRK2	8123.27	7836.00	-1568.97	-1098.63	1515036.17	6730639.87	38° 47' 46.976"N	111° 56' 23.554"W
17-9 TD / BHL	8975.21	8675.00	-1690.16	-1183.49	1514950.72	6730518.09	38° 47' 45.777"N	111° 56' 24.625"W

N TRUE
MAG
W E

BGGM (1945.0 to 2008.0) Dip: 64.49° Field: 51713.8 nT
Magnetic North is 12.29 degrees East of True North (at 08/30/07)

To correct azimuth from Magnetic to True add 12.29 degrees

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EXACT Engineering, Inc.
415 S. Boston Ave., Suite 734
Tulsa, Oklahoma 74103

EXACT Engineering, Inc.
www.exactengineering.com

Steven R. Hash, P.E.

office 918.599.9400 *cellular 918.629.9801*
office fax 918.599.9401 *stevehash@exactengineering.com*

Fax

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To:	Ms. Earlene Russell – UDOGM	**From:**	Steve Hash
Fax:	801-359-3940	**Pages:**	2 total
Phone:	801-538-7200	**Date:**	Sept 30, 2007
Re:	Wolverine Federal 17-9 - Form 6	**CC:**	

Dear Ms. Russell,

On behalf of Wolverine Gas and Oil Company of Utah, LLC, please find attached a State of Utah (form 6) Entity Action Form for the subject new well – API# 43-041-30049. The conductor casing was set on June 16, 2007 at the same time as the WF 17-8 (first well drilled) since this is a "pad" well. Actual drilling of this well did not commence until September 17, 2007. Thank you

Steve Hash

Steve

~~CHD~~
KAS
PIC

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
4304130049	Wolverine Federal 17-9		NESW	17	23S	1W	Sevier
Action Code	**Current Entity Number**	**New Entity Number**	**Spud Date**			**Entity Assignment Effective Date**	
A	99999	13995	6/16/2007			10/17/07	
Comments: Directional well - BHL SWSW 17 23S 1W NAVA						CONFIDENTIAL	

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
Title
9/30/2007
Date

(5/2000)

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

FORM 9

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.

5. LEASE DESIGNATION AND SERIAL NUMBER: UTU-73528

6. IF INDIAN, ALLOTTEE OR TRIBE NAME: NA

7. UNIT or CA AGREEMENT NAME: Wolverine Federal Unit

1. TYPE OF WELL: OIL WELL ☑ GAS WELL ☐ OTHER

8. WELL NAME and NUMBER: Wolverine Federal 17-9

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

9. API NUMBER: 4304130049

3. ADDRESS OF OPERATOR: 55 Campau NW CITY Grand Rapids STATE MI ZIP 49503-2616

PHONE NUMBER: (616) 458-1150

10. FIELD AND POOL, OR WILDCAT: Covenant Field, Navajo

4. LOCATION OF WELL

FOOTAGES AT SURFACE: 2006' FSL and 1609' FWL

COUNTY: Sevier

QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: NESW 17 23S 01W S

STATE: UTAH

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

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

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

There has been no activity on this well since a production liner was run and cemented and the drilling rig was released on October 27, 2007. Completion activities are scheduled to begin on this well within the next week.

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

SIGNATURE [signature] DATE 11/29/2007

(This space for State use only)

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(5/2000) (See Instructions on Reverse Side)

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

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DIV. OF OIL, GAS & MINING

One Riverfront Plaza • 55 Campau, N.W. • Grand Rapids, MI 49503-2616 • 616.458.1150 • FAX 616.458.0869

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FORM 9

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

5. LEASE DESIGNATION AND SERIAL NUMBER: UTU-73528

SUNDRY NOTICES AND REPORTS ON WELLS

6. IF INDIAN, ALLOTTEE OR TRIBE NAME: NA

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.

7. UNIT or CA AGREEMENT NAME: Wolverine Federal Unit

1. TYPE OF WELL: OIL WELL ☑ GAS WELL ☐ OTHER _____

8. WELL NAME and NUMBER: Wolverine Federal 17-9

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

9. API NUMBER: 4304130049

3. ADDRESS OF OPERATOR: 55 Campau NW CITY Grand Rapids STATE MI ZIP 49503-2616

PHONE NUMBER: (616) 458-1150

10. FIELD AND POOL, OR WILDCAT: Covenant Field, Navajo

4. LOCATION OF WELL

FOOTAGES AT SURFACE: 2006' FSL and 1609' FWL

COUNTY: Sevier

QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: NESW 17 23S 01W S

STATE: UTAH

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

TYPE OF SUBMISSION	TYPE OF ACTION		
☐ NOTICE OF INTENT (Submit in Duplicate)	☐ ACIDIZE	☐ DEEPEN	☐ REPERFORATE CURRENT FORMATION
Approximate date work will start: _____	☐ ALTER CASING	☐ FRACTURE TREAT	☐ SIDETRACK TO REPAIR WELL
	☐ CASING REPAIR	☐ NEW CONSTRUCTION	☐ TEMPORARILY ABANDON
	☐ CHANGE TO PREVIOUS PLANS	☐ OPERATOR CHANGE	☐ TUBING REPAIR
	☐ CHANGE TUBING	☐ PLUG AND ABANDON	☐ VENT OR FLARE
☑ SUBSEQUENT REPORT (Submit Original Form Only)	☐ CHANGE WELL NAME	☐ PLUG BACK	☐ WATER DISPOSAL
Date of work completion: _____	☐ CHANGE WELL STATUS	☐ PRODUCTION (START/RESUME)	☐ WATER SHUT-OFF
	☐ COMMINGLE PRODUCING FORMATIONS	☐ RECLAMATION OF WELL SITE	☑ OTHER: Activity Update
	☐ CONVERT WELL TYPE	☐ 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 currently being constructed for both wells. Completion activities are in progress on the Wolverine Federal 17-8 well where an interval at 8761'-8767' has been perforated and is currently being swab tested. It is planned to squeeze cement to plug back this interval and complete for production from the Navajo at 6498'- 6642'.

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

SIGNATURE Ellis M. Peterson DATE 12/27/2007

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(5/2000) (See Instructions on Reverse Side)

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

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Form 3160-4
(April 2004)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

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

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

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

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

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

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

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

8. Lease Name and Well No. **Wolverine Federal 17-9**

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

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

9. AFI Well No. **4304130049**

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

At surface **2006' FSL, 1609' FWL, Sec. 17, T23S, R1W**

At top prod. interval reported below **689' FSL, 750' FWL, Sec. 17, T23S, R1W**

At total depth **660' FSL, 720' FWL, Sec. 17, T23S, R1W**

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 **10/19/2007**

16. Date Completed **01/25/2007** ☐ D & A ☑ Ready to Prod.

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

18. Total Depth: MD **9025'** TVD **8735'**

19. Plug Back T.D.: MD ~~6890'~~ 6900 TVD ~~6601'~~ 6611

20. Depth Bridge Plug Set: MD **6900'** TVD **6611'**

21. Type Electric & Other Mechanical Logs Run (Submit copy of each)
~~HRI/GR/SDL/DSN/GR/XRM/BCS/ISCE/GR/CCL~~ MUD LOG

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

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

Hole Size	Size/Grade	Wt. (#/ft.)	Top (MD)	Bottom (MD)	Stage Cementer Depth	No. of Sks. & Type of Cement	Slurry Vol. (BBL)	Cement Top*	Amount Pulled
30.0"	**20"**	**0.25 wall**	**Surface**	**138**		**redi-mix**	**67**	**Surface**	
17.5"	**13.375 J**	**68.0**	**Surface**	**2006**		**360 CBM**	**281**	**Surf. (CIRC)**	
"	"	"				**470 Type V**	**99**		
12.25"	**9.625 P**	**47.0**	**Surface**	**6089**		**900 50:50 Poz**	**266**	**1500 (CAL)**	
"	"	"				**200 Class G**	**46**		
8.5"	**5.500 L**	**20.0**	**5708**	**9023**		**665 Foamed**	**169**	**5708 (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 7/8	**6460**	**6428**						

25. Producing Intervals / 26. Perforation Record

Formation	Top	Bottom	Perforated Interval	Size	No. Holes	Perf. Status
A) **Navajo**	**8761**	**8767**	**8761 - 8767**	**0.40"**	**36**	**Plugged**
B) **Navajo**	**6243**	**6703**	**6498 - 6642**	**0.40"**	**450**	**Open - Producing**
C)						
D)						

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

Depth Interval	Amount and Type of Material
8761 - 8767	**Perforations were squeeze cemented with 2.5 Bbls of Class "G" cement using a cement retainer.**

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
	12/30/2007	**7**	→	**0**	**0**	**156**			**Swabbing**

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

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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
01/18/2008	**01/25/2008**	**24**	→	**650**	**Tr**	**193**			**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
	0		→	**650**	**Tr**	**193**	**nil**	**Producing Oil Well**

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

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28b. Production - Interval C

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

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

28c. Production - Interval D

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

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

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

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	**8469**	**TD**	**Water**	**Arapien**	**Surface**
Wingate 1	**7554**	**7866**	**Water**	**Twin Creek 1**	**5924**
Kayenta 1	**7391**	**7554**	**Water**	**Navajo 1**	**6243**
Navajo 1	**6243**	**7391**	**Water and Oil**	**Chinle 1**	**7866**
				Twin Creek 2	**8314**
				Navajo 2	**8469**

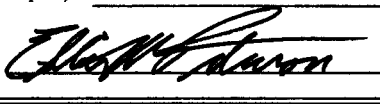
32. Additional remarks (include plugging procedure):

33. Indicate which itmes 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 **01/29/2008**

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

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

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

One Riverfront Plaza • 55 Campau, N.W. • Grand Rapids, MI 49503-2616 • 616.458.1150 • FAX 616.458.0869

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.

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 Federal Unit

1. Type of Well
☑ Oil Well ☐ ☐ Gas Well ☐☐ ☐ Other

8. Well Name and No.
Wolverine Federal 17-9

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

9. API Well No.
4304130049

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

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

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

4. Location of Well *(Footage, Sec., T., R., M., or Survey Description)*
2006' FSL, 1609' FWL, Sec. 17, T23S, R1W, SLB&M

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			
☐ Notice of Intent	☐ Acidize	☐ Deepen	☐ Production (Start/Resume)	☐ Water Shut-Off
☑ Subsequent Report	☐ Alter Casing	☐ Fracture Treat	☐ Reclamation	☐ Well Integrity
☐ Final Abandonment Notice	☐ Casing Repair	☐ New Construction	☐ Recomplete	☐ Other
	☐ Change Plans	☐ Plug and Abandon	☐ Temporarily Abandon	
	☐ Convert to Injection	☑ Plug Back	☐ 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 Navajo 2 was perforated at 8761' - 8767' with 6 SPF and swab tested to verify that the reservoir produces only water. The perforations were abandoned by setting a CICR at 8720' and cementing with 2.5 Bbls of Class "G" cement. Approximately 1.3 Bbls of cement were squeezed below the CICR to a pressure of 1950 psi and 1.2 Bbls of cement were dumped on top of the CICR. The top of the cement plug was tagged at 8628' with wireline. Packer fluid containing biocide, corrosion inhibitor, and oxygen scavenger was spotted in the casing to fill from 8628' to 6900'. A CIBP was then set at 6900' and 1 sack of cement was dump bailed on top of the CIBP in preparation for completion in the Navajo 1 Formation.

RECEIVED
FEB 08 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 **01/29/2008**

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)

COPY
CONFIDENTIAL

CONFIDENTIAL

Scientific Drilling
Rocky Mountain Operations

KEEPER GYRO SURVEY REPORT

Prepared For:

Wolverine Oil & Gas
Wolverine Federal 17-9
Servier County, UT

Prepared By:

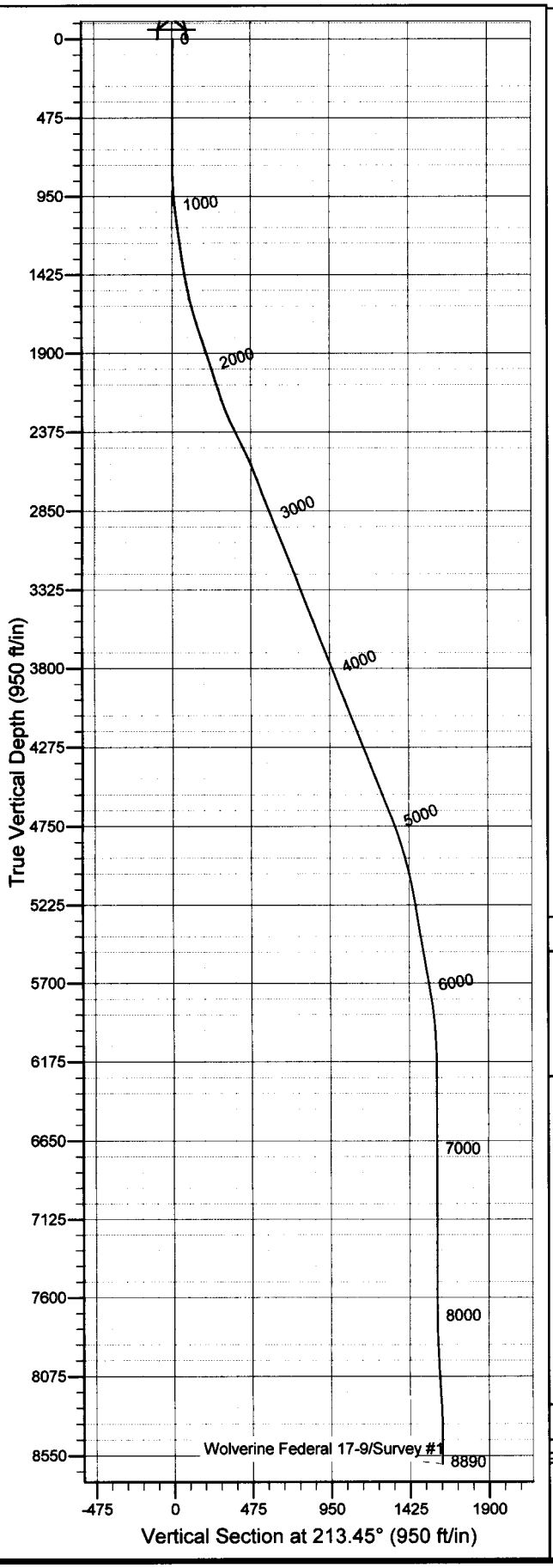
Julie Cruse, Rockies Region Engineer
Scientific Drilling
Rocky Mountain Region

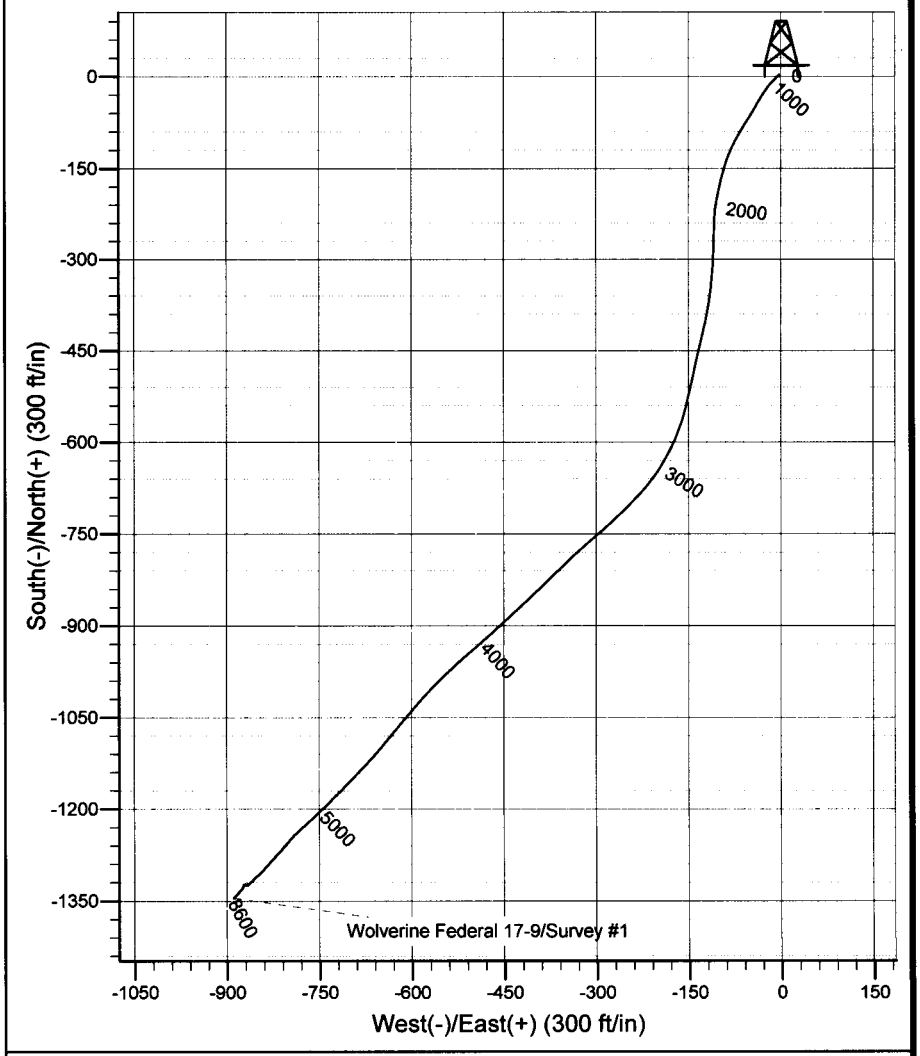
Scientific Drilling International
7237 W. Barton Rd., Casper, WY 82604
P.O. Box 1600, Mills, WY 82644
(307) 472-6621
julie.cruse@scientificdrilling.com

Scientific Drilling
Rocky Mountain Operations

Project: Servier County, UT
Site: Wolverine Federal
Well: Wolverine Federal 17-9
Wellbore: OH
Design: OH

Wolverine Gas & Oil Co. of Utah LLC





WELL DETAILS: Wolverine Federal 17-9

Ground Level: GL 5793' & RKB 26' @ 5819.00ft (Lobo 1)

+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
0.00	0.00	170525.32	1875724.57	38° 48' 2.400 N	111° 56' 9.700 W

REFERENCE INFORMATION

Co-ordinate (N/E) Reference: Well Wolverine Federal 17-9, True North
Vertical (TVD) Reference: GL 5793' & RKB 26' @ 5819.00ft (Lobo 1)
Section (VS) Reference: Slot - (0.00N, 0.00E)
Measured Depth Reference: GL 5793' & RKB 26' @ 5819.00ft (Lobo 1)
Calculation Method: Minimum Curvature
Local North: True
Location: Sec 17 T23S R1W

PROJECT DETAILS: Servier County, UT

Geodetic System: US State Plane 1927 (Exact solution)
Datum: NAD 1927 (NADCON CONUS)
Ellipsoid: Clarke 1866
Zone: Utah Central 4302

Survey: Survey #1 (Wolverine Federal 17-9/OH)

Created By: Julie Cruse Date: 2007-12-26

Wolverine Gas & Oil Co. of Utah LLC

Servier County, UT
Wolverine Federal
Wolverine Federal 17-9
OH

Survey: Survey #1

Standard Survey Report

26 December, 2007

Scientific Drilling

Survey Report

Company:	Wolverine Gas & Oil Co. of Utah LLC	**Local Co-ordinate Reference:**	Well Wolverine Federal 17-9
Project:	Servier County, UT	**TVD Reference:**	GL 5793' & RKB 26' @ 5819.00ft (Lobo 1)
Site:	Wolverine Federal	**MD Reference:**	GL 5793' & RKB 26' @ 5819.00ft (Lobo 1)
Well:	Wolverine Federal 17-9	**North Reference:**	True
Wellbore:	OH	**Survey Calculation Method:**	Minimum Curvature
Design:	OH	**Database:**	EDM 2003.16 Multi-User Db

Project	Servier County, UT		
Map System:	US State Plane 1927 (Exact solution)	**System Datum:**	Mean Sea Level
Geo Datum:	NAD 1927 (NADCON CONUS)		
Map Zone:	Utah Central 4302		

Site Wolverine Federal, Sec 17 T23S R1W

Site Position:		**Northing:**	172,458.88 ft	**Latitude:**	38° 48' 19.460 N
From:	Lat/Long	**Easting:**	2,161,327.64 ft	**Longitude:**	110° 56' 2.273 W
Position Uncertainty:	0.00 ft	**Slot Radius:**	in	**Grid Convergence:**	0.36 °

Well Wolverine Federal 17-9, 2006' FSL 1609' FWL Sec 17 T23S R1W

Well Position	**+N/-S**	0.00 ft	**Northing:**	170,525.32 ft	**Latitude:**	38° 48' 2.400 N
	+E/-W	0.00 ft	**Easting:**	1,875,724.57 ft	**Longitude:**	111° 56' 9.700 W
Position Uncertainty		0.00 ft	**Wellhead Elevation:**	ft	**Ground Level:**	5,793.00 ft

Wellbore OH

Magnetics	**Model Name**	**Sample Date**	**Declination (°)**	**Dip Angle (°)**	**Field Strength (nT)**
	IGRF2005-10	2006-12-04	12.36	64.48	51,752

Design OH

Audit Notes:

Version:	1.0	**Phase:**	ACTUAL	**Tie On Depth:**	0.00

Vertical Section:	**Depth From (TVD) (ft)**	**+N/-S (ft)**	**+E/-W (ft)**	**Direction (°)**
	0.00	0.00	0.00	213.45

Survey Program **Date** 2007-12-26

From (ft)	**To (ft)**	**Survey (Wellbore)**	**Tool Name**	**Description**
50.00	8,890.00	Survey #1 (OH)	NS-GYRO-MS	North sensing gyrocompassing m/s

Survey

Measured Depth (ft)	**Inclination (°)**	**Azimuth (°)**	**Vertical Depth (ft)**	**+N/-S (ft)**	**+E/-W (ft)**	**Vertical Section (ft)**	**Dogleg Rate (°/100ft)**	**Build Rate (°/100ft)**	**Turn Rate (°/100ft)**
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
50.00	1.03	345.61	50.00	0.44	-0.11	-0.30	2.06	2.06	0.00
100.00	1.04	346.88	99.99	1.31	-0.33	-0.92	0.05	0.02	2.54
150.00	0.99	348.00	149.98	2.18	-0.52	-1.53	0.11	-0.10	2.24
200.00	0.46	342.33	199.98	2.79	-0.67	-1.96	1.07	-1.06	-11.34
250.00	0.10	304.15	249.98	3.01	-0.77	-2.09	0.77	-0.72	-76.36
300.00	0.09	254.85	299.98	3.02	-0.84	-2.06	0.16	-0.02	-98.60
350.00	0.05	225.34	349.98	3.00	-0.89	-2.01	0.11	-0.08	-59.02
400.00	0.04	231.65	399.98	2.97	-0.92	-1.97	0.02	-0.02	12.62
450.00	0.02	248.24	449.98	2.95	-0.95	-1.94	0.04	-0.04	33.18
500.00	0.09	285.83	499.98	2.96	-0.99	-1.93	0.15	0.14	75.18
550.00	0.06	258.48	549.98	2.97	-1.05	-1.89	0.09	-0.06	-54.70
600.00	0.06	153.43	599.98	2.94	-1.07	-1.86	0.19	0.00	-210.10

Scientific Drilling

Survey Report

Company:	Wolverine Gas & Oil Co. of Utah LLC	**Local Co-ordinate Reference:**	Well Wolverine Federal 17-9
Project:	Servier County, UT	**TVD Reference:**	GL 5793' & RKB 26' @ 5819.00ft (Lobo 1)
Site:	Wolverine Federal	**MD Reference:**	GL 5793' & RKB 26' @ 5819.00ft (Lobo 1)
Well:	Wolverine Federal 17-9	**North Reference:**	True
Wellbore:	OH	**Survey Calculation Method:**	Minimum Curvature
Design:	OH	**Database:**	EDM 2003.16 Multi-User Db

Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
650.00	0.07	169.04	649.98	2.89	-1.05	-1.83	0.04	0.02	31.22
700.00	0.02	217.40	699.98	2.85	-1.05	-1.80	0.12	-0.10	96.72
750.00	0.35	226.49	749.98	2.74	-1.17	-1.64	0.66	0.66	18.18
800.00	1.07	225.43	799.97	2.30	-1.61	-1.03	1.44	1.44	-2.12
850.00	2.46	228.85	849.95	1.27	-2.75	0.46	2.79	2.78	6.84
900.00	3.74	226.08	899.87	-0.57	-4.73	3.08	2.58	2.56	-5.54
950.00	4.44	224.58	949.74	-3.08	-7.27	6.57	1.42	1.40	-3.00
1,000.00	5.91	223.37	999.54	-6.33	-10.39	11.01	2.95	2.94	-2.42
1,050.00	6.95	221.84	1,049.22	-10.45	-14.18	16.54	2.11	2.08	-3.06
1,100.00	7.84	219.40	1,098.81	-15.34	-18.36	22.92	1.89	1.78	-4.88
1,150.00	7.96	214.91	1,148.33	-20.82	-22.51	29.77	1.26	0.24	-8.98
1,200.00	8.11	212.84	1,197.84	-26.62	-26.40	36.76	0.65	0.30	-4.14
1,250.00	8.27	211.71	1,247.33	-32.64	-30.20	43.88	0.45	0.32	-2.26
1,300.00	8.35	211.22	1,296.81	-38.80	-33.98	51.10	0.21	0.16	-0.98
1,350.00	8.60	210.48	1,346.26	-45.13	-37.75	58.47	0.55	0.50	-1.48
1,400.00	9.43	210.54	1,395.64	-51.88	-41.73	66.29	1.66	1.66	0.12
1,450.00	10.29	210.09	1,444.91	-59.27	-46.05	74.84	1.73	1.72	-0.90
1,500.00	11.59	211.82	1,494.00	-67.40	-50.94	84.32	2.68	2.60	3.46
1,550.00	12.63	212.93	1,542.88	-76.26	-56.56	94.80	2.13	2.08	2.22
1,600.00	13.99	211.41	1,591.54	-86.01	-62.68	106.31	2.81	2.72	-3.04
1,650.00	15.38	209.33	1,639.90	-96.95	-69.08	118.97	2.97	2.78	-4.16
1,700.00	16.68	206.23	1,687.96	-109.16	-75.50	132.70	3.11	2.60	-6.20
1,750.00	17.92	202.93	1,735.70	-122.69	-81.67	147.38	3.16	2.48	-6.60
1,800.00	18.80	199.38	1,783.15	-137.37	-87.34	162.76	2.85	1.76	-7.10
1,850.00	19.49	195.66	1,830.39	-153.00	-92.26	178.52	2.80	1.38	-7.44
1,900.00	19.71	193.94	1,877.49	-169.22	-96.55	194.41	1.23	0.44	-3.44
1,950.00	19.47	192.10	1,924.60	-185.55	-100.32	210.12	1.32	-0.48	-3.68
2,000.00	19.26	189.92	1,971.77	-201.82	-103.49	225.44	1.51	-0.42	-4.36
2,050.00	19.44	186.54	2,018.95	-218.21	-105.86	240.42	2.27	0.36	-6.76
2,100.00	19.97	182.75	2,066.02	-235.01	-107.22	255.18	2.77	1.06	-7.58
2,150.00	20.59	181.03	2,112.92	-252.33	-107.78	269.94	1.72	1.24	-3.44
2,200.00	22.21	181.06	2,159.47	-270.57	-108.12	285.35	3.24	3.24	0.06
2,250.00	23.39	182.14	2,205.57	-289.93	-108.66	301.81	2.50	2.36	2.16
2,300.00	25.05	183.53	2,251.16	-310.42	-109.69	319.46	3.51	3.32	2.78
2,350.00	26.57	184.92	2,296.18	-332.12	-111.30	338.46	3.27	3.04	2.78
2,400.00	27.92	186.92	2,340.63	-354.89	-113.67	358.76	3.26	2.70	4.00
2,450.00	28.56	189.74	2,384.68	-378.29	-117.10	380.18	2.96	1.28	5.64
2,500.00	28.35	192.11	2,428.64	-401.68	-121.61	402.18	2.30	-0.42	4.74
2,550.00	27.50	193.42	2,472.82	-424.51	-126.78	424.08	2.10	-1.70	2.62
2,600.00	26.28	192.98	2,517.41	-446.53	-131.95	445.30	2.47	-2.44	-0.88
2,650.00	24.92	192.48	2,562.50	-467.60	-136.71	465.51	2.75	-2.72	-1.00
2,700.00	23.65	192.60	2,608.08	-487.67	-141.17	484.72	2.54	-2.54	0.24
2,750.00	22.49	192.16	2,654.08	-506.81	-145.38	503.00	2.35	-2.32	-0.88
2,800.00	22.20	192.50	2,700.32	-525.38	-149.43	520.73	0.64	-0.58	0.68
2,850.00	22.46	194.33	2,746.57	-543.86	-153.84	538.58	1.48	0.52	3.66
2,900.00	22.41	197.47	2,792.79	-562.20	-159.07	556.76	2.40	-0.10	6.28
2,950.00	22.39	200.24	2,839.02	-580.23	-165.22	575.20	2.11	-0.04	5.54
3,000.00	22.45	203.54	2,885.24	-597.92	-172.33	593.87	2.52	0.12	6.60
3,050.00	22.39	207.17	2,931.47	-615.14	-180.49	612.74	2.77	-0.12	7.26
3,100.00	22.38	209.79	2,977.70	-631.88	-189.57	631.71	2.00	-0.02	5.24
3,150.00	22.27	214.17	3,023.95	-647.98	-199.62	650.68	3.33	-0.22	8.76
3,200.00	22.24	216.96	3,070.23	-663.38	-210.63	669.60	2.11	-0.06	5.58
3,250.00	22.10	221.23	3,116.54	-678.01	-222.52	688.37	3.23	-0.28	8.54
3,300.00	21.99	223.59	3,162.88	-691.87	-235.18	706.90	1.79	-0.22	4.72

Scientific Drilling

Survey Report

Company:	Wolverine Gas & Oil Co. of Utah LLC	**Local Co-ordinate Reference:**	Well Wolverine Federal 17-9
Project:	Servier County, UT	**TVD Reference:**	GL 5793' & RKB 26' @ 5819.00ft (Lobo 1)
Site:	Wolverine Federal	**MD Reference:**	GL 5793' & RKB 26' @ 5819.00ft (Lobo 1)
Well:	Wolverine Federal 17-9	**North Reference:**	True
Wellbore:	OH	**Survey Calculation Method:**	Minimum Curvature
Design:	OH	**Database:**	EDM 2003.16 Multi-User Db

Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
3,350.00	22.01	224.93	3,209.24	-705.28	-248.25	725.30	1.00	0.04	2.68
3,400.00	21.98	226.25	3,255.60	-718.38	-261.62	743.60	0.99	-0.06	2.64
3,450.00	22.01	226.93	3,301.96	-731.25	-275.23	761.84	0.51	0.06	1.36
3,500.00	21.88	228.80	3,348.34	-743.79	-289.08	779.94	1.42	-0.26	3.74
3,550.00	21.94	228.88	3,394.73	-756.07	-303.13	797.92	0.13	0.12	0.16
3,600.00	22.06	228.82	3,441.09	-768.39	-317.23	815.98	0.24	0.24	-0.12
3,650.00	22.06	227.61	3,487.43	-780.90	-331.23	834.14	0.91	0.00	-2.42
3,700.00	22.03	226.06	3,533.77	-793.74	-344.92	852.40	1.17	-0.06	-3.10
3,750.00	21.99	225.67	3,580.13	-806.79	-358.37	870.70	0.30	-0.08	-0.78
3,800.00	22.05	225.46	3,626.48	-819.91	-371.76	889.02	0.20	0.12	-0.42
3,850.00	22.06	226.15	3,672.82	-833.00	-385.22	907.36	0.52	0.02	1.38
3,900.00	22.12	226.35	3,719.15	-846.00	-398.80	925.70	0.19	0.12	0.40
3,950.00	22.32	226.58	3,765.44	-859.03	-412.51	944.12	0.44	0.40	0.46
4,000.00	22.02	226.81	3,811.74	-871.97	-426.24	962.49	0.62	-0.60	0.46
4,050.00	22.19	226.98	3,858.07	-884.83	-439.97	980.79	0.36	0.34	0.34
4,100.00	22.24	227.17	3,904.36	-897.70	-453.82	999.16	0.18	0.10	0.38
4,150.00	22.32	227.97	3,950.62	-910.49	-467.81	1,017.54	0.63	0.16	1.60
4,200.00	22.37	228.61	3,996.87	-923.14	-482.00	1,035.92	0.50	0.10	1.28
4,250.00	22.25	229.20	4,043.13	-935.61	-496.30	1,054.21	0.51	-0.24	1.18
4,300.00	22.23	228.61	4,089.41	-948.05	-510.56	1,072.45	0.45	-0.04	-1.18
4,350.00	22.35	227.60	4,135.67	-960.72	-524.68	1,090.80	0.80	0.24	-2.02
4,400.00	22.17	226.56	4,181.95	-973.61	-538.55	1,109.21	0.87	-0.36	-2.08
4,450.00	22.32	225.77	4,228.22	-986.72	-552.20	1,127.67	0.67	0.30	-1.58
4,500.00	22.18	223.77	4,274.50	-1,000.16	-565.54	1,146.23	1.54	-0.28	-4.00
4,550.00	21.99	221.99	4,320.83	-1,013.94	-578.33	1,164.77	1.39	-0.38	-3.56
4,600.00	21.95	220.85	4,367.20	-1,027.96	-590.70	1,183.30	0.86	-0.08	-2.28
4,650.00	22.13	220.06	4,413.55	-1,042.24	-602.88	1,201.92	0.69	0.36	-1.58
4,700.00	21.98	219.41	4,459.89	-1,056.68	-614.88	1,220.58	0.57	-0.30	-1.30
4,750.00	21.64	219.01	4,506.31	-1,071.07	-626.62	1,239.06	0.74	-0.68	-0.80
4,800.00	22.08	219.16	4,552.72	-1,085.52	-638.36	1,257.59	0.89	0.88	0.30
4,850.00	22.13	219.73	4,599.04	-1,100.05	-650.31	1,276.30	0.44	0.10	1.14
4,900.00	22.06	221.44	4,645.37	-1,114.33	-662.55	1,294.96	1.29	-0.14	3.42
4,950.00	21.69	223.19	4,691.77	-1,128.11	-675.09	1,313.37	1.50	-0.74	3.50
5,000.00	20.93	223.60	4,738.35	-1,141.31	-687.57	1,331.27	1.55	-1.52	0.82
5,050.00	19.55	223.98	4,785.26	-1,153.80	-699.54	1,348.28	2.77	-2.76	0.76
5,100.00	18.80	224.26	4,832.49	-1,165.59	-710.97	1,364.42	1.51	-1.50	0.56
5,150.00	17.39	224.86	4,880.01	-1,176.66	-721.86	1,379.66	2.84	-2.82	1.20
5,200.00	16.22	224.98	4,927.88	-1,186.89	-732.07	1,393.83	2.34	-2.34	0.24
5,250.00	14.73	225.55	4,976.06	-1,196.28	-741.54	1,406.89	3.00	-2.98	1.14
5,300.00	13.70	226.37	5,024.53	-1,204.82	-750.37	1,418.87	2.10	-2.06	1.64
5,350.00	12.51	226.27	5,073.23	-1,212.65	-758.57	1,429.92	2.38	-2.38	-0.20
5,400.00	11.51	227.75	5,122.13	-1,219.75	-766.17	1,440.04	2.09	-2.00	2.96
5,450.00	10.28	229.22	5,171.23	-1,226.02	-773.24	1,449.17	2.52	-2.46	2.94
5,500.00	9.59	228.22	5,220.48	-1,231.71	-779.73	1,457.49	1.42	-1.38	-2.00
5,550.00	9.61	226.60	5,269.78	-1,237.35	-785.87	1,465.58	0.54	0.04	-3.24
5,600.00	9.39	222.23	5,319.10	-1,243.24	-791.64	1,473.67	1.51	-0.44	-8.74
5,650.00	9.50	220.79	5,368.42	-1,249.38	-797.08	1,481.80	0.52	0.22	-2.88
5,700.00	9.85	220.88	5,417.71	-1,255.74	-802.57	1,490.13	0.70	0.70	0.18
5,750.00	9.83	220.05	5,466.97	-1,262.24	-808.12	1,498.61	0.29	-0.04	-1.66
5,800.00	9.83	221.60	5,516.24	-1,268.70	-813.70	1,507.08	0.53	0.00	3.10
5,850.00	9.65	222.35	5,565.52	-1,274.99	-819.35	1,515.44	0.44	-0.36	1.50
5,900.00	9.56	221.62	5,614.82	-1,281.19	-824.93	1,523.69	0.30	-0.18	-1.46
5,950.00	9.57	221.35	5,664.12	-1,287.41	-830.44	1,531.92	0.09	0.02	-0.54
6,000.00	9.60	222.28	5,713.42	-1,293.62	-835.99	1,540.16	0.32	0.06	1.86

Scientific Drilling

Survey Report

Company:	Wolverine Gas & Oil Co. of Utah LLC	**Local Co-ordinate Reference:**	Well Wolverine Federal 17-9
Project:	Servier County, UT	**TVD Reference:**	GL 5793' & RKB 26' @ 5819.00ft (Lobo 1)
Site:	Wolverine Federal	**MD Reference:**	GL 5793' & RKB 26' @ 5819.00ft (Lobo 1)
Well:	Wolverine Federal 17-9	**North Reference:**	True
Wellbore:	OH	**Survey Calculation Method:**	Minimum Curvature
Design:	OH	**Database:**	EDM 2003.16 Multi-User Db

Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
6,050.00	9.60	223.56	5,762.72	-1,299.72	-841.67	1,548.38	0.43	0.00	2.56
6,100.00	8.98	225.57	5,812.07	-1,305.47	-847.33	1,556.30	1.40	-1.24	4.02
6,150.00	7.68	226.30	5,861.54	-1,310.51	-852.53	1,563.37	2.61	-2.60	1.46
6,200.00	5.82	225.46	5,911.19	-1,314.60	-856.75	1,569.11	3.73	-3.72	-1.68
6,250.00	4.66	227.81	5,960.98	-1,317.74	-860.06	1,573.56	2.36	-2.32	4.70
6,300.00	3.64	229.03	6,010.85	-1,320.15	-862.77	1,577.05	2.05	-2.04	2.44
6,350.00	2.99	227.98	6,060.77	-1,322.06	-864.93	1,579.84	1.31	-1.30	-2.10
6,400.00	2.17	228.22	6,110.71	-1,323.57	-866.61	1,582.02	1.64	-1.64	0.48
6,450.00	0.87	214.84	6,160.70	-1,324.51	-867.53	1,583.32	2.68	-2.60	-26.76
6,500.00	0.30	235.46	6,210.69	-1,324.89	-867.86	1,583.82	1.20	-1.14	41.24
6,550.00	0.22	311.57	6,260.69	-1,324.90	-868.04	1,583.93	0.65	-0.16	152.22
6,600.00	0.12	220.77	6,310.69	-1,324.88	-868.14	1,583.96	0.50	-0.20	-181.60
6,700.00	0.52	296.51	6,410.69	-1,324.76	-868.62	1,584.12	0.50	0.40	75.74
6,800.00	0.35	329.12	6,510.69	-1,324.29	-869.18	1,584.05	0.29	-0.17	32.61
6,900.00	0.72	301.95	6,610.68	-1,323.70	-869.87	1,583.93	0.44	0.37	-27.17
7,000.00	0.43	317.02	6,710.68	-1,323.09	-870.66	1,583.86	0.32	-0.29	15.07
7,100.00	0.41	278.95	6,810.68	-1,322.76	-871.27	1,583.92	0.27	-0.02	-38.07
7,200.00	0.19	221.27	6,910.67	-1,322.83	-871.73	1,584.23	0.35	-0.22	-57.68
7,300.00	0.15	221.41	7,010.67	-1,323.05	-871.93	1,584.52	0.04	-0.04	0.14
7,400.00	0.07	162.14	7,110.67	-1,323.21	-871.99	1,584.69	0.13	-0.08	-59.27
7,500.00	0.21	34.40	7,210.67	-1,323.12	-871.87	1,584.55	0.26	0.14	-127.74
7,600.00	0.20	329.37	7,310.67	-1,322.81	-871.86	1,584.29	0.22	-0.01	-65.03
7,700.00	0.07	156.66	7,410.67	-1,322.72	-871.92	1,584.25	0.27	-0.13	-172.71
7,800.00	0.40	295.92	7,510.67	-1,322.62	-872.21	1,584.32	0.46	0.33	139.26
7,900.00	0.34	239.48	7,610.67	-1,322.62	-872.78	1,584.64	0.35	-0.06	-56.44
8,000.00	0.87	204.06	7,710.67	-1,323.47	-873.35	1,585.65	0.62	0.53	-35.42
8,100.00	1.85	196.30	7,810.64	-1,325.71	-874.11	1,587.94	0.99	0.98	-7.76
8,200.00	2.29	204.60	7,910.57	-1,329.07	-875.39	1,591.46	0.53	0.44	8.30
8,300.00	2.92	223.70	8,010.47	-1,332.73	-877.99	1,595.94	1.06	0.63	19.10
8,400.00	3.08	226.23	8,110.33	-1,336.43	-881.68	1,601.07	0.21	0.16	2.53
8,500.00	3.53	221.07	8,210.17	-1,340.61	-885.65	1,606.74	0.54	0.45	-5.16
8,600.00	2.34	220.08	8,310.03	-1,344.49	-888.98	1,611.82	1.19	-1.19	-0.99
8,700.00	0.72	63.38	8,410.01	-1,345.78	-889.74	1,613.30	3.01	-1.62	-156.70
8,800.00	0.18	189.27	8,510.01	-1,345.65	-889.20	1,612.90	0.84	-0.54	125.89
8,890.00	0.58	61.33	8,600.01	-1,345.57	-888.82	1,612.63	0.78	0.44	-142.16

Survey Annotations

Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates +N/-S (ft)	Local Coordinates +E/-W (ft)	Comment
8,890.00	8,600.01	-1,345.57	-888.82	Last Gyro Survey

Checked By: _____ Approved By: _____ Date: _____

Scientific Drilling
Rocky Mountain Operations

SUPPORT STAFF

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(307) 472-6621

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

RECEIVED
FEB 19 2008
DIV. OF OIL, GAS & MINING

cc: UDOGM w/ attachments in duplicate

COPY

One Riverfront Plaza • 55 Campau, N.W. • Grand Rapids, MI 49503-2616 • 616.458.1150 • FAX 616.458.0869

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.

SUBMIT IN TRIPLICATE- Other instructions on reverse side.

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 Federal Unit

1. Type of Well
☑ Oil Well ☐ Gas Well ☐ Other

8. Well Name and No.
Wolverine Federal 17-9

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

9. API Well No.
4304130049

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

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

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

4. Location of Well *(Footage, Sec., T., R., M., or Survey Description)*
2006' FSL, 1609' FWL, Sec. 17, T23S, R1W, SLB&M

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			
☐ Notice of Intent	☐ Acidize	☐ Deepen	☑ Production (Start/Resume)	☐ Water Shut-Off
☑ Subsequent Report	☐ Alter Casing	☐ Fracture Treat	☐ Reclamation	☐ Well Integrity
☐ Final Abandonment Notice	☐ Casing Repair	☐ New Construction	☐ Recomplete	☐ Other
	☐ Change Plans	☐ Plug and Abandon	☐ Temporarily Abandon	
	☐ Convert to Injection	☐ Plug Back	☐ 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.)

Oil production in saleable quantities was initiated during completion operations in the Navajo Formation in this well on January 7, 2008.

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)

CONFIDENTIAL

COPY