



August 5, 2004

Utah Division of Oil, Gas & Mining
1594 W. N. Temple Suite 1210
Salt Lake City, Utah 84114-5801

RE: Wolverine Gas & Oil Company of Utah, LLC requests permission to drill the Wolverine Federal #20-1 well as an exception to Rule R649-3-3

Gentlemen:

Pursuant to Rule R649-3-3 of the State's Oil & Gas Conservation regulations, Wolverine Gas & Oil Company of Utah, LLC, hereby makes application for approval to directionally drill an oil & gas well.

Wolverine Gas & Oil Company of Utah, LLC (Wolverine) proposes to drill the Wolverine Federal #20-1 well to a total depth of 7,050 feet. Wolverine is the only operator within a 460 foot radius.

The mountainous terrain of the area is such that directional drilling is the most effective method to minimize surface disturbance. By locating the well pad on a relatively flat surface and drilling a directional well beneath this challenging topography, Wolverine can most effectively minimize surface disturbance and ensure proper utilization of resources.

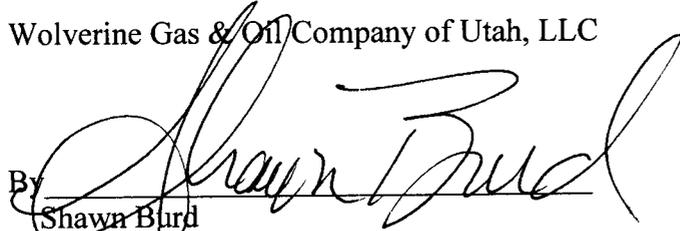
Attached hereto is a plat as required by the Commissions rules and regulations.

If no objections are filed, the applicant requests that this application be approved. If objections are filed, applicant requests the matter be set for hearing and that it be advised of the hearing date.

Respectfully submitted,

Wolverine Gas & Oil Company of Utah, LLC

By


Shawn Burd

Authorized Agent

WESTERN LAND SERVICES - UTAH

310 South 100 East • Richfield, UT 84701 • Phone: (435) 896-1943 • Fax: (435) 893-2134

Web: www.westernls.com

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

CONFIDENTIAL

FORM 3

AMENDED REPORT
(highlight changes)

APPLICATION FOR PERMIT TO DRILL *utu-73528*

5. MINERAL LEASE NO: # ~~46605~~
6. SURFACE: Federal

1A. TYPE OF WORK: DRILL REENTER DEEPEN
7. IF INDIAN, ALLOTTEE OR TRIBE NAME:

B. TYPE OF WELL: OIL GAS OTHER _____ SINGLE ZONE MULTIPLE ZONE
8. UNIT or CA AGREEMENT NAME: Wolverine Fed. Exploration Unit

2. NAME OF OPERATOR: Wolverine Gas and Oil Company of Utah, LLC
9. WELL NAME and NUMBER: Wolverine Federal # 20-1

3. ADDRESS OF OPERATOR: One Riverfront Plaza CITY Grand Rapids STATE MI ZIP 49503 PHONE NUMBER: (616) 458-1150
10. FIELD AND POOL, OR WILDCAT: Wildcat

4. LOCATION OF WELL (FOOTAGES):
AT SURFACE: 833' FSL & 1,925' FWL - T23S-R1W, Sec 17 *SESW*
AT PROPOSED PRODUCING ZONE: 660' FNL & 660' FWL - T23S-R1W, Sec 20 *NWNW*
11. QTR/CTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: NWNW 20 23S 1W

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE: 4.2 mile South of Sigurd
12. COUNTY: Sevier 13. STATE: UTAH

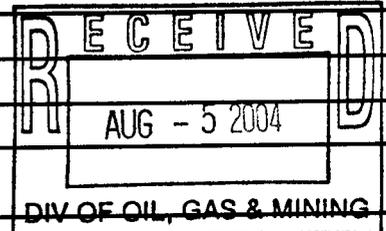
15. DISTANCE TO NEAREST PROPERTY OR LEASE LINE (FEET): appr. 400'
16. NUMBER OF ACRES IN LEASE: 8,236 ac
17. NUMBER OF ACRES ASSIGNED TO THIS WELL: 40

18. DISTANCE TO NEAREST WELL (DRILLING, COMPLETED, OR APPLIED FOR) ON THIS LEASE (FEET): appr. 15'
19. PROPOSED DEPTH: 7,050
20. BOND DESCRIPTION: BLM # WY 3329

21. ELEVATIONS (SHOW WHETHER DF, RT, GR, ETC.): GR-5,835'
22. APPROXIMATE DATE WORK WILL START: 9/15/2004
23. ESTIMATED DURATION: 40 days

PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	CASING SIZE, GRADE, AND WEIGHT PER FOOT	SETTING DEPTH	CEMENT TYPE, QUANTITY, YIELD, AND SLURRY WEIGHT
20	14	80	Conductor
12 1/2	9 5/8 36 ppf J55 STC	1,510	lead:c,360sx,1.78, 12.8/tail:g, 280sx,1.20, 15.6
8 3/4	5 1/2 17 ppf L80 LTC	7,250	lead:Poz, 750sx,1.76, 13.0/tail:Poz, 350sx,1.49, 13.4



ATTACHMENTS

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

- WELL PLAT OR MAP PREPARED BY LICENSED SURVEYOR OR ENGINEER
- COMPLETE DRILLING PLAN
- EVIDENCE OF DIVISION OF WATER RIGHTS APPROVAL FOR USE OF WATER
- FORM 5, IF OPERATOR IS PERSON OR COMPANY OTHER THAN THE LEASE OWNER

NAME (PLEASE PRINT) Richard Moritz TITLE Vice President, Land & Legal
SIGNATURE *Richard Moritz* DATE 7-26-04

(This space for State use only)

*Surf 418906X
4294489*

*BHL 418521X
4294034Y*

API NUMBER ASSIGNED: 43-041-30032

(11/2001)

**Federal Approval of this
Action is Necessary**

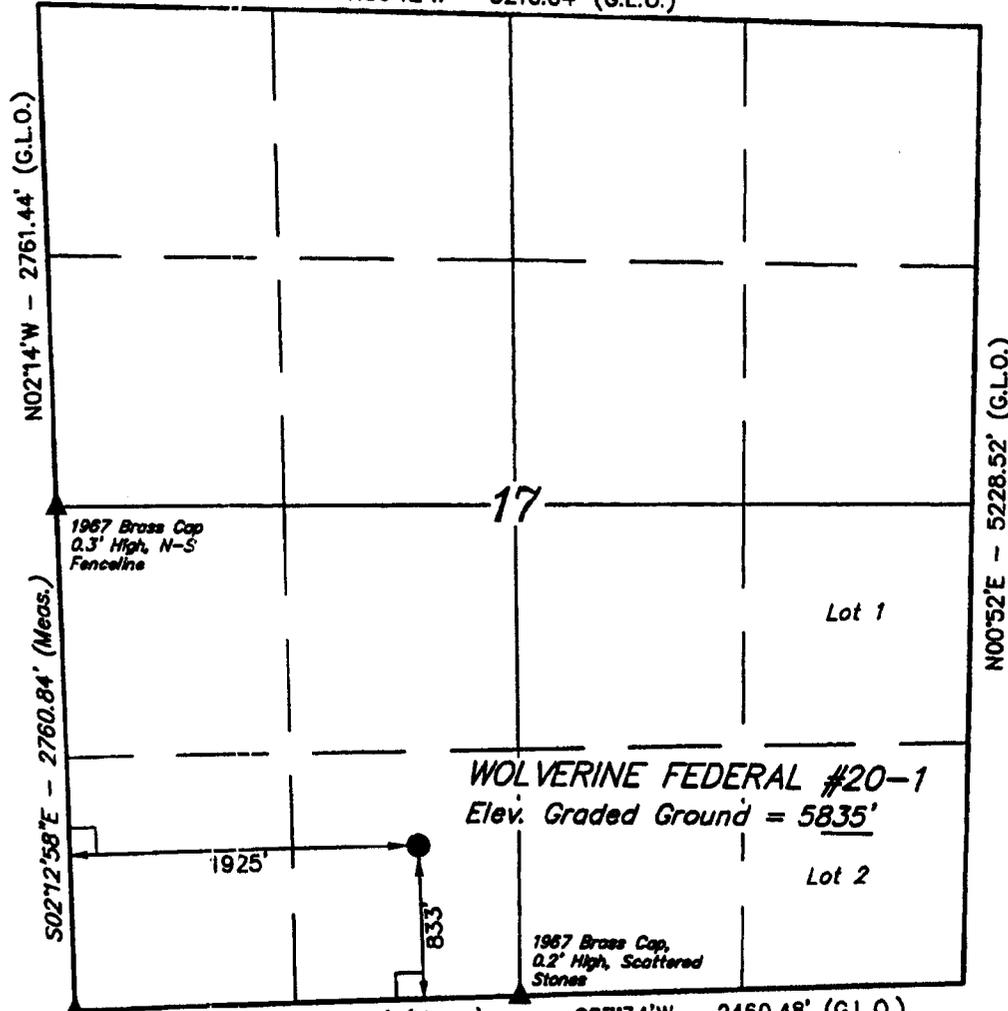
APPROVAL:
**Approved by the
Utah Division of
Oil, Gas and Mining**
Date: 08-19-04
By: *[Signature]*

*38,79729
-111,93382*

*38,79316
-111,93820*

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

N89°12'W - 5210.04' (G.L.O.)



N02°14'W - 2761.44' (G.L.O.)

S02°12'58"E - 2760.84' (Meas.)

N00°52'E - 5228.52' (G.L.O.)

1967 Brass Cap
0.3' High, N-S
Fence Line

WOLVERINE FEDERAL #20-1
Elev. Graded Ground = 5835'

1967 Brass Cap,
0.2' High, Scattered
Stones

N87°28'29"E - 2457.84' (Meas.)

S87°34'W - 2460.48' (G.L.O.)

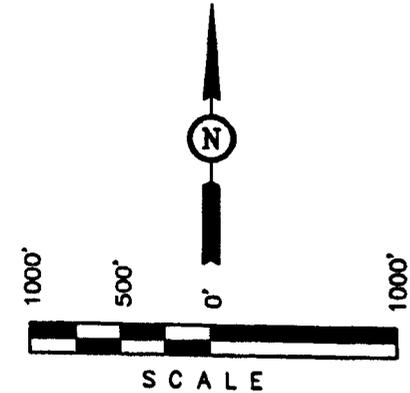
1967 Brass Cap,
0.2' High, Cedar
Post

WOLVERINE GAS & OIL CORP.

Well location, WOLVERINE FEDERAL #20-1, located as shown in the SE 1/4 SW 1/4 of Section 17, T23S, R1W, S.L.B.&M., Sevier County, Utah.

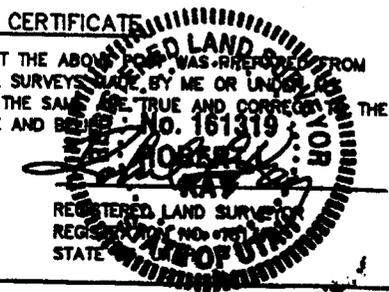
BASIS OF ELEVATION

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



CERTIFICATE

THIS IS TO CERTIFY THAT THE ABOVE MAP 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. NO. 161319



REVISED: 7-7-04
REVISED: 5-27-04

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

LEGEND:

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

BASIS OF BEARINGS

BASIS OF BEARINGS IS A G.P.S. OBSERVATION.
(AUTONOMOUS NAD 83)
LATITUDE = 38°47'51.11" (38.797531)
LONGITUDE = 111°56'05.06" (111.934739)

SCALE 1" = 1000'	DATE SURVEYED: 3-4-04	DATE DRAWN: 3-10-04
PARTY G.O. D.J. C.G.	REFERENCES G.L.O. PLAT	
WEATHER COOL	FILE WOLVERINE GAS & OIL CORP.	

***PROJECT PLAN OF DEVELOPMENT AND
MASTER SURFACE USE PLAN***

Wolverine FEDERAL #20-1

NAME OF APPLICANT: Wolverine Gas and Oil Company of Utah,
LLC
One Riverfront Plaza, 55 Campau NW
Grand Rapids, Michigan 49503-2616

PROJECT NAME: "Wolverine Federal #20-1"
NW/NW of Section 20
Township 23 South – Range 1 West

ATTACHMENTS: A.) Project Map/Survey
B.) Well Site Location Layout
C.) Cross Sections (Cut and Fill)
D.) Wildlife & Vegetative Species of
Concern Summary
E.) Cultural Resource Survey Report

I. DESCRIPTION OF PROJECT:

Wolverine Gas and Oil Company of Utah, LLC (Wolverine) proposes to drill and explore for hydrocarbons, using a directional drilling program, from the Navajo Formation at depths of approximately 4,810' – 7,036' and approximately 8,062' – 9,100' within the Wolverine Federal Exploration Unit situated in Sevier County, Utah:

TOWNSHIP 23 SOUTH, RANGE 1 WEST

Northwest Quarter of Northwest Quarter (NW/NW) of Section 20

Well Name & No.	Target	Elev.	Location	TD	Footages
LEASE#UTU-73528					
Wolverine Federal #20-1	Navajo 1 and 2	5,835'	NWNW Sec 20, T23S-R1W	7,050'	840' FSL; 1,916' FWL

The attached Project Map (Attachment A) indicates the proposed well site and its intended configuration. Additionally, the existing access route is indicated. This well is being drilled within the "Wolverine Federal Exploration Unit" and upon federally owned surface administered by the Bureau of Land Management, United States Department of the Interior.

Mineral rights within the Wolverine Federal Exploration Unit are owned by a variety of interests and are federally owned at the target bottom-hole location for this proposed well. The proposed surface plan will be reviewed and inspected by the appropriate regulatory agencies, state and federal, to ensure proper utilization of the surface reflecting an effort by Wolverine to minimize surface disturbance and waste. Appropriate Onshore Oil and Gas Orders and those of the Utah Division of Oil, Gas and Mining will be followed in the constructing, drilling, completion, operation, plugging and surface reclamation of this well.

The project is situated within an area that is referred to by the Utah Division of Oil, Gas and Mining (Statement of Basis, Kings Meadow Ranches 17-1, October 21, 2003) as "... placed in the High Plateaus section of the Colorado Plateau physiographic province in western central Utah. Some people have characterized this area as being in the Basin and Range - Colorado Plateau transition zone." The drill site itself is located in a flat area between steep hills and is contiguous to Highway 24 from which access to this site will be established. The flat area is dominated by sagebrush - grass communities and the nearby hillsides are dominated by Pinyon Pine - Juniper communities. The access route consists of an improved driveway off from Highway 24 entering onto the existing well site. BLM road construction standards will be adhered to as new improvements are constructed.

Wolverine's proposed "Wolverine Federal #20-1" project is most easily accessible from Sigurd, Utah. From Sigurd, one would drive down Highway 24 heading east/southeasterly. At mile marker 14, drive approximately 0.2 miles and turn westerly onto the access road heading onto the well site. Drive approximately 100 yards to the proposed well pad location.

Surface water is located in the area primarily in the form of the Sevier River, in the Peterson Creek drainage, a tributary of Brine Creek. Local springs arising from the volcanic rocks and ephemeral drainages also exist in the area including a drainage way

situated along Highway 24. The Sevier River is approximately three (3) miles west of this proposed location.

Geology and Soil Types

Again quoting from the "Division of Oil, Gas and Mining, Statement of Basis, Kings Meadow Ranches 17-1", the well "...will likely spud into a thin alluvium covering the evaporate-rich Jurassic age Arapien shale." "The Arapien Shale may have been somewhat intruded or elevated into the area between the Sevier Fault and the considerable parallel secondary faulting mapped in the Cedar Mountain – Black Mountain area..." It is anticipated that from surface to approximately 400 feet in depth, the lithology of the Quaternary will consist of unconsolidated sediments.

The soil type classified at the Wolverine Federal #20-1 wellsite is the Billings silty clay loam. This soil type is a fine-silty, mixed calcareous, mesic Typic Torrifluvents and is usually found in areas containing two (2) to five (5) percent slopes. The soil is a deep, drained, silty clay loam. It features a light gray, moderately alkaline, strongly calcareous, silty clay loam surface soil that is approximately ten (10) inches thick. The subsoils consist of a light gray, moderately alkaline, friable, silty clay loam approximately 32 inches thick. The substrate material is a light gray, moderately alkaline, friable, silty clay loam with a small amount of gypsum veining.

Assuming that the drilling and completion of this well results in its ability to commercially produce hydrocarbons, appropriate market connections will be made upon proper permitting of such activities by all agencies having jurisdiction over said activities.

II. SOIL EROSION CONTROL MEASURES:

The well pad was sloped at about 1%, in the direction of the site's drainage so as to provide for a well-drained work area during drilling operations. Appropriate collection and infiltration basins were constructed in the sloped area of the drill pad.

In all fill areas, the edges were diked to control run off.

Appropriate drill site drainage and sedimentation control measures were incorporated in the operational plan. These included utilization of earthen dikes along the fill portion of the drilling pad perimeter, stabilization of slopes as needed, location of the reserve pits in the cut portion of the drilling pad and the pad constructed so as to slope toward a collection and infiltration basin. Construction of the drill site was in accordance with the regulations and stipulations as defined by the State of Utah, Department of Natural Resources, Division of Water Rights.

Reclamation of the site was in accordance with Best Management Practices and requirements of the Bureau of Land Management.

III. EXISTING ACCESS ROADS AND ROAD IMPROVEMENTS

The existing access road is identified and labeled on the project map. Steep, rough topography is not identified as a problem along our access route which was constructed by initially using fill material and covering it with approximately eight (8) inches of shale/gravel. Another layer of road base material, approximately four (4) inches in depth, was placed on top of the shale/gravel.

IV. LOCATION OF EXISTING WELLS

The recently drilled "King Meadow Ranches 17-1" well is situated approximately one-half mile northerly of this proposed well site location and is situated in the Southeast Quarter of the Northwest Quarter (SE/NW) of Section 17, Township 23 South, Range 1 West, Sevier County, Utah. "Wolverine Federal 17-2" is located approximately 15 feet West of this proposed well site and is situated in the Southeast Quarter of the Southwest Quarter (SE/SW) of Section 17, Township 23 South, Range 1 West, Sevier County, Utah.

V. DRILLING METHOD

Wolverine proposes to use a directional drilling program for the Wolverine Federal #20-1. The mountainous terrain of the area is such that directional drilling is the most efficient method to minimize surface disturbance. By locating the well pad on a relatively flat surface, and drilling a directional well beneath this challenging topography, Wolverine can most effectively minimize surface disturbance and ensure proper utilization of resources.

VI. LOCATION AND TYPE OF WATER SUPPLY

Water for drilling the Wolverine Federal #20-1 will be purchased from water wells nearby or drilled on location and pumped into storage tanks at the site. Water for drilling from nearby well(s) will be hauled to or pumped on location and stored in storage tanks on the drill site. Wastewater will not be discharged on the surface at this site and the drilling of the well will not require a wastewater management plan.

VII. CONSTRUCTION MATERIALS

In most circumstances, natural earth materials were used for the construction of roads and fills. These were taken from locations essentially contiguous to or nearby the locations to be improved. When necessary, road base materials were used and delivered

by the contractor for application on site and specifically as the initial fill material for the access road, which was then covered with approximately eight (8) inches of shale/gravel.

VIII. METHODS FOR HANDLING WASTE

The Reserve Pit was constructed on the well pad per the attached Well Site Location Layout (Attachment B). It will be used for the disposal of waste mud and drill cuttings and is located on the west/southwesterly portion of the well site plan. The pit dimensions are 125 feet X 225 feet and will be 10 feet deep. The pit was lined with a synthetic liner having a minimum thickness of 12 mills. Rules pursuant to R649-3-16 will be followed regarding the reserve pit as well as those governing Onshore Oil and Gas Operations (43 CFR 3160.)

Upon evaporation of fluids, pit closure occurs with the back fill of soil and its compaction to prevent settling. The usage of the pit is further described in the section VIII under pit closure.

All garbage will be taken off site and disposed of properly. Pursuant to R649-3-14, all rubbish and debris shall be kept in containers on the well site, and will be hauled to an approved disposal site upon completion of drilling and completion operations and as needed during such operations. There will be no chemical disposal of any type. Sewage is handled through the renting of portable toilets. These are serviced by the rental company and removed from site when no longer required.

IX. PLANS FOR RECLAMATION OF THE SURFACE

Pit closure: The pits will be fenced on three sides during all drilling operations and then the fourth side will be immediately fenced when the rig is moved off location. After evaporation of fluids, back-fill of sub-soil and compaction to prevent settling will occur within 90 days of the drilling and completing of the well. If necessary after 90 days, the fluids will be sucked out of the pit and transported off site.

The topsoil was stripped off and stock piled in an area not to be disturbed. The topsoil will be placed back on the pit after back filling and then prepped for re-seeding.

The approximate Pit size is indicated on the Well Site Location Layout diagram attached hereto (Attachment B).

Revegetation Methods: Disturbed areas will be disked, seeded and "dragged", as needed; seeding with a mixture approved by the local USDA Natural Resource Conservation Service or the Bureau of Land Management.

Wolverine generally requires at least twelve (12) pounds per acre of seed distribution. Wolverine suggests that autumn seeding practices be used due to the terrain

in this project area. Spring rain events are common and tend to cause severe run-off. Fall seeding will allow any moisture, whether rain or snow, to assist the seed into the ground.

Other Practices: Other practices that will be utilized to reclaim disturbed areas will include riprap when and if necessary to prevent erosion and the installation of silt fencing in sensitive and/or erosive areas.

Timetable: Reclamation of the surface will commence as soon thereafter construction, drilling and well completion are concluded, as is practicable, depending on weather. In the event of a dry hole, the drill site and roadways will be restored to their original condition as nearly as practicable within 180 days after plugging date of the well.

X. SURFACE OWNERSHIP

The surface of the proposed well site is federally owned and is administered by the Bureau of Land Management, United States Department of Interior.

XI. WELLSITE LAYOUT

Please see the attached "Well Site Location Layout" (Attachment B) for the well configurations.

XII. PIPELINES AND STREAM CROSSINGS

PIPELINES: In the event of hydrocarbon production requiring transmission by pipeline, the proposed pipeline(s) will be designed, constructed, tested, operated and maintained in accordance with standard safety practices and by a combination of construction techniques intended to minimize to the greatest extent practical the impacts upon natural resources.

Pipelines will typically be installed by trenching. In these trenched areas, the contractor shall strip and stockpile topsoil to be replaced over the backfill portion upon completion of construction operations. Silt fencing will be installed at all stream crossings.

The proposed pipelines will be constructed with a combination of methods intended to minimize impacts to private, state and federally owned property, county roads and natural resources. The pipeline will be constructed by a combination of conventional construction techniques and special measures designed to minimize impacts to natural resources. Pipelines will be adequately compacted before the topsoil is replaced for re-seeding.

In general and where required, soil erosion control measures will consist of appropriate BMPs (Best Management Practices) to reduce the potential for erosion. The BMPs that will be utilized in upland areas include use of construction barriers where appropriate, land clearing, spoil piles, staging and scheduling, seeding and mulching. Note that spoil piles will not typically be seeded since exposure of the spoil piles should be minimal in time. All other proper BMP measures will be implemented to reduce the potential for erosion. Seeding of all raw soils after burial of pipe will be performed. However, mulching will be performed only within state or county road right-of-ways.

Generally speaking, in wetlands, appropriate BMPs will be implemented to minimize the potential for soil erosion and point source pollution within wetland construction zones. These measures shall include, but not be limited to, clearing, barriers, staging, filters, silt fencing, spoil piles, dewatering, seeding, and mulching.

XIII. GENERAL

TIMELINE: The following is a general order of construction and sequence of earth change by which our operations will proceed:

- 1.) Access Road and Well Pad Construction
- 2.) Drilling and Well Completion Operations
- 3.) Initial Well Pad Restoration
- 4.) Clearing of Pipeline Rights-of-way (if needed)
- 5.) Delivery and Layout of Pipe
- 6.) Pipe Welding and Inspection
- 7.) Trenching of Pipe
- 8.) Placement and Burying of Pipe
- 9.) Final Restoration of Site/Access/Pipeline Route
- 10.) Re-Seeding

All hillsides, creek banks, and other places where contractor has moved earth to facilitate operations shall be restored to as near original condition as practical. Replaced material and/or backfill will be protected from erosion to the satisfaction of Wolverine, the Bureau of Land Management and the Utah Division of Oil, Gas and Mining without undue delay.

Upon completion of any backfill, contractor shall clear pipeline rights-of-way and access routes of large rocks, stumps and other debris; fill holes, ruts and depressions, and shall keep the access road in a neat and acceptable condition. All cleanup shall be maintained by the contractor until final acceptance by Wolverine and the enforcing agency.

XIV. ENVIRONMENTAL IMPACT ASSESSMENT:

It is anticipated that the drilling and operations planned, provided the success of this well, will not have any adverse affects to any wildlife or aquatic life in the area. There will be only a minor effect on the surface cover. Drilling and production operations should have minimal effect on the population patterns, land use, public utilities or public services in the near future for this rural area.

Noise levels during drilling and completion operations may be continuous but not unusually high. If production is achieved, noise levels should be minimal during the operation and maintenance of the wells.

Necessary soil erosion and sedimentation safeguards will be built into the well pad, access and future proposed pipeline routes to protect any nearby lowlands, where appropriate. Particular care will be exercised in order that all drain ditches be maintained and kept unobstructed to prevent water backup against spoil banks or backfill, causing erosion. The cumulative long-term effect on the immediate environment should be minimal.

If the well is productive, the effect on the air quality in the area is expected to be practically non-existent. Human activity in this area is somewhat limited, due to the nature of the location. Ranching operations and any activities in the area should not be adversely affected.

The site will then be contoured as closely as practical to its natural state, fine graded and stabilized. The well site and access route will be restored as soon as practical. If a well is productive, existing dikes will be maintained and erosion control procedures, as specified and required by the Bureau of Land Management, will be followed to insure protection of the local ecosystem.

Cultural

Please see, "Attachment E", Cultural Resource of A Well Pad and Access Route Near Sigurd, Sevier County, Utah.

*Project Plan of Development & Surface Use Plan
Wolverine Gas & Oil Company of Utah, LLC
Wolverine Federal #20-1*

Wildlife

Please see "Attachment D", a summary of Wildlife and Vegetative Species of Concern.

XV. SUMMARY:

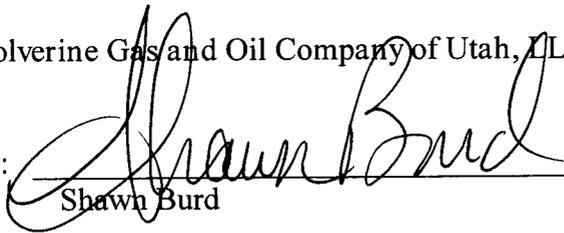
In conclusion, the environmental impact of this project is considered to be minimal and every effort will be made to ensure the protection and preservation of the environment, as well as the standard of living for those affected by its operation.

This proposed project is aimed at increasing the hydrocarbon reserves within the State of Utah. In addition, in the event that production can be established in this project, it will be of financial benefit to the private holders of oil and gas rights within the "Wolverine Federal Exploration Unit", including the Bureau of Land Management in fulfillment of its stewardship responsibilities over federally owned oil and gas assets. We consider the environmental impact of this project to be slight and we will make every effort to be conscientious operators and to insure protection and preservation of the environment during the course of our drilling and producing operations.

Sincerely,

Wolverine Gas and Oil Company of Utah, LLC

By: _____



Shawn Burd

Authorized Permitting Agent:

Western Land Services – Western Division
54 West Seymour Street
Sheridan, WY 82801
Donald L. Anderson, Chief Operating Officer
Phone: 307-673-1817
Local Contact: Shawn Burd
Phone: 435-896-1943



OLENE S. WALKER
Governor
GAYLE F. McKEACHNIE
Lieutenant Governor

State of Utah

DEPARTMENT OF NATURAL RESOURCES
Division of Water Rights

ROBERT L. MORGAN
Executive Director

JERRY D. OLDS
State Engineer/Division Director

April 12, 2004

Kings Meadow Ranches
C/O Mack Dastrup
P.O. Box 570125
Sigurd, UT 84657

RE: TEMPORARY CHANGE APPLICATION
t28851

Dear Sir:

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

- ◆ The total amount of water diverted from Kings Meadow Creek will be limited to 14.0 acre-feet of water for uses associated with gas well drilling from May 30, 2004 to May 30, 2005. The historically irrigated land totaling 4.667 acres will not be irrigated.

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

Sincerely,

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

JO/KF/cr
enclosure

APPLICATION FOR TEMPORARY CHANGE OF WATER

DIVISION OF WATER RIGHTS Rec. by KF
Fee Paid \$ 75.00

STATE OF UTAH APR 7 2004 Receipt # 04-01540

ck # 2516

Microfilmed _____
RICHFIELD AREA Roll # _____

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

*WATER RIGHT NO. 63 2529 *APPLICATION NO. 28851

Changes are proposed in (check those applicable)

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

1. OWNER INFORMATION

Name: Kings Meadow Ranches - Evan Dastrup *Interest: _____%

Address: P.O. Box 116

City: Sigurd State: Utah Zip Code: 84657

2. *PRIORITY OF CHANGE: 4/7/04 *FILING DATE: 4/7/04

3. RIGHT EVIDENCED BY: A Portion 63-2529

Prior Approved Temporary Change Applications for this right: _____

***** HERETOFORE *****

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

5. SOURCE: Kings Meadow Creek

6. COUNTY: Sevier

7. POINT(S) OF DIVERSION: S 1,011', E 1,711' from NW corner of Section 28, T23S, R1W

Description of Diverting Works: Kings Meadow Creek

8. POINT(S) OF REDIVERSION

The water has been rediverted from _____ at a point: _____

Description of Diverting Works: _____

9. POINT(S) OF RETURN

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

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

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

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

10. NATURE AND PERIOD OF USE

Irrigation: From 0-01 to 10/31
Stockwatering: From 01/01 to 12/31
Domestic: From 01/01 to 12/31
Municipal: From to
Mining: From to
Power: From to
Other: From to

11. PURPOSE AND EXTENT OF USE

Irrigation: 4.667 acres. Sole supply of acres.
Stockwatering (number and kind):
Domestic: Families and/or Persons.
Municipal (name):
Mining: Mining District in the Mine.
Ores mined:
Power: Plant name: Type: Capacity:
Other (describe):

12. PLACE OF USE

Legal description of place of use by 40 acre tract(s): Section 20, T23S, R1W, SE/4, SLBM

13. STORAGE

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

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

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

15. SOURCE: Kings Meadow Creek

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

16. COUNTY: Sevier

17. POINT(S) OF DIVERSION: S 869', W 1,901' from SW corner of Section 17, T23S, R1W, SLBM

Description of Diverting Works:
*COMMON DESCRIPTION:

18. POINT(S) OF REDIVERSION

The water will be rediverted from at a point:

Description of Diverting Works:

19. POINT(S) OF RETURN

The amount of water to be consumed is cfs or ac-ft.
The amount of water to be returned is cfs or ac-ft.
The water will be returned to the natural stream/source at a point(s):

20 NATURE AND PERIOD OF

Irrigation: From ___/___/___ to ___/___/___
Stockwatering: From ___/___/___ to ___/___/___
Domestic: From ___/___/___ to ___/___/___
Municipal: From ___/___/___ to ___/___/___
Mining: From ___/___/___ to ___/___/___
Power: From ___/___/___ to ___/___/___
Other: From 05/30/04 to 05/30/05

21. PURPOSE AND EXTENT OF USE

Irrigation: _____ acres. Sole supply of _____ acres.
Stockwatering (number and kind): _____
Domestic: _____ Families and/or _____ Persons.
Municipal (name): _____
Mining: _____ Mining District at the _____ Mine.
Ores mined: _____
Power: Plant name: _____ Type: _____ Capacity: _____
Other (describe): Use water for gas well drilling

22. PLACE OF USE

Legal description of place of use by 40 acre tract(s): Section 17, T23S, R1W, SE/SW, SLBM

23. STORAGE

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

24. EXPLANATORY

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

Mack Dastrup (435) 896-5206 Kenneth Dastrup (435) 896-8759
P.O. Box 570125 P.O. Box 570056
Sigurd, Utah 84657 Sigurd, Utah 84657

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

Mack Dastrup
Signature of Applicant(s)

Wolverine Federal #20-1

The Wolverine Federal #20-1 wellsite is located approximately 4.2 miles southeast of the town of Sigurd in Township 23 South - Range 1 West, Section 20: Northwest Quarter of the Northwest Quarter (NW/NW) Salt Lake Base and Meridian in Sevier County, Utah.

The proposed Wolverine Federal #20-1 is situated adjacent to Highway 24 in a gentle rolling plains with hilly terrain on the west side. Plant habitat types within the area consist of a combination of Pinyon Pine– Juniper, located on the hillsides, and sagebrush – grass communities in the less gradient areas.

THE PROPOSED ACTIONS

The proposed depth is 7,050 feet for the Wolverine Federal #20-1 well. The well pad dimensions will be approximately 300 feet by 325 feet. The access road was constructed by initially using fill material and covering it with approximately 8 inches of shale/gravel. Another layer of road base material, approximately 4 inches in depth, will be placed on top of the shale/gravel.

WILDLIFE AND VEGETATIVE SPECIES OF CONCERN

Potential effects concerning federally endangered, threatened, proposed, candidate, sensitive, and management indicator wildlife and vegetative species has been evaluated in the proposed area of disturbance before any surface disturbing activities have occurred. It is understood that these activities and the proposed location will be monitored by a BLM staff or approved biologist. A habitat analysis has been completed to evaluate which species may occur in the area. Surface use guidelines will be followed as will surface use restrictions and time limit stipulations in the area of concern for all affected species.

It is understood that the Wolverine Federal #20-1 wellsite is situated within a designated critical deer wintering range. Proposed activities are not anticipated to occur during any such wintering range seasonal restrictions. There is also the possibility that small clumps of Penstemon plants may be located within this project area. Wolverine Gas and Oil Company of Utah, LLC will take all necessary steps to protect the species of concern and as stipulated by the Bureau of Land Management.

**Cultural Resource Inventory of A Well Pad and Access Route Near Sigurd, Sevier
County, Utah**



**Jason Bright
Mountain States Archaeology
7190 South State Street
Midvale, Utah 84047**

**Project Number U-04-MV-0262b
BLM Permit UT0380011**

April 5, 2004

Cultural Resource Inventory of A Well Pad and Access Route Near Sigurd, Sevier County, Utah

Project Description

In March 2004, Western Land Services contracted Mountain States Archaeology to perform Class III cultural resource inventory of a small well pad and access route in Sevier County, Utah on behalf of Wolverine Oil and Gas.

The well pad and access route are located in Township 23 South Range 1 West, SW Section 17 (Figure 1). A records search was performed for this project on March 2, 2004 at Utah SHPO. Upon returning the BLM Project Authorization, Craig Harmon at the Richfield BLM office forwarded records search information on March 26th, 2004. Fieldwork was completed March 28th 2004.

Records Search

The SHPO records search found no previously completed inventories or previously recorded sites within one mile of the well pad. The records search information provided by Craig Harmon (Richfield Field Office, BLM) found only U89BL464 which was the Sigurd/Kings Meadow Power Line. No sites were found on this project.

Methods

The parcel and access route were staked out prior to fieldwork. A crew of two inventoried the access route with one individual walking its staked centerline from Highway 24 to the well pad with another individual 15 meters south and west of the centerline, and walked back to the road along the centerline with an individual 15 meters to the north and east. Thus, the centerline was walked twice and the remainder of the corridor was walked once. The well pad was inventoried with the same crew of two individuals in parallel transects 15 meters apart. Upon completion, the boundary of the well pad was walked with a GPS unit to produce the map in Figure 1. The crew used a Trimble GeoXM .

Environment

The project location is located just west of highway 24, approximately 4 miles south of Sigurd, Utah. Ground visibility was good within the well pad and along the access route. Two steep drainages cut the parcel along its eastern and southern boundaries. Vegetation is composed sagebrush with various bunch grasses and forbs. Sediments are a light brown sand and silt.

Results

No cultural resources were located within the well pad or access route. This includes archaeological sites and isolated finds.

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

Wolverine Federal #20-1
NW NW SEC 20-T23S-R1W
SEVIER CO., UTAH

BRIEF DRILLING PLAN

Due to surface topography constraints, directionally drill a 7050' MD (6650'TVD) test of the Navajo 1 formation on a day work contract basis from Wolverine's present work area known as Drill Pad B-1 located in Sec 17 T23S – R01W, Sevier Co, UT. Please refer to the directional drilling plan attached for detailed hole angle, trajectory and target information. Deviation is the primary drilling concern in this area. No abnormal pressure or hydrogen sulfide gas is expected, however, an H2S detector will be utilized. The projected surface and bottom hole locations are to be as follows:

Surface Location: 833' fsl & 1925' fwl of Sec 17 T23N – R01W
 BHL @ top of NVJO1 (6035' TVD) 660' fnl & 660' fwl of Sec 20 T23N – R01W

14" conductor casing will be cemented to surface at approximately 80 ft BGL. 9-5/8" surface casing will be set & cemented to surface in a 12-1/4" hole deviated to approximately 10 deg at +/-1509' (+/-1500' TVD). An 8-3/4" hole will then be drilled to +/- 7050' (6650' TVD). 5-1/2" production casing will then be set & cemented to 500' into the surface casing.

EMERGENCY NUMBERS

Sevier Valley Medical Center	(435)-896-8271
Medical Helicopter	(800)-453-0120
Sheriff Department	(435)-896-2600
Fire Department-Richfield, UT	(435)-896-5479
Bureau of Land Management (Richfield):	(435)-896-1500
Bureau of Land Management (Salt Lake City)	(801) 539-4045
Utah Division of Oil, Gas and Mining (Salt Lake City):	(801)-538-5340

Bureau of Land Management;

Contact Al McKee with BLM (801) 539-4045 24 hrs prior to 1) spudding, running and cementing all casing strings 2) Pressure testing of BOPE or any casing string 3) Pressure integrity test (mud weight equivalency test) of each casing shoe.

NOTE: Ensure the rig, the cementing and testing procedures ALL comply with BLM and Onshore Oil and Gas Order No.2, requirements .

Utah Division of Oil, Gas and Mining

Contact Carol Daniels (801) 538-5284, 24 hrs prior to spudding

GENERAL INFORMATION

OBJECTIVE: Navajo 1 @ 5935' (TVD)

ELEVATION: 5835' GL (est)

PROJECTED TOTAL DEPTH:

7,050 MD; 6650' TVD

SURFACE LOCATION:

833' FSL & 1975' FWL
Section 17-23S-1W

COUNTY: Sevier

STATE: Utah

DIRECTIONS TO LOCATION:

From town of Sigurd, Utah go south approximately 4.5 miles on Hwy #24 to location on the right side of road.

PROPOSED CASING PROGRAM:

Hole Size	Casing Size	Wt./Ft.	Grade	Joint	Measured Depth Set
	14"				80'
12¼"	9-5/8"	36#	J-55	STC	0'-1,510'
8-3/4"	5½"	17#	L-80	LTC	0'-7,050'

Hole Size	Casing Size	Drift ID, in.	OD of Couplings	Annular Volume in OH, cf/ft	Annular Volume in Csg, cf/ft	Capacity of casing, cf/ft
	14"					
12¼"	9-5/8"	8.379	10.625	0.3127	0.4659	0.4340
8-3/4"	5½"	4.767	6.050	0.2526	0.2691	0.1305

GEOLOGIC INFORMATION:

Formation	Interval (TVD)	Interval (MD)	Lithology	Prod	Abnormal Psi
Arapien	Surf – 5639'	Surf – 5995'	Shale, siltstone, salt, evaporites		
TwinCreek1	5639' - 5935'	5995' – 6310'	Carbonates		
Navajo 1	5935' - 6450'	6310' – 6850'	Sandstone w/ minor shale	X	
Total Depth	6650'	7050'	Sandstone w/ minor shale		

CONSTRUCTION OF SURFACE LOCATION

325'x 175' Pad
 225'x 125' x 10' Reserve Pit with a 12 mil synthetic liner
 72" diameter tin horn cellar, 4' to 5' deep.
 Flare pit a minimum of 100' from wellhead.

SURFACE HOLE: 0' to 1510'

Directionally drill a 12-1/4" hole with a TCI rock bit, mud motor & MWD equipment to approximately 1510' using fresh water and gel/lime sweeps when necessary (make hole to fit 9-5/8" casing). Loss circulation is not expected to be a problem in this interval. If losses do occur, begin pumping LCM sweeps. If loss circulation cannot be healed with +25 ppb LCM, consider dry drilling (no returns). Run survey at every 200' and at TD or as needed to insure bottom hole location.

PRESSURE CONTROL & SAFETY EQUIPMENT FOR SURFACE HOLE

Bottom to Top

14" x 13-5/8" 3M weld on flange
 13-5/8" 3M x 13-5/8" 3M spacer spool w/ 3" outlets & valves.
 13-5/8" 3M Annular preventer, connected to accumulator with enough capacity to close annular and retain 200 psi above pre-charge pressure
 13-5/8" Drilling Nipple with fill up and circulating line.
 Upper kelly cock valves with handles available

Test Annular to 1500 psi. Test all valves and lines.

MUD PROGRAM FOR SURFACE HOLE

<u>DEPTH</u>	<u>MUD WEIGHT</u>	<u>TYPE</u>	<u>VISC</u>	<u>PH</u>	<u>FLUID LOSS</u>
0 -1510'	8.4 – 8.9	FW/Gel/Lime	26-45	7-9	N/C

Note: Sweep hole every 100 – 200 feet or as needed for hole cleaning. Control the pH with Lime & Caustic to aid in gel flocculation for better carrying capacity.

CASING PROGRAM FOR SURFACE HOLE

<u>DEPTH</u>	<u>SIZE</u>	<u>LENGTH</u>	<u>WT</u>	<u>GRADE</u>	<u>THREAD</u>	<u>REMARKS</u>
0 - 1510'	9 5/8"	1510'	36#	J-55	ST&C	

Casing Running Sequence:

Texas pattern notched guide shoe,

1 jt of 9 5/8" 36# J-55 ST&C

Float collar

Balance of 9-5/8" 36# J-55 ST&C

10 – centralizers equally spaced.

RU cement co., hold safety meeting, test lines, cement 9-5/8" casing per cement company recommendation. Displace with fresh water or mud if used. *Do not overdisplace cement.*

CEMENTING PROGRAM FOR SURFACE HOLE

Lead:

360 sx 35:65 Poz: Class C or type 5
 6% Bentonite
 1% Calcium Chloride
 0.25 lb/sx Cello Flake

Mixed at: 12.8 ppg
 Yield: 1.78 ft³/sx
 Water: 9.42 gal/sx

Tail:

280 sx Class G
 2% Calcium Chloride
 .25 lb/sx Cello Flake

Mixed at: 15.6 ppg
 Yield: 1.20 ft³/sx
 Water: 5.25 gal/sx

MUST CIRCULATE CEMENT TO SURFACE per BLM requirements. If the cement does **not** circulate to surface contact the BLM office at (435) 896-1500. They will require either a temperature survey or a cement bond log to be run, then determine what remedial action will be taken before drilling out.

WOC A TOTAL OF 24 HOURS:

Wait 4 hours with the hydrostatic pressure of the displacement fluid in place, then cut off conductor and weld on an 11" 3M x 9-5/8" SOW casing head. NU BOPE and choke manifold.

**PRESSURE CONTROL AND SAFETY EQUIPMENT FOR
PRODUCTION STRING**

Bottom to Top

- 11" 3M x 9-5/8" csg head.
- 11" 3M x 11" 3M spacer spool
- 11" 3M Double Ram Preventer w/ 4-1/2" Pipe ram on top and blind ram on bottom. Two side outlets, choke side will have two 3" x 3M gate valves. Kill side will have two 2-1/16 x 3M gate valves and one 2" x 3M check valve. Connect BOP to choke manifold with pressure guage.
- 11" 3M Annular preventer.
- 11" 3M short rotating head with fill-up line

Upper kelly cock valves with handles available
Safety valves and subs to fit all drill string connections in use
Inside BOP or float sub available

Testing Procedure:

Annular Preventer

The annular preventer will be pressure tested to 1500 psi for a period of ten minutes or until provisions of the test are met, whichever is longer. At a minimum, the pressure test will be performed:

- 1) When the annular is initially installed
- 2) Whenever any seal subject to test pressure is broken
- 3) Following related repairs and at 30 day intervals

The annular preventer will be functionally operated once per week.

Blowout Preventer

The BOP, choke manifold and related equipment will be pressure tested to 2500 psi, 70% of the internal yield of the casing. Pressure will be maintained for a period of at least ten minutes or until the requirements of the test are met, whichever is longer. At a minimum the pressure test will be performed:

- 1) When the BOP is initially installed
- 2) Whenever any seal subject to test pressure is broken
- 3) Following related repairs and at 30 day intervals

The pipe and blind rams will be activated each trip, but not more than once each day. All BOP drills will be recorded in the IADC driller's log.

Accumulator:

The accumulator will have sufficient capacity to open the hydraulically controlled gate valve (if so equipped), close all rams plus the annular preventer, and retain a minimum of 200 psig above pre-charge on the closing manifold without the use of the closing unit pumps. The reservoir capacity will be double the accumulator capacity, and the fluid level will be maintained at the manufacturer's recommendations. The accumulator shall have 2 independent power sources to close the preventers. Nitrogen bottles may be one of the independent power sources and, if so, shall maintain a charge equal to the manufacturer's specifications.

The accumulator pre-charge pressure test will be conducted prior to connecting the closing unit to the BOP stack and at least once every six months thereafter. The accumulator pressure will be corrected if the measured pre-charge pressure is found to be above or below the maximum or minimum limits specified in Onshore Oil & Gas Order Number 2 (only nitrogen gas may be used to pre-charge).

Choke Manifold Equipment, Valves and Remote Controls

All choke lines will be straight lines unless turns use tee blocks or are targeted with running tees, and will be anchored to prevent whip and vibration

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 will be maintained in the open position and will be closed only when the power source for the accumulator is inoperative.

Remote controls shall be readily accessible to the driller. Remote controls will be capable of both opening and closing all preventers. Master controls will be at the accumulator and will be capable of opening and closing all preventers and the choke line valve (if so equipped).

The choke manifold and BOP extension rods with hand wheels will be located outside the rig sub structure. The hydraulic BOP closing unit will be located at least twenty-five feet from the well head but readily accessible to the driller. Exact locations and configurations of the hydraulic BOP closing unit will depend upon the particular rig contracted to drill this well.

A flare line will be installed after the choke manifold, extending 125 feet from the center of the drill hole to a separate flare pit.

PRODUCTION HOLE: 1,510' TO 7,050'

Trip in the hole with an 8 3/4" insert bit, mud motor & MWD. Drill float, shoe and 20' of new hole. Perform an integrity test to 820 psi (10.5 ppg mud wt equivalent). Drill with a salt saturated mud to the top of the Twin Creek formation.

MUD PROGRAM FOR PRODUCTION HOLE

<u>DEPTH</u>	<u>MUD WEIGHT</u>	<u>TYPE</u>	<u>VISC</u>	<u>pH</u>	<u>FLUID LOSS</u>
1510' - 5900'	9.8 - 10.3	Saturated Salt	34-45	9.0-10.0	20cc or Less
5900' - 7050'	9.8 - 10.3	Saturated Salt	36-45	9.0-10.0	12cc or Less

Add bulk salt to increase weight to 9.8 ppg. Maintain the pH at 9.0 to 10.0 using lime and caustic. Walk viscosity up to 34 cp. Start bringing fluid loss up to 20 cc. If loss circulation becomes a problem use LCM sweeps to control seepage & clean hole.

EVALUATION PROGRAM FOR PRODUCTION HOLE

At TD, circulate and condition hole clean for logs. Short trip to the last bit trip depth monitoring well closely for flow. TOH for logs.

Mudlogger: From surface casing to total depth.

Electric Logs:

Tool	Surf csg to TD
Dipole Sonic w/ GR	Yes
Dual laterolog and microlog w/ GR & Caliper	Yes, GR to surf
LithoDensity/Neutron w/ GR & Caliper	Yes
Micro Imaging Dipmeter	Yes

DST: To be decided

Cores: To be decided

CASING PROGRAM FOR PRODUCTION HOLE

<u>DEPTH</u>	<u>SIZE</u>	<u>LENGTH</u>	<u>WT</u>	<u>GRADE</u>	<u>THREAD</u>	<u>REMARKS</u>
0' – TD'	5 ½"	7050'	17.0#	L-80	LT&C	

Rig up casing tools and run 5 ½" production casing as follows:

Float shoe

2 joint of 5 ½" 17.0# L-80 LT&C casing

Float collar

28 Centralizers, middle shoe joint and one every other joint to 5000'.

Run balance of 5 ½" 17.0# L-80.

CEMENT PROGRAM FOR PRODUCTION CASING**Lead:**

750 sx (50:50) Poz: Premium

3 % Bentonite

0.4% Halad R-567 (Low Fluid Loss Control)

15 % Salt

5 lbm/sk Gilsonite

0.3% D-AIR 3000 (Defoamer)

0.25 lb/sx Flocele

Weight: 13.0 ppg

Yield: 1.76 ft³/sx

Water: 8.44 gal/sx

Tail:

350 sx (50:50) Poz: Premium

2 % Bentonite

0.2% Halad R-322 (Low Fluid Loss Control)

3 % KCLSalt

3 lbm/sk Silicate Compacted (light Weight Additive)

1 lbm/sk Granulite TR ¼ (Lost Circulation Additive)

0.2% WG-17 (Suspension Agent)

0.25 lb/sx Flocele

Weight: 13.4 ppg

Yield: 1.49 ft³/sx

Water: 7.09 gal/sx

TOC at ± 1,000 ft

Calculate cement volume based on log caliper +/- 20%. Displace cement w/water.

Set slips, ND BOP's, cut off, NU & test wellhead. Clean pits and release rig.

SCHEDULE

Location preparation is presently scheduled to begin on or about August 15, 2004

Drilling operations are anticipated to begin on or about March 1, 2004

end

BOND STATEMENT

Bond coverage pursuant to 43 CFR 3104 for lease activities is being provided by Wolverine Gas and Oil Company of Utah, LLC with their Bond, filed with Bureau of Land Management in the amount of \$25,000.

The Bond Number is WY3329

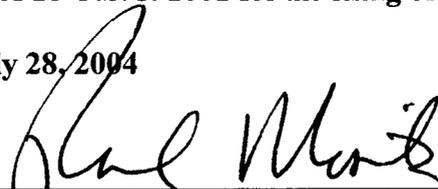
OPERATOR'S REPRESENTATIVE AND CERTIFICATIONS

The responsible field representative for the Wolverine Federal #20-1, on behalf of Wolverine Gas and Oil Company of Utah, LLC, is Steve Hash, PE, available via Wolverine Gas and Oil Company of Utah, LLC, One Riverfront Plaza, 55 Campau NW, Grand Rapids, MI 49503. (616) 458-1150.

I hereby certify that I, or persons under my direct supervision, have inspected the drill site and access route; that I am familiar with the conditions that currently exist; that the statements made in this plan are, to the best of my knowledge, true and correct; and that the work associated with operations proposed herein will be performed by Wolverine Gas and Oil Company of Utah, LLC and its contractors and subcontractors in conformity with this plan and the terms and conditions under which it is approved. This statement is subject to the provisions of 18 U.S.C. 1001 for the filing of a false statement.

Date: July 28, 2004

Name and Title:


Richard Moritz, Vice-President, Land and Legal

OPERATOR RIDER

This rider is being submitted to comply with 43 CFR 3104.2 which states "... The operator on the ground shall be covered by a bond in his/her own name as principal, or a bond in the name of the lessee or sublessee, provided that a consent of the surety, or the obligor in the case of a personal bond, to include the operator under the coverage of the bond is furnished to the Bureau of- fice maintaining the bond."

The obligor hereby agrees to extend the coverage of their bond to include liabilities for operations conducted by Wolverine Gas and Oil Company of Utah, LLC and Wolverine Gas and Oil Company of Wyoming, LLC/ on Federal oil and gas leases.

Coverage includes the performance of all lease obligations, both past and future, including the responsibility to properly plug and abandon any and all wells, including related surface restoration, and to pay any outstanding rentals or royalties due.

This coverage of operations shall continue whether or not the lease subsequently expires, termi- nates, is canceled, or relinquished; provided, however, that this rider shall not act to increase the actual cumulative or potential liability of the obligor above the face amount of the bond.

Executed this 3rd day of March, 2004.

Witness:

Evelyn Teigen
Evelyn Teigen

One Riverfront Plaza, 55 Campau NW
Grand Rapids, MI 49503-2616
Address of witness

Wolverine Gas and Oil Corporation
Obligor

Gary R. Blecker
For Obligor: Gary R. Blecker
Vice President and COO

One Riverfront Plaza, 55 Campau NW
Grand Rapids, MI 49503-2616
Obligor's address

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

July 26, 2004

United States Department of the Interior
Bureau of Land Management
Richfield Field Office
150 East 900 North
Richfield, Utah 84701

RE: Designated Agent Contact Information: Wolverine Federal #20-1

To Whom It May Concern:

Wolverine Gas and Oil of Utah, LLC (Wolverine) is designating Western Land Services, Inc. as Agent for the above captioned well. Questions, deficiencies and clarifications regarding this APD package should be directed to the following contacts with Western Land Services, Inc.:

Shawn Burd
(310 South 100 East, Richfield, UT 84701)
Richfield Office: 435-896-1943
Cellular Phone: 435-979-4689
E-mail: shawn.burd@westernls.com

OR:

Don Anderson
(54 West Seymour, Sheridan, WY 82801)
Office: 307-673-1817
E-mail: don.anderson@westernls.com

Approvals or other notifications should be directed to me at Wolverine and to the Agent named above. My contact information is contained within the letterhead address below (extension 119) and my e-mail address is: rmoritz@wolvgas.com

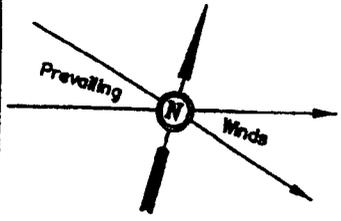
Sincerely,

Wolverine Gas and Oil Company of Utah, LLC

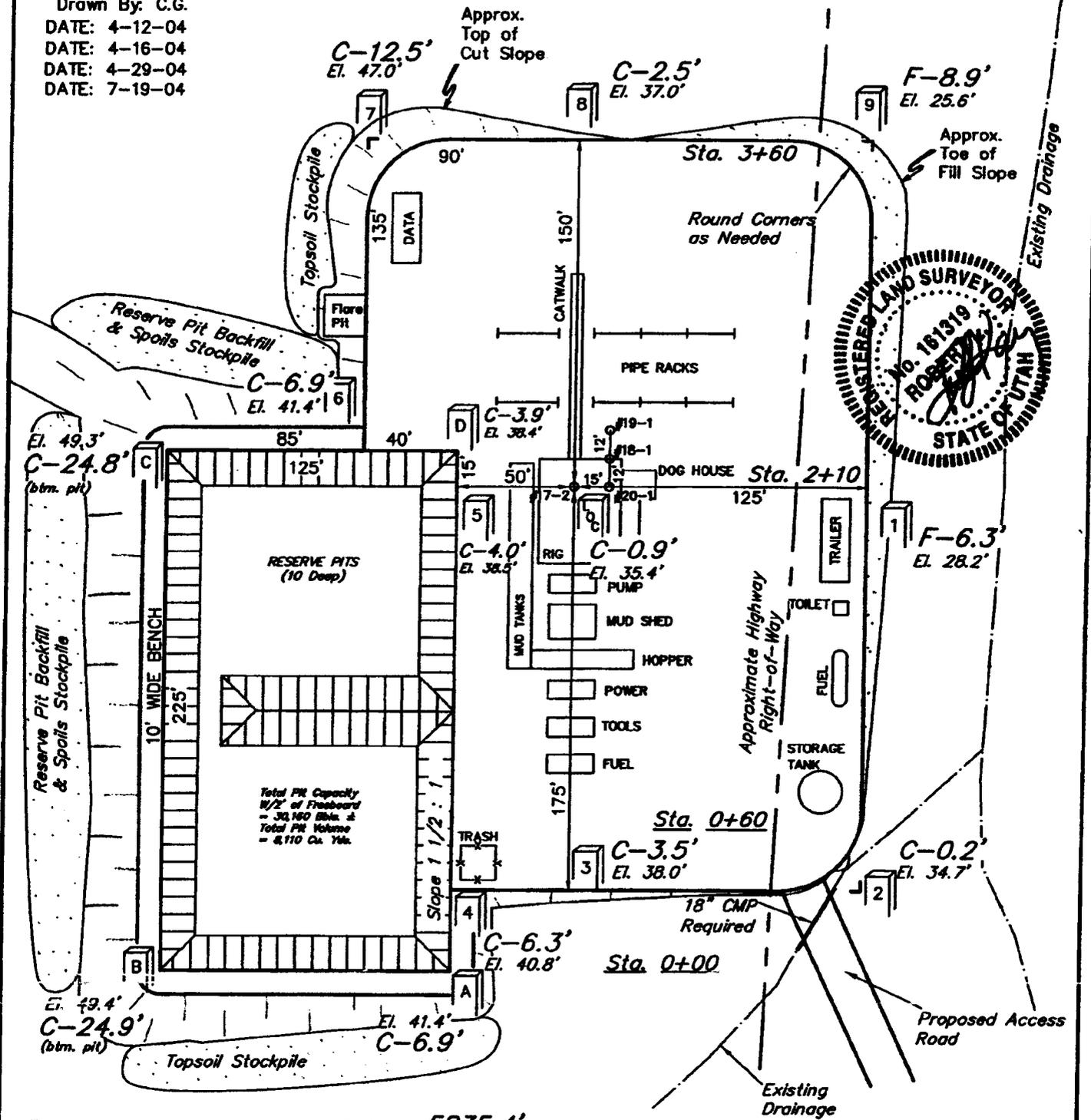
Richard D. Moritz
Vice-President, Land & Legal

WOLVERINE GAS & OIL CORP.
LOCATION LAYOUT FOR
WOLVERINE FEDERAL #20-1
SECTION 17, T23S, R1W, S.L.B.&M.
833' FSL 1925' FWL

FIGURE #1



SCALE: 1" = 60'
DATE: 3-10-04
Drawn By: C.G.
DATE: 4-12-04
DATE: 4-16-04
DATE: 4-29-04
DATE: 7-19-04



Elev. Ungraded Ground at Location Stake = 5835.4'
Elev. Graded Ground at Location Stake = 5834.5'

UINTAH ENGINEERING & LAND SURVEYING
85 So. 200 East • Vernal, Utah 84078 • (435) 789-1017

WOLVERINE GAS & OIL CO.

FIGURE #2

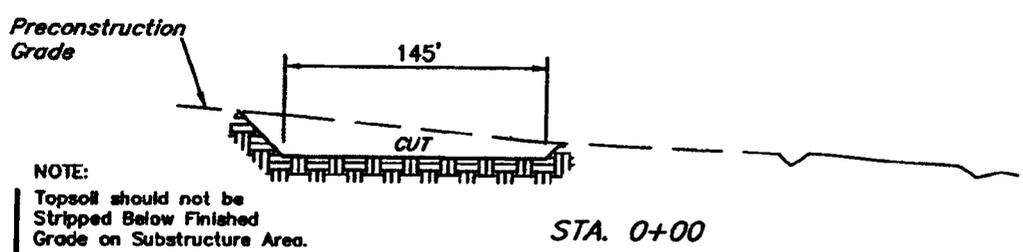
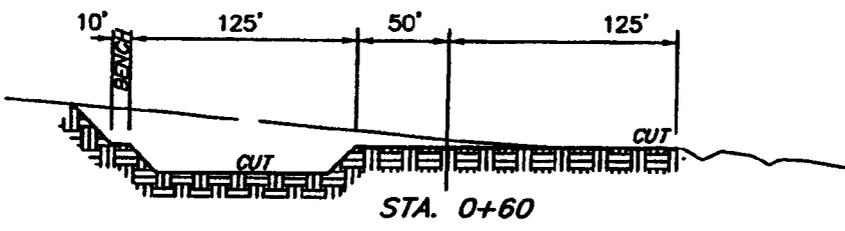
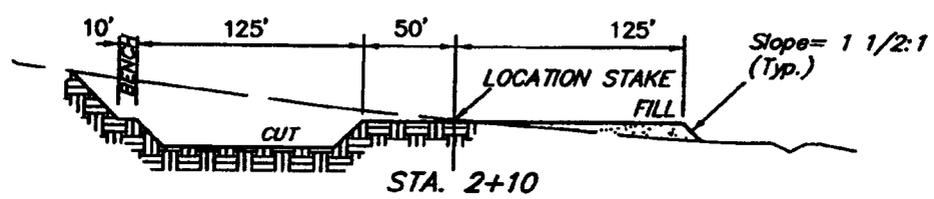
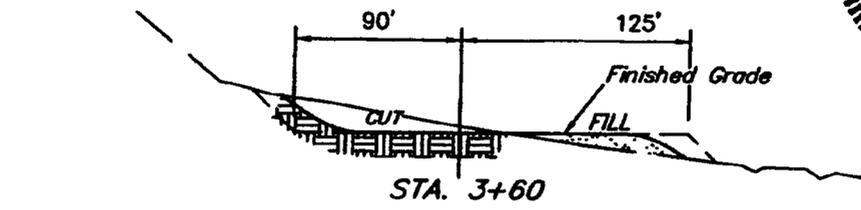
TYPICAL CROSS SECTIONS FOR

**WOLVERINE FEDERAL #20-1
SECTION 17, T23S, R1W, S.L.B.&M.**

833' FSL 1925' FWL

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

DATE: 3-10-04
Drawn By: C.G.
DATE: 4-12-04
DATE: 4-16-04
DATE: 7-19-04



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

* NOTE:
FILL QUANTITY INCLUDES 5% FOR COMPACTION

APPROXIMATE YARDAGES

CUT	
(6") Topsoil Stripping	= 2,240 Cu. Yds.
Remaining Location	= 25,900 Cu. Yds.
TOTAL CUT	= 28,140 CU.YDS.
FILL	= 4,980 CU.YDS.

EXCESS MATERIAL	= 23,160 Cu. Yds.
Topsoil & Pit Backfill (1/2 Pit Vol.)	= 6,300 Cu. Yds.
EXCESS UNBALANCE (After Rehabilitation)	= 16,860 Cu. Yds.

UINTAH ENGINEERING & LAND SURVEYING
85 So. 200 East • Vernal, Utah 84078 • (435) 789-1077

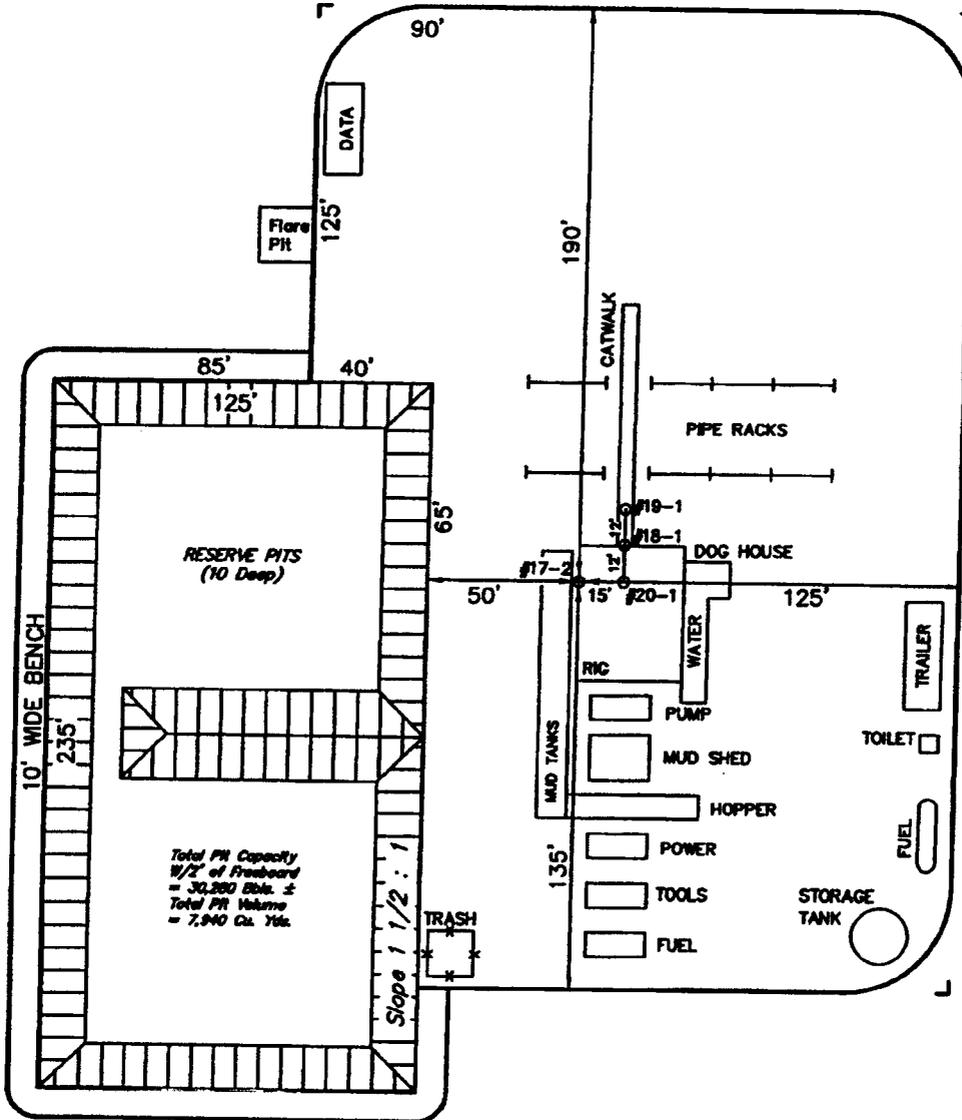
WOLVERINE GAS & OIL CORP.

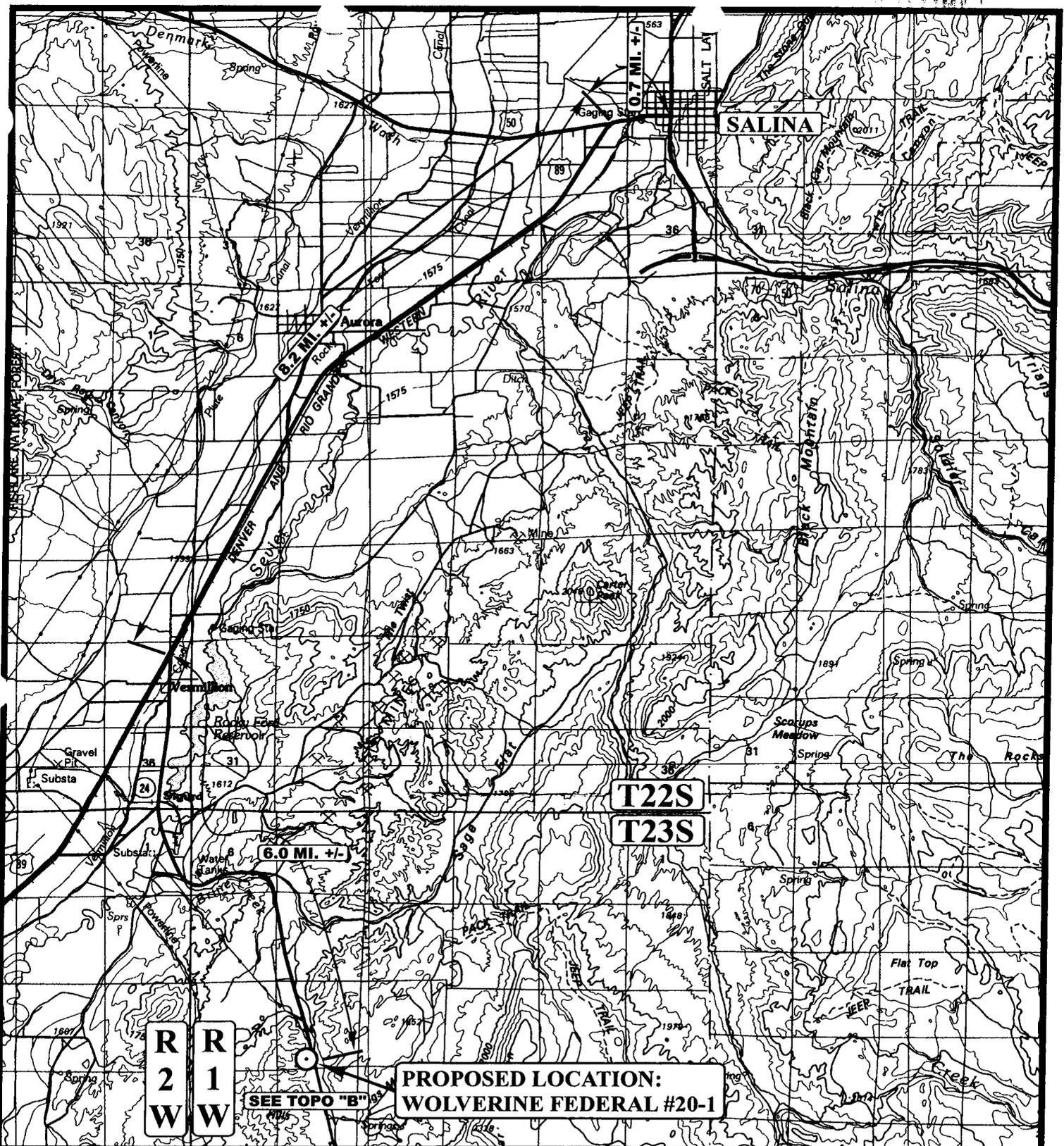
TYPICAL RIG LAYOUT FOR

WOLVERINE FEDERAL #20-1
SECTION 17, T23S, R1W, S.L.B.&M.
833' FSL 1925' FWL



SCALE: 1" = 60'
DATE: 6-17-04
Drawn By: C.G.
DATE: 7-7-04





**PROPOSED LOCATION:
WOLVERINE FEDERAL #20-1**

SEE TOPO "B"

**R
2
W** **R
1
W**

LEGEND:

○ PROPOSED LOCATION



WOLVERINE GAS & OIL CORP.

**WOLVERINE FEDERAL #20-1
SECTION 17, T23S, R1W, S.L.B.&M.
SE 1/4 SW 1/4**



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

TOPOGRAPHIC 07 15 04
MAP MONTH DAY YEAR
SCALE: 1:100,000 DRAWN BY: K.G. REVISED: 00-00-00



T23S

HIGHWAY 89 6.0 MI. +/-
SALINA 14.9 MI. +/-

PROPOSED LOCATION:
WOLVERINE FEDERAL #20-1

PROPOSED ACCESS 300' +/-

R
2
W

R
1
W

LEGEND:

- EXISTING ROAD
- - - PROPOSED ACCESS ROAD



WOLVERINE GAS & OIL CORP.

WOLVERINE FEDERAL #20-1
SECTION 17, T23S, R1W, S.L.B.&M.
SE 1/4 SW 1/4

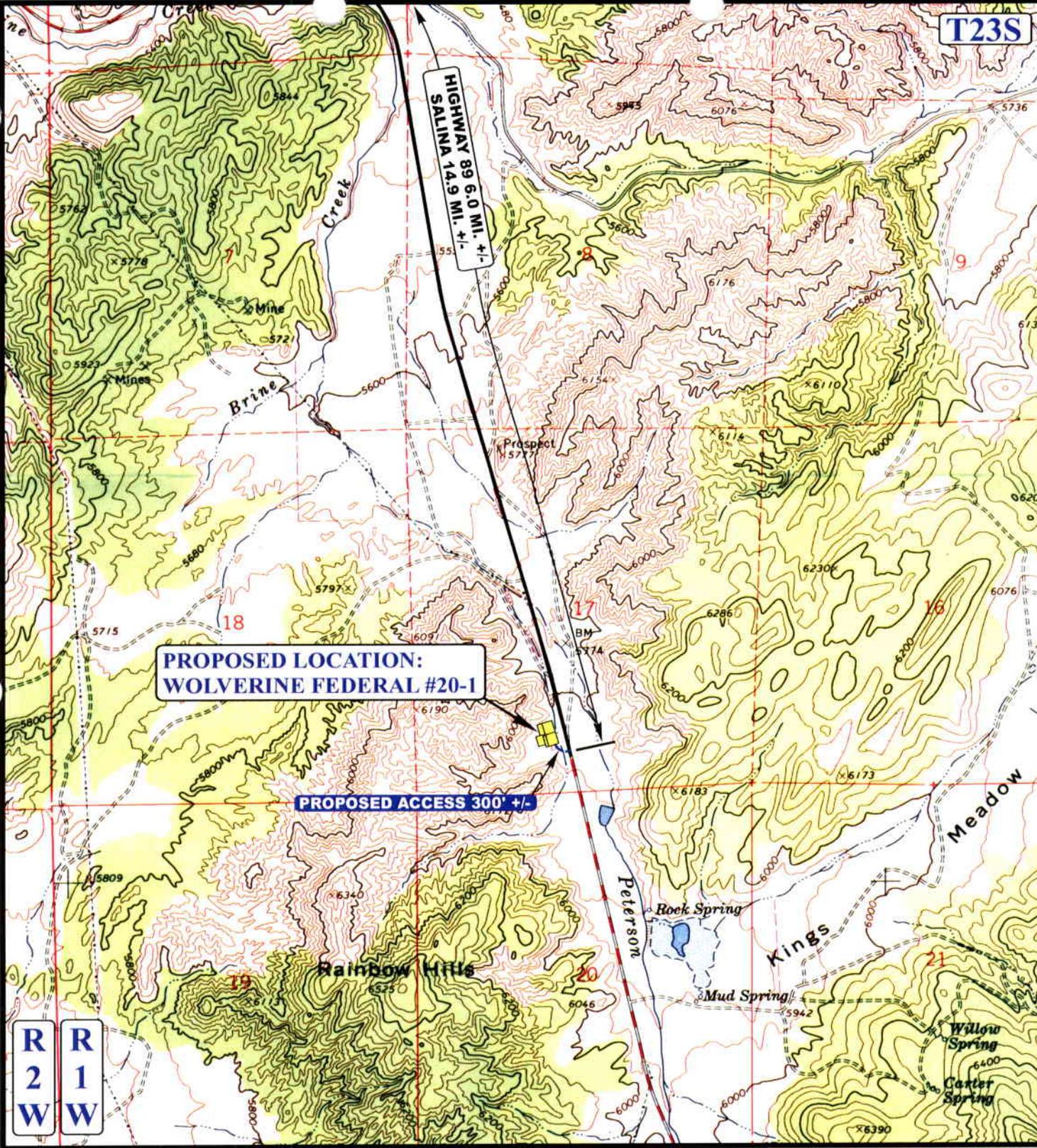


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TOPOGRAPHIC
MAP

07 15 04
MONTH DAY YEAR

SCALE: 1" = 2000' DRAWN BY: K.G. REVISED: 00-00-00





Wolverine Gas & Oil Co of Utah, LLC

Azimuths to True North
Magnetic North: 12.95°



Magnetic Field
Strength: 52136nT
Dip Angle: 64.57°
Date: 5/28/2004
Model: igr2000

Pad B-1
T23S R01W Sevier County, Utah
NW/4 SE/4 Sec 17

20-1 SFC Location
1925' FWL & 833' FSL Sec 17 23S 01W
Sevier County, UT

SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	DLeg	TFace	VSec	Target
1	0.0	0.00	220.27	0.0	0.0	0.0	0.00	0.00	0.0	
2	300.0	0.00	220.27	300.0	0.0	0.0	0.00	220.27	0.0	
3	1508.8	12.00	220.27	1500.0	-96.2	-81.5	0.99	220.27	126.1	
4	1878.2	23.08	220.27	1851.7	-181.0	-153.4	3.00	0.00	237.3	
5	6040.3	23.08	220.27	5680.5	-1426.0	-1208.2	0.00	0.00	1869.0	
6	6309.7	15.00	220.27	5935.0	-1493.0	-1265.0	3.00	180.00	1956.9	NVJ01 Ctr NW/4NW/4 Sec 20
7	7049.9	15.00	220.27	6650.0	-1639.2	-1388.8	0.00	0.00	2148.4	

TARGET DETAILS

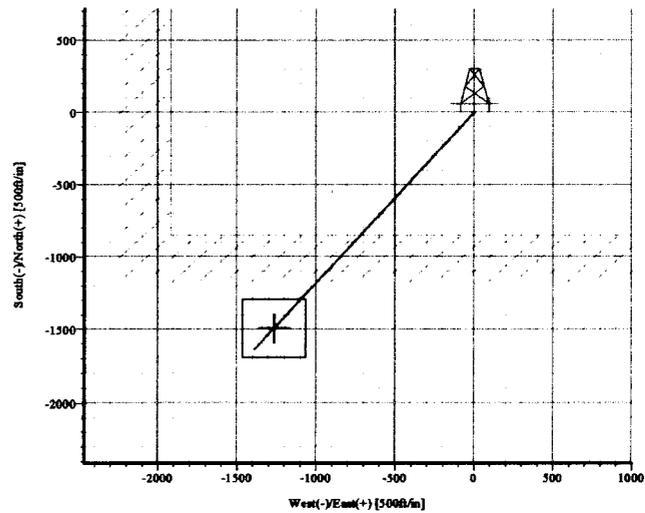
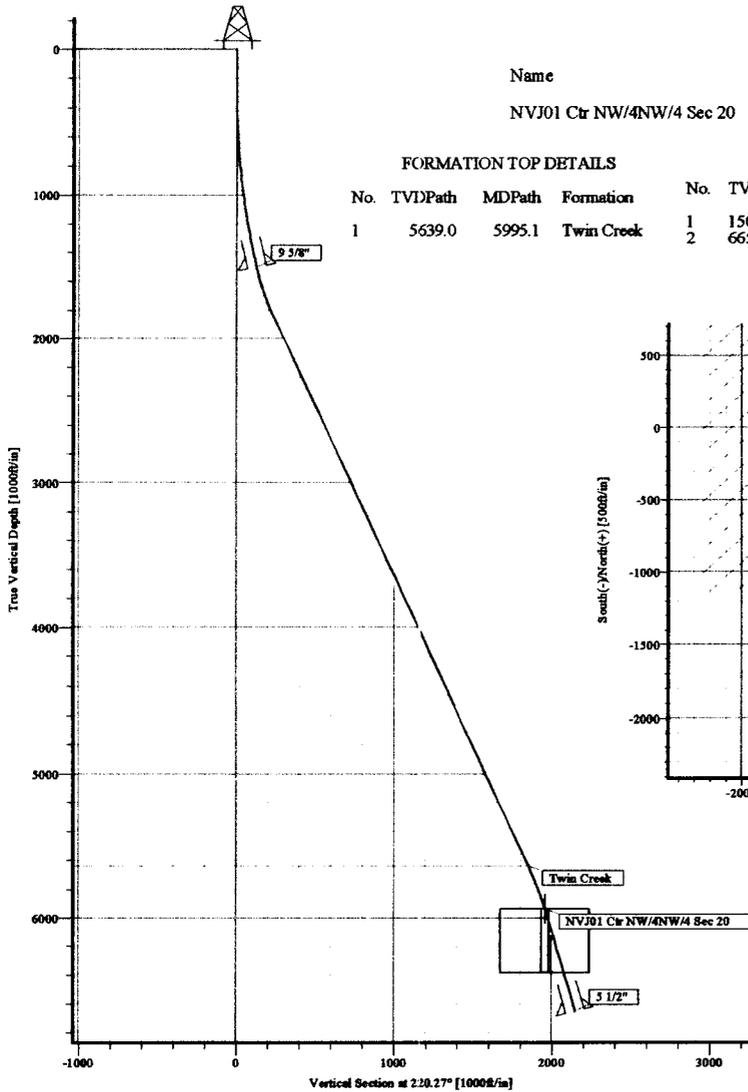
Name	TVD	+N/-S	+E/-W	Shape
NVJ01 Ctr NW/4NW/4 Sec 20	5935.0	-1493.0	-1265.0	Rectangle (400x400)

FORMATION TOP DETAILS

No.	TVDPath	MDPath	Formation
1	5639.0	5995.1	Twin Creek

CASING DETAILS

No.	TVD	MD	Name	Size
1	1500.0	1508.8	9 5/8"	9.625
2	6650.0	7049.9	5 1/2"	5.500



Plan: Plan #1 (20-1/20-1)
Created By: Steve Schmitz, P.E. Date: 7/14/2004
Checked: _____ Date: _____

Watherford Directional Services

Exploration Report

Company: Wolverine Gas & Oil Co of Utah	Date: 7/12/2004	Time: 11:35:29	Page: 1
Field: Sevier County, Utah	Co-ordinate(NE) Reference:	Well: 20-1, True North	
Site: Pad B-1	Vertical (TVD) Reference:	SITE 0.0	
Well: 20-1	Section (VS) Reference:	Well (0.00N,0.00E,220.27Azi)	
Wellpath: 20-1	Survey Calculation Method:	Minimum Curvature	Db: Sybase

Site: Pad B-1
Section 17 23S 1W Sevier County Utah
830' FSL & 1901' FWL

Site Position:	Northing: 169376.77 ft	Latitude: 38 47 51.068 N	
From: Geographic	Easting: 1876068.36 ft	Longitude: 111 56 5.240 W	
Position Uncertainty: 0.0 ft		North Reference: True	
Ground Level: 0.0 ft		Grid Convergence: -0.28 deg	

Survey Program for Definitive Wellpath

Date: 6/14/2004	Validated: No	Version: 1	
Actual From ft	To ft	Survey	Toolcode Tool Name

Survey

Stn	MD ft	Incl deg	Azim deg	TVD ft	N/S ft	E/W ft	VS ft	DLS deg/100ft	Tool	Radius ft
	0.0	0.00	220.27	0.0	0.0	0.0	0.0	0.00		
	100.0	0.00	220.27	100.0	0.0	0.0	0.0	0.00	MWD	
	200.0	0.00	220.27	200.0	0.0	0.0	0.0	0.00	MWD	
	300.0	0.00	220.27	300.0	0.0	0.0	0.0	0.00	MWD	
	400.0	0.99	220.27	400.0	-0.7	-0.6	0.9	0.99	MWD	
	500.0	1.99	220.27	500.0	-2.6	-2.2	3.5	0.99	MWD	
	600.0	2.98	220.27	599.9	-5.9	-5.0	7.8	0.99	MWD	
	700.0	3.97	220.27	699.7	-10.6	-9.0	13.9	0.99	MWD	
	800.0	4.96	220.27	799.4	-16.5	-14.0	21.6	0.99	MWD	
	900.0	5.96	220.27	898.9	-23.8	-20.1	31.2	0.99	MWD	
	1000.0	6.95	220.27	998.3	-32.3	-27.4	42.4	0.99	MWD	
	1100.0	7.94	220.27	1097.4	-42.2	-35.8	55.4	0.99	MWD	
	1200.0	8.93	220.27	1196.4	-53.4	-45.3	70.0	0.99	MWD	
	1300.0	9.93	220.27	1295.0	-65.9	-55.9	86.4	0.99	MWD	
	1400.0	10.92	220.27	1393.4	-79.7	-67.6	104.5	0.99	MWD	
	1508.8	12.00	220.27	1500.0	-96.2	-81.5	126.1	0.99	9 5/8"	
	1600.0	14.74	220.27	1588.7	-112.3	-95.2	147.2	3.00	MWD	
	1700.0	17.74	220.27	1684.7	-133.6	-113.2	175.2	3.00	MWD	
	1800.0	20.74	220.27	1779.1	-158.8	-134.5	208.1	3.00	MWD	
	1878.2	23.08	220.27	1851.7	-181.0	-153.4	237.3	3.00	MWD	
	1900.0	23.08	220.27	1871.7	-187.6	-158.9	245.8	0.00	MWD	
	2000.0	23.08	220.27	1963.7	-217.5	-184.2	285.0	0.00	MWD	
	2100.0	23.08	220.27	2055.7	-247.4	-209.6	324.2	0.00	MWD	
	2200.0	23.08	220.27	2147.7	-277.3	-234.9	363.4	0.00	MWD	
	2300.0	23.08	220.27	2239.7	-307.2	-260.3	402.6	0.00	MWD	
	2400.0	23.08	220.27	2331.7	-337.1	-285.6	441.9	0.00	MWD	
	2500.0	23.08	220.27	2423.7	-367.0	-311.0	481.1	0.00	MWD	
	2600.0	23.08	220.27	2515.7	-396.9	-336.3	520.3	0.00	MWD	
	2700.0	23.08	220.27	2607.7	-426.9	-361.7	559.5	0.00	MWD	
	2800.0	23.08	220.27	2699.7	-456.8	-387.0	598.7	0.00	MWD	
	2900.0	23.08	220.27	2791.7	-486.7	-412.3	637.9	0.00	MWD	
	3000.0	23.08	220.27	2883.7	-516.6	-437.7	677.1	0.00	MWD	
	3100.0	23.08	220.27	2975.6	-546.5	-463.0	716.3	0.00	MWD	
	3200.0	23.08	220.27	3067.6	-576.4	-488.4	755.5	0.00	MWD	
	3300.0	23.08	220.27	3159.6	-606.3	-513.7	794.7	0.00	MWD	
	3400.0	23.08	220.27	3251.6	-636.2	-539.1	833.9	0.00	MWD	
	3500.0	23.08	220.27	3343.6	-666.1	-564.4	873.1	0.00	MWD	
	3600.0	23.08	220.27	3435.6	-696.1	-589.8	912.3	0.00	MWD	
	3700.0	23.08	220.27	3527.6	-726.0	-615.1	951.5	0.00	MWD	
	3800.0	23.08	220.27	3619.6	-755.9	-640.4	990.7	0.00	MWD	
	3900.0	23.08	220.27	3711.6	-785.8	-665.8	1029.9	0.00	MWD	

Weatherford Directional Services

Exploration Report

CONFIDENTIAL

Company: Wolverine Gas & Oil Co of Utah
 Field: Sevier County, Utah
 Site: Pad B-1
 Well: 20-1
 Wellpath: 20-1

Date: 7/12/2004 Time: 11:35:29 Page: 2
 Co-ordinate(N/E) Reference: Well: 20-1, True North
 Vertical (TVD) Reference: SITE 0.0
 Section (VS) Reference: Well (0.00N,0.00E,220.27Azi)
 Survey Calculation Method: Minimum Curvature Db: Sybase

Survey

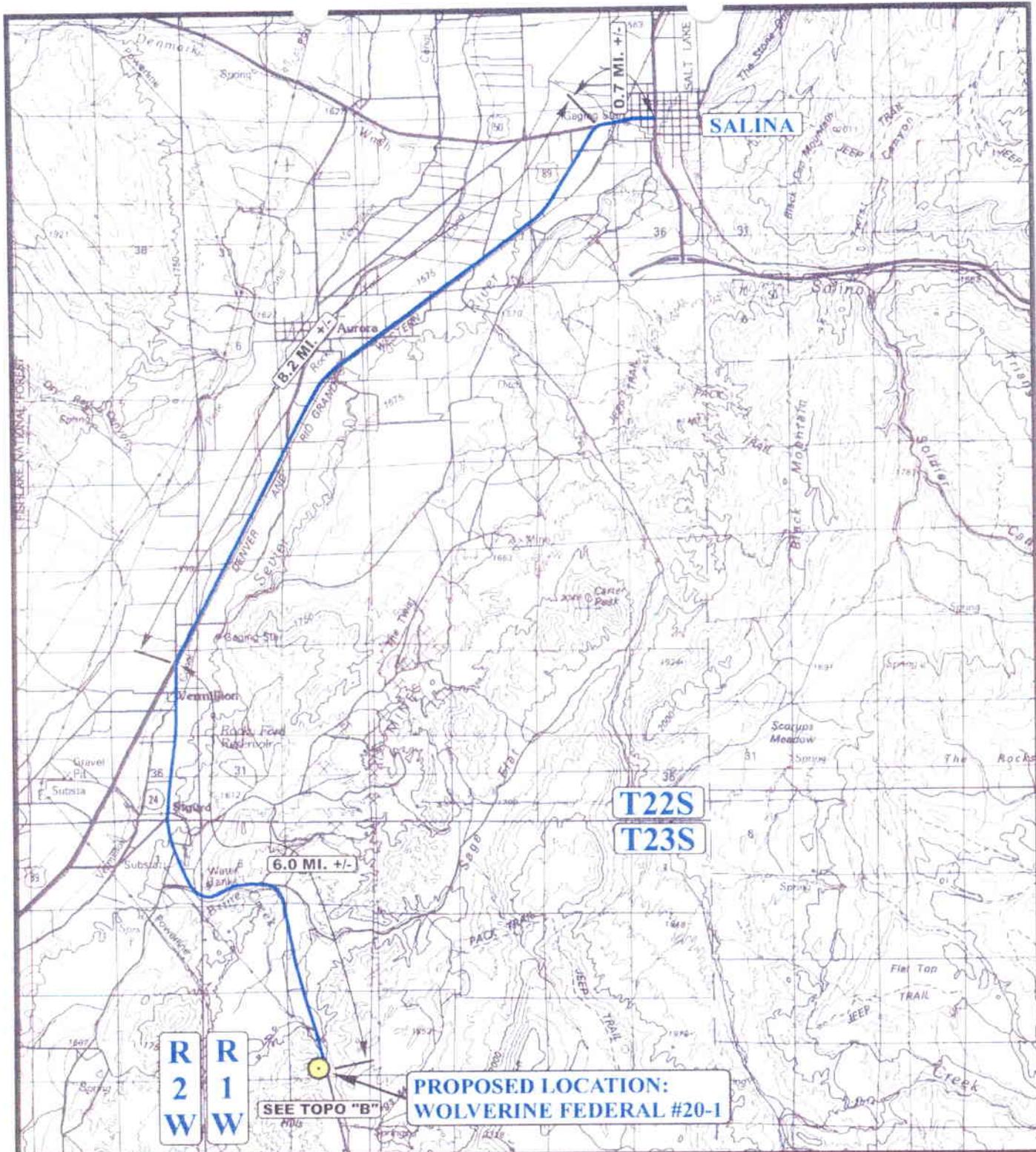
Stn	MD ft	Incl deg	Azim deg	TVD ft	N/S ft	E/W ft	VS ft	DLS deg/100ft	Tool	Radius ft
	4000.0	23.08	220.27	3803.6	-815.7	-691.1	1069.1	0.00	MWD	
	4100.0	23.08	220.27	3895.6	-845.6	-716.5	1108.3	0.00	MWD	
	4200.0	23.08	220.27	3987.6	-875.5	-741.8	1147.5	0.00	MWD	
	4300.0	23.08	220.27	4079.6	-905.4	-767.2	1186.7	0.00	MWD	
	4400.0	23.08	220.27	4171.6	-935.4	-792.5	1226.0	0.00	MWD	
	4500.0	23.08	220.27	4263.6	-965.3	-817.9	1265.2	0.00	MWD	
	4600.0	23.08	220.27	4355.6	-995.2	-843.2	1304.4	0.00	MWD	
	4700.0	23.08	220.27	4447.6	-1025.1	-868.5	1343.6	0.00	MWD	
	4800.0	23.08	220.27	4539.5	-1055.0	-893.9	1382.8	0.00	MWD	
	4900.0	23.08	220.27	4631.5	-1084.9	-919.2	1422.0	0.00	MWD	
	5000.0	23.08	220.27	4723.5	-1114.8	-944.6	1461.2	0.00	MWD	
	5100.0	23.08	220.27	4815.5	-1144.7	-969.9	1500.4	0.00	MWD	
	5200.0	23.08	220.27	4907.5	-1174.7	-995.3	1539.6	0.00	MWD	
	5300.0	23.08	220.27	4999.5	-1204.6	-1020.6	1578.8	0.00	MWD	
	5400.0	23.08	220.27	5091.5	-1234.5	-1046.0	1618.0	0.00	MWD	
	5500.0	23.08	220.27	5183.5	-1264.4	-1071.3	1657.2	0.00	MWD	
	5600.0	23.08	220.27	5275.5	-1294.3	-1096.6	1696.4	0.00	MWD	
	5700.0	23.08	220.27	5367.5	-1324.2	-1122.0	1735.6	0.00	MWD	
	5800.0	23.08	220.27	5459.5	-1354.1	-1147.3	1774.8	0.00	MWD	
	5900.0	23.08	220.27	5551.5	-1384.0	-1172.7	1814.0	0.00	MWD	
	5995.1	23.08	220.27	5639.0	-1412.5	-1196.8	1851.3	0.00	Twin Cre	
	6000.0	23.08	220.27	5643.5	-1413.9	-1198.0	1853.2	0.00	MWD	
	6040.3	23.08	220.27	5680.5	-1426.0	-1208.2	1869.0	0.00	MWD	
	6100.0	21.29	220.27	5735.8	-1443.2	-1222.8	1891.6	3.00	MWD	
	6200.0	18.29	220.27	5829.9	-1469.0	-1244.7	1925.4	3.00	MWD	
	6309.7	15.00	220.27	5935.0	-1493.0	-1265.0	1956.9	3.00	NVJ01 Ct	
	6400.0	15.00	220.27	6022.2	-1510.8	-1280.1	1980.2	0.00	MWD	
	6500.0	15.00	220.27	6118.8	-1530.6	-1296.8	2006.1	0.00	MWD	
	6600.0	15.00	220.27	6215.4	-1550.3	-1313.6	2032.0	0.00	MWD	
	6700.0	15.00	220.27	6312.0	-1570.1	-1330.3	2057.9	0.00	MWD	
	6800.0	15.00	220.27	6408.6	-1589.8	-1347.0	2083.8	0.00	MWD	
	6900.0	15.00	220.27	6505.2	-1609.6	-1363.8	2109.6	0.00	MWD	
	7000.0	15.00	220.27	6601.8	-1629.3	-1380.5	2135.5	0.00	MWD	
	7049.9	15.00	220.27	6650.0	-1639.2	-1388.8	2148.4	0.00	5 1/2"	

Casing Points

MD ft	TVD ft	Diameter in	Hole Size in	Name
1508.8	1500.0	9.625	12.250	9 5/8"
7049.9	6650.0	5.500	6.000	5 1/2"

Formations

MD ft	TVD ft	Formations	Lithology	Dip Angle deg	Dip Direction deg
5995.1	5639.0	Twin Creek		0.00	0.00



R 2 W
R 1 W

SEE TOPO "B"

**PROPOSED LOCATION:
WOLVERINE FEDERAL #20-1**

T22S
T23S

LEGEND:				WOLVERINE GAS & OIL CORP. WOLVERINE FEDERAL #20-1 SECTION 17, T23S, R1W, S.L.B.&M. SE 1/4 SW 1/4	
 PROPOSED LOCATION					
	Uintah Engineering & Land Surveying 85 South 200 East Vernal, Utah 84078 (435) 789-1017 * FAX (435) 789-1813		TOPOGRAPHIC 07 15 04 MAP MONTH DAY YEAR		
	SCALE: 1:100,000 DRAWN BY: K.G. REVISED: 00-00-00				

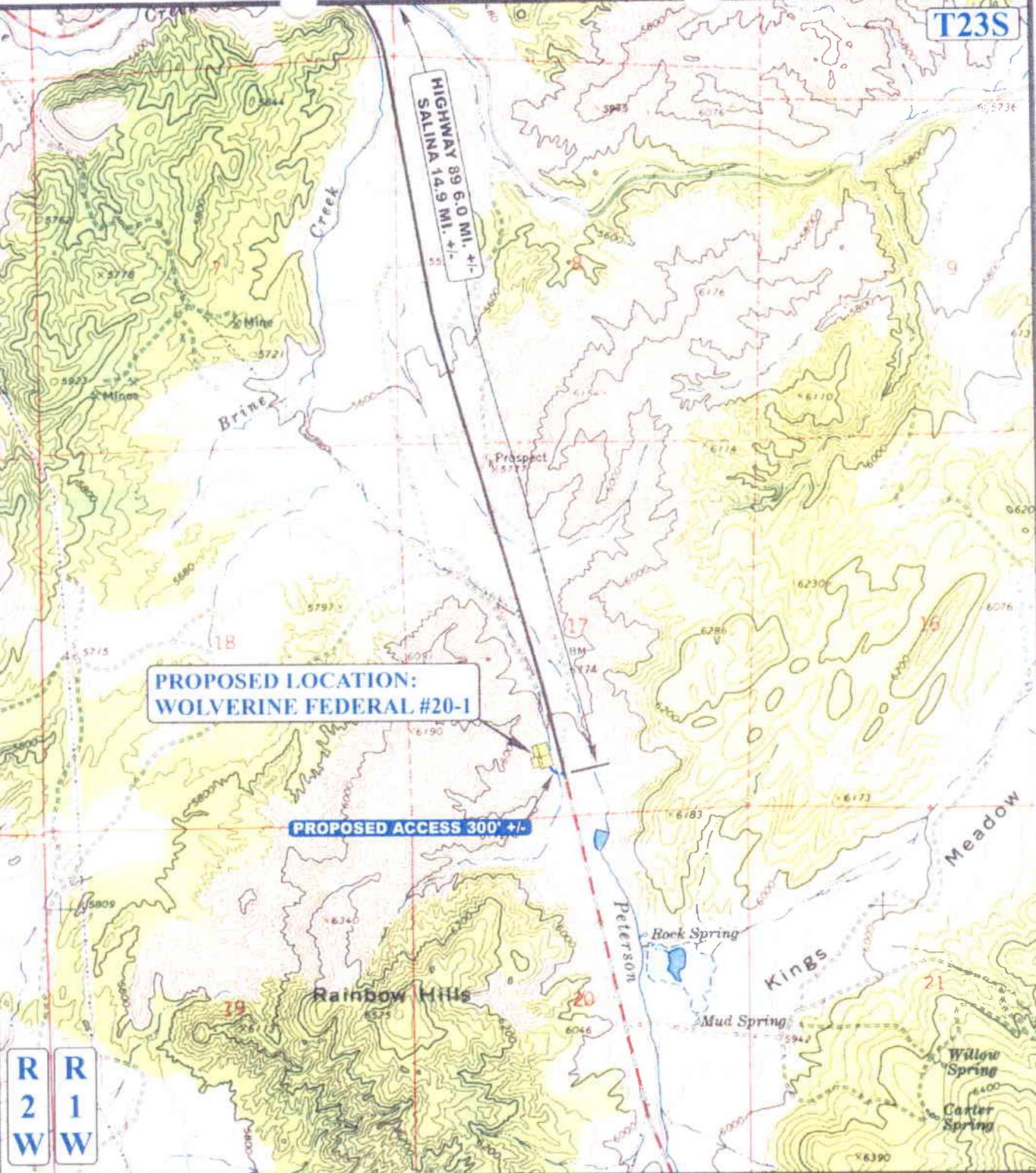
T23S

HIGHWAY 89 6.0 MI. +/-
SALINA 14.9 MI. +/-

**PROPOSED LOCATION:
WOLVERINE FEDERAL #20-1**

PROPOSED ACCESS 300' +/-

**R
2
W** **R
1
W**



LEGEND:
—— EXISTING ROAD
- - - - PROPOSED ACCESS ROAD

WOLVERINE GAS & OIL CORP.
WOLVERINE FEDERAL #20-1
SECTION 17, T23S, R1W, S.L.B.&M.
SE 1/4 SW 1/4

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



TOPOGRAPHIC MAP **07 15 04**
MONTH DAY YEAR
SCALE: 1" = 2000' DRAWN BY: K.G. REVISED: 00-00-00 **B**
TOPO

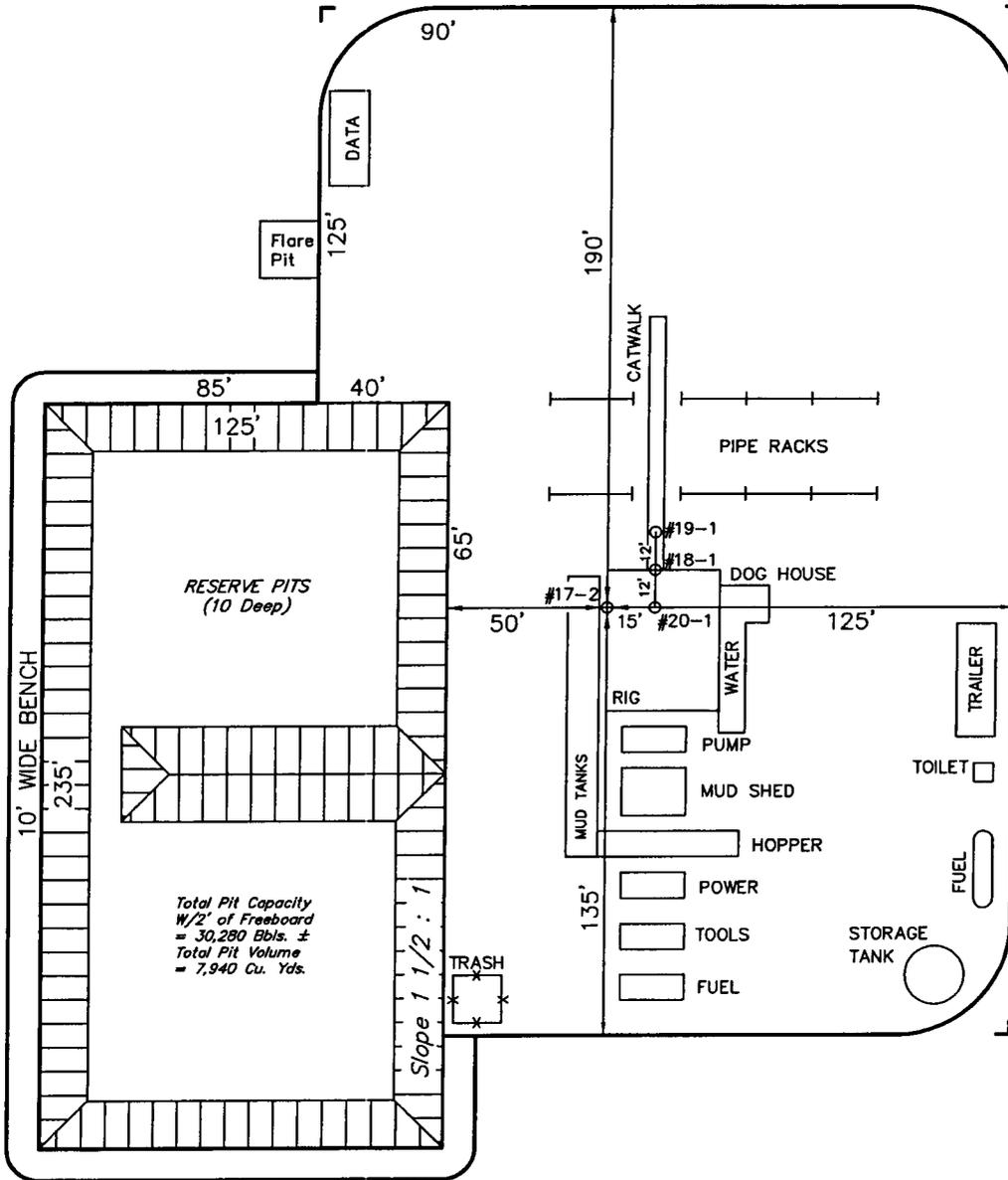
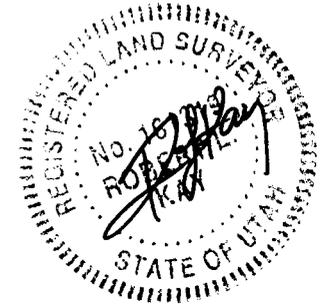
WOLVERINE GAS & OIL CORP.

TYPICAL RIG LAYOUT FOR

WOLVERINE FEDERAL #20-1
SECTION 17, T23S, R1W, S.L.B.&M.
833' FSL 1925' FWL



SCALE: 1" = 60'
DATE: 6-17-04
Drawn By: C.G.
DATE: 7-7-04



WOLVERINE GAS & OIL CO.

FIGURE #2

EXISTING CROSS SECTIONS FOR

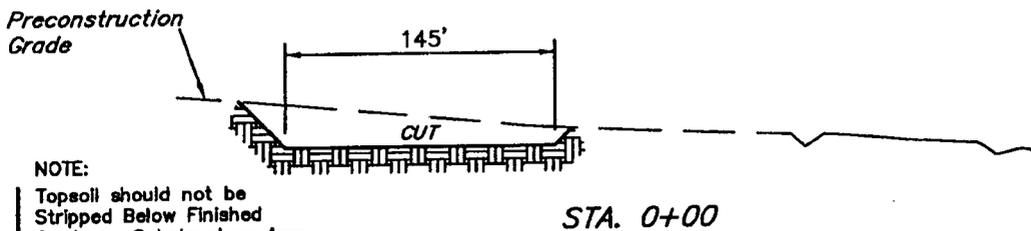
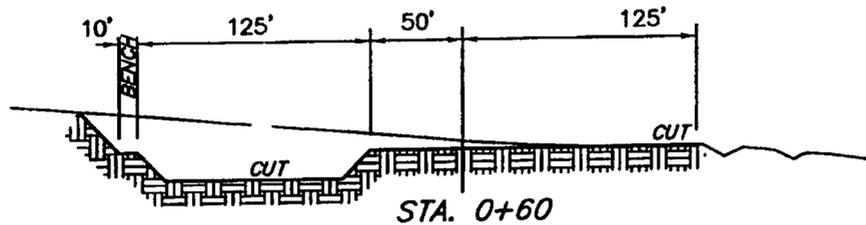
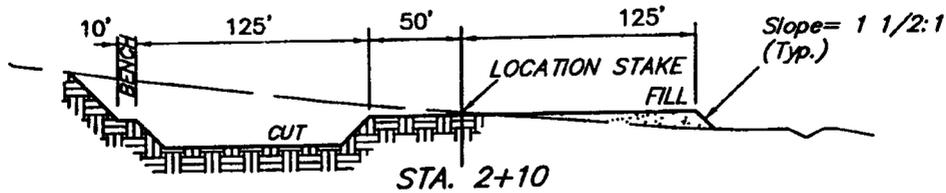
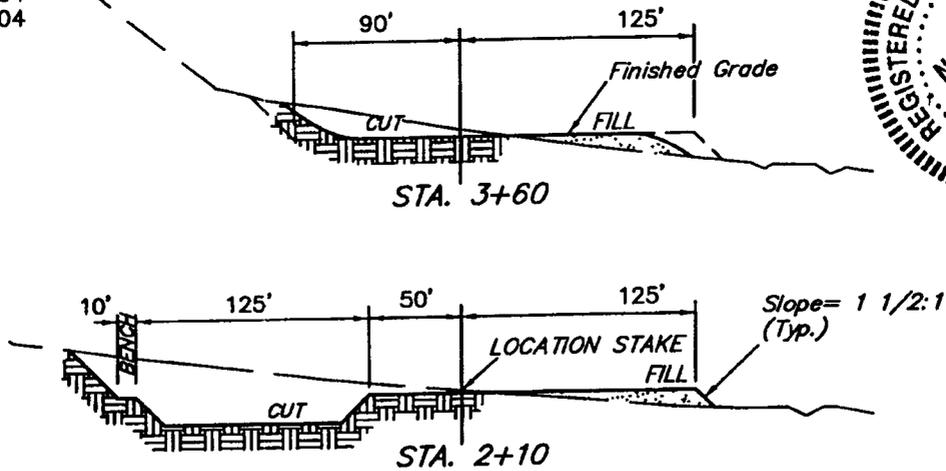
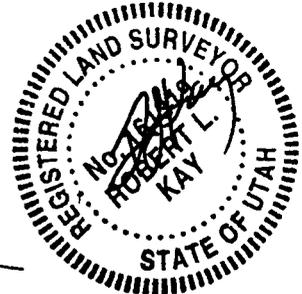
CONFIDENTIAL

WOLVERINE FEDERAL #20-1
SECTION 17, T23S, R1W, S.L.B.&M.

833' FSL 1925' FWL

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

DATE: 3-10-04
Drawn By: C.G.
DATE: 4-12-04
DATE: 4-16-04
DATE: 7-19-04
DATE: 7-21-04



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

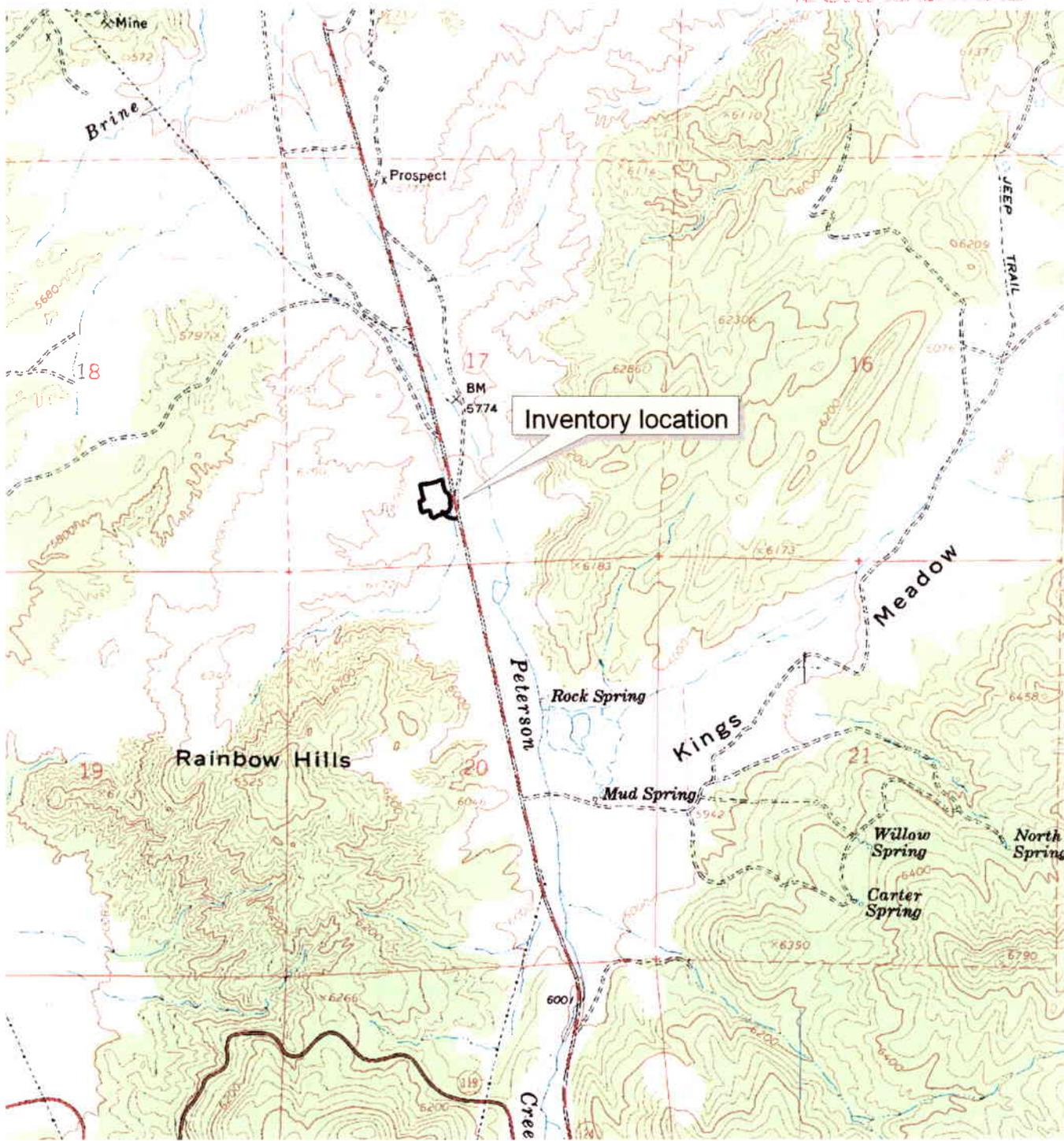
* NOTE:
FILL QUANTITY INCLUDES 5% FOR COMPACTION

APPROXIMATE YARDAGES

CUT	
(6") Topsoil Stripping	= 2,240 Cu. Yds.
Remaining Location	= 25,900 Cu. Yds.
TOTAL CUT	= 28,140 CU.YDS.
FILL	= 4,980 CU.YDS.

EXCESS MATERIAL	= 23,160 Cu. Yds.
Topsoil & Pit Backfill (1/2 Pit Vol.)	= 6,300 Cu. Yds.
EXCESS UNBALANCE (After Rehabilitation)	= 16,860 Cu. Yds.

UINTAH ENGINEERING & LAND SURVEYING
85 So. 200 East * Vernal, Utah 84078 * (435) 789-1017



Sigurd USGS 7.5' Series Quad.
T. 23S R. 1W. Southwest Section 17



**WORKSHEET
APPLICATION FOR PERMIT TO DRILL**

APD RECEIVED: 08/05/2004

API NO. ASSIGNED: 43-041-30032

WELL NAME: WOLVERINE FED 20-1
 OPERATOR: WOLVERINE GAS & OIL CO (N1655)
 CONTACT: RICHARD MORITZ

PHONE NUMBER: 616-458-1150

PROPOSED LOCATION:

SESW 17 230S 010W
 SURFACE: 0814 FSL 1933 FWL
 BOTTOM: 0660 FNL 0660 FWL
 SEVIER
 COVENANT (492)

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

LEASE TYPE: 1 - Federal
 LEASE NUMBER: UTU-73528
 SURFACE OWNER: 1 - Federal
 PROPOSED FORMATION: NAVA
 COALBED METHANE WELL? NO

LATITUDE: 38.79746
 LONGITUDE: -111.9339

RECEIVED AND/OR REVIEWED:

- Plat
- Bond: Fed[1] Ind[] Sta[] Fee[]
(No. WY 3329)
- Potash (Y/N)
- Oil Shale 190-5 (B) or 190-3 or 190-13
- Water Permit
(No. 63-2529)
- RDCC Review (Y/N)
(Date: _____)
- Fee Surf Agreement (Y/N)
- Intent to Commingle (Y/N)

LOCATION AND SITING:

- _____ R649-2-3.
- Unit WOLVERINE
- _____ 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: Location Change

STIPULATIONS: _____

7

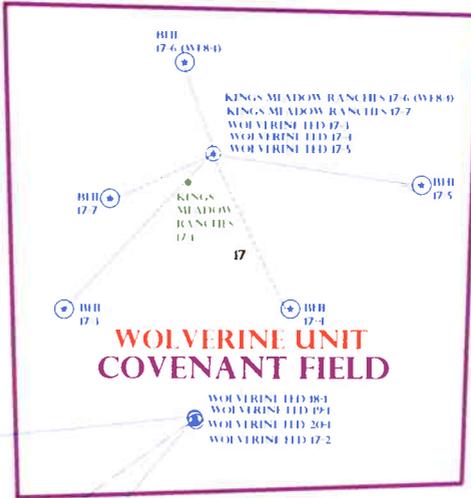
8

9

SWEE

18

16



19

20

21

OPERATOR: WOLVERINE G&O CO (N1655)

SEC: 17 T. 23S R. 1W

FIELD: COVENANT (492)

COUNTY: SEVIER

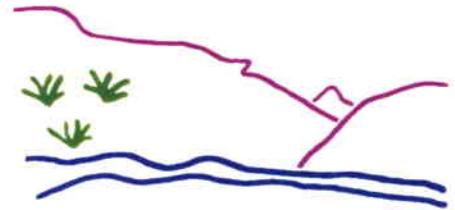
SPACING: R649-3-11 / DIRECTIONAL DRILLING

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



PREPARED BY: DIANA WHITNEY
DATE: 10-AUG-2005

WORKSHEET

APPLICATION FOR PERMIT TO DRILL

006

APD RECEIVED: 08/05/2004

API NO. ASSIGNED: 43-041-30032

WELL NAME: WOLVERINE FED 20-1
OPERATOR: WOLVERINE GAS & OIL CO (N1655)
CONTACT: RICHARD MORITZ

PHONE NUMBER: 616-458-1150

PROPOSED LOCATION:

SESW 17 230S 010W
SURFACE: 0833 FSL 1925 FWL
NWNW BOTTOM: 0660 FNL 0660 FWL Sec 20
SEVIER
WILDCAT (1)

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

LEASE TYPE: 1 - Federal
LEASE NUMBER: UTU-73528
SURFACE OWNER: 1 - Federal
PROPOSED FORMATION: NAVA
COALBED METHANE WELL? NO

LATITUDE: 38.79729
LONGITUDE: 111.93382

RECEIVED AND/OR REVIEWED:

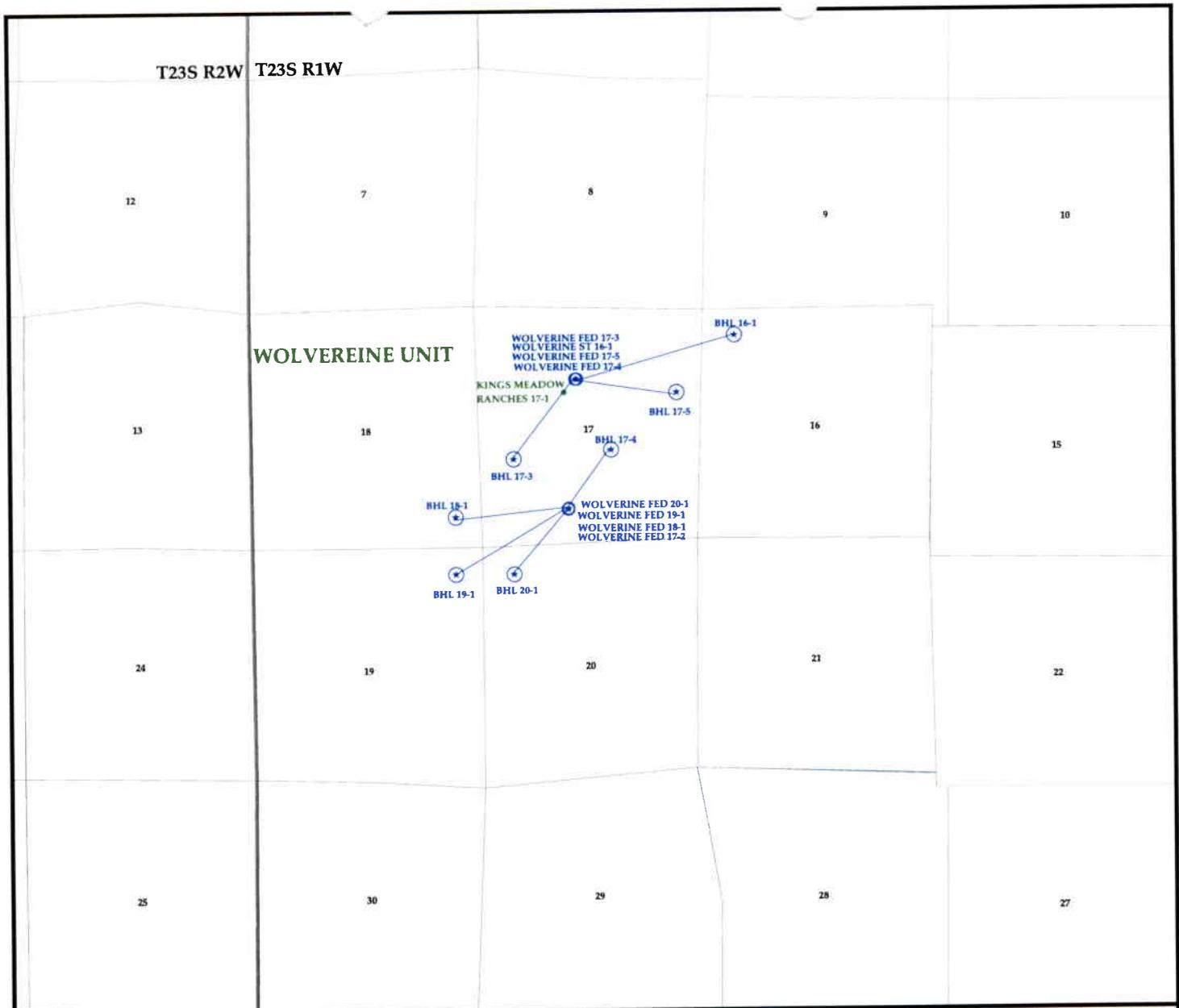
- Plat
- Bond: Fed[1] Ind[] Sta[] Fee[]
(No. WY 3329)
- Potash (Y/N)
- Oil Shale 190-5 (B) or 190-3 or 190-13
- Water Permit
(No. 63-2529)
- RDCC Review (Y/N)
(Date:)
- Fee Surf Agreement (Y/N)

LOCATION AND SITING:

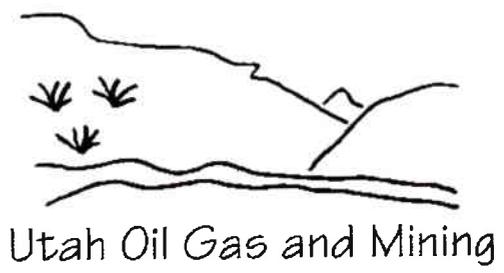
- R649-2-3.
- Unit WOLVERINE
- R649-3-2. General
Siting: 460 From Qtr/Qtr & 920' Between Wells
- R649-3-3. Exception
- Drilling Unit
Board Cause No: _____
Eff Date: _____
Siting: _____
- R649-3-11. Directional Drill

COMMENTS: _____

STIPULATIONS: 1- federal approval
2- spacing str



OPERATOR: WOLVERINE G&O CO (N1655)
SEC. 17 T.23S R.1W
FIELD: WILDCAT (001)
COUNTY: SEVIER
SPACING: R649-3-11 / DIRECTIONAL DRILLING



Wells	Units.shp	Fields.shp
♣ GAS INJECTION	EXPLORATORY	ABANDONED
○ GAS STORAGE	GAS STORAGE	ACTIVE
× LOCATION ABANDONED	NF PP OIL	COMBINED
⊕ NEW LOCATION	NF SECONDARY	INACTIVE
◊ PLUGGED & ABANDONED	PENDING	PROPOSED
⊛ PRODUCING GAS	PI OIL	STORAGE
● PRODUCING OIL	PP GAS	TERMINATED
○ SHUT-IN GAS	PP GEOTHERML	
➔ SHUT-IN OIL	PP OIL	
× TEMP. ABANDONED	SECONDARY	
○ TEST WELL	TERMINATED	
▲ WATER INJECTION		
⬆ WATER SUPPLY		
♣ WATER DISPOSAL		



PREPARED BY: DIANA WHITNEY
 DATE: 12-AUG-2004



WOLVERINE GAS AND OIL COMPANY
of Utah, LLC

Energy Exploration in Partnership with the Environment

August 3, 2005

Mr. Al McKee
Bureau of Land Management
Utah State Office
440 West 200 South, Suite 500
Salt Lake City, Utah 84101

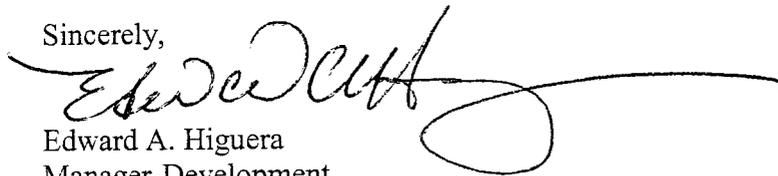
RE: Wolverine Federal #20-1
API # 43-041-30032
Sevier County, UT

Dear Mr. McKee:

The enclosed sundry covers the Wolverine Federal #20-1, located in Sevier County, and the following changes: 1) Change in surface location because of different slot designation on the drilling pad (see revised well plat); and 2) Change in casing program so it reflects the current casing program (e.g., 7" production casing instead of 5-1/2"), and which is consistent to previously approved wells. Changes are made to the cement program to fit the new casing program. The changes are summarized on the table included with the sundry.

If you have any questions, please call.

Sincerely,



Edward A. Higuera
Manager-Development

Enclosures

c: Diana Whitney, UDOGM w/attachments
Steve Hash w/attachments

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

FORM 9

5. LEASE DESIGNATION AND SERIAL NUMBER:
UTU-73528

SUNDRY NOTICES AND REPORTS ON WELLS

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

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

7. UNIT or CA AGREEMENT NAME:
Wolverine Fed Exploration Unit

1. TYPE OF WELL OIL WELL GAS WELL OTHER _____

8. WELL NAME and NUMBER:
Wolverine Federal #20-1

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

9. API NUMBER:
4304130032

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

PHONE NUMBER:
(616) 458-1150

10. FIELD AND POOL, OR WILDCAT:
Covenant Field

4. LOCATION OF WELL
FOOTAGES AT SURFACE: **833' FSL & 1,925' FWL**

COUNTY: **Sevier**

QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: **SESW 17 23S 1W**

STATE: **UTAH**

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

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

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

Wolverine proposes the changes listed on the attached table to be consistent with current casing program used for the field, and to reflect changes in the surface location because of revisions to slot designation.

Revised drilling & direction plan is attached.

See attached summary table; revised plat; revised BOP schematic.

New
Surface location **814' FSL 1933' FWL**
418900X 38.797461
4294508Y - 111.933887

Approved by the
Utah Division of
Oil, Gas and Mining

Date: **08-10-05**
By: *[Signature]*

8-11-05
CFO

NAME (PLEASE PRINT) **Edward A. Higuera** TITLE **Manager Development**
SIGNATURE *[Signature]* DATE **8/4/2005**

(This space for State use only)

RECEIVED
AUG 08 2005

DIV. OF OIL, GAS & MINING

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

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

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

SUBMIT IN TRIPLICATE - Other instructions on reverse side		5. Lease Serial No. UTU-73528
1. Type of Well <input checked="" type="checkbox"/> Oil Well <input type="checkbox"/> Gas Well <input type="checkbox"/> Other		6. If Indian, Allottee or Tribe Name N/A
2. Name of Operator Wolverine Gas and Oil Company of Utah, LLC		7. If Unit or CA/Agreement, Name and/or No. Wolverine Fed Exploration Unit
3a. Address 55 Campau NW, Grand Rapids, MI 49503	3b. Phone No. (include area code) (616) 458-1150	8. Well Name and No. Wolverine Federal #20-1
4. Location of Well (Footage, Sec., T., R., M., or Survey Description) Surface: 833' FSL & 1,925' FWL, SE/SW, Sec 17, T23S, R1W Bottom: 660' FNL & 660 FWL, NW/NW, Sec 20, T23S, R1W		9. API Well No. 43-041-30032-00-00
		10. Field and Pool, or Exploratory Area Exploratory
		11. County or Parish, State Sevier County, UT

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

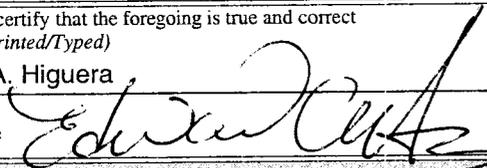
TYPE OF SUBMISSION	TYPE OF ACTION			
<input checked="" type="checkbox"/> Notice of Intent	<input type="checkbox"/> Acidize	<input type="checkbox"/> Deepen	<input type="checkbox"/> Production (Start/Resume)	<input type="checkbox"/> Water Shut-Off
<input type="checkbox"/> Subsequent Report	<input type="checkbox"/>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

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

Wolverine proposes the changes listed on the attached table to be consistent with current casing programs used in the field, and to reflect changes in the surface location because of revisions to slot designation.

See attached summary table; revised plat; revised BOP schematic

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

Signature 

Title **Manager - Development**

Date **August 4, 2005**

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	

RECEIVED

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.

AUG 08 2005

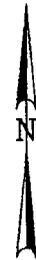
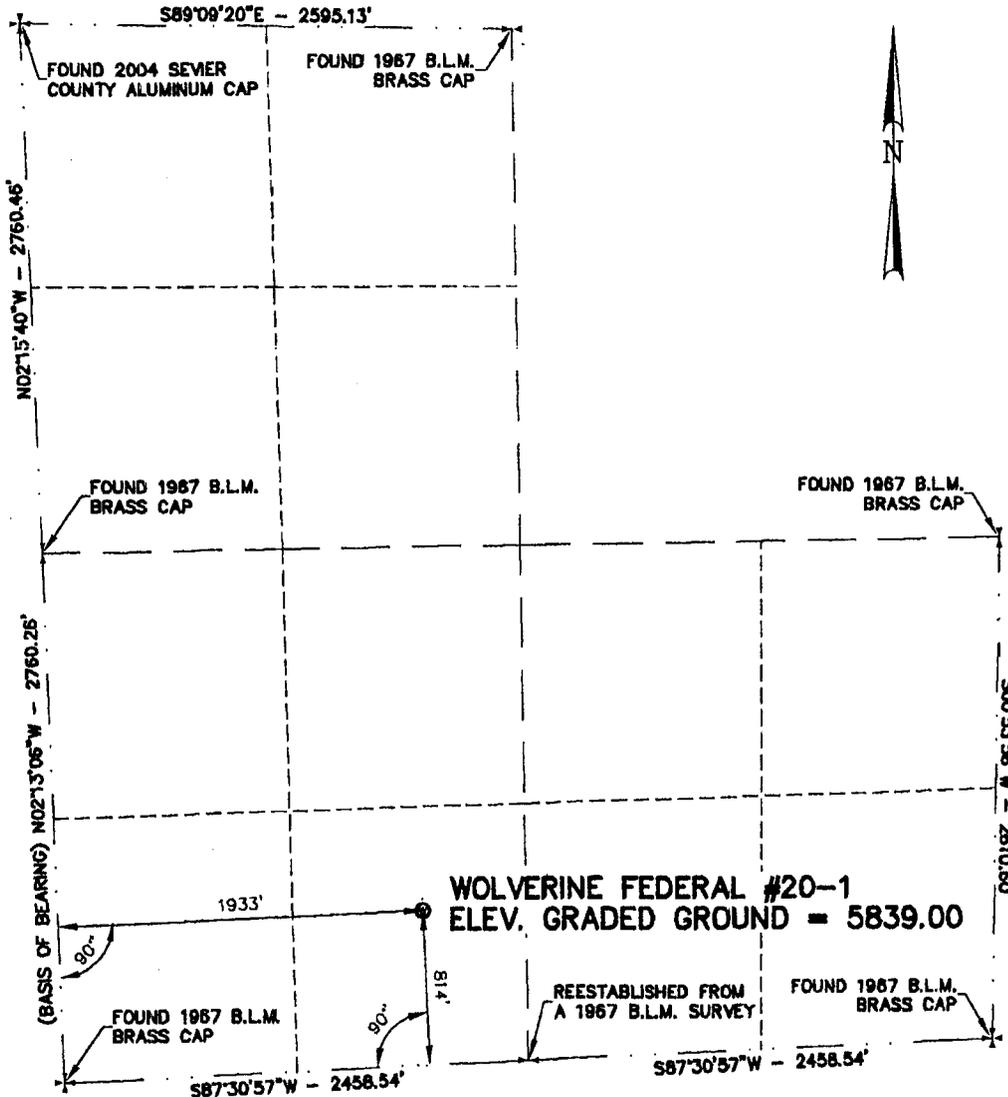
Wolverine Gas & Oil Company of Utah, LLC,
Proposed Changes for Wolverine Federal 20-1

Item	FROM (original Permitted)	TO: (change)	Comment
Surface Location	833 FSL & 1925 FWL, SE/SW Section 17, T23S-R1W	814 FSL & 1933 FWL, SE/SW Section 17, T23S-R1W	Change in slot designation on pad
Hole Size	12-1/4"/8-3/4"	17-1/2"/12-1/4"/8-1/2"	Hole size changed to fit new casing program
Casing program	14" conductor to 80' 9-5/8", 36 ppf J-55 at 1510' 5-1/2", 17 ppf L-80 at 7250'	20" conductor to 120' 13-3/8", 61# J-55 at 2400' +/- 9-5/8", 47# N-80 (or HCP-110) at 6300' +/- 7", 26# N-80 (or HCP-110) at 7171' +/-	
Cement program	9-5/8" Csg: Lead 360 sx, 1.76 yld, 12.8 ppg; Tail: 280 sx, 1.20 yld, 13.4 ppg 5-1/2" Csg: 750 sx, 1.76 yld, 13 ppg; Tail: 350 sx, 1.49 yld, 13.4 ppg	13-3/8" Csg:: Lead 800 sx hi-fill, 3.86 yld, 11 ppg; Tail: 470 sx Prem G, 1.18 yld, 15.8 ppg. 9-5/8" Csg: 350 sx 50:50 Poz, 1.71 yld, 13 ppg 7" Csg: 500 sx 50:50 Poz, 1.27 yld, 14.35 ppg	Cement change to fit casing program
BOP/Surface	14" x 13-5/8" 3M weld on flange 13-5/8" 3M x 13-5/8 3M spacer spool with 3" outlets; 13-5/8" annular preventer, connected to accumulator 13-5/8 drilling nipple with fillup line and circulating line	20" casing with one 7-1/16" flanged outlet with 7-1/16" HCR valve and 6" blooie line to flare pit 20" drilling nipple with fillup line and 10-3/4" flow line w/ flowline valve 20" rotating head	Change to fit new casing program
BOP/productive csg	11" 3M x 9-5/8" csg head 11" 3M x 11" 3M spacer spool 11" 3M double ram preventer w/4-1/2" pipe ram on top and blind ram on bottom; two side outlets, choke side will have 3"x 3M gate valves. Kill side will have two 2-1/16" x 3M gate valves, one 2" x 3M check valve. 11" 3M annular preventer 11" 3M short rotating head w/fill up line	13-5/8" 5M x 13-3/8" SOW casing head w/ (2) 2-1/16" SSO's (for 9-5/8") 13-5/8" 5M x 13-5/8" 5M multi-bowl casing spool (for 7") 13-5/8" 5M x 13-5/8" spacer spool 13-5/8" 5M x 13-5/8" 5M mud cross with (2) side outlets: one outlet 2-1/16" 5M kill line one outlet 3-1/16" 5M choke line 13-5/8" 5M double ram BOP w/ 5" pipe rams top & CSO rams btm 13-5/8" 5M Annular Preventer 13-5/8" 5M rotating head Connect BOP to choke manifold with pressure gauge Upper kelly cock valves with handles available Safety valves and subs to fit all drill string connections in use Inside BOP or float sub available	Change to fit new casing program

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

PROJECT
Wolverine Gas & Oil Company of Utah, LLC.

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



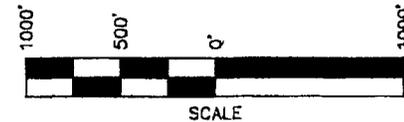
LEGEND

- ⊕ = SECTION CORNERS LOCATED
- ⊙ = QUARTER SECTION CORNERS LOCATED
- ⊗ = PROPOSED WELL HEAD

NOTE: THE PURPOSE OF THIS SURVEY WAS TO PLAT THE WOLVERINE FEDERAL #20-1 LOCATION. LOCATED IN THE SE 1/4 OF THE SW 1/4 OF SECTION 17, T.23 S., R.1 W., S.L.B. & M. SEVER COUNTY.

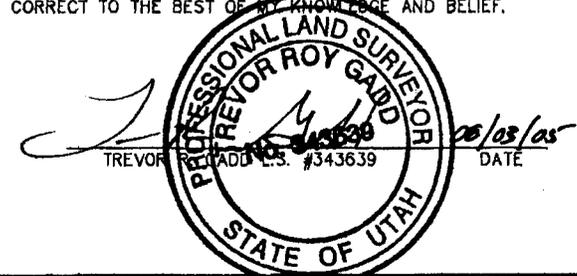
BASIS OF ELEVATION

ELEVATION BASED ON U.S.G.S. BENCH MARK 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.



BASIS OF BEARINGS

BASIS OF BEARING USED WAS N02°13'06"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°47'50.9446" (38.797484611)
 LONGITUDE = -111°56'04.9969" (111.934721361)



Jones & DeMille Engineering
 1335 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, LLC.

DESIGNED	SURVEYED	CHECKED	DRAWN	PROJECT NO.	SHEET NO.
	T.W.G.	T.R.G.	K.B.B.	0505-053	1
DATE 08/03/05		DWG. NAME B_Wells	SCALE 1" = 1000'		

PRESSURE CONTROL SYSTEM SCHEMATIC

Prepared by:
EXACT Engineering, Inc
Tulsa, OK (918) 599-9400

Operator:

Wolverine Gas & Oil Co. of Utah, LLC

Well name and number

Wolverine Federal #20-1

5M BOP Stack --- to be utilized while drilling holes for protective and production casings thru lower Arapien, Twin Creek & Navajo intervals

Max. anticipated surface pressure 3000 psi

Annular B.O.P. 13-5/8" - 5M WP

B.O.P. 5" pipe Rams 13-5/8" - 5M W.P.
(Pipe/Blind)

B.O.P.
--- Manual
 Hydraulic
--- Sour Trim

B.O.P. blind Rams 13-5/8" - 5M W.P.
(Pipe/Blind)

Check Valve 2-1/16" 5M WP

Valve 2-1/16" 5M WP

Valve 2-1/16" 5M WP

Valve 3-1/16" 5M WP

Valve 3-1/16" 5M WP

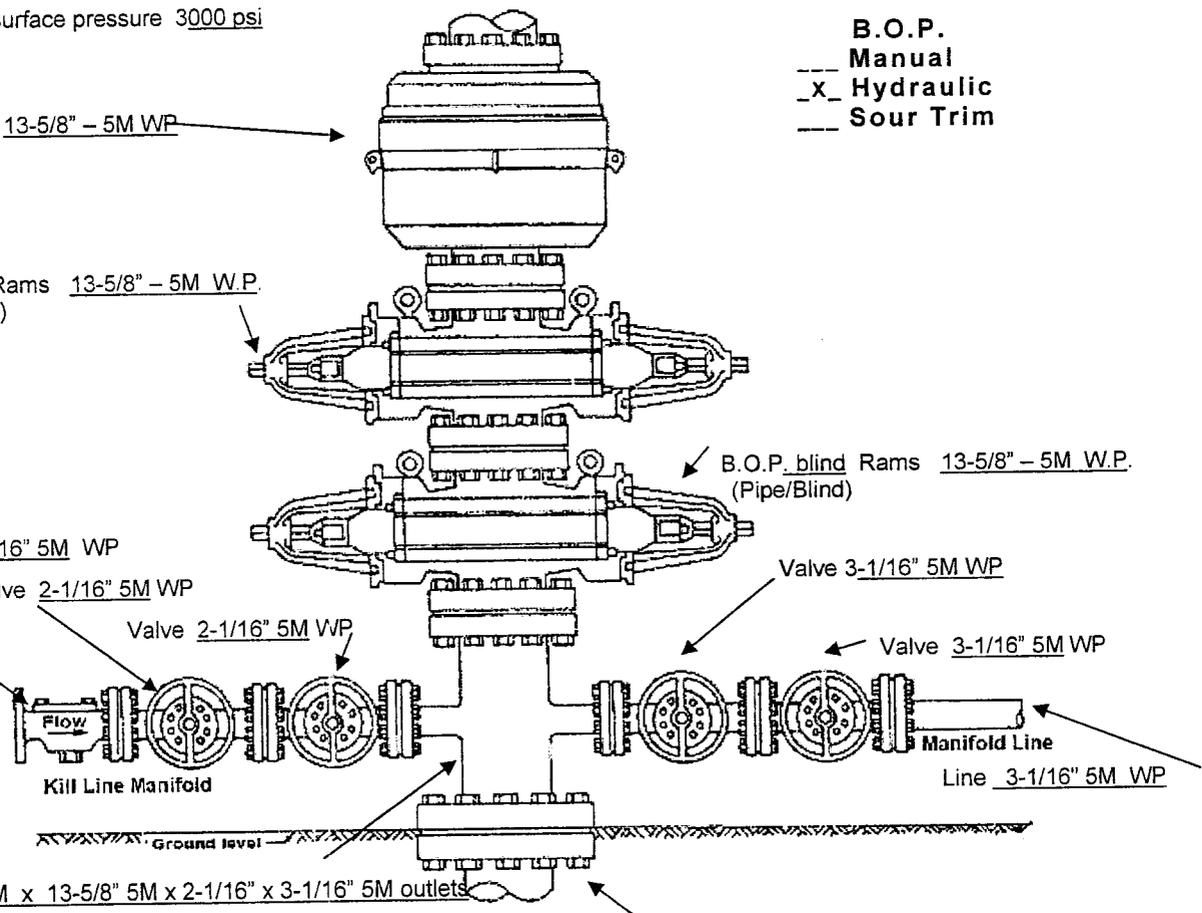
Kill Line Manifold

Manifold Line
Line 3-1/16" 5M WP

Ground level

Spool 13-5/8" 5M x 13-5/8" 5M x 2-1/16" x 3-1/16" 5M outlets

Wellhead 13-5/8" 5M x 13-5/8" 5M multibowl
w/ 13-5/8" 5M x 13-3/8" 5M SOW csg head





WESTERN LAND SERVICES

August 18, 2004

Utah Division of Oil, Gas & Mining
1594 W. N. Temple Suite 1210
Salt Lake City, Utah 84114-5801

RE: Wolverine Gas & Oil Company of Utah, LLC requests permission to drill the Wolverine Federal #20-1

Gentlemen:

Pursuant to Rule R649-3-11 of the State's Oil & Gas Conservation regulations, Wolverine Gas & Oil Company of Utah, LLC, hereby makes application for approval to directionally drill an oil & gas well.

Wolverine Gas & Oil Company of Utah, LLC (Wolverine) proposes to drill the Wolverine Federal #20-1 well to a total depth of 7,050 feet and is an exception to Rule R649-3-3. Wolverine is the only leasehold operator within a 460 foot radius of the bore hole.

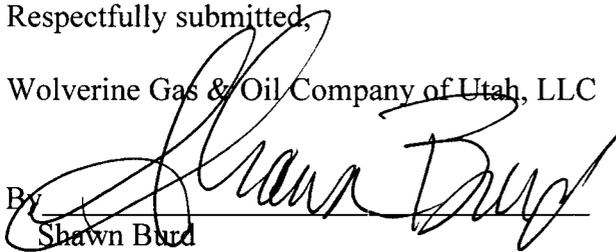
The mountainous terrain of the area is such that directional drilling is the most effective method to minimize surface disturbance. By locating the well pad on a relatively flat surface and drilling a directional well beneath this challenging topography, Wolverine can most effectively minimize surface disturbance and ensure proper utilization of resources.

Attached hereto is a plat as required by the Commissions rules and regulations.

If no objections are filed, the applicant requests that this application be approved. If objections are filed, applicant requests the matter be set for hearing and that it be advised of the hearing date.

Respectfully submitted,

Wolverine Gas & Oil Company of Utah, LLC

By 
Shawn Burd
Authorized Agent

RECEIVED
AUG 19 2004



United States Department of the Interior
 BUREAU OF LAND MANAGEMENT
 RICHFIELD FIELD OFFICE
 150 East 900 North
 Richfield, Utah 84701



In Reply Refer To:

3160
 (UT-050)

August 10, 2004

Mr. Richard D. Moritz
 Wolverine Gas and Oil Company of Utah, LLC
 One Riverfront Plaza
 55 Campau NW
 Grand Rapids, Michigan 49503

Dear Mr. Moritz:

On July 22, 2004, four Applications for Permit to Drill and on July 28, 2004, three additional Applications for Permit to Drill were filed in this office. These seven wells are Wolverine #17-3, 17-4, 17-5, 16-1, 18-1, 19-1, and 20-1 and are on Federal lease UTU-73528. The well pad locations for these wells are in Section 17, T. 23 S., R. 1 W., SLM, Sevier County, Utah. Your applications have been reviewed for completeness in accordance with the provisions of the Federal regulations and the Onshore Oil and Gas Orders.

Based on Onshore Order 1, with the reference to the appropriate section, the following items are missing or need clarification in your applications:

Section III.G. 3, Form 3160-3 or as an attachment:

- c. Type of drilling tools (rotary or cable).
- d. Casing condition (new or used).

Section III.G. 4. a., Drilling Plan:

- (2) The anticipated contents of each geologic structure or stratum (water, oil, gas or other minerals).
- (3) Pressure control schematic.
- (4) As these are exploratory wells, the design factors for each casing string. (See Onshore Order #2, *Drilling Operations*, III. B. Casing and Cementing Requirements.)

Section III.G. 4. b., Surface Use Program:

- (3) Location of existing wells. For 17-3, 17-4, 17-5, and 16-1, the Location Map does not show the existing Well 17-2. For 18-1, 19-1, and 20-1, the Location Map does not show the existing well 17-1. Are any water wells within the one-mile parameter of the Order? At the proposed well site for 17-3, 17-4, 17-5, and 16-1, three well pads are shown. Two of the pads are assumed to be

the existing well pad (17-1) and the proposed pad (17-3 and others); however, the third pad is not identified.

- (4) Location of proposed production facilities.
- (5) Location of water supply. Be specific as to the source, if it is non-Federal.
- (9) Well site layout. Living facilities and the orientation of the rig and other facilities are not included on a layout.
- (11) Surface Ownership. The surface ownership of the well and access road shall be indicated. Where the surface of the well is privately owned, the operator shall include the name, address, and phone number, if known, of the surface owner. If privately owned, the existence of an agreement between the operator and owner needs to be provided.

All the above items will be necessary before approval can be granted. All other portions of your application are in place, and we will continue to process your application up to the point the missing information prevents further action.

If future applications are filed, we request that Wolverine Gas and Oil adhere closely to Onshore Order No. 1, Section III. G. *Components of a Complete Application for Permit to Drill*. In the order, the Drilling Plan and the Surface Plan items are enumerated for ease of reference during both the preparation and the review of a proposal. All these items are required by regulation, and following the outline in the Order will facilitate the review of your applications. Although some items appear unnecessary or outdated, please provide the information. Unless specifically requested, additional information is unnecessary and may lengthen the review time frames.

In addition, the Application for Permit to Drill package does not need to be filed in a binder for the BLM. BLM records are kept in a file folder, so we remove the binder for ease of filing for our record keeping.

If you have any questions, please contact Michael Jackson at (435) 896-1522. Technical questions on the Drilling Plan may be directed to Al McKee at (801) 539-4045.

Sincerely,



Gary L. Hall
Assistant Field Manager

cc: Western Land Services, 54 West Seymour Street, Sheridan, Wyoming 82801

004

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)

August 16, 2004

Memorandum

To: Field Office Manger, Richfield Field Office

From: Michael Coulthard, Petroleum Engineer

Subject: 2004 Plan of Development Wolverine Unit 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 wells are planned for calendar year 2004 within the Wolverine Unit, Sevier County, Utah.

API #	WELL NAME	LOCATION
(Proposed PZ Navajo)		
43-041-30032	Wolverine Federal	20-1 Sec 17 T23S R01W 0833 FSL 1925 FWL
	BHL	Sec 20 T23S R01W 0660 FNL 0660 FWL
43-041-30033	Wolverine Federal	19-1 Sec 17 T23S R01W 0857 FSL 1919 FWL
	BHL	Sec 19 T23S R01W 0660 FNL 0660 FEL
43-041-30034	Wolverine Federal	18-1 Sec 17 T23S R01W 0845 FSL 1922 FWL
	BHL	Sec 18 T23S R01W 0660 FSL 0660 FEL
43-041-30035	Wolverine Federal	17-4 Sec 17 T23S R01W 1736 FNL 2298 FWL
	BHL	Sec 17 T23S R01W 1980 FSL 1980 FEL
43-041-30036	Wolverine Federal	17-3 Sec 17 T23S R01W 1736 FNL 2283 FWL
	BHL	Sec 17 T23S R01W 1980 FSL 0660 FWL
43-041-30037	Wolverine State	16-1 Sec 17 T23S R01W 1736 FNL 2253 FWL
	BHL	Sec 16 T23S R01W 0660 FNL 0660 FWL
43-041-30038	Wolverine Federal	17-5 Sec 17 T23S R01W 1736 FNL 2268 FWL
	BHL	Sec 17 T23S R01W 1980 FNL 0660 FEL



State of Utah

Department of
Natural ResourcesROBERT L. MORGAN
*Executive Director*Division of
Oil, Gas & MiningLOWELL P. BRAXTON
*Division Director*OLENE S. WALKER
*Governor*GAYLE F. McKEACHNIE
Lieutenant Governor

August 19, 2004

Wolverine Gas & Oil Company of Utah, LLC
One Riverfront Plaza
Grand Rapids, MI 49503Re: Wolverine Federal 20-1 Well, Surface Location 833' FSL, 1925' FWL, SE SW,
Sec. 17, T. 23 South, R. 1 West, Bottom Location 660' FNL, 660' FWL,
NW NW, Sec. 20, 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 43-041-30032.

Sincerely,

for John R. Baza
Associate Director

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

Operator: Wolverine Gas & Oil Company of Utah, LLC
Well Name & Number Wolverine Federal 20-1
API Number: 43-041-30032
Lease: UTU-73528

Surface Location: SE SW **Sec.** 17 **T.** 23 South **R.** 1 West
Bottom Location: NW NW **Sec.** 20 **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 Dan Jarvis at (801) 538-5338

3. Reporting Requirements

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

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

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

6. 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.

008

**WOLVERINE GAS AND OIL COMPANY**
of Utah, LLC*Energy Exploration in Partnership with the Environment*

January 28, 2005

T. 235, R. 1W, S. 17

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

Via Fax (801) 359-3940

Re: Approved APDs
Wolverine Federal 18-1, 19-1 & 20-1

To Whom It May Concern:

Wolverine Gas and Oil Corporation of Utah, as operator of the captioned wells (API Nos. 43-041-30032, 43-041-30033 and 43-041-30034), hereby requests copies of the approved Applications to Drill with any conditions for approval for said wells. Please fax them to my attention at (616) 458-0869.

If you have any questions or concerns, please feel free to contact me.

Very truly,

Sue A. Benson

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JAN 28 2005
DIV. OF OIL, GAS & MINING



WOLVERINE GAS AND OIL CORPORATION

WOLVERINE GAS AND OIL CORPORATION

One Riverfront Plaza, 55 Campau NW
Grand Rapids, Michigan 49503-2616

Telephone: 616.458.1150
Fax: 616.458.0809

RECIPIENT: Vicky Dyson

UDOGM

DATE: 1-28-05

FROM: Sue Benson

TIME: 9:45 AM

MATERIALS SENT: Letter

FAX NO.: (801) 359-3940

NUMBER OF PAGES (including this cover sheet): 2

IF TRANSMISSION IS INCOMPLETE, PLEASE CALL Sue AT 616.458.1150.

COMMENTS, IF ANY:

CONFIDENTIALITY NOTICE

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

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JAN 28 2005

DIV. OF OIL, GAS & MINING

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

FORM 8

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
4304130032	Wolverine Federal 20-1		NWNW	20	23S	1W	Sevier
Action Code	Current Entity Number	New Entity Number	Spud Date		Entity Assignment Effective Date		
A	99999	14885	8/9/2005		8/17/05		
Comments: SHL SESW Sec 17 <i>NAVA</i>							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)

George C. Nicely - EXACT Engineering Inc

Name (Please Print)

Signature

Engineering Technician

Title

8/15/2005

Date

EXACT Engineering, Inc.

www.exactengineering.com

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

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

CONFIDENTIAL PLEASE!

August 15, 2005

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

Re: Wolverine Federal 20-1 well
Sec 17 T23S R01W
Sevier Co., UT
API# 43-041-30032

Dear Mr. Doucet,

On behalf of Wolverine Gas and Oil Company of Utah, LLC, please find enclosed daily drilling reports for the subject well from August 8, 2005 through August 13, 2005. The well spud at 07:30 am on August 9, 2005 and we are presently drilling at 2025'. We respectfully request that the enclosed information remain confidential.

Very Truly Yours,



Chris Nicely
Engineering Technician

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Enclosures

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

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DIV. OF OIL, GAS & MINING

Petroleum Engineering Consulting, Personnel & Jobsite Supervision

complete well design, construction & management, drilling, completion, production, pipelines, appraisals,
due diligence, acquisitions, procedures, temporary personnel and field supervision

Operator: Wolverine G&O Co of Utah, LLC **DAILY DRILLING REPORT** 24 hrs - midnight to midnight

DATE	WELL	CONTRACTOR	COUNTY, STATE	SPUD DATE	API#	SUPERVISOR	
08/13/05	Wolverine Federal 20-1	Unit Rig #111	Sevier, UT	8/9/05	43-041-30032	Rodger Rebsom	
DAYS F/SPUD	PRESENT OPERATIONS @ MIDNIGHT	TOTAL DEPTH	PROGRESS	DRILLING TIME	ROP	FORMATION	AUTH DEPTH
5	DRILLING	2,080	270	23.50	11.5	Arapian	7170 md

MUD DATA

WT	VIS.	WL	CK	PH	SAND	SOLIDS %	PV	YP	GELS	DEPTH	DATE/TIME	CHLORIDES	CALCIUM	MBT	SALT PPM
9.9	36		2/32	8.5	0.50	7.00	6	21	11/20	1913	8/13-0800	50,000	680		82,500

BIT DATA

BIT NO.	SIZE	MFG.	TYPE	IADC CODE	SERIAL NO.	JETS (1/32nd" or 1/16")		IN	OUT	FOOTAGE	HOURS	ROP	MTR	RPM RT-MTR	WOB	DULL CONDITION		
																T	B	G
1	17.500	VAREL	V-41		638083	4	X	24	120			18.8	Y	30-120	36			
												#VALUE!						
												#DIV/0!						
												#DIV/0!						

HYDRAULICS

PUMP NO	MANUFACTURER	LINER	STROKE LENGTH	GAL / STK	SPM	GPM	AV DP	AV DC	PUMP PRESS	MTR DIFF PRESS	HHP / IN ²	ECD	SLOW PUMP		
													67 spm	76 spm	100 spm
1	National	6"	8.5	2.96	100	310	93	108	1425	250			1		
2	National	6"	8.5	2.96	100	310							2		
3	National	6"	8.5	2.96	100	310							3		

DRILL STRING

GEOLOGIC

GENERAL INFO

DRILL STRING				GEOLOGIC				GENERAL INFO			
BOTTOMHOLE ASSEMBLY	LENGTH	O.D.	I.D.	FORMATION	MD	TVD	LITHOLOGY	RIG INFO			
BIT	1.50	17.500		SURFACE				Rig No	Unit 111		
MOTOR	27.96	X-OVER	2.870					Cell Nrren	918-645-6671		
X-OVER	3.04	5-8" HSW	150.880					Last BOP Test			
IBS-REAMER	5.65	X-OVER	2.460	GAS DATA				Next BOP Test			
UBHO	2.58	19-5" HSW	576.380	BOTTOMS UP TIME	BG GAS	CONN GAS	TRIP GAS	Last Safety Meeting	8/13		
MONEL	31.86	JARS	32.630	SHOWS				Last BOP Drill			
MONEL	30.70	3-5" HWDP	89.280	GAS UNITS	FROM	TO	ROP (FT/HR)	Last Operate Pipe Ra			
PONY MONEL	10.08							Last Operate Blind Ra			
SHOCK SUB.	11.80							Last Operate Annular			
STRING WT.	BHA WT.	PU WT.	SO WT.	ROT TORQUE	GRD ELEVATION	GL TO KB	KB ELEVATION	INTERMEDIATE CSG	LAST CASING	NEXT CASING	
91,000	58,000	115,000	80,000	240	5,839	17	5,856		20" @ 120'	13.375 @ 2500'	

SURVEYS

MD	INCL.	AZIMUTH	TVD	SECTION	N+ / S-	E+ / W-	DLS	TOOL	MD	INCL.	AZIMUTH	TVD	SECTION	N+ / S-	E+ / W-	DLS	TOOL
1,843	12.80	229.00	1827	184	-159	-96	2.54	MWD	2,032	17.50	237.60	2009	231	-188	-136	2.98	MWD
1,937	14.90	233.60	1919	206	-173	-114	2.52	MWD									

DAILY ACTIVITY

FROM	LAST 24 HOURS:		
0:00	17:00	17:00	DRILL FROM 1810' TO 2025'
17:00	17:30	0:50	SERVICE RIG
17:30	0:00	6:50	DRILL FROM 2025' TO 2080'

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DIV. OF OIL, GAS & MINING

Operator: Wolverine G&O Co of Utah, LLC

DAILY DRILLING REPORT

24 hrs - midnight to midnight

DATE	WELL	CONTRACTOR	COUNTY, STATE	SPUD DATE	API#	SUPERVISOR	
08/12/05	Wolverine Federal 20-1	Unit R.g #111	Sevier, UT	8/9/05	43-041-30032	Rodger Rebsom	
DAYS F/SPUD	PRESENT OPERATIONS @ MIDNIGHT	TOTAL DEPTH	PROGRESS	DRILLING TIME	ROP	FORMATION	AUTH. DEPTH
4	DRILLING	1,810	423	23.50	18.0	Arapian	7170 md

MUD DATA

WT	VIS	WL	CK	PH	SAND	SOLIDS %	PV	YP	GELS	DEPTH	DATE/TIME	CHLORIDES	CALCIUM	MBT	SALT PPM
9.5	34		2/32	7.5	0.50	7.00	5	17	10/19	1537	8/12-0800	30,000	400		49,500

BIT DATA

BIT NO.	SIZE	MFG	TYPE	IADC CODE	SERIAL NO.	JETS (1/32nd or TFA)			IN	OUT	FOOTAGE	HOURS	ROP	MTR	RPM	WOB	DULL CONDITION		
																	T	B	G
1	17.500	VAREL	V-41		638083	4	X	24	120		1690	80.50	21.0	Y	30-120	36			
													#VALUE!						
													#DIV/0!						
													#DIV/0!						

HYDRAULICS

PUMP NO.	MANUFACTURER	LINER	STROKE LENGTH	GAL / STK	SPM	GPM	AV DP	AV DC	PUMP PRESS	MTR DIFF PRESS	HHP / IN ²	ECD	SLOW PUMP		
													67 spm	76 spm	100 spm
1	National	6"	8.5	2.96	100	310	93	108	1275	250			1		
2	National	6"	8.5	2.96	100	310							2		
3	National	6"	8.5	2.96	100	310							3		

DRILL STRING

GEOLOGIC

GENERAL INFO

BOTTOMHOLE ASSEMBLY					FORMATION				LITHOLOGY				RIG INFO		
BIT	LENGTH	O.D.	ID.		SURFACE	MD	TVD								
MOTOR	27.96	X-OVER	2.870											Rig No	Unit 111
X-OVER	3.04	6-5/8"HSW	150.880											Cell Nrren	918-645-6671
IBS-REAMER	5.65	X-OVER	2.460											Last BOP Test	
UBHO	2.58	19-5"HSW	576.380											Next BOP Test	
MONEL	31.86	JARS	32.630											Last Safety Meeting	8/12
MONEL	30.70	3-5"HWDP	89.280											Last BOP Drill	
PONY MONEL	10.08													Last Operate Pipe Rar	
SHOCK SUB.	11.80													Last Operate Blind Ra	
														Last Operate Annular	
STRINGS WT.	BHA WT.	PU WT.	SO WT.	ROT. TORQUE	GRD. ELEVATION	GL TO KB	KB ELEVATION	INTERMEDIATE CSG	LAST CASING		NEXT CASING				
86,000	58,000	100,000	75,000	235	5,839	17	5,856			20" @ 120'	13.375 @ 2500				

SURVEYS

MD	INCL.	AZIMUTH	TVD	SECTION	N+ / S-	E+ / W-	DLS	TOOL	MD	INCL.	AZIMUTH	TVD	SECTION	N+ / S-	E+ / W-	DLS	TOOL
1,465	11.40	204.00	1457	110	-99	-53	1.01	MWD	1,654	10.90	216.00	1642	146	-130	-71	1.40	MWD
1,560	11.30	209.00	1550	128	-115	-61	1.10	MWD	1,748	11.30	219.00	1734	164	-145	-82	0.87	MWD

DAILY ACTIVITY

FROM	LAST 24 HOURS:		
0:00	17:00	17:00	DRILL FROM 1387' TO 1710'
17:00	17:30	0:50	SERVICE RIG
17:30	0:00	6:50	DRILL FROM 1710' TO 1810'

CONFIDENTIAL

Daily Total 24.00

Operator: Wolverine G&O Co of Utah, LLC **DAILY DRILLING REPORT** 24 hrs - midnight to midnight

DATE	WELL	CONTRACTOR	COUNTY, STATE	SPUD DATE	API#	SUPERVISOR	
08/11/05	Wolverine Federal 20-1	Unit Rig #111	Sevier, UT	8/9/05	43-041-30032	Rodger Rebsom	
DAYS F/SPUD	PRESENT OPERATIONS @ MIDNIGHT	TOTAL DEPTH	PROGRESS	DRILLING TIME	ROP	FORMATION	AUTH. DEPTH
3	DRILLING	1,387	550	23.50	23.4	Arapian	7170 md

MUD DATA

WT	VIS	WL	CK	PH	SAND	SOLIDS %	PV	YP	GELS	DEPTH	DATE/TIME	CHLORIDES	CALCIUM	MBT	SALT PPM
9.5	32		2/32	8.5	0.50	6.75	4	13	9/14	1048	8/11-0800	30,000	360		49,500

BIT DATA

BIT NO.	SIZE	MFG.	TYPE	IADC CODE	SERIAL NO.	JETS (1/2"nd of TFA)			IN	OUT	FOOTAGE	HOURS	ROP	MTR	RPM RT+MTR	WOB	DULL CONDITION		
																	T	B	G
1	17.500	VAREL	V-41		638083	4	X	24	120		1267	57.00	22.2	Y	30-120	20			
													#VALUE!						
													#DIV/0!						
													#DIV/0!						

HYDRAULICS

PUMP NO.	MANUFACTURER	LINER	STROKE LENGTH	GAL / STK	SPM	GPM	AV DP	AV DC	PUMP PRESS.	MTR DIFF PRESS.	HHP / IN ²	ECD	SLOW PUMP		
													67 spm	76 spm	100 spm
1	National	6"	8.5	2.96	100	310	93	108	1275	250			1		
2	National	6"	8.5	2.96	100	310							2		
3	National	6"	8.5	2.96	100	310							3		

DRILL STRING

GEOLOGIC

GENERAL INFO

DRILL STRING				GEOLOGIC				GENERAL INFO			
BOTTOMHOLE ASSEMBLY	LENGTH	O.D.	I.D.	FORMATION	MD	TVD	LITHOLOGY	RIG INFO			
BIT	1.50	17.500		SURFACE				Rig No	Unit 111		
MOTOR	27.96	X-OVER	2.870					Cell Ncrren	918-645-6671		
X-OVER	3.04	6-5/8"HSW	150.880					Last BOP Test			
IBS-REAMER	5.65	X-OVER	2.460					Next BOP Test			
UBHO	2.58	19-5"HSW	576.380					Last Safety Meeting	8/11		
MONEL	31.86	JARS	32.630					Last BOP Drill			
MONEL	30.70	3-5"HWDP	89.280					Last Operate Pipe Ra			
PONY MONEL	10.08							Last Operate Blind Ra			
SHOCK SUB.	11.80							Last Operate Annular			
STRING WT.	BHA WT.	PU WT.	SO WT.	ROY. TORQUE	GRD. ELEVATION	GL TO KB	KB ELEVATION	INTERMEDIATE CSG	LAST CASING		NEXT CASING
80,000	58,000	100,000	75,000	235	5,839	17	5,856		20" @ 120'		13.375 @ 2500'

SURVEYS

MD	INCL	AZIMUTH	TVD	SECTION	N+ / S-	E+ / W-	DLS	TOOL	MD	INCL	AZIMUTH	TVD	SECTION	N+ / S-	E+ / W-	DLS	TOOL
994	6.90	206.00	993	32	-28	-17	1.40	mwd	1,182	9.10	207.00	1179	58	-50	-29	1.34	mwd
1,088	7.90	210.00	1086	44	-38	-22	1.16	mwd	1,276	10.10	207.80	1272	73	-65	-36	1.06	mwd

DAILY ACTIVITY

FROM	TO	LAST 24 HOURS:
0:00	14:30	14.50 DRILL FROM 837' TO 1206'
14:30	15:00	0.50 SERVICE RIG
15:00	0:00	9.00 DRILL FROM 1206' TO 1387'

CONFIDENTIAL

Operator: Wolverine G&O Co of Utah, LLC

DAILY DRILLING REPORT

24 hrs - midnight to midnight

DATE	WELL	CONTRACTOR	COUNTY, STATE	SPUD DATE	API#	SUPERVISOR	
08/10/05	Wolverine Federal 20-1	Unit Rig #111	Sevier, UT	8/9/05	43-041-30032	Rodger Rebsom	
DAYS F/SPUD	PRESENT OPERATIONS @ MIDNIGHT	TOTAL DEPTH	PROGRESS	DRILLING TIME	ROP	FORMATION	AUTH. DEPTH
2	DRILLING	837	356	18.00	19.8	Arapian	7170 md

MUD DATA

WT	VIS	WL	CK	PH	SAND	SOLIDS %	PV	YP	GELS	DEPTH	DATE/TIME	CHLORIDES	CALCIUM	MBT	SALT PPM
8.6	27			12.0								31,000	380		

BIT DATA

BIT NO.	SIZE	MFG.	TYPE	IADC CODE	SERIAL NO.	JETS (1/32nd" or TFA)			IN	OUT	FOOTAGE	HOURS	ROP	MTR	RPM RT+MTR	WOB	DULL CONDITION		
																	T	B	G
1	17.500	VAREL	V-41		638083	4	X	24	120		717	33.50	21.4	Y	30-120	20			
													#VALUE!						
													#DIV/0!						
													#DIV/0!						

HYDRAULICS

PUMP NO.	MANUFACTURER	LINER	STROKE LENGTH	GAL / STK	SPM	GPM	AV DP	AV DC	PUMP PRESS.	MTR DIFF PRESS.	HHP / IN ²	ECD	SLOW PUMP		
													67 spm	76 spm	100 spm
1	National	6"	8.5	2.96	110	316	52/60		1050	250			1		
2	National	6"	8.5	2.96	110	316							2		
3	National	6"	8.5	2.96									3		

DRILL STRING

GEOLOGIC

GENERAL INFO

BOTTOMHOLE ASSEMBLY					FORMATION				LITHOLOGY				RIG INFO	
LENGTH	O.D.	I.D.			FORMATION	MD	TVD							
BIT	1.50	17.500			SURFACE							Rig No	Unit 111	
MOTOR	27.96	X-OVER	2.870									Cell Nrcen	918-645-6671	
X-OVER	3.04	6-5/8" HSW	150.880		GAS DATA						Last BOP Test			
IBS-REAMER	5.65	X-OVER	2.460		BOTTOMS UP TIME		BG GAS	CONN GAS	TRIP GAS		Next BOP Test			
UBHO	2.58	19-5" HSW	576.380									Last Safety Meeting 8/10		
MONEL	31.86	JARS	32.630		GAS UNITS		FROM	TO	ROF (FT/HR)		Last BOP Drill			
MONEL	30.70	3-5" HWDP	89.280									Last Operate Pipe Ra		
PONY MONEL	10.08											Last Operate Blind Ra		
SHOCK SUB.	11.80											Last Operate Annular		
STRING WT	BHA WT	PU WT	SO WT	ROT TORQUE	GRD ELEVATION	GL TO KB	KB ELEVATION	INTERMEDIATE CSG		LAST CASING		NEXT CASING		
65	45	75	60	225	5,839	17	5,856			20" @ 120'		13.375 @ 2500'		

SURVEYS

MD	INCL	AZIMUTH	TVD	SECTION	N+ / S-	E+ / W-	DLS	TOOL	MD	INCL	AZIMUTH	TVD	SECTION	N+ / S-	E+ / W-	DLS	TOOL
539	1.70	218.00	538	1	-3	1	1.34	MWD	720	3.10	218.00	719	9	-8	-4	0.89	MWD
629	2.30	221.00	628	4	-5	-1	0.68	MWD	812	4.20	220.00	811	15	-13	-8	1.21	MWD

DAILY ACTIVITY

FROM			LAST 24 HOURS:
0:00	10:30	10.50	DRILL FROM 481' TO 685'
10:30	11:00	0.50	SERVICE RIG
11:00	12:00	1.00	DRILL FROM 685' TO 715'
12:00	12:30	0.50	CIRC. TEST MWD FAILED
12:30	17:30	5.00	TRIP OUT-CHANGE OUT MWD-TRIP IN
17:30	0:00	6.50	DRILL FROM 715' TO 837'

CONFIDENTIAL

Operator: Wolverine G&O Co of Utah, LLC

DAILY DRILLING REPORT

24 hrs - midnight to midnight

DATE	WELL	CONTRACTOR	COUNTY, STATE	SPUD DATE	API#	SUPERVISOR	
08/09/05	Wolverine Federal 20-1	Unit Rig #111	Sevier, UT		43-041-30032	Rodger Rebsom	
DAYS F/SPUD	PRESENT OPERATIONS @ MIDNIGHT	TOTAL DEPTH	PROGRESS	DRILLING TIME	ROP	FORMATION	AUTH. DEPTH
1	DRILLING	481	361	15.50	23.3	Arapian	7170 md

MUD DATA

WT	VIS	WL	CK	PH	SAND	SOLIDS %	PV	YP	GELS	DEPTH	DATE/TIME	CHLORIDES	CALCIUM	MBT	SALT PPM
8.6	27			12.0								31,000	380		

BIT DATA

BIT NO	SIZE	MFG.	TYPE	IADC CODE	SERIAL NO.	JETS (1/32nd" or TFA)			IN	OUT	FOOTAGE	HOURS	ROP	MTR	RPM RT+MTR	WOB	DULL CONDITION		
																	T	B	G
1	17.500	VAREL	V-41		638083	4	X	24	120		361	15.50	23.3	Y	30-120	20			
													#VALUE!						
													#DIV/0!						
													#DIV/0!						

HYDRAULICS

PUMP NO.	MANUFACTURER	LINER	STROKE LENGTH	GAL / STK	SPM	GPM	AV DP	AV DC	PUMP PRESS.	MTR DIFF PRESS.	HHP / IN ²	ECD	SLOW PUMP		
													67 spm	76 spm	100 spm
1	National	6"	8.5	2.96	110	316	52/60		650	225			1		
2	National	6"	8.5	2.96	110	316							2		
3	National	6"	8.5	2.96									3		

DRILL STRING

GEOLOGIC

GENERAL INFO

BOTTOMHOLE ASSEMBLY					FORMATION				LITHOLOGY			RIG INFO	
LENGTH	O.D.	I.D.	FORMATION	MD	TVD	LITHOLOGY	RIG INFO						
BIT	1.50	17.500	Arapian				Rig No	Unit 111					
MOTOR	27.96		Twin Creek				Cell Nrren	918-645-6671					
X-OVER	3.04		Navajo				Last BOP Test						
IBS-REAMER	5.65		GAS DATA				Next BOP Test						
UBHO	2.58		BOTTOMS UP TIME	BG GAS	CONN GAS	TRIP GAS	Last Safety Meeting	8/9					
MONEL	31.86		SHOWS				Last BOP Drill						
MONEL	30.70		GAS UNITS	FROM	TO	ROP (FT/HR)	Last Operate Pipe Ra						
PONY MONEL	10.08						Last Operate Blind Ra						
SHOCK SUB.	11.80						Last Operate Annular						
STRING WT.	BHA WT.	PU WT.	SO WT.	ROT. TORQUE	GRD. ELEVATION	GL TO KB	KB ELEVATION	INTERMEDIATE CSG					
65	45	75	60	225	5,839	17	5,856	LAST CASING	NEXT CASING				
								20" @ 120'	13.375 @ 2500				

SURVEYS

MD	INCL.	AZIMUTH	TVD	SECTION	N+ / S-	E+ / W-	DLS	TOOL	MD	INCL.	AZIMUTH	TVD	SECTION	N+ / S-	E+ / W-	DLS	TOOL
173	0.50	108.00	173		0	1	0.29		357	0.10	201.00	357		-1	2	0.99	
266	0.90	112.00	266		-1	2	0.43		448	0.50	231.00	448		-1	2	0.46	

DAILY ACTIVITY

FROM	LAST 24 HOURS															
0:00	3:00	3:00	WELD ON CONDUCTOR - IN STALL ROTATING HEAD													
3:00	7:30	4:50	PICK - MAKE UP - BHA - TEST SAME.													
7:30	8:30	1:00	SPUD - DRILL FROM - 120 TO 145'													
8:30	9:30	1:00	SERVICE RIG - WORK ON KELLY SPINNERS.													
9:30	0:00	14.50	DRILL - 145' TO 481'													

CONFIDENTIAL

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

CONFIDENTIAL PLEASE!

August 29, 2005

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

Re: Wolverine Federal 20-1 well
Sec 17 T23S R01W
Sevier Co., UT
API# 43-041-30032

Dear Mr. Doucet,

On behalf of Wolverine Gas and Oil Company of Utah, LLC, please find enclosed daily drilling reports for the subject well from August 22, 2005 through August 28, 2005. Our depth is 6361' and we are preparing to run 9-5/8" casing. We respectfully request that the enclosed information remain confidential.

Very Truly Yours,



Chris Nicely
Engineering Technician

Enclosures

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

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DIV. OF OIL, GAS & MINING

Petroleum Engineering Consulting, Personnel & Jobsite Supervision

complete well design, construction & management, drilling, completion, production, pipelines, appraisals,
due diligence, acquisitions, procedures, temporary personnel and field supervision

DAILY DRILLING REPORT

24 hrs - midnight to midnight

Operator: Wolverine G&O Co of Utah, LLC

DATE	WELL	CONTRACTOR	COUNTY, STATE	SPUD DATE	API#	SUPERVISOR	
08/28/05	Wolverine Federal 20-1	Unit Rig #111	Sevier, UT	8/9/05	43-041-30032	George Urban	
DAYS F/ SPUD	PRESENT OPERATIONS @ MIDNIGHT	TOTAL DEPTH	PROGRESS	DRILLING TIME	ROP	FORMATION	AUTH. DEPTH
20	RUN 9 5/8" CASING	6,361	158	11.50	13.7	Arapian	7170 md

MUD DATA

WT	VIS.	WL	CK	PH	SAND	SOLIDS %	PV	YP	GELS	DEPTH	DATE/TIME	CHLORIDES	CALCIUM	MBT	SALT PPM
10.4	31	NC	2/32	6.8	0.50	5.00	5	5	4/8	6305	8/28/0800	165,000	3480		272,250

BIT DATA

BIT NO.	SIZE	MFG.	TYPE	IADC CODE	SERIAL NO.	JETS (1/32nd" or TFA)		IN	OUT	FOOTAGE	HOURS	ROP	MTR	RPM RT+MTR	WOB	DULL CONDITION			
						T	B									G			
6	12.25	REED	HP53A	537	PB4408	24	24	24	4027	5917	1890	75.50	25.0	Y	30/140	40/45	4	3	IN
7/5	12.25	REED	RR-HP53A	537	PB4407	24	24	24	5917	6361	444	23.00	19.3	Y	30/140	45	3	3	-1/16

HYDRAULICS

PUMP NO.	MANUFACTURER	LINER	STROKE LENGTH	GAL / STK	SPM	GPM	AV DP	AV DC	PUMP PRESS.	MTR DIFF PRESS.	HHP / IN ²	ECD	SLOW PUMP			
													68 spm	61 spm	75 spm	
1	National	6"	8.5	2.96	115	340	140	154	1850	200			1	280		
2	National	6"	8.5	2.96	115	340							2		200	
3	National	6"	8.5	2.96									3			

DRILL STRING

GEOLOGIC

GENERAL INFO

DRILL STRING					GEOLOGIC				GENERAL INFO			
BOTTOMHOLE ASSEMBLY	LENGTH	O.D.	I.D.		FORMATION	MD	TVD	LITHOLOGY	RIG INFO			
BIT	1.50	12.250			TWIN CREEK	6,154	5,730	LS-100%	Rig No Unit 111			
MOTOR	23.10	X-OVER	2.870						Cell Narren 918-645-6671			
UBHO	3.25	6-5/8"HSW	150.880						Last BOP Test 8/17			
MONEL	31.10	X-OVER	2.460		GAS DATA				Next BOP Test 9/17			
PONY MONEL	10.08	19-5"HSW	576.380		BOTTOMS UP TIME	BG GAS	CONN GAS	TRIP GAS	Last Safety Meeting 8/28			
SHOCK SUB.	11.80	JARS	32.630		SHOWS				Last BOP Drill 8/28			
		3-5"HWDP	89.280		GAS UNITS	FROM	TO	ROP (FT/HR)	Last Operate Pipe Ran 8/28			
									Last Operate Blind Ran 8/28			
BHA = 963.89									Last Operate Annular 8/28			
STRING WT.	BHA WT.	PU WT.	SO WT.	ROT. TORQUE	GRD. ELEVATION	GL TO KB	KB ELEVATION	INTERMEDIATE CSG	LAST CASING NEXT CASING			
172	58,000	235	140	180	5,839	17	5,856		13.375 @ 2440 9.625			

SURVEYS

MD	INCL.	AZIMUTH	TVD	SECTION	N+ / S-	E+ / W-	DLS	TOOL	MD	INCL.	AZIMUTH	TVD	SECTION	N+ / S-	E+ / W-	DLS	TOOL
6,250	12.50	220.10	5822	2000	-1520	-1299	5.37	MWD									MWD
6,316	12.10	214.40	5887	2014	-1532	-1308	1.94	MWD									

DAILY ACTIVITY

FROM	TO	LAST 24 HOURS:
0:00	11:30	11.50 DRILL FROM 6203' TO 6361' CASING TD.
11:30	12:30	1.00 CIRC. PUMP SWEEP TO SURFACE
12:30	14:00	1.50 SHORT TRIP 10 STANDS
14:00	15:00	1.00 CIRC. PUMP SLUG
15:00	19:30	4.50 POOH
19:30	21:00	1.50 LY/DN 6 5/8 HWDP, 8' MONELS, MUD MOTOR AND BIT.
21:00	22:00	1.00 HSM AND RIG UP FRANKS CASING CREW.
22:00	0:00	2.00 RUN 9 5/8" CASING.

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OFFICE OF OIL AND GAS DIVISION

CONFIDENTIAL

THIS AM RUNNING CASING

Daily Total 24.00

Operator: Wolverine G&O Co of Utah, LLC

DAILY DRILLING REPORT

24 hrs - midnight to midnight

DATE 08/26/05	WELL Wolverine Federal 20-1	CONTRACTOR Unit Rig #111	COUNTY, STATE Sevier, UT	SPUD DATE 8/9/05	API# 43-041-30032	SUPERVISOR George Urban
DAYS F/ SPUD 18	PRESENT OPERATIONS @ MIDNIGHT POOH	TOTAL DEPTH 5,917	PROGRESS 777	DRILLING TIME 21.00	ROP 37.0	FORMATION AUTH. DEPTH Arapian 7170 md

MUD DATA

WT	VIS.	WL	CK	PH	SAND	SOLIDS %	PV	YP	GELS	DEPTH	DATE/TIME	CHLORIDES	CALCIUM	MBT	SALT PPM
10.5	32	NC	2/32	10.0	0.50	5.30	5	7	5/9	5917	8/27/0800	177,000	3750		292,050

BIT DATA

BIT NO.	SIZE	MFG.	TYPE	IADC CODE	SERIAL NO.	JETS (1/32nd" or TFA)			IN	OUT	FOOTAGE	HOURS	ROP	MTR	RPM RT+MTR	WOB	DULL CONDITION		
																	T	B	G
6	12.25	REED	HP53A	537	PB4408	24	24	24	4027	5917	1890	75.50	25.0	Y	30/140	40/45			
													#DIV/0!						

HYDRAULICS

SLOW PUMP

PUMP NO.	MANUFACTURER	LINER	STROKE LENGTH	GAL / STK	SPM	GPM	AV DP	AV DC	PUMP PRESS.	MTR DIFF PRESS.	HHP / IN'	ECD	SLOW PUMP			
													68 spm	61 spm	75 spm	
1	National	6"	8.5	2.96	115	340	140	154	1850	200			1	220		
2	National	6"	8.5	2.96	115	340							2		200	
3	National	6"	8.5	2.96									3			

DRILL STRING

GEOLOGIC

GENERAL INFO

DRILL STRING				GEOLOGIC				GENERAL INFO				
BOTTOMHOLE ASSEMBLY	LENGTH	O.D.	I.D.	FORMATION	MD	TVD	LITHOLOGY	RIG INFO				
BIT	1.50	12.250						Rig No	Unit 111			
MOTOR	23.10	X-OVER	2.870					Cell Narren	918-645-6671			
UBHO	3.25	6-5/8"HSW	150.880					Last BOP Test	8/17			
MONEL	31.10	X-OVER	2.460	GAS DATA				Next BOP Test	9/17			
PONY MONEL	10.08	19-5"HSW	576.380	BOTTOMS UP TIME	BG GAS	CONN GAS	TRIP GAS	Last Safety Meeting	8/26			
SHOCK SUB.	11.80	JARS	32.630	SHOWS				Last BOP Drill	8/26			
		3-5"HWDP	89.280	GAS UNITS	FROM	TO	ROP (FT/HR)	Last Operate Pipe Ran	8/24			
								Last Operate Blind Ran	8/24			
BHA = 963.89								Last Operate Annular	8/24			
STRING WT.	BHA WT.	PU WT.	SO WT.	ROT. TORQUE	GRD. ELEVATION	GL TO KB	KB ELEVATION	INTERMEDIATE CSG	LAST CASING	NEXT CASING		
168	58,000	220	135	180	5,839	17	5,856		13.375 @ 2440	9.625		

SURVEYS

MD	INCL.	AZIMUTH	TVD	SECTION	N+ / S-	E+ / W-	DLS	TOOL	MD	INCL.	AZIMUTH	TVD	SECTION	N+ / S-	E+ / W-	DLS	TOOL
5,399	25.90	224.50	5027	1704	-1321	-1076	1.84	MWD	5,777	21.30	230.80	5373	1856	-1427	-1187	2.73	MWD
5,588	23.60	225.50	5200	1783	-1377	-1132	1.25	MWD	5,872	19.90	235.40	5462	1888	-1447	-1213	2.25	MWD

DAILY ACTIVITY

FROM			LAST 24 HOURS:
0:00	13:00	13.00	DRILL & SURVEY FROM 5140' TO 5601'
13:00	13:30	0.50	RIG SERVICE
13:30	16:00	2.50	DRILL & SURVEY FROM 5601' TO 5664'
16:00	16:30	0.50	LOST RIG AIR WORK ON AIR COMPRESSOR.
16:30	22:00	5.50	DRILL & SURVEY FROM 5664' TO 5917'
			100% SLIDE FROM 5664' TO 5917' (252') HOLE WANTS TO TURN WEST
22:00	23:00	1.00	CIRCULATE AND PUMP HI-VISE SWEEP TO SURFACE, PUMP SLUG.
23:00	0:00	1.00	POOH FOR SHARP BIT AND GAMMA.

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Daily Total 24.00

Operator: Wolverine G&O Co of Utah, LLC

DAILY DRILLING REPORT

24 hrs - midnight to midnight

DATE 08/25/05	WELL Wolverine Federal 20-1	CONTRACTOR Unit Rig #111	COUNTY, STATE Sevier, UT	SPUD DATE 8/9/05	API# 43-041-30032	SUPERVISOR George Urban	
DAYS F/SPUD 17	PRESENT OPERATIONS @ MIDNIGHT DRILLING	TOTAL DEPTH 5,140	PROGRESS 389	DRILLING TIME 18.50	ROP 21.0	FORMATION Arapian	AUTH. DEPTH 7170 md

MUD DATA

WT	VIS.	WL	CK	PH	SAND	SOLIDS %	PV	YP	GELS	DEPTH	DATE/TIME	CHLORIDES	CALCIUM	MBT	SALT PPM
10.1	31	NC	2/32	8.8	0.50	5.75	4	8	4/10	4785	8/25/0800	118,000	32000		194,700

BIT DATA

BIT NO.	SIZE	MFG.	TYPE	IADC CODE	SERIAL NO.	JETS (1/32nd" or TFA)			IN	OUT	FOOTAGE	HOURS	ROP	MTR	RPM RT+MTR	WOB	DULL CONDITION		
						T	B	G											
6	12.25	REED	HP53A	537	PB4408	24	24	24	4027		1113	54.50	20.4	Y	30/140	40/45			
													#DIV/0!						

HYDRAULICS

SLOW PUMP

PUMP NO.	MANUFACTURER	LINER	STROKE LENGTH	GAL / STK	SPM	GPM	AV DP	AV DC	PUMP PRESS.	MTR DIFF PRESS.	HHP / IN ²	ECD	SLOW PUMP		
													68 spm	61 spm	75 spm
1	National	6"	8.5	2.96	115				1850	200			1	240	
2	National	6"	8.5	2.96	115								2		200
3	National	6"	8.5	2.96									3		

DRILL STRING

GEOLOGIC

GENERAL INFO

DRILL STRING					GEOLOGIC				GENERAL INFO			
BOTTOMHOLE ASSEMBLY	LENGTH	O.D.	I.D.		FORMATION	MD	TVD	LITHOLOGY	RIG INFO			
BIT	1.50	12.250							Rig No Unit 111			
MOTOR	23.10	X-OVER	2.870						Cell Narren 918-645-6671			
UBHO	3.25	6-5/8"HSW	150.880						Last BOP Test 8/17			
MONEL	31.10	X-OVER	2.460		GAS DATA				Next BOP Test 9/17			
PONY MONEL	10.08	19-5"HSW	576.380		BOTTOMS UP TIME	BG GAS	CONN GAS	TRIP GAS	Last Safety Meeting 8/25			
SHOCK SUB.	11.80	JARS	32.630		SHOWS				Last BOP Drill 8/25			
		3-5"HWDP	89.280		GAS UNITS	FROM	TO	ROP (FT/HR)	Last Operate Pipe Ran 8/24			
									Last Operate Blind Ran 8/24			
BHA = 963.89									Last Operate Annular 8/24			
STRING WT.	BHA WT.	PU WT.	SO WT.	ROT. TORQUE	GRD. ELEVATION	GL TO KB	KB ELEVATION	INTERMEDIATE CSG	LAST CASING		NEXT CASING	
152	58,000	205	125	180	5,839	17	5,856		13.375 @ 2440		9.625	

SURVEYS

MD	INCL.	AZIMUTH	TVD	SECTION	N+ / S-	E+ / W-	DLS	TOOL	MD	INCL.	AZIMUTH	TVD	SECTION	N+ / S-	E+ / W-	DLS	TOOL
4,738	28.10	215.10	4443	1395	-1079	-884	0.84	MWD	5,021	28.20	216.60	4694	1527	-1187	-960	1.16	MWD
4,832	27.40	215.50	4527	1438	-1114	-909	0.77	MWD	5,115	29.50	218.70	4776	1572	-1223	-988	1.75	MWD

DAILY ACTIVITY

FROM			LAST 24 HOURS:
0:00	0:30	0.50	FINISH POOH FOR MWD
0:30	2:00	1.50	LY/DN MWD PK/UP NEW MWD CK BIT AND MOTOR AND TEST.
2:00	4:30	2.50	TIH
4:30	5:00	0.50	KELLY UP WASH 40' TO BOTTOM
5:00	10:00	5.00	DRILL & SURVEY FROM 4751' TO 4846'
10:00	10:30	0.50	RIG SERVICE
10:30	0:00	13.50	DRILL & SURVEY FROM 4846' TO 5140'

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THIS AM DRILLING @ 5330'

Daily Total 24.00

Operator: Wolverine G&O Co of Utah, LLC

DAILY DRILLING REPORT

24 hrs - midnight to midnight

DATE 08/24/05	WELL Wolverine Federal 20-1	CONTRACTOR Unit Rig #111	COUNTY, STATE Sevier, UT	SPUD DATE 8/9/05	API# 43-041-30032	SUPERVISOR George Urban	
DAYS F/ SPUD 16	PRESENT OPERATIONS @ MIDNIGHT POOH	TOTAL DEPTH 4,751	PROGRESS 377	DRILLING TIME 19.00	ROP 19.8	FORMATION Arapian	AUTH. DEPTH 7170 md

MUD DATA

WT	VIS.	WL	CK	PH	SAND	SOLIDS %	PV	YP	GELS	DEPTH	DATE/TIME	CHLORIDES	CALCIUM	MBT	SALT PPM
10.0	31	NC	2/32	10.0	0.50	5.20	3	11	5/12	4538	8/24/0800	117,000	32000		193,050

BIT DATA

BIT NO.	SIZE	MFG.	TYPE	IADC CODE	SERIAL NO.	JETS (1/32nd) or TFA			IN	OUT	FOOTAGE	HOURS	ROP	MTR	RPM RT-MTR	WOB	DULL CONDITION		
						T	B	G											
6	12.25	REED	HP53A	537	PB4408	24	24	24	4027		724	36.00	20.1	Y	30/140	40/45			
													#DIV/0!						

HYDRAULICS

PUMP NO.	MANUFACTURER	LINER	STROKE LENGTH	GAL / STK	SPM	GPM	AV DP	AV DC	PUMP PRESS.	MTR DIFF PRESS.	HHP / IN'	ECD	SLOW PUMP			
													69 spm	76 spm	75 spm	
1	National	6"	8.5	2.96	115				1750	125			1	280		
2	National	6"	8.5	2.96	115								2			
3	National	6"	8.5	2.96									3			280

DRILL STRING

DRILL STRING				GEOLOGIC				GENERAL INFO				
BOTTOMHOLE ASSEMBLY	LENGTH	O.D.	I.D.	FORMATION	MD	TVD	LITHOLOGY	RIG INFO				
BIT	1.50	12.250						Rig No	Unit 111			
MOTOR	23.10	X-OVER	2.870					Cell Narren	918-645-6671			
UBHO	3.25	6-5/8"HSW	150.880					Last BOP Test	8/17			
MONEL	31.10	X-OVER	2.460	GAS DATA				Next BOP Test	9/17			
PONY MONEL	10.08	19-5"HSW	576.380	BOTTOMS UP TIME	BG GAS	CONN GAS	TRIP GAS	Last Safety Meeting	8/24			
SHOCK SUB.	11.80	JARS	32.630	SHOWS				Last BOP Drill	8/24			
		3-5"HWDP	89.280	GAS UNITS	FROM	TO	ROP (FT/HR)	Last Operate Pipe Ran	8/23			
								Last Operate Blind Ran	8/23			
BHA = 963.89								Last Operate Annular	8/23			
STRING WT.	BHA WT.	PU WT.	SO WT.	ROT. TORQUE	GRD. ELEVATION	GL TO KB	KB ELEVATION	INTERMEDIATE CSG	LAST CASING	NEXT CASING		
145	58,000	198	120	200	5,839	17	5,856		13.375 @ 2440	9.625		

SURVEYS

MD	INCL.	AZIMUTH	TVD	SECTION	N+ / S-	E+ / W-	DLS	TOOL	MD	INCL.	AZIMUTH	TVD	SECTION	N+ / S-	E+ / W-	DLS	TOOL
4,360	26.60	214.40	4106	1224	-939	-785	0.78	MWD	4,549	26.20	216.00	4275	1309	-1008	-834	0.60	MWD
4,455	26.60	215.10	4191	1267	-974	-810	0.33	MWD									MWD

DAILY ACTIVITY

FROM	LAST 24 HOURS:		
0:00	15:00	15.00	DRILL & SURVEY FROM 4374' to 4657'
15:00	17:00	2.00	C/O PUMPS, NO SURVEY, C/O MWD TRANSDUCER, RIG SERVICE
17:00	21:00	4.00	DRILL & TRY TO SURVEY FROM 4657' TO 4751'
21:00	22:00	1.00	TRY SURVEY, MWD NOT WORKING, BUILD AND PUMP SLUG
22:00	0:00	2.00	POOH FOR MWD

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DIV. OF OIL & GAS MINING

CONFIDENTIAL

THIS AM DRILLING @ 4765'

Daily Total 24.00

Operator: Wolverine G&O Co of Utah, LLC

DAILY DRILLING REPORT

24 hrs - midnight to midnight

DATE 08/23/05	WELL Wolverine Federal 20-1	CONTRACTOR Unit Rig #111	COUNTY, STATE Sevier, UT	SPUD DATE 8/9/05	API# 43-041-30032	SUPERVISOR George Urban	
DAYS F/SPUD 15	PRESENT OPERATIONS @ MIDNIGHT Drilling	TOTAL DEPTH 4,374	PROGRESS 347	DRILLING TIME 17.00	ROP 20.4	FORMATION Arapian	AUTH. DEPTH 7170 md

MUD DATA

WT	VIS.	WL	CK	PH	SAND	SOLIDS %	PV	YP	GELS	DEPTH	DATE/TIME	CHLORIDES	CALCIUM	MBT	SALT PPM
9.9	31	NC	2/32	9.0	0.50	5.50	3	9	4/9	4085	8/23/0800	110,000	3100		181,500

BIT DATA

BIT NO.	SIZE	MFG.	TYPE	IADC CODE	SERIAL NO.	JETS (1/32nd" or TFA)			IN	OUT	FOOTAGE	HOURS	ROP	MTR	RPM RT+MTR	WOB	DULL CONDITION		
																	T	B	G
6	12.25	REED	HP53A	537	PB4408	24	24	24	4027		347	17.00	20.4	Y	30/140	40/45			
													#DIV/O!						

HYDRAULICS

SLOW PUMP

PUMP NO.	MANUFACTURER	LINER	STROKE LENGTH	GAL / STK	SPM	GPM	AV DP	AV DC	PUMP PRESS.	MTR DIFF PRESS.	HHP / IN'	ECD	SLOW PUMP			
													69 spm	76 spm	75 spm	
1	National	6"	8.5	2.96	115				1750	125			1	280		
2	National	6"	8.5	2.96	115								2			
3	National	6"	8.5	2.96									3			280

DRILL STRING

GEOLOGIC

GENERAL INFO

DRILL STRING				GEOLOGIC				GENERAL INFO			
BOTTOMHOLE ASSEMBLY	LENGTH	O.D.	I.D.	FORMATION	MD	TVD	LITHOLOGY	RIG INFO			
BIT	1.50	12.250						Rig No Unit 111			
MOTOR	23.10	X-OVER	2.870					Cell Narren 918-645-6671			
UBHO	3.25	6-5/8"HSW	150.880					Last BOP Test		8/17	
MONEL	31.10	X-OVER	2.460	GAS DATA				Next BOP Test		9/17	
PONY MONEL	10.08	19-5"HSW	576.380	BOTTOMS UP TIME	BG GAS	CONN GAS	TRIP GAS	Last Safety Meeting 8/23			
SHOCK SUB.	11.80	JARS	32.630	SHOWS				Last BOP Drill 8/23			
		3-5"HWDP	89.280	GAS UNITS	FROM	TO	ROP (FT/HR)	Last Operate Pipe Ran 8/23			
								Last Operate Blind Ran 8/23			
BHA = 963.89								Last Operate Annular 8/23			
STRING WT.	BHA WT.	PU WT.	SO WT.	ROT. TORQUE	GRD. ELEVATION	GL TO KB	KB ELEVATION	INTERMEDIATE CSG	LAST CASING		NEXT CASING
140	58,000	180	120	200	5,839	17	5,856		13.375 @ 2440		9.625

SURVEYS

MD	INCL.	AZIMUTH	TVD	SECTION	N+ / S-	E+ / W-	DLS	TOOL	MD	INCL.	AZIMUTH	TVD	SECTION	N+ / S-	E+ / W-	DLS	TOOL
3,928	25.70	214.30	3769	1055	-797	-691	0.81	MWD	4,171	27.40	213.60	3938	1139	-868	-738	0.86	MWD
4,077	26.60	213.40	3854	1096	-832	-714	1.04	MWD	4,266	27.10	213.20	4023	1182	-904	-762	0.37	MWD

DAILY ACTIVITY

FROM			LAST 24 HOURS:
0:00	0:30	0.50	TEST MWD AND MOTOR MAKE UP BIT
0:30	3:00	2.50	TIH
3:00	3:30	0.50	REAM FROM 3953' TO 4027'
3:30	6:00	2.50	DRILL 12 1/4" HOLE FROM 4027' TO 4085'
6:00	9:00	3.00	WELD ON 4" MUD LINE UNDER THE SUB.
9:00	16:00	7.00	DRILL & SURVEY FROM 4085' TO 4216'
16:00	16:30	0.50	RIG SERVICE
16:30	0:00	7.50	DRILL & SURVEY FROM 4216' TO 4374'

RECEIVED
 SEP 01 2005
 CONFIDENTIAL
 DRAINING

THIS AM DRILLING @ 4500

Daily Total 24.00

Operator: Wolverine G&O Co of Utah, LLC

DAILY DRILLING REPORT

24 hrs - midnight to midnight

DATE 08/22/05	WELL Wolverine Federal 20-1	CONTRACTOR Unit Rig #111	COUNTY, STATE Sevier, UT	SPUD DATE 8/9/05	API# 43-041-30032	SUPERVISOR George Urban	
DAYS F/ SPUD 14	PRESENT OPERATIONS @ MIDNIGHT TIH	TOTAL DEPTH 4,027	PROGRESS 0	DRILLING TIME 0.00	ROP #DIV/O!	FORMATION Arapian	AUTH. DEPTH 7170 md

MUD DATA

WT	VIS.	WL	CK	PH	SAND	SOLIDS %	PV	YP	GELS	DEPTH	DATE/TIME	CHLORIDES	CALCIUM	MBT	SALT PPM
9.9	31	NC	2/32	9.2	0.50	5.25	4	7	5/10	4027	8/22/0800	105,000	3080		173,250

BIT DATA

BIT NO.	SIZE	MFG.	TYPE	IADC CODE	SERIAL NO.	JETS (1/32nd" or TFA)			IN	OUT	FOOTAGE	HOURS	ROP	MTR	RPM RT+MTR	WOB	DULL CONDITION		
																	T	B	G
4	12.25	REED	EHP-53A	537	5767	24	24	24	2709	3618	909	39.00	23.3	Y	30+132	35-40	6	2	-1/8
5	12.25	REED	HP53A	537	PB4407	24	24	24	3618	4027	409	16.00	25.6	Y	30/140	35-40	2	2	IN
6	12.25	REED	HP53A	537	PB4408	24	24	24	4027										

HYDRAULICS

SLOW PUMP

PUMP NO.	MANUFACTURER	LINER	STROKE LENGTH	GAL / STK	SPM	GPM	AV DP	AV DC	PUMP PRESS.	MTR DIFF PRESS.	HHP / IN ²	ECD	SLOW PUMP		
													67 spm	76 spm	100 spm
1	National	6"	8.5	2.96	115				1450	225			1	180	
2	National	6"	8.5	2.96	115								2		220
3	National	6"	8.5	2.96									3		

DRILL STRING

GEOLOGIC

GENERAL INFO

DRILL STRING					GEOLOGIC				GENERAL INFO	
BOTTOMHOLE ASSEMBLY	LENGTH	O.D.	I.D.		FORMATION	MD	TVD	LITHOLOGY	RIG INFO	
BIT	1.50	12.250							Rig No Unit 111	
MOTOR	23.10	X-OVER	2.870						Cell Narren 918-645-6671	
UBHO	3.25	6-5/8"HSW	150.880						Last BOP Test 8/17	
MONEL	31.10	X-OVER	2.460		GAS DATA				Next BOP Test 9/17	
PONY MONEL	10.08	19-5"HSW	576.380		BOTTOMS UP TIME	BG GAS	CONN GAS	TRIP GAS	Last Safety Meeting 8/22	
SHOCK SUB.	11.80	JARS	32.630		SHOWS				Last BOP Drill 8/22	
		3-5"HWDP	89.230		GAS UNITS	FROM	TO	ROP (FT/HR)	Last Operate Pipe Ran 8/22	
									Last Operate Blind Ran 8/22	
									Last Operate Annular 8/22	
BHA = 963.89					GRD. ELEVATION	GL TO KB	KB ELEVATION	INTERMEDIATE CSG	LAST CASING NEXT CASING	
STRING WT.	BHA WT.	PU WT.	SO WT.	ROT. TORQUE	5,839	17	5,856		13.375 @ 2440 9.625	

SURVEYS

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

DAILY ACTIVITY

FROM			LAST 24 HOURS:
0:00	5:00	5.00	WAIT ON FISHING TOOLS.
5:00	6:00	1.00	MAKE UP FISHING TOOLS
6:00	10:00	4.00	TIH W/FISHING TOOLS
10:00	12:00	2.00	WORK FISHING TOOLS STARTED TAKING WT. 16' OFF BOTTOM
12:00	15:30	3.50	POOH WORK TIGHT SPOT AT 3005' NO FISH
15:30	16:00	0.50	CHANGE OUT LIP SHOE GUIDE
16:00	18:30	2.50	TIH W/ FISHING TOOL BHA # 2
18:30	19:30	1.00	WORK FISHING TOOLS
19:30	22:00	2.50	POOH
22:00	22:30	0.50	RETRIVE FISH AND LAY DOWN FISHING TOOLS
22:30	0:00	1.50	PICK UP DIRECTIONAL BHA

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SEP 01 2005

THIS AM DRILLING @ 4080

DIV OF OIL, GAS & MINING

Daily Total 24.00

COST DATA

EXACT Engineering, Inc.

www.exactengineering.com

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

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

CONFIDENTIAL PLEASE!

September 6, 2005

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

Re: Wolverine Federal 20-1 well
Sec 17 T23S R01W
Sevier Co., UT
API# 43-041-30032

Dear Mr. Doucet,

On behalf of Wolverine Gas and Oil Company of Utah, LLC, please find enclosed daily drilling reports for the subject well from August 29, 2005 through September 4, 2005. We have reached total depth of 7,158' and ran and cemented 7" production casing. We respectfully request that the enclosed information remain confidential.

Very Truly Yours,



Chris Nicely
Engineering Technician

Enclosures

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

RECEIVED

SEP 09 2005

DIV. OF OIL, GAS & MINING

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

Operator: Wolverine G&O Co of Utah, LLC

DAILY DRILLING REPORT

24 hrs - midnight to midnight

DATE	WELL	CONTRACTOR	COUNTY, STATE	SPUD DATE	AP#	SUPERVISOR	
09/04/05	Wolverine Federal 20-1	Unit Rig #111	Sevier, UT	8/9/05	43-041-30032	NAYLOR-REBSOM	
DAYS F/ SPUD	PRESENT OPERATIONS @ MIDNIGHT	TOTAL DEPTH	PROGRESS	DRILLING TIME	ROP	FORMATION	AUTH. DEPTH
27	CUT OFF 7" CASING	7,158	0	0.00	#DIV/0!	navajo	7170 md

MUD DATA

WT	VIS.	WL	CK	PH	SAND	SOLIDS %	PV	YP	GELS	DEPTH	DATE/TIME	CHLORIDES	CALCIUM	MBT	SALT PPM
8.5	35	8.0	1/32	8.8	0.50	1.10	5	7	4/8	7158	9/4/050800	3,400	140		5,610

BIT DATA

BIT NO.	SIZE	MFG.	TYPE	IADC CODE	SERIAL NO.	JETS (1/32nd" or TFA)			IN	OUT	FOOTAGE	HOURS	ROP	MTR	RPM	WOB	DULL CONDITION		
						T	B	G											
8	8.50	SEC	EBXS30S	537	10686495	12	12	12	6361	6666	305	22.00	13.9	Y	30/120	40/45	8	E	I
9	8.50	SEC	ERA33	547	731186	14	14	14	6666	7158	492	22.50	21.9	Y	30/120	40/45	5	E	I
RR9	8.50	SEC	ERA33	547	731186	14	14	14	7158	7158	0	0.00		N	45	0	5	E	I

HYDRAULICS

PUMP NO.	MANUFACTURER	LINER	STROKE LENGTH	GAL / STK	SPM	GPM	AV DP	AV DC	PUMP PRESS.	MTR DIFF PRESS.	HHP / IN ²	ECD	SLOW PUMP			
													66 spm	59 spm	75 spm	
1	National	6"	8.5	2.96	120	355							1	460		
2	National	6"	8.5	2.96									2		400	
3	National	6"	8.5	2.96									3			

DRILL STRING

GEOLOGIC

GENERAL INFO

DRILL STRING					GEOLOGIC				GENERAL INFO			
BOTTOMHOLE ASSEMBLY	LENGTH	O.D.	I.D.		FORMATION	MD	TVD	LITHOLOGY	RIG INFO			
					TWIN CREEK	6,154	5,730	LS-100%	Rig No Unit 111			
					Navajo	6,465	6,032	Sand	Cell Narren 918-645-6671			
					GAS DATA							
					BOTTOMS UP TIME	BG GAS	CONN GAS	TRIP GAS	Last BOP Test 8/29			
					SHOWS				Next BOP Test 9/29			
					GAS UNITS	FROM	TO	ROP (F/HR)	Last Safety Meeting 9/4			
									Last BOP Drill 9/3			
									Last Operate Pipe Ran 9/3			
									Last Operate Blind Ran 9/3			
									Last Operate Annular 9/3			
									LAST CASING NEXT CASING			
STRING WT.	BHA WT.	PU WT.	SO WT.	ROT. TORQUE	GRD. ELEVATION	GL TO KB	KB ELEVATION	INTERMEDIATE CSG	9.625 @ 6350' 7			
175,000	0	245,000	125,000	0	5,839	17	5,856	9.625				

SURVEYS

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

DAILY ACTIVITY

FROM	LAST 24 HOURS:		
0:00	1:00	1.00	FINISH LAYING DOWN BHA.
1:00	8:30	7.50	RIG UP RUN 168 JOINTS 7" CASING-23# - P 110 - CASING SHOE SET @ 7157'
8:30	11:30	3.00	RIG UP CIRC. CASING - WASH 8' TO BOTTOM 2' FILL
11:30	13:30	2.00	RIG UP CEMENT PUMP 10 BBL KCL-20 BBL SUPERFLUSH-10 BBL KCL.FOLLOWED BY 190 SKS.G-50/50 POZ 2%GEL,5%SALT,5#/SK GILSONITE,.3%HALAD-344,.2%SUPER CBL W/Rq 7.18 YEILD 1.23 LBS/GAL 14.4 DISPLACE 280 BBLs H2O BUMP PLUG 1418 PSI = 500 OVER PLUG DID NOT HOLD. GOOD CIRC. THREW OUT CEMENT JOB.
13:30	22:30	9.00	WAIT ON CEMENT - HELD 800 PSI BACK PRESSURE
			TRANSFER MUD - CLEAN MUD TANKS - SET OUT KELLY - SUBS - FOR INSPECTION
22:30	0:00	1.50	BLEED OFF PRESSURE - SET SLIPS @ 175,000 - RUFF CUT CASING 12" ABOVE SLIPS

CONFIDENTIAL

Daily Total 24.00

Engineering & Supervisi

EXACT Engineering, Inc.

(918) 599-9400

Operator: Wolverine G&O Co of Utah, LLC

DAILY DRILLING REPORT

24 hrs - midnight to midnight

DATE	WELL	CONTRACTOR	COUNTY, STATE	SPUD DATE	API#	SUPERVISOR	
09/03/05	Wolverine Federal 20-1	Unit Rig #111	Sevier, UT	8/9/05	43-041-30032	NAYLOR-REBSOM	
DAYS F/ SPUD	PRESENT OPERATIONS @ MIDNIGHT	TOTAL DEPTH	PROGRESS	DRILLING TIME	ROP	FORMATION	AUTH. DEPTH
26	LAYING DOWN BHA.	7,158	0	0.00	#DIV/0!	navajo	7170 md

MUD DATA

WT	VIS.	WL	CK	PH	SAND	SOLIDS %	PV	YP	GELS	DEPTH	DATE/TIME	CHLORIDES	CALCIUM	MBT	SALT PPM
8.4	35	8.0	1/32	9.0	0.50	0.50	7	9	5/9	6923	9/2/0800	3,200	130		5,280

BIT DATA

BIT NO.	SIZE	MFG.	TYPE	IADC CODE	SERIAL NO.	JETS (1/32nd" of TFA)			IN	OUT	FOOTAGE	HOURS	ROP	MTR	RPM RT+MTR	WOB	DULL CONDITION		
																	T	B	G
8	8.50	SEC	EBXS30S	537	10686495	12	12	12	6361	6666	305	22.00	13.9	Y	30/120	40/45	8	E	I
9	8.50	SEC	ERA33	547	731186	14	14	14	6666	7158	492	22.50	21.9	Y	30/120	40/45	5	E	I
RR9	8.50	SEC	ERA33	547	731186	14	14	14	7158	7158	0	0.00		N	45	0	5	E	I

HYDRAULICS

PUMP NO.	MANUFACTURER	LINER	STROKE LENGTH	GAL / STK	SPM	GPM	AV DP	AV DC	PUMP PRESS.	MTR DIFF PRESS.	HHP / IN ²	ECD	SLOW PUMP		
													66 spm	59 spm	75 spm
1	National	6"	8.5	2.96	120	355							1	460	
2	National	6"	8.5	2.96									2		400
3	National	6"	8.5	2.96									3		

DRILL STRING

GEOLOGIC

GENERAL INFO

DRILL STRING				GEOLOGIC				GENERAL INFO			
BOTTOMHOLE ASSEMBLY	LENGTH	O.D.	I.D.	FORMATION	MD	TVD	LITHOLOGY	RIG INFO			
				TWIN CREEK	6,154	5,730	LS-100%	Rig No	Unit 111		
				Navajo	6,465	6,032	Sand	Cell Narren	918-645-6671		
				GAS DATA				Last BOP Test	8/29		
				BOTTOMS UP TIME	BG GAS	CONN GAS	TRIP GAS	Next BOP Test	9/29		
				SHOWS				Last Safety Meeting	9/3		
				GAS UNITS	FROM	TO	ROP (FT/HR)	Last BOP Drill	9/3		
								Last Operate Pipe Ran	9/3		
								Last Operate Blind Ran	9/3		
								Last Operate Annular	9/3		
STRING WT.	BHA WT.	PU WT.	SO WT.	ROT. TORQUE	GRD. ELEVATION	GL TO KB	KB ELEVATION	INTERMEDIATE CSG	LAST CASING	NEXT CASING	
32,000	55	34,000	28,000	90	5,839	17	5,856	9.625	9.625 @ 6350'	7	

SURVEYS

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

DAILY ACTIVITY

FROM	LAST 24 HOURS:		
0:00	10:00	10:00	WIRE LINE LOGS-RUN #1=INDUCTION-#2=DENSITY NEUTRON-#3=MRIL-#4=DIPMETER
10:00	13:00	3:00	WORK BLIND RAMS - TRIP IN HOLE TO 7132'
13:00	13:30	0:50	WASH & REAM FROM 7132' TO 7158'
13:30	16:30	3:00	CIRC.COND MUD - RIG UP LAYDOWN MACHINE - PUMP PILL
16:30	0:00	7:50	LAY DOWN DRILL PIPE & BHA - BREAK KELLY

CONFIDENTIAL

Daily Total 24.00

Engineering & Supervis.

EXACT Engineering, Inc.

(918) 599-9400

DAILY DRILLING REPORT

24 hrs - midnight to midnight

Operator: Wolverine G&O Co of Utah, LLC

DATE	WELL	CONTRACTOR	COUNTY, STATE	SPUD DATE	API#	SUPERVISOR	
09/01/05	Wolverine Federal 20-1	Unit Rig #111	Sevier, UT	8/9/05	43-041-30032	DL Naylor	
DAYS F/ SPUD	PRESENT OPERATIONS @ MIDNIGHT	TOTAL DEPTH	PROGRESS	DRILLING TIME	ROP	FORMATION	AUTH. DEPTH
24	Logging	7,158	417	16.00	26.1	navajo	7170 md

MUD DATA

WT	VIS.	WL	CK	PH	SAND	SOLIDS %	PV	YP	GELS	DEPTH	DATE/TIME	CHLORIDES	CALCIUM	MBT	SALT PPM
8.4	35	8.0	1/32	9.0	0.50	0.50	7	9	5/9	6923	9/1/0800	3,200	130		5,280

BIT DATA

BIT NO.	SIZE	MFG.	TYPE	IADC CODE	SERIAL NO.	JETS (1/32nd) or TFA			IN	OUT	FOOTAGE	HOURS	ROP	MTR	RPM RT+MTR	WOB	DULL CONDITION		
																	T	B	G
8	8.50	SEC	EBXS30S	537	10686495	12	12	12	6361	6666	305	22.00	13.9	Y	30/120	40/45	8	E	I
9	8.50	SEC	ERA33	547	731186	14	14	14	6666	7158	492	22.50	21.9	Y	30/120	40/45			

HYDRAULICS

PUMP NO.	MANUFACTURER	LINER	STROKE LENGTH	GAL / STK	SPM	GPM	AV DP	AV DC	PUMP PRESS.	MTR DIFF PRESS.	HHP / IN ²	ECD	SLOW PUMP			
													66 spm	59 spm	75 spm	
1	National	6"	8.5	2.96	120	355							1	460		
2	National	6"	8.5	2.96									2		400	
3	National	6"	8.5	2.96									3			

DRILL STRING

GEOLOGIC

GENERAL INFO

DRILL STRING				GEOLOGIC				GENERAL INFO				
BOTTOMHOLE ASSEMBLY	LENGTH	O.D.	I.D.	FORMATION	MD	TVD	LITHOLOGY	RIG INFO				
BIT	1.00	19-5"HSW	576.380	TWIN CREEK	6,154	5,730	LS-100%	Rig No Unit 111				
MOTOR	20.37	JARS	32.630	Navajo	6,465	6,032	Sand	Cell Narren 918-645-6671				
FLOAT	2.63	4-5"HWDP	119.220	GAS DATA				Last BOP Test 8/29				
UBHO-SUB	2.60			BOTTOMS UP TIME BG GAS CONN GAS TRIP GAS				Next BOP Test 9/29				
6 1/2 MONEL	31.04			SHOWS				Last Safety Meeting 8/30				
XO-SUB	1.90			GAS UNITS FROM TO ROP (FT/HR)				Last BOP Drill 8/30				
BHA = 787.78				INTERMEDIATE CSG				Last Operate Pipe Ran 8/29				
STRING WT.	BHA WT.	PU WT.	SO WT.	ROY. TORQUE	GRD. ELEVATION	GL TO KB	KB ELEVATION	Last Operate Blind Ran 8/29				
175	55	245	140	140	5,839	17	5,856	9.625	Last Operate Annular 8/29			
								LAST CASING NEXT CASING				
								9.625 @ 6350' 7				

SURVEYS

MD	INCL.	AZIMUTH	TVD	SECTION	N+ / S-	E+ / W-	DLS	TOOL	MD	INCL.	AZIMUTH	TVD	SECTION	N+ / S-	E+ / W-	DLS	TOOL
6,924	10.40	232.70	6484	2129	-1623	-1377	0.70	MWD									MWD
7,113	10.50	239.40	6670	2161	-1642	-1405	0.67	MWD									MWD

DAILY ACTIVITY

FROM	LAST 24 HOURS:		
0:00	16:00	16.00	Drill & survey 6741 to 7158
16:00	16:30	0.50	Rig service
16:30	18:00	1.50	Circulate & condition for logs
18:00	22:00	4.00	POOH for logs
22:00	23:00	1.00	LD directional tools
23:00	0:00	1.00	Logging run # 1 HRI

CONFIDENTIAL

This am. Logging truck broke down with tools @ 5700' in cased hole

Daily Total 24.00

Operator: Wolverine G&O Co of Utah, LLC **DAILY DRILLING REPORT** 24 hrs - midnight to midnight

DATE	WELL	CONTRACTOR	COUNTY, STATE	SPUD DATE	API#	SUPERVISOR	
08/31/05	Wolverine Federal 20-1	Unit Rig #111	Sevier, UT	8/9/05	43-041-30032	DL Naylor	
DAYS F/ SPUD	PRESENT OPERATIONS @ MIDNIGHT	TOTAL DEPTH	PROGRESS	DRILLING TIME	ROP	FORMATION	AUTH. DEPTH
23	DRILLING	6,741	166	15.50	10.7	navajo	7170 md

MUD DATA

WT	VIS.	WL	CK	PH	SAND	SOLIDS %	PV	YP	GELS	DEPTH	DATE/TIME	CHLORIDES	CALCIUM	MBT	SALT PPM
8.5	36	7.0	1/32	9.5	0.50	1.20	7	11	6/10	6656	8/31/0800	2,700	120		4,455

BIT DATA

BIT NO.	SIZE	MFG.	TYPE	IADC CODE	SERIAL NO.	JETS (1/32nd" or TFA)			IN	OUT	FOOTAGE	HOURS	ROP	MTR	RPM RT+MTR	WOB	DULL CONDITION		
																	T	B	G
8	8.50	SEC	EBXS30S	537	10686495	12	12	12	6361	6666	305	22.00	13.9	Y	30/120	40/45	8	E	I
9	8.50	SEC	ERA33	547	731186	14	14	14	6666		75	6.50	11.5						

HYDRAULICS

PUMP NO.	MANUFACTURER	LINER	STROKE LENGTH	GAL / STK	SPM	GPM	AV DP	AV DC	PUMP PRESS.	MTR DIFF PRESS.	HHP / W ²	ECD	SLOW PUMP			
													66 spm	59 spm	75 spm	
1	National	6"	8.5	2.96	120	355							1	460		
2	National	6"	8.5	2.96									2		400	
3	National	6"	8.5	2.96									3			

DRILL STRING

GEOLOGIC

GENERAL INFO

BOTTOMHOLE ASSEMBLY				LENGTH	O.D.	I.D.	FORMATION	MD	TVD	LITHOLOGY	RIG INFO	
BIT				1.00	19.5"HSW	576.380	TWIN CREEK	6,154	5,730	LS-100%	Rig No	Unit 111
MOTOR				20.37	JARS	32.630					Cell Narren	918-645-6671
FLOAT				2.63	4-5"HWDP	119.220					Last BOP Test	8/29
UBHO-SUB				2.60			GAS DATA				Next BOP Test	9/29
6 1/2 MONEL				31.04			BOTTOMS UP TIME	BG GAS	CONN GAS	TRIP GAS	Last Safety Meeting	8/30
XO-SUB				1.90			SHOWS				Last BOP Drill	8/30
							GAS UNITS	FROM	TO	ROP (FT/HR)	Last Operate Pipe Ran	8/29
											Last Operate Blind Ran	8/29
BHA = 787.78											Last Operate Annular	8/29
STRING WT.	BHA WT.	PU WT.	SO WT.	ROT. TORQUE	GRD. ELEVATION	GL TO KB	KB ELEVATION	INTERMEDIATE CSG	LAST CASING		NEXT CASING	
175	55	245	140	140	5,839	17	5,856	9.625	9.625 @ 6350'		7	

SURVEYS

MD	INCL.	AZIMUTH	TVD	SECTION	N+ / S-	E+ / W-	DLS	TOOL	MD	INCL.	AZIMUTH	TVD	SECTION	N+ / S-	E+ / W-	DLS	TOOL
6,639	10.40	212.90	6204	2077	-1585	-1343	0.70	MWD									MWD
6,733	10.50	213.90	6296	2094	-1599	-1352	0.22	MWD									

DAILY ACTIVITY

FROM			LAST 24 HOURS:
0:00	9:00	9.00	Drill & survey 6575 to 6666
9:00	13:30	4.50	POOH change bit
13:30	17:30	4.00	TIH
17:30	0:00	6.50	Drill & survey 6666 to 6741

CONFIDENTIAL

This am 6865

Daily Total 24.00

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

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

SUNDRY NOTICES AND REPORTS ON WELLS

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

5. Lease Serial No.
UTU-73528

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

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

8. Well Name and No.
Wolverine Federal #20-1

9. API Well No.
4304130032

10. Field and Pool, or Exploratory Area
Covenant Field

11. County or Parish, State
Sevier Co, UT

SUBMIT IN TRIPLICATE- Other instructions on reverse side.

1. Type of Well
 Oil Well Gas Well Other

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

3a. Address
One Riverfront Plaza, 55 Campau NW, Grand Rapids, MI

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

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)
Surface hole location - 833' FSL & 1,925' FWL, SE/SW, Section 17, T23S, R1W
Bottom hole location - 660' FNL & 660' FEL, NW/NW, Section 20, T23S, R1W

CONFIDENTIAL

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

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

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

Production casing was set September 4, 2005, and drilling operations are completed.

Further operations on the subject well have been temporarily suspended until additional wells can be drilled from this pad B1. It is estimated that completion operations will begin approximately November 1, 2005, or as soon thereafter as a completion rig becomes available.

APPROVED BY OPERATOR
9-16-05
GHO

Accepted by the
Utah Division of
Oil, Gas and Mining

Federal Approval Of This
Action Is Necessary

Date: 9/15/05
By: *D. K. Red*

xc: UDOGM

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

Name (Printed/Typed) George C. Njedy	Title Engineering Technician - EXACT Engineering Inc
Signature <i>George C. Njedy</i>	Date 09/12/2005

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.

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

CONFIDENTIAL PLEASE!

August 22, 2005

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

Re: Wolverine Federal 20-1 well
Sec 17 T23S R01W
Sevier Co., UT
API# 43-041-30032

Dear Mr. Doucet,

On behalf of Wolverine Gas and Oil Company of Utah, LLC, please find enclosed daily drilling reports for the subject well from August 14, 2005 through August 21, 2005. Our depth is 4027 and we are presently waiting on fishing tools to recover part of a mud motor. We respectfully request that the enclosed information remain confidential.

Very Truly Yours,



Chris Nicely
Engineering Technician

Enclosures

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

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AUG 25 2005
DIV. OF OIL, GAS & MINING

Petroleum Engineering Consulting, Personnel & Jobsite Supervision

complete well design, construction & management, drilling, completion, production, pipelines, appraisals,
due diligence, acquisitions, procedures, temporary personnel and field supervision

Operator: Wolverine G&O Co of Utah, LLC

DAILY DRILLING REPORT

24 hrs - midnight to midnight

DATE	WELL	CONTRACTOR	COUNTY, STATE	SPUD DATE	API#	SUPERVISOR	
08/21/05	Wolverine Federal 20-1	Unit Rig #111	Sevier, UT	8/9/05	43-041-30032	George Urban	
DAYS F/SPUD	PRESENT OPERATIONS @ MIDNIGHT	TOTAL DEPTH	PROGRESS	DRILLING TIME	ROP	FORMATION	AUTH. DEPTH
13	WAIT ON FISHING TOOLS	4,027	268	10.50	25.5	Arapian	7170 md

MUD DATA

WT	VIS.	WL	CK	PH	SAND	SOLIDS %	PV	YP	GELS	DEPTH	DATE/TIME	CHLORIDES	CALCIUM	MBT	SALT PPM
9.9	30	NC	2/32	8.8	0.50	5.50	4	11	6/11	3959	8/21/0800	108,000	3160		178,200

BIT DATA

BIT NO	SIZE	MFG	TYPE	IADC CODE	SERIAL NO.	JETS (1/32nd" or 1/FA)			IN	OUT	FOOTAGE	HOURS	ROP	MTR	RPM RT+MTR	WOB	DULL CONDITION		
																	T	B	G
4	12.25	REED	EHP-53A	537	5767	24	24	24	2709	3618	909	39.00	23.3	Y	30+132	35-40	6	2	-1/8
5	12.25	REED	HP53A	537	PB4407	24	24	24	3618		409	16.00	25.6	Y	30/140	35-40			

HYDRAULICS

PUMP NO.	MANUFACTURER	LINER	STROKE LENGTH	GAL / STK	SPM	GPM	AV DP	AV DC	PUMP PRESS	MTR DIFF PRESS.	HHP / IN ²	ECD	SLOW PUMP		
													67 spm	76 spm	100 spm
1	National	6"	8.5	2.96	115				1450	225			1	180	
2	National	6"	8.5	2.96	115								2		220
3	National	6"	8.5	2.96									3		

DRILL STRING

GEOLOGIC

GENERAL INFO

BOTTOMHOLE ASSEMBLY	LENGTH	O.D.	I.D.	FORMATION	MD	TVD	LITHOLOGY	RIG INFO	
BIT	1.50	12.250						Rig No	Unit 111
MOTOR	23.10	X-OVER	2.870					Cell Ncrren	918-645-6671
UBHO	3.25	3-5/8"HSW	150.880					Last BOP Test	8/17
MONEL	31.10	X-OVER	2.460	GAS DATA				Next BOP Test	9/17
PONY MONEL	10.08	19-5"HSW	576.380	BOTTOMS UP TIME	BG GAS	CONN GAS	TRIP GAS	Last Safety Meeting	8/21
SHOCK SUB.	11.80	JARS	32.630	SHOWS				Last BOP Drill	8/21
		3-5"HWDP	89.280	GAS UNITS	FROM	TO	ROP (FT/HR)	Last Operate Pipe Ra	8/21
								Last Operate Blind Ra	8/21
BHA = 960.23								Last Operate Annular	8/21
STRING WT.	BHA WT.	PU WT.	SO WT.	ROT TORQUE	GRID ELEVATION	GL TO KB	KB ELEVATION	INTERMEDIATE CSG	
120	58,000	133	102	235	5,839	17	5,856		
								LAST CASING	NEXT CASING
								13.375 @ 2440	9.625

SURVEYS

MD	INCL	AZIMUTH	TVD	SECTION	N+ / S-	E+ / W-	DLS	TOOL	MD	INCL	AZIMUTH	TVD	SECTION	N+ / S-	E+ / W-	DLS	TOOL
3,793	23.60	218.50	3598	975	-733	-644	3.17	MWD	3,982	25.70	214.30	3769	1055	-797	-691	0.81	MWD
3,888	25.50	216.00	3684	1014	-764	-668	2.28	MWD									MWD

DAILY ACTIVITY

FROM	LAST 24 HOURS:		
0:00	10:30	10.50	DRILL ROTATE & SLIDE FROM 3759' TO 4027'
10:30	11:00	0.50	BLEW STANDPIPE OUT OF VALVE, SET KELLY BACK, PULL 1 STAND
11:00	11:30	0.50	WORK ON STAND PIPE, WASHED OUT THREADS ON TOP OF STANDPIPE VALVE.
11:30	12:30	1.00	PULL 18 STANDS TO SHOE.
12:30	16:30	4.00	WELD AND REPAIR STANDPIPE, INSTALL NEW VALVE AND 4' OF 4" PIPE.
16:30	17:30	1.00	TIH
17:30	18:00	0.50	KELLY UP PRESSURED UP OFF BOTTOM, MOTOR OR BIT PLUGGED.
18:00	20:30	2.50	POOH
20:30	21:00	0.50	MUD MOTOR PARTED 10' UP FROM BIT LEAVING BIT AND 10' OF MOTOR IN HOLE
21:00	22:00	1.00	LAY DOWN MONELS AND MWD.
22:00	0:00	2.00	WAIT ON FISHING TOOLS.

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SEP 25 2005

DIV. OF OIL, GAS & MINING

CONFIDENTIAL

THIS AM PK/UP FISHING TOOLS

Operator: Wolverine G&O Co of Utah, LLC

DAILY DRILLING REPORT

24 hrs - midnight to midnight

DATE	WELL	CONTRACTOR	COUNTY, STATE	SPUD DATE	API#	SUPERVISOR	
08/20/05	Wolverine Federal 20-1	Unit Rig #111	Sevier, UT	8/9/05	43-041-30032	G.Urban /R. Rebsom	
DAYS F/ SPUD	PRESENT OPERATIONS @ MIDNIGHT	TOTAL DEPTH	PROGRESS	DRILLING TIME	ROP	FORMATION	AUTH. DEPTH
12	DRILLING	3,397	588	23.50	25.0	Arapian	7170 md

MUD DATA

WT	VIS.	WL	CK	PH	SAND	SOLIDS %	PV	YP	GELS	DEPTH	DATE/TIME	CHLORIDES	CALCIUM	MBT	SALT PPM
9.7	30	NC	2/32	9.0	0.50	4.75	4	7	4/7	3554	8/20/0800	84,000	1840		138,600

BIT DATA

BIT NO.	SIZE	MFG.	TYPE	IADC CODE	SERIAL NO.	JETS (1/32nd" or TFA)			IN	OUT	FOOTAGE	HOURS	ROP	MTR	RPM RT+MTR	WOB	DULL CONDITION		
						24	24	24									T	B	G
4	12.25	REED	EHP-53A	537	5767	24	24	24	2709	3618	909	39.00	23.3	Y	30+132	35-40	6	2	-1/8
5	12.25	REED	HP53A	537	PB4407	24	24	24	3618				#VALUE!	Y	30/140	35-40	6	2	-1/8

HYDRAULICS

PUMP NO.	MANUFACTURER	LINER	STROKE LENGTH	GAL / STK	SPM	GPM	AV DP	AV DC	PUMP PRESS.	MTR DIFF PRESS	HHP / IN ²	ECD	SLOW PUMP			
													67 spm	76 spm	100 spm	
1	National	6"	8.5	2.96	115				1450	225			1	180		
2	National	6"	8.5	2.96	115								2		220	
3	National	6"	8.5	2.96									3			375

DRILL STRING

GEOLOGIC

GENERAL INFO

DRILL STRING				GEOLOGIC				GENERAL INFO			
BOTTOMHOLE ASSEMBLY	LENGTH	O.D.	I.D.	FORMATION	MD	TVD	LITHOLOGY	RIG INFO			
BIT	1.50	12.250						Rig No	Unit 111		
MOTOR	23.10	X-OVER	2.870					Cell Ncrrn	918-645-6671		
UBHO	3.25	3-5/8" HSW	150.880					Last BOP Test	8/17		
MONEL	31.10	X-OVER	2.460	GAS DATA		TRIP GAS		Next BOP Test	9/17		
PONY MONEL	10.08	19-5" HSW	576.380	BOTTOMS UP TIME	BG GAS	CONN GAS		Last Safety Meeting	8/20		
SHOCK SUB.	11.80	JARS	32.630	SHOWS		ROP (FT/HR)		Last BOP Drill	8/20		
		3-5" HWDP	89.280	GAS UNITS	FROM	TO		Last Operate Pipe Ran	8/20		
								Last Operate Blind Ra	8/20		
BHA = 960.23								Last Operate Annular	8/20		
STRING WT.	BHA WT.	PU WT.	SO WT.	ROT. TORQUE	GRD. ELEVATION	GL TO KB	KB ELEVATION	INTERMEDIATE CSG	LAST CASING		NEXT CASING
120	58,000	133	102	235	5,839	17	5,856		13.375 @ 2440		9.625

SURVEYS

MD	INCL	AZIMUTH	TVD	SECTION	N+ / S-	E+ / W-	DLS	TOOL	MD	INCL	AZIMUTH	TVD	SECTION	N+ / S-	E+ / W-	DLS	TOOL
3,131	26.50	215.70	3013	666	-486	-457	1.28	MWD	3,320	30.40	219.40	3179	757	-558	-513	1.21	MWD
3,226	29.50	218.00	3097	711	-521	-484	3.36	MWD	3,415	28.80	217.10	3261	804	-595	-542	2.07	MWD

DAILY ACTIVITY

FROM	TO	LAST 24 HOURS:
0:00	11:00	11:00 DRILL ROTATE & SLIDE FROM 3397' TO 3618'
11:00	11:30	0.50 CIRC. PUMP PILL FOR DRY JOB
11:30	13:30	2.00 POOH
13:30	16:00	2.50 LY/DN BIT AND MOTOR UP SAME SERVICE TEST OK. RIG SERVICE.
16:00	18:00	2.00 TIH

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SEP 25 2005

DIV. OF OIL, GAS & MINING

CONFIDENTIAL

Operator: Wolverine G&O Co of Utah, LLC

DAILY DRILLING REPORT

24 hrs - midnight to midnight

DATE	WELL	CONTRACTOR	COUNTY, STATE	SPUD DATE	API#	SUPERVISOR	
08/19/05	Wolverine Federal 20-1	Unit Rig #111	Sevier, UT	8/9/05	43-041-30032	Rodger Rebsom	
DAYS F/SPUD	PRESENT OPERATIONS @ MIDNIGHT	TOTAL DEPTH	PROGRESS	DRILLING TIME	ROP	FORMATION	AUTH DEPTH
11	DRILLING	3,397	588	23.50	25.0	Arapian	7170 md

MUD DATA

WT	VIS	WL	CK	PH	SAND	SOLIDS %	PV	YP	GELS	DEPTH	DATE/TIME	CHLORIDES	CALCIUM	MBT	SALT PPM
9.3	31	NC	2/32	11.5	TR	3.50	3	7	4/7	2987	8/19/0800	58,000	840		95,700

BIT DATA

BIT NO	SIZE	MFG	TYPE	IADC CODE	SERIAL NO.	JETS (1/2" or TFA)			IN	OUT	FOOTAGE	HOURS	ROP	MTR	RPM RT+MTR	WOB	DULL CONDITION			
																	T	B	G	
4	12.250	REED	EHP-53A		5767	24	24	24	2709			688	28.00	24.6	Y	30+132	35-40			
														#DIV/0!						
														#DIV/0!						
														#DIV/0!						

HYDRAULICS

PUMP NO.	MANUFACTURER	LINER	STROKE LENGTH	GAL / STK	SPM	GPM	AV DP	AV DC	PUMP PRESS.	MTR DIFF PRESS.	HHP / IN ²	ECD	SLOW PUMP			
													67 spm	76 spm	100 spm	
1	National	6"	8.5	2.96	115				1450	225			1	180		
2	National	6"	8.5	2.96	115								2		220	
3	National	6"	8.5	2.96									3			375

DRILL STRING

GEOLOGIC

GENERAL INFO

DRILL STRING					GEOLOGIC				GENERAL INFO			
BOTTOMHOLE ASSEMBLY	LENGTH	O.D.	I.D.		FORMATION	MD	TVD	LITHOLOGY	RIG INFO			
BIT	1.50	12.250							Rig No Unit 111			
MOTOR	23.10	X-OVER	2.870						Cell Ncrren 918-645-6671			
UBHO	3.25	6-5/8"HSW	150.880						Last BOP Test		8/17	
MONEL	31.10	X-OVER	2.460		GAS DATA				Next BOP Test		9/17	
PONY MONEL	10.08	19-5"HSW	576.380		BOTTOMS UP TIME	BG GAS	CONN GAS	TRIP GAS	Last Safety Meeting 8/17			
SHOCK SUB.	11.80	JARS	32.630		SHOWS				Last BOP Drill		8/18	
		3-5"HWDP	89.280		GAS UNITS		FROM	TO	ROP (FT/HR)		Last Operate Pipe Ram 8/17	
											Last Operate Blind Ra 8/17	
BHA = 960.23									Last Operate Annular 8/17			
STRING WT.	BHA WT.	PU WT.	SO WT.	ROT. TORQUE	GRD ELEVATION	GL TO KB	KB ELEVATION	INTERMEDIATE CSG	LAST CASING		NEXT CASING	
120	58,000	133	102	235	5,839	17	5,856		13.375 @ 2440		9.625	

SURVEYS

MD	INCL	AZIMUTH	TVD	SECTION	N+ / S-	E+ / W-	DLS	TOOL	MD	INCL	AZIMUTH	TVD	SECTION	N+ / S-	E+ / W-	DLS	TOOL
3,131	26.50	215.70	3013	666	-486	-457	1.28	MWD	3,320	30.40	219.40	3179	757	-558	-513	1.21	MWD
3,226	29.50	218.00	3097	711	-521	-484	3.36	MWD	3,415	28.80	217.10	3261	804	-595	-542	2.07	MWD

DAILY ACTIVITY

FROM	LAST 24 HOURS:		
0:00	14:30	14.50	DRILL FROM 2809' TO 3176'
14:30	15:00	0.50	SERVICE RIG - WORK PIPE RAMS
15:00	0:00	9.00	DRILL FROM 3176' TO 3397'

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SEP 25 2005

DIV. OF OIL, GAS & MINING

CONFIDENTIAL

Operator: Wolverine G&O Co of Utah, LLC

DAILY DRILLING REPORT

24 hrs - midnight to midnight

DATE	WELL	CONTRACTOR	COUNTY, STATE	SPUD DATE	API#	SUPERVISOR	
08/18/05	Wolverine Federal 20-1	Unit Rig #111	Sevier, UT	8/9/05	43-041-30032	Rodger Rebsom	
DAYS F/ SPUD	PRESENT OPERATIONS @ MIDNIGHT	TOTAL DEPTH	PROGRESS	DRILLING TIME	ROP	FORMATION	AUTH. DEPTH
10	DRILLING	2,809	369	16.00	23.1	Arapian	7170 md

MUD DATA

WT	VIS.	WL	CK	PH	SAND	SOLIDS %	PV	YP	GELS	DEPTH	DATE/TIME	CHLORIDES	CALCIUM	MBT	SALT PPM
8.6	29	NC	1/32	9.0	0.00	1.90	3	5	1	2580	8/18/0800	36,000	640		36,000

BIT DATA

BIT NO.	SIZE	MFG.	TYPE	IADC CODE	SERIAL NO.	JETS (1/2"nd" or TFA)			IN	OUT	FOOTAGE	HOURS	ROP	MTR	RPM RT+MTR	WOB	DULL CONDITION		
						24	24	24									T	B	G
3	12.250	REED	EHP-43H		C41086	24	24	24	2440	2709	269		#DIV/0!	Y	30+132	35	6	2	1
4	12.250	REED	EHP-53A		5767	24	24	24	2709		100	4.50	22.2	Y	30+132	35-40			
													#DIV/0!						
													#DIV/0!						

HYDRAULICS

PUMP NO.	MANUFACTURER	LINER	STROKE LENGTH	GAL / STK	SPM	GPM	AV DP	AV DC	PUMP PRESS.	MTR DIFF. PRESS.	HHP / IN ²	ECD	SLOW PUMP		
													67 spm	76 spm	100 spm
1	National	6"	8.5	2.96	115				1450	225			1		
2	National	6"	8.5	2.96	115								2		
3	National	6"	8.5	2.96									3		

DRILL STRING

GEOLOGIC

GENERAL INFO

BOTTOMHOLE ASSEMBLY					FORMATION				LITHOLOGY			RIG INFO			
BIT	LENGTH	O.D.	I.D.											Rig No	Unit 111
MOTOR	23.10	X-OVER	2.870											Cell Nrren	918-645-6671
UBHO	3.25	6-5/8"HSW	150.880		GAS DATA				TRIP GAS		Last BOP Test		8/17		
MONEL	31.10	X-OVER	2.460		BOTTOMS UP TIME		BG GAS		CONN GAS		Next BOP Test		9/17		
PONY MONEL	10.08	19-5"HSW	576.380		SHOWS				TRIP GAS		Last Safety Meeting		8/17		
SHOCK SUB.	11.80	JARS	32.630		GAS UNITS		FROM		TO		Last BOP Drill		8/18		
		3-5"HWDP	89.280		ROP (FT/HR)						Last Operate Pipe Ra		8/17		
BHA = 960.23	11.80										Last Operate Blind Ra		8/17		
STRING WT.	BHA WT.	PU WT.	SO WT.	ROT. TORQUE	GRD. ELEVATION	GL TO KB	KB ELEVATION		INTERMEDIATE CSG		Last Operate Annular		8/17		
110,000	58,000	120,000	90,000	205	5,839	17	5,856				LAST CASING		NEXT CASING		
												13.375 @ 2440	9.625		

SURVEYS

MD	INCL	AZIMUTH	TVD	SECTION	N+ / S-	E+ / W-	DLS	TOOL	MD	INCL	AZIMUTH	TVD	SECTION	N+ / S-	E+ / W-	DLS	TOOL
2,459	22.40	235.40	2411	371	-270	-255	1.16	MWD	2,659	24.30	226.80	2595	448	-321	-316	1.24	MWD
2,565	23.50	228.90	2508	411	-295	-287	2.60	MWD	2,754	27.10	226.60	2680	489	-349	-346	2.95	MWD

DAILY ACTIVITY

FROM	LAST 24 HOURS:		
0:00	0:30	0:50	FINISH TRIP IN
0:30	1:30	1:00	TAG CEMENT @ 2390' - DRILL CEMENT - FLOAT - SHOE.
1:30	13:00	11:50	DRILL - SLIDE FROM 2440' TO 2709'
13:00	15:00	2:00	TRIP OUT - FORMATION CHANGE - SUCKED 3 BUTTONS OUT - BROKE 9 BUTTONS OFF
15:00	16:00	1:00	WORK BLIND RAMS - SERVICE RIG - CHANGE BIT - TEST MOTOR & MWD - OK
16:00	18:30	2:50	TRIP IN
18:30	19:00	0:50	WORK & PUSH JUNK ASIDE CLEAN BOTTOM
19:00	20:30	1:50	DRILL FROM 2709' TO 2740'
20:30	21:00	0:50	WORK & PUSH JUNK ASIDE CLEAN BOTTOM
21:00	0:00	3:00	DRILL FROM 2740' TO 2809'

RECEIVED

SEP 25 2005

DIV. OF OIL, GAS & MINING

CONFIDENTIAL

Operator: Wolverine G&O Co of Utah, LLC

DAILY DRILLING REPORT

24 hrs - midnight to midnight

DATE	WELL	CONTRACTOR	COUNTY, STATE	SPUD DATE	API#	SUPERVISOR	
08/17/05	Wolverine Federal 20-1	Unit Rig #111	Sevier, UT	8/9/05	43-041-30032	Rodger Rebsom	
DAYS F/SPUD	PRESENT OPERATIONS @ MIDNIGHT	TOTAL DEPTH	PROGRESS	DRILLING TIME	ROP	FORMATION	AUTH DEPTH
9	TRIP IN	2,440	0	0.00	#DIV/0!	Arapian	7170 md

MUD DATA

WT	VIS.	WL	CK	PH	SAND	SOLIDS %	PV	YP	GELS	DEPTH	DATE/TIME	CHLORIDES	CALCIUM	MBT	SALT PPM
8.6	26	NC	0	9.0	0.00	0.00	0	0	0	2440	8/17-0800	36,000	640		36,000

BIT DATA

BIT NO	SIZE	MFG	TYPE	IADC CODE	SERIAL NO.	JETS (1/12nd of TFA)			IN	OUT	FOOTAGE	HOURS	ROP	MTR	RPM RT+MTR	WOB	DULL CONDITION			
						24	24	24									2440			
3	12.250	REED	EHP-43H		C41086								#DIV/0!	Y						
													#DIV/0!							
													#DIV/0!							
													#DIV/0!							

HYDRAULICS

PUMP NO	MANUFACTURER	LINER	STROKE LENGTH	GAL / STK	SPM	GPM	AV DP	AV DC	PUMP PRESS.	MTR DIFF PRESS.	HHP / IN ²	ECD	SLOW PUMP		
													67 spm	76 spm	100 spm
1	National	6"	8.5	2.96									1		
2	National	6"	8.5	2.96									2		
3	National	6"	8.5	2.96									3		

DRILL STRING

GEOLOGIC

GENERAL INFO

BOTTOMHOLE ASSEMBLY				LENGTH	O.D.	I.D.	FORMATION	MD	TVD	LITHOLOGY	RIG INFO			
BIT				1.50	12.250		SURFACE				Rig No Unit 111			
MOTOR				23.10	X-OVER	2.870					Cell Nrcen 918-645-6671			
UBHO				3.25	6-5/8"HSW	150.880					Last BOP Test		8/17	
MONEL				31.10	X-OVER	2.460	GAS DATA			Next BOP Test				
PONY MONEL				10.08	19-5"HSW	576.380	BOTTOMS UP TIME	BG GAS	CONN GAS	TRIP GAS	9/17			
SHOCK SUB.				11.80	JARS	32.630	SHOWS			Last Safety Meeting				
							GAS UNITS			FROM	TO	Last BOP Drill		8/18
										ROP (FT/HR)		Last Operate Pipe Ran		8/17
												Last Operate Blind Ra		8/17
BHA = 960.23				11.80								Last Operate Annular		8/17
STRING WT.	BHA WT.	PU WT.	SO WT.	ROT. TORQUE	GRD ELEVATION	GL TO KB	KB ELEVATION	INTERMEDIATE CSG	LAST CASING		NEXT CASING			
103,000	58,000				5,839	17	5,856		13.375 @ 2440	9.625				

SURVEYS

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

DAILY ACTIVITY

FROM	LAST 24 HOURS:																
0:00	5:00	5.00	WAIT ON CEMENT-CLEAN MUD TANKS														
5:00	9:00	4.00	CUT OFF - SET OUT CONDUCTOR - MAKE FINAL CUT - WELD ON 13-3/8" WELL HEAD														
9:00	16:30	7.50	NIPPEL UP BOPS														
16:30	21:00	4.50	TEST UPPER & LOWER KELLY VALVES - PIPE & BLIND RAMS - CHOKE MANAFOLD - HCR & CHOKE LINE VALVES - CHECK VALVE - KILL LINE VALVES - FLOOR SAFTEY VALVE - @ 250 PSI FOR 5 MIN. & 5000 PSI FOR 10 MIN. ALL TESTED GOOD.														
			TEST ANNULAR FOR 5 MIN. @ 250 PSI & 10 MIN. @ 2500 PSI. - GOOD TEST														
			TEST 13-3/8" CASING FOR 5 MIN. @ 250 PSI. & 30 MIN. @ 1500 PSI. - GOOD TEST														
			PULL TEST PLUG & INSTALL WEAR BUSHING														
21:00	23:00	2.00	PICKUP & MAKE UP NEW BHA.-TEST OK														
23:00	0:00	1.00	TRIP IN														

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DIV OF OIL, GAS & MINING

CONFIDENTIAL

Operator: Wolverine G&O Co of Utah, LLC

DAILY DRILLING REPORT

24 hrs - midnight to midnight

DATE	WELL	CONTRACTOR	COUNTY, STATE	SPUD DATE	API#	SUPERVISOR	
08/16/05	Wolverine Federal 20-1	Unit Rig #111	Sevier, UT	8/9/05	43-041-30032	Rodger Rebsom	
DAYS F/SPUD	PRESENT OPERATIONS @ MIDNIGHT	TOTAL DEPTH	PROGRESS	DRILLING TIME	ROP	FORMATION	AUTH. DEPTH
8	WAIT ON CEMENT	2,440	33	3.50	9.4	Arapian	7170 md

MUD DATA

WT	VIS.	WL	CK	PH	SAND	SOLIDS %	PV	YP	GELS	DEPTH	DATE/TIME	CHLORIDES	CALCIUM	MBT	SALT PPM
9.7	34	NC	2/32	9.0	0.50	6.50	5	15	7/15	2440	8/17-0800	54,000	720		89,100

BIT DATA

BIT NO.	SIZE	MFG	TYPE	IADC CODE	SERIAL NO.	JETS (1/32nd" or TFA)			IN	OUT	FOOTAGE	HOURS	ROP	MTR	RPM RT+MTR	WOB	DULL CONDITION		
						4	X	24									T	B	G
1	17.500	VAREL	V-41		638083	4	X	24	120	2210	2090	123.00	17.0	Y	30-120	45	4	8	1
2	17.500	SMITH	M655H+	RR	MM4358	4	X	28	2210	2440	230	21.50	10.7	Y	30-100	45	3	2	1
													#DIV/0!						
													#DIV/0!						

HYDRAULICS

PUMP NO.	MANUFACTURER	LINER	STROKE LENGTH	GAL / STK	SPM	GPM	AV DP	AV DC	PUMP PRESS	MTR DIFF PRESS	HHP / IN ²	ECD	SLOW PUMP		
													67 spm	76 spm	100 spm
1	National	6"	8.5	2.96	100	310	93	108	1425	250			1		
2	National	6"	8.5	2.96	100	310							2		
3	National	6"	8.5	2.96	100	310							3		

DRILL STRING

GEOLOGIC

GENERAL INFO

BOTTOMHOLE ASSEMBLY				FORMATION				LITHOLOGY				RIG INFO			
BIT	LENGTH	O.D.	I.D.	SURFACE	MD	TVD									
	17.500														
MOTOR		X-OVER	2.870												Rig No Unit 111
X-OVER		6-5/8"HSW	150.880												Cell Nrren 918-645-6671
IBS-REAMER		X-OVER	2.460												Last BOP Test
UBHO		19-5"HSW	576.380												Next BOP Test
MONEL		JARS	32.630												Last Safety Meeting 8/13
MONEL		3-5"HWDP	89.280												Last BOP Drill
PONY MONEL															Last Operate Pipe Rar
SHOCK SUB.		11.80													Last Operate Blind Ra
STRING WT.	BHA WT.	PU WT.	SO WT.	ROT TORQUE	GRD ELEVATION	GL TO KB	KB ELEVATION	INTERMEDIATE CSG							Last Operate Annular
94,000	58,000	115,000	80,000	240	5,839	17	5,856								LAST CASING NEXT CASING
															20" @ 120' 13.375 @ 2500

SURVEYS

MD	INCL.	AZIMUTH	TVD	SECTION	N+ / S-	E+ / W-	DLS	TOOL	MD	INCL.	AZIMUTH	TVD	SECTION	N+ / S-	E+ / W-	DLS	TOOL
2,127	18.40	235.90	2100	259	-203	-160	1.10	MWD									
2,189	19.30	234.30	2158	278	-215	-176	1.67	MWD									

DAILY ACTIVITY

FROM	TO	LAST 24 HOURS
0:00	3:30	3.50 DRILL FROM 2407' TO 2440' = TD SURFACE.
3:30	5:30	2.00 CIRC.- MIX & PUMP HIGH VIS SWEEPS AROUND-CLEAN HOLE
5:30	7:30	2.00 SHORT TRIP OUT TO 805' - TRIP IN TO 2440' NO FILL
7:30	9:00	1.50 TRIP OUT TO MONELS - KEEP HOLE FULL - TAKING APPROX. 15 BBL/HOUR
9:00	11:30	2.50 LAY DOWN MONELS-MWD-MUD MOTOR-BIT
11:30	18:00	6.50 RIG UP RUN 55 JTS. 13-3/8" CASING 62# /FT P110 - LTC - FILL EVERY 5 JTS.
18:00	20:00	2.00 RIG UP FILL CASING - CIRC - WASH CASING 17' TO BOTTOM 10' FILL
20:00		RIG UP CEMENT 13-3/8" CASING - SET ON BOTTOM = 2440' PUMP 10 BBL.H20-20 BBL.GEL FLUSH
		FLOWED WITH 655SKS.CBM LIGHT, .25#/SK FLOCELE, 5#/SK GILSONITE,3# GRAR.10.5PPG-4.12CF/SK
		26.5GAL/SK WTR.LEAD---TAIL WITH 475SKS TYPE V 1%CaCl, .25#/SK FLOCELE 15.6PPG-1.18CF/SK
		5.2GAL/SK WTR. --- DISPLACE 365 BBL H20---BUMP PLUG---HELD GOOD
	23:00	3.00 GOOD CIRC. THREWOUT WHOLE JOB---150 BBL---CEMENT CIRC. TO RES. PIT
23:00	0:00	1.00 WAIT ON CEMENT

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OF OIL, GAS & MINING

Operator: Wolverine G&O Co of Utah, LLC

DAILY DRILLING REPORT

2+ hrs - midnight to midnight

DATE	WELL	CONTRACTOR	COUNTY, STATE	SPUD DATE	API#	SUPERVISOR	
08/15/05	Wolverine Federal 20-1	Unit Rig #111	Sevier, UT	8/9/05	43-041-30032	Rodger Rebsom	
DAYS F/SPUD	PRESENT OPERATIONS @ MIDNIGHT	TOTAL DEPTH	PROGRESS	DRILLING TIME	ROP	FORMATION	AUTH DEPTH
7	DRILLING	2,407	197	18.00	10.9	Arapian	7170 md

MUD DATA

WT	VIS.	WL	CK	PH	SAND	SOLIDS %	PV	YP	GELS	DEPTH	DATE/TIME	CHLORIDES	CALCIUM	MBT	SALT PPM
9.6+	33	NC	2/32	9.0	0.50	6.50	5	15	8/16	2221	8/16-0800	47,000	680		77,550

BIT DATA

BIT NO	SIZE	MFG	TYPE	IADC CODE	SERIAL NO.	JETS (1/12nd" of TFA)			IN	OUT	FOOTAGE	HOURS	ROP	MTR	RPM RT+MTR	WOB	DULL CONDITION		
						4	X	24									T	B	G
1	17.500	VAREL	V-41		638083	4	X	24	120	2210	2090	123.00	17.0	Y	30-120	45	4	8	I
2	17.500	SMITH	M655H+	RR	MM4358	4	X	28	2210				10.9	Y	30-100	45			
													#DIV/0!						
													#DIV/0!						

HYDRAULICS

PUMP NO.	MANUFACTURER	LINER	STROKE LENGTH	GAL / STK	SPM	GPM	AV DP	AV DC	PUMP PRESS.	MTR DIFF PRESS.	HHP / IN ²	ECD	SLOW PUMP		
													67 spm	76 spm	100 spm
1	National	6"	8.5	2.96	100	310	93	108	1425	250			1		
2	National	6"	8.5	2.96	100	310							2		
3	National	6"	8.5	2.96	100	310							3		

DRILL STRING

GEOLOGIC

GENERAL INFO

BOTTOMHOLE ASSEMBLY	LENGTH	O.D.	I.D.	FORMATION	MD	TVD	LITHOLOGY	RIG INFO	
BIT	1.50	17.500		SURFACE				Rig No	Unit 111
MOTOR	27.96	X-OVER	2.870					Cell Ncrlen	918-645-6671
X-OVER	3.04	3-5/8"HSW	150.880					Last BOP Test	
IBS-REAMER	5.65	X-OVER	2.460	BOTTOMS UP TIME	BG GAS	GAS DATA CONN GAS	TRIP GAS	Next BOP Test	
UBHO	2.58	19-5"HSW	576.380					Last Safety Meeting	8/13
MONEL	31.86	JARS	32.630					Last BOP Drill	
MONEL	30.70	3-5"HWDP	89.280					Last Operate Pipe Ran	
PONY MONEL	10.08							Last Operate Blind Ra	
SHOCK SUB.	11.80							Last Operate Annular	
STRING WT	BHA WT.	PU WT.	SO WT.	ROT TORQUE	GRD ELEVATION	GL TO KB	KB ELEVATION	INTERMEDIATE CSG	
94,000	58,000	115,000	80,000	240	5,839	17	5,856		
								LAST CASING	NEXT CASING
								20" @ 120'	13.375 @ 2500'

SURVEYS

MD	INCL.	AZIMUTH	TVD	SECTION	N+ / S-	E+ / W-	DLS	TOOL	MD	INCL.	AZIMUTH	TVD	SECTION	N+ / S-	E+ / W-	DLS	TOOL
2,127	18.40	235.90	2100	259	-203	-160	1.10	MWD									
2,189	19.30	234.30	2158	278	-215	-176	1.67	MWD									

DAILY ACTIVITY

FROM	TO	LAST 24 HOURS:
0:00	1:30	1.50 HANDLE BHA - TEST MWD.
1:30	3:00	1.50 CUT & SLIP 143' DRILLING LINE
3:00	5:00	2.00 TRIP IN
5:00	6:00	1.00 WASH & REAM 70' TO BOTTOM
6:00	0:00	18.00 DRILL FROM 2210' TO 2407'

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CONFIDENTIAL DIV. OF OIL, GAS & MINING

Operator: Wolverine G&O Co of Utah, LLC

DAILY DRILLING REPORT

2+ hrs - midnight to midnight

DATE	WELL	CONTRACTOR	COUNTY, STATE	SPUD DATE	API#	SUPERVISOR	
08/14/05	Wolverine Federal 20-1	Unit Rig #111	Sevier, UT	8/9/05	43-041-30032	Rodger Rebsom	
DAYS F/ SPUD	PRESENT OPERATIONS @ MIDNIGHT	TOTAL DEPTH	PROGRESS	DRILLING TIME	ROP	FORMATION	AUTH DEPTH
6	HANDEL BHA.	2,210	130	19.00	6.8	Arapian	7170 md

MUD DATA

WT	VIS	WL	CK	PH	SAND	SOLIDS %	PV	YP	GELS	DEPTH	DATE/TIME	CHLORIDES	CALCIUM	MBT	SALT PPM
9.8	33	NC	2/32	9.5	0.50	7.50	5	16	9/18	2143	8/14-0800	52,000	720		85,800

BIT DATA

BIT NO.	SIZE	MFG	TYPE	IADC CODE	SERIAL NO.	JETS (1/2"nd of TFA)			IN	OUT	FOOTAGE	HOURS	ROP	MTR	RPM RT+MTR	WOB	DULL CONDITION		
1	17.500	VAREL	V-41		638083	4	X	24	120	2210	2090	123.00	17.0	Y	30-120	45	4	8	I
													#VALUE!						
													#DIV/0!						
													#DIV/0!						

HYDRAULICS

PUMP NO.	MANUFACTURER	LINER	STROKE LENGTH	GAL / STK	SPM	GPM	AV DP	AV DC	PUMP PRESS	MTR DIFF PRESS.	HHP / IN ²	ECD	SLOW PUMP		
													67 spm	76 spm	100 spm
1	National	6"	8.5	2.96	100	310	93	108	1425	250			1		
2	National	6"	8.5	2.96	100	310							2		
3	National	6"	8.5	2.96	100	310							3		

DRILL STRING

GEOLOGIC

GENERAL INFO

BOTTOMHOLE ASSEMBLY	LENGTH	O.D.	I.D.	FORMATION	MD	TVD	LITHOLOGY	RIG INFO		
BIT	1.50	17.500		SURFACE				Rig No Unit 111		
MOTOR	27.96	X-OVER	2.870					Cell Nrren 918-645-6671		
X-OVER	3.04	6-5/8"HSW	150.880					Last BOP Test		
IBS-REAMER	5.65	X-OVER	2.460	GAS DATA				Next BOP Test		
UBHO	2.58	19-5"HSW	576.380	BOTTOMS UP TIME	BG GAS	CONN GAS	TRIP GAS	Last Safety Meeting 8/13		
MONEL	31.86	JARS	32.630	SHOWS				Last BOP Drill		
MONEL	30.70	3-5"HWDP	89.280	GAS UNITS	FROM	TO	ROP (FT/HR)	Last Operate Pipe Ra		
PONY MONEL	10.08							Last Operate Blind Ra		
SHOCK SUB.	11.80							Last Operate Annular		
STRING WT.	BHA WT.	PU WT.	SO WT.	ROT. TORQUE	GRD. ELEVATION	GL TO KB	KB ELEVATION	INTERMEDIATE CSG	LAST CASING NEXT CASING	
94,000	58,000	115,000	80,000	240	5,839	17	5,856		20" @ 120' 13.375 @ 2500	

SURVEYS

MD	INCL.	AZIMUTH	TVD	SECTION	N+ / S-	E+ / W-	DLS	TOOL	MD	INCL.	AZIMUTH	TVD	SECTION	N+ / S-	E+ / W-	DLS	TOOL
2,032	17.50	238.00	2010	231	-188	-136	2.98	MWD									
2,127	18.40	236.00	2100	259	-204	-160	1.10	MWD									

DAILY ACTIVITY

FROM	TO	LAST 24 HOURS
0:00	16:30	16.50 DRILL FROM 2080' TO 2192'
16:30	17:00	0.50 SERVICE RIG
17:00	19:30	2.50 DRILL FROM 2192' TO 2210' - PRESSURE SPIKES
19:30	21:30	2.00 TRIP OUT - BEARING BAD # 2 CONE
21:30	0:00	2.50 HANDEL BHA

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DIV. OF OIL, GAS & MINING

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United States Department of the Interior

BUREAU OF LAND MANAGEMENT

Utah State Office
P.O. Box 45155
Salt Lake City, UT 84145-0155



IN REPLY REFER TO
3180
UT-922

February 8, 2006

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

Re: 5th Revision of the Navajo Formation PA
Wolverine Unit
Sanpete and Sevier Counties, Utah

Gentlemen:

The 5th Revision of the Navajo Formation Participating Area, Wolverine Unit, UTU80800A, is hereby approved effective as of January 1, 2006, pursuant to Section 11 of the Wolverine Unit Agreement, Sanpete and Sevier Counties, Utah.

The 5th Revision of the Navajo Formation Participating Area results in an addition of 240.40 acres to the participating area for a total of 1,039.17 acres and is based upon the completion of Well No. 18-1, API No. 43-041-30034, located in Lot 12 of Section 18, Township 23 South, Range 1 West (BHL), SLM&B, Federal Unit Tract No. 6, Federal Lease UTU73528 and Well No. 20-1, API No. 43-041-30032, located in NW $\frac{1}{4}$ NW $\frac{1}{4}$ of Section 20, Township 23 South, Range 1 West (BHL), SLM&B, Federal Unit Tract No. 6, Federal Lease UTU73528, as being wells capable of producing unitized substances in paying quantities.

Copies of the approved request are being distributed to the appropriate agencies and one copy is returned herewith. Please advise all interested parties of the establishment of the 5th Revision of the Navajo Formation Participating Area, Wolverine Unit, and the effective date.

Sincerely,

/s/ Douglas F. Cook

Douglas F. Cook
Chief, Branch of Fluid Minerals

Enclosure

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DIV. OF OIL, GAS & MINING

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
4304130032	Wolverine Federal 20-1		NWSE	<u>20</u>	23S	1W	Sevier
Action Code	Current Entity Number	New Entity Number	Spud Date			Entity Assignment Effective Date	
C	14885	13995	8/9/2005			<u>3/9/06</u>	
Comments: SHL: SESW, Sec 17 <u>Unit PA expanded</u> <u>NAVA</u>							

CONFIDENTIAL J

Well 2

API Number	Well Name		QQ	Sec	Twp	Rng	County
4304130034	Wolverine Federal 18-1		SESE	18	23S	1W	Sevier
Action Code	Current Entity Number	New Entity Number	Spud Date			Entity Assignment Effective Date	
C	14917	13995	9/6/2005			<u>3/9/06</u>	
Comments: SHL: SESW, Sec. 17 <u>Unit PA expanded</u> <u>NAVA</u>							

CONFIDENTIAL J

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:							

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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)

DIV. OF OIL, GAS & MINING

Edward A. Higuera
 Name (Please Print)

 Signature
 Manager - Development 3/3/2006
 Title Date

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

COPY

FORM APPROVED
OMBNO. 1004-0137
Expires: March 31, 2007

5. Lease Serial No.
UTU-73528

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

7. Unit or CA Agreement Name and No.
Wolverine Fed. Exploration Unit

8. Lease Name and Well No.
Wolverine Federal #20-1

9. AFI Well No.
4304130032

10. Field and Pool, or Exploratory
Covenant Field

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

12. County or Parish
Sevier

13. State
UT

14. Date Spudded
08/09/2005

15. Date T.D. Reached
09/01/2005

16. Date Completed
01/07/2006
 D & A Ready to Prod.

17. Elevations (DF, RKB, RT, GL)*
5856' KB, 5839' GL

18. Total Depth: MD **7158'**
TVD **6714'**

19. Plug Back T.D.: MD **7109'**
TVD **6666'**

20. Depth Bridge Plug Set: MD
TVD

21. Type Electric & Other Mechanical Logs Run (Submit copy of each)
HRI/GR, SDL/DSN/GR, MRIL, EMI, 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	120		675 Class G	138	Surf. (CIRC)	
17.50"	13-3/8"	61.0	Surface	2440		655 CBM lite	480	Surf. (CIRC)	
"	"	"				475 Type V	100		
12.25"	9-5/8"	47.0	Surface	6350		230 50/50 Poz	70	5300' (CAL)	
8.50"	7"/P-110	23.0	Surface	7157		190 50/50 Poz	42	5514' (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	6668' KB							

25. Producing Intervals

Formation	Top	Bottom	Perforated Interval	Size	No. Holes	Perf. Status
A) Navajo	6467	7158	6760-6838	0.43"	228	open
B)						
C)						
D)						

26. Perforation Record

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

Depth Interval	Amount and Type of Material
6760-6838	5000 gal 7-1/2% NeFeCl w/ inhibitor & surfactant

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
01/07/2006	01/17/2006	72	→	1441	Tr	323			Pumped with ESP
Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas/Oil Ratio	Well Status	Production Method
		0	→	480	Tr	108	nil		Producing Oil Well

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

*(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.)

venting

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	6467	7158	Oil & Water	Arapien Twin Creek Navajo	Surface 6189' 6467'

32. Additional remarks (include plugging procedure):

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

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

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

Name (please print) Ellis Peterson

Title Sr. Production Engineer

Signature



Date 01/18/2006

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 OPERATING COMPANY
of Utah, LLC

Energy Exploration in Partnership with the Environment

February 2, 2006

Ms. Carol Daniels
Utah Division of Oil Gas & Mining
1594 W.N. Temple, Suite 1210
Salt Lake City, UT 84114-5801

Re: Wolverine Federal #20-1

Dear Al:

Enclosed please find the following documents for the above referenced well:

- three copies of BLM completion form #3160-4
- directional survey
- geologic report
- mudlog
- Spectral Density, Dual Space Neutron, GR MD & TVD
- HRI MD & TVD
- EMI
- MRIL

Please let me know if you need additional information or have other concerns.

Sincerely,

Helene Bardolph

enclosures

FEB 06 2006

UTAH DIVISION OF OIL GAS & MINING



Weatherford

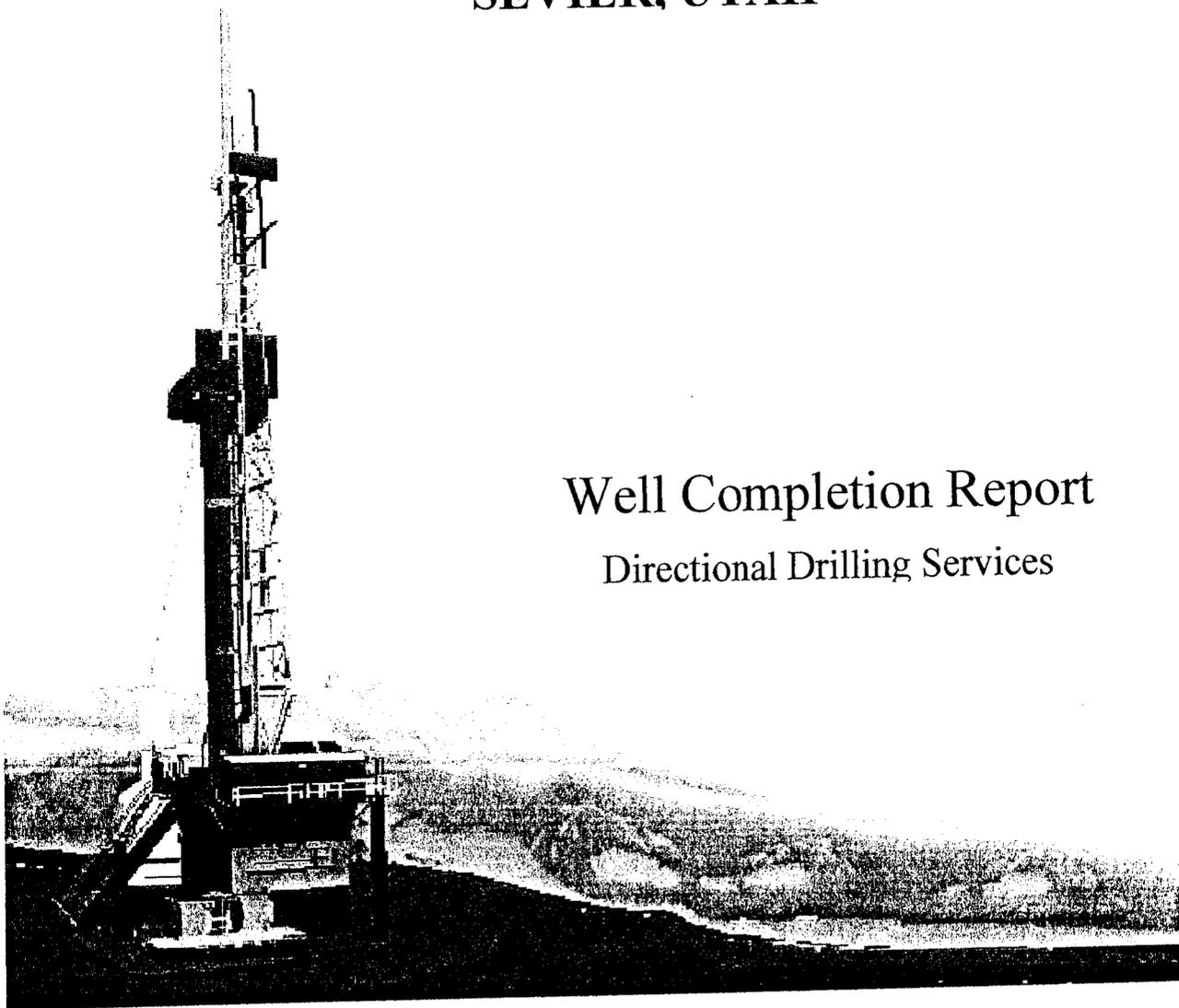
WOLVERINE GAS & OIL

FEDERAL #20-1

SEVIER, UTAH

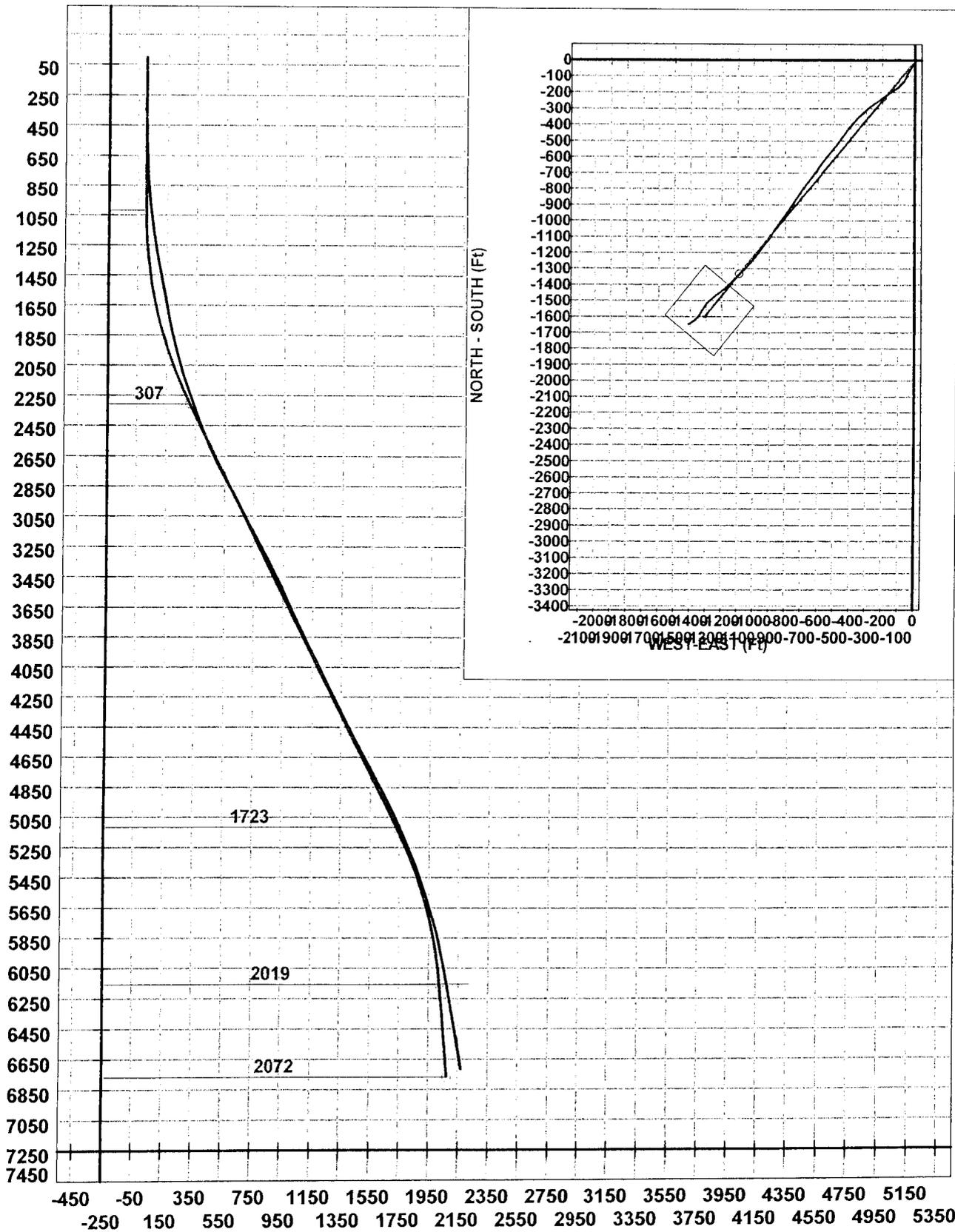
Well Completion Report

Directional Drilling Services



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Company: Wolverine Gas & Oil Co of Utah
 Lease/Well: Wolverine Federal 20-1
 Location: Section 17, T23S, 1W
 State/Country: Sevier Co, Utah



° - 20-1 -- 20-1

VERTICAL SECTION (Ft) @ 219.33°

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Job Number: WYL0805D098
 Company: Wolverine Gas & Oil Co of Utah
 Lease/Well: Wolverine Federal 20-1
 Location: Section17, T23S, 1W
 Rig Name: Unit 111
 RKB: 814' FSL & 1933' FWL
 G.L. or M.S.L.:

State/Country: Sevier Co, Utah
 Declination: 12.81
 Grid:
 File name: C:\MARSHA~1\ENDOFW~1\WOLVER~1\FE9CE2~1\20
 Date/Time: 12-Sep-05 / 11:34
 Curve Name: 20-1

WINSERVE SURVEY CALCULATIONS
Minimum Curvature Method
Vertical Section Plane 219.33
Vertical Section Referenced to Wellhead
Rectangular Coordinates Referenced to Wellhead

Measured Depth FT	Incl Angle Deg	Drift Direction Deg	True Vertical Depth	Vertical Section FT	N-S FT	E-W FT	Dogleg Severity Deg/100	BUILD RATE Deg/100	WALK RATE Deg/100
.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
173.00	.50	108.10	173.00	-.27	-.23	.72	.29	.29	62.49
266.00	.90	112.70	265.99	-.63	-.64	1.78	.43	.43	4.95
357.00	.10	201.10	356.99	-.76	-.99	2.41	.99	-.88	97.14
448.00	.50	231.80	447.99	-.30	-1.31	2.07	.46	.44	33.74
539.00	1.70	218.10	538.97	1.44	-2.62	.92	1.34	1.32	-15.05
629.00	2.30	221.60	628.91	4.58	-5.02	-1.10	.68	.67	3.89
720.00	3.10	218.50	719.81	8.87	-8.31	-3.84	.89	.88	-3.41
812.00	4.20	220.80	811.62	14.72	-12.81	-7.59	1.21	1.20	2.50
905.00	5.70	209.70	904.27	22.68	-19.40	-12.11	1.91	1.61	-11.94
994.00	6.90	206.70	992.74	32.25	-28.01	-16.70	1.40	1.35	-3.37
1088.00	7.90	210.10	1085.95	44.14	-38.65	-22.48	1.16	1.06	3.62
1182.00	9.10	207.60	1178.92	57.80	-50.83	-29.16	1.34	1.28	-2.66
1276.00	10.10	207.80	1271.60	73.15	-64.70	-36.45	1.06	1.06	.21
1371.00	12.30	205.80	1364.79	91.15	-81.18	-44.74	2.35	2.32	-2.11
1465.00	11.40	204.40	1456.78	109.86	-98.66	-52.94	1.01	-.96	-1.49
1560.00	11.30	209.70	1549.93	128.11	-115.30	-61.43	1.10	-.11	5.58
1654.00	10.90	216.20	1642.17	146.07	-130.47	-71.24	1.40	-.43	6.91
1748.00	11.30	219.90	1734.41	164.15	-144.70	-82.39	.87	.43	3.94
1843.00	12.80	229.00	1827.33	183.83	-158.75	-96.31	2.54	1.58	9.58
1937.00	14.90	233.60	1918.59	205.81	-172.76	-113.90	2.52	2.23	4.89
2032.00	17.50	237.60	2009.81	231.22	-187.66	-135.79	2.98	2.74	4.21
2127.00	18.40	235.90	2100.19	259.16	-203.72	-160.27	1.10	.95	-1.79
2189.00	19.30	234.30	2158.86	278.43	-215.19	-176.69	1.67	1.45	-2.58
2459.00	22.40	235.40	2411.15	371.00	-270.45	-255.29	1.16	1.15	.41

Measured Depth FT	Incl Angle Deg	Drift Direction Deg	True Vertical Depth	Vertical Section FT	N-S FT	E-W FT	Dogleg Severity Deg/100	BUILD RATE Deg/100	WALK RATE Deg/100
2565.00	23.50	228.90	2508.78	411.25	-295.82	-287.85	2.60	1.04	-6.13
2659.00	24.30	226.80	2594.72	448.91	-321.38	-316.07	1.24	.85	-2.23
2754.00	27.10	226.60	2680.31	489.76	-349.63	-346.05	2.95	2.95	-.21
2848.00	28.30	221.50	2763.55	533.27	-381.03	-376.38	2.83	1.28	-5.43
2942.00	28.90	218.30	2846.09	578.25	-415.55	-405.22	1.75	.64	-3.40
3037.00	27.70	216.00	2929.73	623.25	-451.43	-432.43	1.71	-1.26	-2.42
3131.00	26.50	215.70	3013.41	665.99	-486.14	-457.51	1.28	-1.28	-.32
3226.00	29.50	218.00	3097.28	710.54	-521.79	-484.28	3.36	3.16	2.42
3320.00	30.40	219.40	3178.73	757.46	-558.41	-513.63	1.21	.96	1.49
3415.00	28.80	217.10	3261.33	804.37	-595.24	-542.69	2.07	-1.68	-2.42
3509.00	28.40	216.40	3343.86	849.32	-631.29	-569.62	.56	-.43	-.74
3604.00	26.80	215.90	3428.05	893.27	-666.82	-595.58	1.70	-1.68	-.53
3699.00	26.30	215.50	3513.03	935.64	-701.31	-620.36	.56	-.53	-.42
3793.00	23.60	218.50	3598.25	975.24	-732.99	-644.17	3.17	-2.87	3.19
3888.00	25.50	216.00	3684.66	1014.68	-764.42	-668.03	2.28	2.00	-2.63
3982.00	25.70	214.30	3769.44	1055.18	-797.63	-691.41	.81	.21	-1.81
4077.00	26.60	213.40	3854.71	1096.86	-832.40	-714.73	1.04	.95	-.95
4171.00	27.40	213.60	3938.47	1139.31	-867.99	-738.28	.86	.85	.21
4266.00	27.10	213.20	4022.92	1182.58	-904.30	-762.23	.37	-.32	-.42
4360.00	26.60	214.40	4106.79	1224.83	-939.58	-785.84	.78	-.53	1.28
4455.00	26.60	215.10	4191.74	1267.23	-974.53	-810.09	.33	.00	.74
4549.00	26.20	216.00	4275.93	1308.94	-1008.54	-834.39	.60	-.43	.96
4643.00	27.30	215.10	4359.87	1351.15	-1042.97	-858.98	1.25	1.17	-.96
4738.00	28.10	215.10	4443.98	1395.19	-1079.09	-884.37	.84	.84	.00
4832.00	27.40	215.50	4527.17	1438.85	-1114.82	-909.66	.77	-.74	.43
4927.00	28.20	214.30	4611.21	1483.02	-1151.16	-935.01	1.03	.84	-1.26
5021.00	28.20	216.60	4694.05	1527.33	-1187.33	-960.76	1.16	.00	2.45
5115.00	29.50	218.70	4776.39	1572.66	-1223.23	-988.48	1.75	1.38	2.23
5210.00	27.90	222.00	4859.72	1618.26	-1258.01	-1017.98	2.37	-1.68	3.47
5304.00	27.40	222.50	4942.98	1661.82	-1290.30	-1047.31	.59	-.53	.53
5399.00	25.90	224.50	5027.89	1704.32	-1321.21	-1076.62	1.84	-1.58	2.11
5494.00	24.70	224.50	5113.78	1744.75	-1350.17	-1105.08	1.26	-1.26	.00
5588.00	23.60	225.50	5199.55	1783.02	-1377.37	-1132.26	1.25	-1.17	1.06
5683.00	23.60	227.80	5286.60	1820.74	-1403.47	-1159.92	.97	.00	2.42
5777.00	21.30	230.80	5373.48	1856.08	-1426.91	-1187.09	2.73	-2.45	3.19
5872.00	19.90	235.40	5462.41	1888.53	-1446.99	-1213.77	2.25	-1.47	4.84
5966.00	18.10	233.60	5551.28	1918.06	-1464.75	-1238.70	2.01	-1.91	-1.91
6060.00	18.40	227.30	5640.56	1946.91	-1483.47	-1261.35	2.12	.32	-6.70
6155.00	17.30	226.90	5730.99	1975.76	-1503.29	-1282.69	1.17	-1.16	-.42
6250.00	12.50	220.10	5822.77	2000.06	-1520.82	-1299.63	5.37	-5.05	-7.16
6316.00	12.10	214.40	5887.26	2014.09	-1531.99	-1308.14	1.94	-.61	-8.64
6450.00	11.60	214.10	6018.40	2041.50	-1554.74	-1323.63	.38	-.37	-.22
6513.00	11.20	211.10	6080.16	2053.86	-1565.22	-1330.34	1.14	-.63	-4.76
6639.00	10.40	212.90	6203.93	2077.28	-1585.25	-1342.84	.69	-.63	1.43
6733.00	10.50	213.90	6296.37	2094.23	-1599.48	-1352.23	.22	.11	1.06

Measured Depth FT	Incl Angle Deg	Drift Direction Deg	True Vertical Depth	Vertical Section FT	N-S FT	E-W FT	Dogleg Severity Deg/100	BUILD RATE Deg/100	WALK RATE Deg/100
6828.00	10.60	229.20	6389.78	2111.46	-1612.38	-1363.67	2.94	.11	16.11
6924.00	10.40	232.70	6484.18	2128.59	-1623.40	-1377.25	.70	-.21	3.65
7019.00	10.30	236.10	6577.63	2145.07	-1633.33	-1391.12	.65	-.11	3.58
7113.00	10.50	239.40	6670.09	2161.16	-1642.38	-1405.47	.67	.21	3.51
Projection to bit									
7158.00	10.50	239.40	6714.33	2168.86	-1646.55	-1412.53	.00	.00	.00

WOLVERINE GAS & OIL CORPORATION

**WOLVERINE FEDERAL #20-1
NW/NW SEC.20.T23S, R1W
SEVIER CO., UT**

GEOLOGIC REPORT

ON

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**WOLVERINE FEDERAL #20-1
NW/NW SEC.20.T23S, R1W
SEVIER CO., UT**

FOR

**WOLVERINE GAS & OIL CORPORATION
ONE RIVER FRONT PLAZA
55 CAMPAU NW
GRAND RAPIDS, MI 49503-2616**

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September 2005

**Decollement Consulting, Inc
Roger D. Charbonneau, B.Sc.
Geologist**

1

WELL DATA SUMMARY

WELL NAME	WOLVERINE FEDERAL #20-1
OPERATOR	WOLVERINE GAS & OIL CORP

000000

BOTTOM HOLE LOCATION NW/NW SEC.20.T23S, R1W
SEVIER COUNTY, UT

API # 043 - 041- 30032

WELL CLASSIFICATION DEVELOPMENT COVENANT
FIELD

DRILLING CONTRACTOR UNIT #111

ELEVATION - GROUND LEVEL 5839'
KELLY BUSHING 5856'

SPUD DATE 8-09-05

SURFACE CASING 2447' OF 13 3/8"

INTERMEDIATE CASING 6350' OF 9 5/8"

PRODUCTION CASING 7158' OF 7"

HOLE SIZE 17 1/2", 12 1/4", 8 1/2"

SAMPLE INTERVAL 2480 - 7158

GAS DETECTION 2520 - 7158

OPEN HOLE LOGS GR, SP, CAL, HRI, SD-DSN, DIP METER, EMRL

MUD TYPE SATURATED SALT, FLOZAN
WELL STATUS AWAITING COMPLETION

2

FORMATION TOPS

		Kelly Bushing		5856'			
Formation	Prog. (tvd)	Spl. (md)	Spl. (tvd)	Log (md)	Log (tvd)	Sub Sea	
Arapien	Surface						

COV

Twin Creek	5788	6154	5730	6080	5661	195
Navajo	6156	6456	6035	6467	6035	-168
TD		7158				

3

FORMATION EVALUATION

**WOLVERINE GAS & OIL CORPORATION
WOLVERINE FEDERAL #20-1
NW/NW SEC.20.T23S, R1W
SEVIER COUNTY, UT**

The Wolverine Federal #20-1 was the third well drilled on the “B” pad (12-2 site), and the 10th well drilled in the Covenant Field. Decollement Consulting began sample coverage at 2490’ on Unit Rig #111, on Aug. 17, 2005. Crews collected 30’ logged samples to total depth (7158’). Surface casing (13 3/8”) was

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set to 2447, and 12 ¼" hole drilled to 6366". Intermediate casing (9 5/8") was set at 6350' and 8 ½" hole drilled to total depth. Seven inch production casing was run to total depth. A full suite of logs was run including Dip Meter and EMRL. Gas detection was run from 2520' to 7158'.

Navajo

6035 TVD log

-168 Sub Sea

The Navajo Sandstone was white, clear, light brown, quartzose, very fine (upper) to coarse (lower) grained, sub angular to rounded, fair to poor sorted, clay matrix, siliceous cement, friable, 50-90% unconsolidated, brown oil stain, rainbows on wash water, strong hydrocarbon odor, yellow white oil fluorescence, yellow white milky cut, yellow gold residual ring cut, 10-14% intergranular porosity.

Conclusion: Oil saturated reservoir - awaiting completion.

4

BIT RECORD

WELL NAME	WOLVERINE FEDERAL #20-1			
LOCATION	NW/NW SEC. 19, T23S, R1W			
SURFACE CASING	2447' OF 13 3/8			
SPUD DATE	8-09-05			
TD DATE	9-01-05			
BIT	1	2	3	4 RR
SIZE	17 ½	17 ½	12 ¼	12 1/4
MAKE	STC	STC	RTC	RTC
TYPE	V41	M655H	EHP43H	EHP53A
SERIAL #	638083	MM4358	C41086	O5767
JETS	3x28	3x28	3x24	3x24
FOOTAGE	2072	230	269	909

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HOURS	122	21	11 ½	40
WT	45	45	35	30
RPM	0/30	0/30	0/30	0/30
PP	1350	1350	1350	1500
MUD WT	9.8	9.7	8.6	9.6
VIS	33	34	25	29
BIT	5	6	7	8
SIZE	12 ¼	12 ¼	8 ½	8 1/2
MAKE	RTC	RTC	SEC	SEC
TYPE	HP53	HP53A	EBXS30S	ERA33
SERIAL #	PB4427	PB4407	12682195	731186
JETS	3x24	3x24	3x12	3x14
FOOTAGE	1542	444	307	492
HOURS	74	43	20 ½	22
WT	67	45	40	45
RPM	0/30	0/30	0/30	0/25
PP	2040	1870	1000	1260
MUD WT	12.3	10.2	8.4	8.5
VIS	32	32	36	36

5

DAILY DRILLING SUMMARY

DATE	DEPTH	PROG.	HRS	MUD	VIS	WL	PH	ACTIVITY
8-9-05	350	230	9 ½					SPUD DRILL
8-10-05	720	370	18	9.5	29			DRILL TRIP MUD
8-11-05	1270	90	23 ½	9.8	34			DRILL
8-12-05	1720	450	23 ½	9.8	34			DRILL
8-13-05	2025	305	23 ½	10.2	36			DRILL
8-14-05	2198	123	23 ½	9.7	33			DRILL
8-15-05	2330	132	13	9.7	32			DRILL, TRIP BIT/MOTOR
8-16-05	2440	110	9 ½	9.7	34			DRILL RUN 13 3/8"
8-17-05	2440	NIL	NIL					NIPPLE UP, PRES. TEST
8-18-05	2709	269	11 ½	8.6	26			DRILL TRIP BIT
8-19-05	3245	737	23	9.4	32			DRILL
8-20-05	3618	373	17	9.6	29			DRILL TRIP BIT
8-21-05	4027	429	16 ½	9.8	30			DRILL RIG REPAIR
8-22-05	4027	NIL	NIL					TRIP MOTOR, FISH
8-23-05	4248	121	11 ½	9.9	31			DRILL
8-24-05	1689	448	23 ½	9.8	31			DRILL
8-25-05	5003	314	15 ½	9.9	31			DRILL TRIP, MWD

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8-26-05	5728	725	23 ½	10.1	32	DRILL
8-27-05	6129	381	12 ½	10.2	32	DRILL, Trip Ray GAMMA
8-28-05	6361	NIL	NIL			DRILL, POOH, RUN 9 5/8"
8-29-05	6361	NIL	NIL			CEMENT 9 5/8"
8-30-05	6464	103	8 ½	8.4	36	RIH, DRILL
8-31-05	6621	157	15 ½	8.5	38	BIT TRIP, DRILL
9-1-05	7158	537	21	8.5	36	DRILL, CIRRR& CORD
9-2-05	7158	NIL	NIL			LOGGING

DEVIATION SURVEYS

DEPTH	INCLINATION	DIRECTION
1654.00	10.90	216.20
1748.00	11.30	219.90
1843.00	12.80	229.00
1937.00	14.90	233.60
2032.00	17.50	237.60
2127.00	18.40	235.90
2189.00	19.30	234.30
2459.00	22.40	235.40
2565.00	23.50	228.90
2659.00	24.30	226.80
2754.00	27.10	226.60
2748.00	28.30	221.50
2942.00	28.90	218.30
3037.00	27.70	216.00

3131.00	26.50	215.70
3226.00	29.50	218.00
3320.00	30.40	219.40
3415.00	28.80	217.10
3509.00	28.40	216.40
3604.00	26.80	215.90
3699.00	26.30	215.50
3793.00	23.60	218.50
3793.00	23.60	218.50

7

DEPTH	INCLINATION	DIRECTION
3888.00	25.50	216.00
3982.00	25.70	214.30
3982.00	25.70	214.30
4077.00	26.60	213.40
4171.00	27.40	213.60
4266.00	27.10	213.20
4360.00	26.60	214.40
4360.00	26.60	214.40
4455.00	26.60	215.10
4549.00	26.20	216.00
4549.00	26.20	216.00
4643.00	27.30	215.10
4738.00	28.10	215.10
4832.00	27.40	215.50
4927.00	28.20	214.30
4927.00	28.20	214.30
5021.00	28.20	216.60
5115.00	29.50	218.70

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5210.00	27.90	222.00
5304.00	27.40	222.50
5399.00	25.90	224.50
5494.00	24.70	224.50
5588.00	23.60	225.50
5683.00	23.60	227.80
5777.00	21.30	230.80
5872.00	19.90	235.40
5966.00	18.10	233.60

8

DEPTH	INCLINATION	DIRECTION
6060.00	18.40	227.30
6155.00	17.30	226.90
6250.00	12.50	220.10
6316.00	12.10	214.40
6450.00	11.60	214.10
6513.00	11.20	211.10
6639.00	10.40	212.90
6733.00	10.50	213.90
6828.00	10.60	229.20
6924.00	10.40	232.70
7019.00	10.30	236.10
7113.00	10.50	239.40

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SAMPLE DESCRIPTIONS**Wolverine Gas & Oil Corporation
Wolverine Federal #20-1**

- 2490-2520 LIMESTONE 100% Light to medium gray, argillaceous, lithographic, mudstone, crystalline, dense, in part.**
- 2520-50 SHALE 10% Red brown, silty, firm, blocky.
LIMESTONE 90% Light to medium gray, argillaceous, lithographic, mudstone, silty in part, chalky in part.**
- 2550-80 LIMESTONE 100% Light to medium gray, lithographic, mudstone, anhydrite & calcite fracture in fill.**
- 2580-2610 SHALE 10% Red brown, silty, blocky, firm, dolomitic.
LIMESTONE 90% Light to medium gray, argillaceous, lithographic, mudstone, silty, crystalline, dense.**
- 2610-40 SHALE 10% Red brown, silty, blocky, firm, dolomitic.
LIMESTONE 30% Light to medium gray, argillaceous, lithographic, mudstone, silty, crystalline, dense.
SANDSTONE 40% White, clear, quartzose, very fine to fine granulated, sub angular, fine to well sorted, clay matrix, tight, anhydrite matrix.
ANHYDRITE 20% White, crystalline, translucent.**
- 2640-70 SHALE 10% Red brown, silty, blocky, firm, dolomitic.
LIMESTONE 40% Light to medium gray, argillaceous, lithographic, mudstone, silty,**

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crystalline, dense.

ANHYDRITE 50% White, crystalline, translucent.

- 2670-2700 SHALE 10% Red brown, silty, blocky, firm, dolomitic.
LIMESTONE 80% Light to medium gray, argillaceous, lithographic, mudstone, silty, crystalline, dense.
ANHYDRITE 10% White, crystalline, translucent.
- 2700-30 LIMESTONE 100% Light to medium gray, silty, argillaceous, lithographic, mudstone.
- 2730-60 LIMESTONE 100% Light to medium gray, silty, argillaceous, lithographic, mudstone.
- 2760-90 LIMESTONE 100% Light to medium gray, crystalline, dense, lithographic, mudstone, white, chalky in part, abundant anhydrite fracture fill.
- 2790-2820 LIMESTONE 100% Light to medium gray, light to medium gray brown, mottled, crystalline, dense, abundant anhydrite fracture infill.
- 2820-50 LIMESTONE 100% Light to medium gray, light to medium gray brown, mottled, crystalline, dense, abundant anhydrite fracture infill, light gray to white, chalky, soft, mudstone (30%).
- 2850-80 LIMESTONE 100% Medium to dark gray, dense, firm to hard, mudstone.
- 2880-2910 LIMESTONE 100% Light gray, white, silty, chalky, mud stone, light to medium gray, argillaceous, lithographic, mudstone.
- 2910-40 LIMESTONE 40% Light gray, silty, argillaceous, lithographic, mudstone.
SILTSTONE 60% White, argillaceous, limy, blocky, firm, arenaceous.
- 2940-70 LIMESTONE 30% Light gray, silty, argillaceous, lithographic, mudstone.
SILTSTONE 70% White, argillaceous, limy, blocky, firm, arenaceous.
- 2970-3000 LIMESTONE 70% Light gray, silty, argillaceous, lithographic, mudstone.
SILTSTONE 30% White, argillaceous, limy, blocky, firm, arenaceous.
- 3000-30 LIMESTONE 40% Light gray, silty, argillaceous, lithographic, mudstone.
SILTSTONE 60% White, argillaceous, limy, blocky, firm, arenaceous.
- 3030-60 LIMESTONE 70% Light gray, silty, argillaceous, lithographic, mudstone.
SILTSTONE 30% White, argillaceous, limy, blocky, firm, arenaceous.

- 3060-90** Limestone 90% Light -medium gray, blocky, firm-hard, argillaceous, lithographic, mudstone, abundant anhydrite fracture infill.
Siltstone 10% White, arenaceous, argillaceous, limy, firm-hard, tight.
- 3090-3120** Limestone 60% Light to medium gray, blocky, firm to hard, argillaceous, lithographic, mudstone, abundant anhydrite fracture infill.
Siltstone 10% White arenaceous argillaceous limy, firm to hard, tight.
Anhydrite 30% White chalky, crystalline, sucrosic, in part, trays
- 3120-50** Shale 20% Red brown, silty, arenaceous, dolomitic, firm.
Anhydrite 50% White chalky, crystalline, sucrosic, in part, trays
Limestone 30% Light to medium gray, blocky, firm to hard, argillaceous, lithographic, mudstone, abundant anhydrite fracture infill.
- 3150-80** Limestone 100% Light to medium gray, argillaceous, lithographic, mudstone, soft, chalky in part.
- 3180-3210** Limestone 30% Light to medium gray, argillaceous, lithographic, mudstone, soft, chalky in part.
Shale 20% Red brown, silty, dolomitic, blocky.
Sandstone 40% White, clear, quartzose, fine to medium grained, sub angular to rounded, fine to poor sorted unconsolidated.
Anhydrite 10% White, clear, chalky, crystalline.
- 3210-40** Shale 80% Red brown, silty, sandy, blocky, earthy, dolomitic, gray green, waxy smooth.
Anhydrite 20% White, pink, chalky, soft to firm.
- 3240-70** Shale 70% Red brown, silty, sandy, blocky, earthy, dolomitic, gray green, waxy smooth.
Anhydrite 30% White, soft, chalky.
- 3270-3300** Limestone 100% Light to medium gray, argillaceous, lithographic, mudstone, soft chalky in part abundant anhydrite fracture infill.
- 3300-30** Limestone 100% Light to medium gray, argillaceous, lithographic, mudstone, white, light gray, soft.

- 3330-60 **SHALE 20% Red brown, silty, blocky, dolomitic.**
LIMESTONE 60% Light to medium gray, argillaceous, lithographic, mudstone, white, light gray, soft.
ANHYDRITE 20% Red brown, silty, blocky, dolomitic.
- 3360-90 **SHALE 10% Red brown, silty, blocky, dolomitic.**
LIMESTONE 60% White, light gray, earthy, argillaceous, lithographic, mudstone.
ANHYDRITE 30% Red brown, silty, blocky, dolomitic.
- 3390-3420 **SHALE 10% Red brown, silty, blocky, dolomitic.**
LIMESTONE 80 % White, light gray, earthy, argillaceous, lithographic, mudstone, soft, chalky in part.
ANHYDRITE 10% Red brown, silty, blocky, dolomitic.
- 3420-50 **LIMESTONE 100% Light to medium gray, argillaceous, lithographic, mudstone.**
- 3450-80 **LIMESTONE 100% Light to medium gray, argillaceous, lithographic, mudstone.**
- 3480-3510 **LIMESTONE 100% Light to medium gray, white, silty, lithographic, mudstone, chalky soft.**
- 3510-40 **LIMESTONE 100% Light to medium gray, white, silty, lithographic, mudstone, chalky soft.**
- 3540-70 **LIMESTONE 100% Light to medium gray, brown, crystalline, dense, lithographic, mudstone, white, soft chalky.**
- 3470-3600 **LIMESTONE 100% Light to medium gray, brown, crystalline, dense, lithographic, mudstone, white, soft chalky.**
- 3600-30 **LIMESTONE 100% Light to medium gray, light to medium gray brown, crystalline, dense, hard, lithographic, mudstone, white, soft, chalky 20%.**

- 3630-60 **LIMESTONE 80% Light to medium gray, light to medium gray brown, crystalline, dense, hard, lithographic, mudstone, white, soft, chalky 20%, 60% white, soft, chalky.**
SANDSTONE 20% White, clear, red orange, fine to coarsely granulated, sub angular, fine

to poor sorted.

- 3660-90 SHALE 10% Red brown, silty, blocky, dolomitic.
LIMESTONE 80% Light gray brown, tan, crystalline, dense, lithographic, mudstone.
ANHYDRITE 10% White, chalky, crystalline, translucent.
- 3690-3770 SHALE 20% Red brown, silty, blocky, dolomitic, gray green, blocky, soft to firm, smooth, waxy.
LIMESTONE 80% Light gray brown, tan, crystalline, dense, lithographic, mudstone.
- 3720-50 SHALE 10% Red brown, silty, blocky, dolomitic, gray green, blocky, soft to firm, smooth, waxy.
LIMESTONE 90% Light gray brown, tan, crystalline, dense, lithographic, mudstone.
- 3750-80 LIMESTONE 80% Light gray brown, tan, light to medium gray, crystalline, dense, argillaceous, lithographic, mud stone.
ANHYDRITE 20% White, chalky, sucrosic.
- 3780-3810 LIMESTONE 90% Light gray brown, tan, light to medium gray, crystalline, dense, argillaceous, lithographic, mudstone, pyrite inclusion, salt cast.
ANHYDRITE 10%.
- 3810-40 LIMESTONE 80% Light gray brown, tan, crystalline, dense, hard, lithographic, mudstone.
ANHYDRITE 20% White chalky, soft, crystalline, translucent.
- 3840-70 LIMESTONE 100% Light gray brown, tan, crystalline, dense, hard, lithographic, mudstone, light to m gray, lithographic, mud stone, white, soft, chalky (20%).
- 3870-3900 LIMESTONE 60% Light to m gray, silty, argillaceous, lithographic, mud tone.
SILTSTONE 40% White, arenaceous, argillaceous, limy, tight.

- 3900-30 LIMESTONE 80% Light to m gray, silty, argillaceous, lithographic, mudstone.
SILTSTONE 20% White, arenaceous, argillaceous, limy, tight.
- 3930-60 LIMESTONE 100% Light to medium gray, soft to firm in part, hard to dense in part, argillaceous, lithographic mudstone.
- 3960-90 LIMESTONE 100% Light to medium gray, hard, dense, lithographic, mudstone, white,

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light gray, soft, chalky, silty.

- 3990-4020 Limestone 100% Light to medium gray brown, light to medium gray, crystalline, dense, lithographic, mudstone.**
- 4020-4050 Limestone 100% Light to medium gray brown, light to medium gray, crystalline, dense, lithographic, mudstone.**
- 4050-80 Limestone 100% Light to medium gray brown, crystalline, dense, light to medium gray, argillaceous, earthy, lithographic, mudstone.**
- 4080-4110 Limestone 100% Light to medium gray brown, crystalline, dense, light to medium gray, argillaceous, earthy, lithographic, mudstone.**
- 4110-40 Limestone 100% Light to medium gray brown, crystalline, dense, light to medium gray, argillaceous, earthy, lithographic, mudstone.**
- 4140-70 Limestone 100% Light to medium gray brown, crystalline, dense, light to medium gray, argillaceous, earthy, lithographic, mudstone.**
- 4170-4200 Limestone 100% Light to medium gray brown, crystalline, dense, light to medium gray, argillaceous, earthy, lithographic, mudstone.**
- 4200-30 Limestone 100% Light to medium gray brown, crystalline, dense, light to medium gray, argillaceous, earthy, lithographic, mudstone.**
- 4230-60 Limestone 100% Light to medium gray brown, crystalline, dense, light to medium gray, argillaceous, earthy, lithographic, mudstone.**

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- 4260-90 Limestone 100% Light to medium gray brown, crystalline, dense, light to medium gray, earthy, argillaceous, lithographic mudstone, abundant white silty & sandy anhydrite fracture fill.**
- 4290-4320 Limestone 100% Light to medium gray brown, crystalline, dense, light to medium gray, earthy, argillaceous, lithographic mudstone, abundant white silty & sandy anhydrite fracture fill.**
- 4320-50 Limestone 100% Light to medium gray brown, crystalline, dense, light to medium gray, earthy, argillaceous, lithographic mudstone, abundant white silty & sandy anhydrite fracture fill, 10% white, soft, chalky, silty.**

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- 4350-80 Limestone 100% Light to medium gray brown, crystalline, dense, light to medium gray, earthy, argillaceous, lithographic mudstone, abundant white silty & sandy anhydrite fracture fill, 10% white, soft, chalky, silty.
- 4380-4410 Limestone 100% Light to medium gray brown, crystalline, dense, light to medium gray, earthy, argillaceous, lithographic mudstone, abundant white silty & sandy anhydrite fracture fill, 20% white, soft, chalky, silty.
- 4410-40 Limestone 100% Light to medium gray brown, crystalline, dense, light to medium gray, earthy, argillaceous, lithographic mudstone, abundant white silty & sandy anhydrite fracture fill, 30% soft, white, chalky, silty.
- 4440-70 Limestone 100% Light to medium gray brown, crystalline, dense, light to medium gray, earthy, argillaceous, lithographic mudstone, abundant white silty & sandy anhydrite fracture fill, 50% white, soft, chalky, marly, silty.
- 4470-4500 Limestone 100% Light to medium gray brown, crystalline, dense, light to medium gray, earthy, argillaceous, lithographic mudstone, abundant white silty & sandy anhydrite fracture fill, 10% soft white, soft, chalky, marly, silty.
- 4500-30 Limestone 100% Light to medium gray brown, crystalline, dense, lithographic, mudstone, white soft, chalky, silty, 20%.
- 4530-60 Limestone 100% Light to medium gray, firm, hard, lithographic, mudstone.
- 4560-90 Limestone 100% Light to medium gray brown, crystalline, dense, light to medium gray, argillaceous, earthy, lithographic, mudstone, white, soft, chalky, silt & sandy, in part.
- 4590-4620 Limestone 100% Light to medium gray brown, crystalline, dense, light to medium gray, argillaceous, earthy, lithographic, mudstone, white, soft, chalky, silt & sandy, in part.
- 4620-50 Limestone 100% Light to medium gray brown, crystalline, dense, light to medium gray, argillaceous, earthy, lithographic, mudstone, white, soft, chalky, silt & sandy, in part.
- 4650-80 Limestone 60% Light to medium gray brown, crystalline, dense, argillaceous, lithographic, mudstone.
Siltstone 40% Light gray, light gray brown, arenaceous, argillaceous, limey, hard, blocky.
- 4680-4710 Shale 10% Red brown, blocky, dolomitic, silty, firm to hard.

SILTSTONE 20% Light gray, light gray brown, arenaceous, argillaceous, limey, hard, blocky.

LIMESTONE 70% Light to medium gray brown, crystalline, dense, argillaceous, lithographic, mudstone.

4710-40 LIMESTONE 70% Light to medium gray brown, crystalline, dense, argillaceous, lithographic, mudstone.
SILTSTONE 30% Light gray, light gray brown, arenaceous, argillaceous, limey, hard, blocky.

4740-70 LIMESTONE 70% Light to medium gray brown, crystalline, dense, argillaceous, lithographic, mudstone.
SILTSTONE 30% Light gray, light gray brown, arenaceous, argillaceous, limey, hard, blocky.

4770-4800 LIMESTONE 100% Light to medium gray, argillaceous, lithographic, mudstone, abundant anhydrite fracture in fill.

4800-30 LIMESTONE 100% Light to medium gray, light to medium gray brown, very fine to fine crystalline in part, sucrosic texture, argillaceous, earthy, in part, lithographic, mudstone, dense, crystalline, in part.

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4830-60 LIMESTONE 100% Light to medium gray brown, crystalline, dense, lithographic, mudstone, abundant anhydrite fracture in fill.

4860-90 LIMESTONE 100% Light to medium gray brown, crystalline, dense, lithographic, mudstone, abundant anhydrite fracture in fill.

4890-4920 LIMESTONE 100% Light to medium gray brown, crystalline, dense, lithographic, mudstone, abundant anhydrite.

4920-50 LIMESTONE 100% Light to medium gray brown, crystalline, dense, lithographic, mudstone, white, soft, chalky, (10%) abundant anhydrite fracture in fill.

4950-80 LIMESTONE 100% Light to medium gray brown, crystalline, dense, firm to hard, mottled, sucrosic texture in part, lithographic, mudstone, abundant anhydrite fracture in fill.

4980-5010 LIMESTONE 100% Light to medium gray brown, crystalline, dense, firm to hard, mottled, sucrosic texture in part, lithographic, mudstone, abundant anhydrite fracture in fill.

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- 5010-40 **LIMESTONE 100%** Light to medium gray brown, crystalline, dense, firm to hard, mottled, sucrosic texture in part, lithographic, mudstone, abundant anhydrite fracture in fill.
- 5040-70 **LIMESTONE 100%** Light to medium gray brown, crystalline, dense, firm to hard, mottled, sucrosic texture in part, lithographic, mudstone, abundant anhydrite fracture in fill.
- 5070-5100 **LIMESTONE 100%** Light to medium gray brown, crystalline, dense, firm to hard, mottled, sucrosic texture in part, lithographic, mudstone, abundant anhydrite fracture in fill.
- 5100-30 **LIMESTONE 100%** Light to medium gray brown, crystalline, dense, firm to hard, mottled, sucrosic texture in part, lithographic, mudstone, abundant anhydrite fracture in fill.
- 5130-60 **LIMESTONE 100%** Light to medium gray, argillaceous, lithographic, mudstone, light to medium gray brown, crystalline, dense, hard, abundant anhydrite fracture in fill.

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- 5160-90 **LIMESTONE 100%** Light to medium gray, argillaceous, lithographic, mudstone, light to medium gray brown, crystalline, dense, hard, abundant anhydrite fracture in fill, light gray brown, very fine to fine crystalline, sucrosic texture, sandy, abundant, white, crystalline, anhydrite.
- 5190-5220 **LIMESTONE 80%** Light to medium gray, argillaceous, lithographic, mudstone, light to medium gray brown, crystalline, dense, hard, abundant anhydrite fracture in fill, light gray brown, very fine to fine crystalline, sucrosic texture, sandy, abundant, white, crystalline, anhydrite.
SILTSTONE 20% White, light gray, arenaceous, argillaceous, anhydrite matrix, dolomitic.
- 5220-50 **LIMESTONE 90%** Light to medium gray, argillaceous, lithographic, mudstone, light to medium gray brown, crystalline, dense, hard, abundant anhydrite fracture in fill, light gray brown, very fine to fine crystalline, sucrosic texture, sandy, abundant, white, crystalline, anhydrite.
SILTSTONE 10% White, light gray, arenaceous, argillaceous, anhydrite matrix, dolomitic.
- 5250-80 **LIMESTONE 70%** Light to medium gray, argillaceous, lithographic, mudstone, light to medium gray brown, crystalline, dense, hard, abundant anhydrite fracture in fill, light gray brown, very fine to fine crystalline, sucrosic texture, sandy, abundant, white, crystalline, anhydrite.
SILTSTONE 20% Light gray, white, arenaceous, argillaceous, dolomitic, anhydritic.
SHALE 10% Red brown, silty, dolomitic, blocky, firm.

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- 5280-5310** SHALE 30% Red brown, silty, sandy, blocky, dolomitic, firm.
 ANHYDRITE 10% White, silty, sandy, chalky, soft.
 LIMESTONE 60% Light to medium gray brown, tan, crystalline, dense.
- 5310-40** SHALE 40% Red brown, silty, sandy, blocky, dolomitic, firm, abundant salt casts.
 ANHYDRITE 10%
 LIMESTONE 50% Light to medium gray brown, crystalline, dense, light to medium gray, argillaceous, earthy, mudstone.
- 5340-70** SHALE 40% Red brown, silty, dolomitic, blocky, firm, salt casts.
 SILTSTONE 30% Red brown, arenaceous, argillaceous, dolomitic.
 LIMESTONE 30% Light to medium gray, crystalline, argillaceous, dense, mudstone.
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- 5370-5400** SHALE 20% Red brown, silty, dolomitic, blocky, firm, salt casts.
 SILTSTONE 30% Red brown, arenaceous, argillaceous, dolomitic.
 LIMESTONE 40% Light to medium gray, crystalline, argillaceous, dense, mudstone.
 ANHYDRITE 10% White, chalky, soft.
- 5400-30** SHALE 20% Red brown, silty, argillaceous, dolomitic, salt casts.
 SILTSTONE 20% Light gray, arenaceous, argillaceous.
 LIMESTONE 50% Lithographic to medium gray, lithographic, mudstone.
 ANHYDRITE 10% White, chalky, soft.
- 5430-60** SHALE 30% Red brown, silty, argillaceous, dolomitic, salt casts.
 LIMESTONE 60% Lithographic to medium gray, lithographic, mudstone.
 ANHYDRITE 10% White, sucrosic, anhydrite.
- 5460-90** SHALE 30% Red brown, silty, argillaceous, dolomitic, salt casts.
 LIMESTONE 50% Lithographic to medium gray, lithographic, mudstone.
 SILTSTONE 20% Light gray, arenaceous, argillaceous.
- 5490-5520** SHALE 30% Red orange, silty, dolomitic, blocky.
 SILTSTONE 20% Red brown, arenaceous, argillaceous, dolomitic, firm.
 LIMESTONE 50% Light to medium gray, argillaceous, lithographic, mudstone.
- 5520-50** SHALE 40% Red orange, silty, dolomitic, blocky.
 SILTSTONE 30% Red brown, arenaceous, argillaceous, dolomitic, firm.
 LIMESTONE 20% Light to medium gray, argillaceous, lithographic, mudstone.
 ANHYDRITE 10% White, soft, chalky.

- 5550-80** SHALE 30% Red orange, silty, dolomitic, blocky.
 SILTSTONE 30% Red brown, arenaceous, argillaceous, dolomitic, firm.
 LIMESTONE 20% Light to medium gray, argillaceous, lithographic, mudstone.
 ANHYDRITE 20% White, chalky, soft, clear translucent.
- 5580-5610** SHALE 40% Red orange, silty, dolomitic, blocky.
 SILTSTONE 30% Red brown, arenaceous, argillaceous, dolomitic, firm.
 LIMESTONE 20% Light to medium gray, argillaceous, lithographic, mudstone.
 ANHYDRITE 10% White, soft, chalky.
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- 5610-5640** SHALE 30% Red orange, silty, dolomitic, blocky.
 SILTSTONE 30% Red brown, arenaceous, argillaceous, dolomitic, firm.
 LIMESTONE 30% Light to medium gray, argillaceous, lithographic, mudstone.
 ANHYDRITE 10% White, soft, chalky.
- 5640-70** SHALE 30% Red orange, silty, dolomitic, blocky.
 SILTSTONE 10% Red brown, arenaceous, argillaceous, dolomitic, firm.
 LIMESTONE 20% Light to medium gray, argillaceous, lithographic, mudstone.
 ANHYDRITE 40% Crystalline, clear, translucent.
- 5670-5700** LIMESTONE 100% Light to medium gray, hard, dense, crystalline, lithographic, mudstone. (Note; no spill coming over shaker - roughneck caught cutting from possum belly that came from up hole - drilling 100% salt. No return over shaker screen.)
- 5700-30** LIMESTONE 100% Light to medium gray, hard, dense, crystalline, lithographic, mudstone.
- 5730-60** LIMESTONE 100% Light to medium gray, hard, dense, crystalline, lithographic, mudstone.
- 5760-90** LIMESTONE 100% Light to medium gray, hard, dense, crystalline, lithographic, mudstone.
- 5790-5820** LIMESTONE 100% Light to medium gray, hard, dense, crystalline, lithographic, mudstone.
- 5820-50** LIMESTONE 100% Light to medium gray, hard, dense, crystalline, lithographic, mudstone.
- 5850-80** LIMESTONE 100% Light to medium gray, hard, dense, crystalline, lithographic, mudstone.

INFORMATION

WELLS

5880-5910 SHALE 10% Red brown, silty, color.
LIMESTONE 80% Light gray, argillaceous, earthy, lithographic, mudstone.
ANHYDRITE 10% White, soft, chalky.

5910-40 SHALE 20% Red brown, silty, color.
LIMESTONE 60% Light gray, argillaceous, earthy, lithographic, mudstone.
ANHYDRITE 20% White, soft, chalky.

5940-70 SHALE 10% Red brown, silty, color.
LIMESTONE 80% Light gray, argillaceous, earthy, lithographic, mudstone.
ANHYDRITE 10% White, soft, chalky.

5970-6000 SHALE 10% Red brown, silty. blocky, dolomitic.
LIMESTONE 70% Light to medium gray, argillaceous, earthy, lithographic, mudstone.
ANHYDRITE 20% White, soft, chalky, silty.

6000-6030 LIMESTONE 100% Light to medium gray, argillaceous, earthy, lithographic, mudstone.

6030-60 LIMESTONE 100% Tan, light brown, light to medium gray brown, crystalline, dense, micro crystalline, light to medium gray.

6060-90 SHALE 10% Red brown, silty, dolomitic, blocky, firm.
LIMESTONE 90% Tan, light brown, light to medium gray brown, crystalline, dense, micro crystalline, light to medium gray.

6090-6120 LIMESTONE 100% Tan, light brown, light to medium gray brown, crystalline, dense, micro crystalline, light to medium gray, abundant, white, anhydrite fracture in fill.

6120-50 LIMESTONE 100% Light to medium gray, argillaceous, lithographic, mudstone, 20% soft, chalky, firm, abundant anhydrite.

6150-80 LIMESTONE 100% Light medium to gray brown , tan, crystalline, dense, hard, tight, lithographic, mudstone.

6180-6210 LIMESTONE 100% Light medium to gray brown , tan, crystalline, dense, hard, tight, lithographic, mudstone.

6210-40 LIMESTONE 100% Light medium to gray brown , tan, crystalline, dense, hard, tight, lithographic, mudstone.

WELLS

- 6240-70** **LIMESTONE 100%** Light to medium to gray brown , tan, crystalline, dense, hard, tight, lithographic, mud stone.
- 6270-6300** **LIMESTONE 100%** Medium to dark gray brown, brown, light medium gray brown, tan, crystalline, in part, pack stone to grain stone, mud stone matrix , pellets, oolitic.
- 6300-30** **LIMESTONE 100%** Light to medium gray brown, tan, light brown, crystalline, dense, pack stone to grain stone mudstone matrix, very fine to fine crystalline & sucrosic in part .
- 6330-60** **LIMESTONE 100%** Light to medium gray, medium to dark gray, crystalline, dense, lithographic, mudstone.
- 6360-90** **LIMESTONE 100%** Light gray, white, silty, sandy, chalky in part, light to medium gray brown, crystalline, dense pink stone to green stone in part, mudstone matrix, very fine to fine crystalline & sucrosic in part, lithographic, mud tone.
- 6390-6420** **LIMESTONE 100%** Medium to dark gray, argillaceous, earthy, hard, crystalline, mudstone.
- 6420-50** **SHALE 30%** Red brown, silty, sandy, dolomitic, blocky, firm to hard.
SILTSTONE 20% Red brown, white, arenaceous, argillaceous, limy, firm.
LIMESTONE 50% Light to medium gray, crystalline, dense, abundant fracture in fill, light brown, tan, pink, micro crystalline, dense, hard, tight, mudstone.
- 6450-6480** **LIMESTONE 90%** Medium to dark gray, crystalline, dense, argillaceous, earthy, dolomitic, mudstone.
SANDSTONE 10% white, clear, quartz, fine to medium grained, sub angular to rounded, fine to poor sorted, clay matrix, siliceous cement, friable, 8-12% intrgranular porosity, brown oil stained, yellow to white, oil fluorescence yellow to white milky cut fluorescence, yellow to gold residual ring.

- 6480-6510** **LIMESTONE 10%** Light to medium gray, sandy, argillaceous, lithographic, mud stone.

SANDSTONE 90% White, clear, quartzose, fine to coarsely granulated, sub angular to rounded, fine to poor sorted, clay matrix, siliceous cement, friable, 50% unconsolidated, 10-14% intrgranular porosity, strong hydro carbon odor, rainbows, brown oil stained in matrix, yellow to white oil fluorescence, yellow to white milky cut, yellow to gold residual ring cut.

6510-40 SANDSTONE 100% White, clear, quartzose, fine to coarsely granulated, sub angular to rounded, fine to poor sorted, clay matrix, siliceous cement, friable, 85% unconsolidated, 10-14% intrgranular porosity, strong hydro carbon odor, rainbows, brown oil stained in matrix, yellow to white oil fluorescence, yellow to white milky cut, yellow to gold residual ring cut.

6540-70 SANDSTONE 100% White, clear, quartzose, fine to coarsely granulated, sub angular to rounded, fine to poor sorted, clay matrix, siliceous cement, friable, 95% unconsolidated, 10-14% intrgranular porosity, strong hydro carbon odor, rainbows, brown oil stained in matrix, yellow to white oil fluorescence, yellow to white milky cut, yellow to gold residual ring cut, abundant blocky heavy oil in clasts matrix.

6570-6600 SANDSTONE 100% White, clear, quartzose, fine to coarsely granulated, sub angular to rounded, fine to poor sorted, clay matrix, siliceous cement, friable, 95% unconsolidated, 10-14% intrgranular porosity, strong hydro carbon odor, rainbows, brown oil stained in matrix, yellow to white oil fluorescence, yellow to white milky cut, yellow to gold residual ring cut.

6600-30 SANDSTONE 100% White, clear, quartzose, fine to coarsely granulated, sub angular to rounded, fine to poor sorted, clay matrix, siliceous cement, friable, 90% unconsolidated, 10-14% intrgranular porosity, strong hydro carbon odor, rainbows, brown oil stained in matrix, yellow to white oil fluorescence, yellow to white milky cut, yellow to gold residual ring cut.

6630-60 SANDSTONE 100% White, clear, quartzose, very fine to coarsely granulated, sub angular to rounded, fine to poor sorted, clay matrix, siliceous cement, friable, 70% unconsolidated, 10-14% intrgranular porosity, strong hydro carbon odor, rainbows, brown oil stained in matrix, yellow to white oil fluorescence, yellow to white milky cut, yellow to gold residual ring cut.

6660-90 SANDSTONE 100% White, clear, quartzose, very fine to coarsely granulated, sub angular to rounded, fine to poor sorted, clay matrix, siliceous cement, friable, 75% unconsolidated, 10-14% intrgranular porosity, strong hydro carbon odor, rainbows, brown oil stained in matrix, yellow to white oil fluorescence, yellow to white milky cut, yellow to gold residual ring cut.

- 6690-6720 SANDSTONE 100% White, clear, quartzose, fine to coarsely granulated, sub angular to rounded, fine to poor sorted, clay matrix, siliceous cement, friable, 98% unconsolidated, 10-14% intrgranular porosity, strong hydro carbon odor, rainbows, brown oil stained in matrix, yellow to white oil fluorescence, yellow to white milky cut, yellow to gold residual ring cut.**
- 6720-50 SANDSTONE 70% White, clear, quartzose, very fine to coarsely granulated, sub angular to rounded, fine to poor sorted, clay matrix, siliceous cement, friable, 70% unconsolidated, 10-14% intrgranular porosity, strong hydro carbon odor, rainbows, brown oil stained in matrix, yellow to white oil fluorescence, yellow to white milky cut, yellow to gold residual ring cut, abundant white, hard, tight.
SHALE 20% Red brown, silty, blocky, firm to hard, dolomitic.
ANHYDRITE 10% White, soft, chalky.**
- 6750-80 SANDSTONE 100% White, clear, quartzose, fine to coarsely granulated, sub angular to rounded, fine to poor sorted, clay matrix, siliceous cement, friable, 98% unconsolidated, 10-14% intrgranular porosity, strong hydro carbon odor, rainbows, brown oil stained in matrix, yellow to white oil fluorescence, yellow to white milky cut, yellow to gold residual ring cut.**
- 6780-6810 SANDSTONE 100% White, clear, quartzose, fine to coarsely granulated, sub angular to rounded, fine to poor sorted, clay matrix, siliceous cement, friable, 98% unconsolidated, 10-14% intrgranular porosity, strong hydro carbon odor, rainbows, brown oil stained in matrix, yellow to white oil fluorescence, yellow to white milky cut, yellow to gold residual ring cut.**
- 25**
- 6810-40 SANDSTONE 100% White, clear, quartzose, very fine to coarsely granulated, sub angular to rounded, fine to poor sorted, clay matrix, siliceous cement, friable, 98% unconsolidated, 10-14% intrgranular porosity, strong hydro carbon odor, rainbows, brown oil stained in matrix, yellow to white oil fluorescence, yellow to white milky cut, yellow to gold residual ring cut.**
- 6840-70 SANDSTONE 100% White, clear, quartzose, very fine to coarsely granulated, sub angular to rounded, fine to poor sorted, clay matrix, siliceous cement, friable, 85% unconsolidated, 10-14% intrgranular porosity, strong hydro carbon odor, rainbows, brown oil stained in**

matrix, yellow to white oil fluorescence, yellow to white milky cut, yellow to gold residual ring cut.

6870-6900 SANDSTONE 100% White, clear, quartzose, very fine to coarsely granulated, sub angular to rounded, fine to poor sorted, clay matrix, siliceous cement, friable, 90% unconsolidated, 10-14% intrgranular porosity, strong hydro carbon odor, rainbows, brown oil stained in matrix, yellow to white oil fluorescence, yellow to white milky cut, yellow to gold residual ring cut.

6900-30 SANDSTONE 100% White, clear, quartzose, fine to coarsely granulated, sub angular to rounded, fine to poor sorted, clay matrix, siliceous cement, friable, 98% unconsolidated, 10-14% intrgranular porosity, strong hydro carbon odor, rainbows, brown oil stained in matrix, yellow to white oil fluorescence, yellow to white milky cut, yellow to gold residual ring cut, weak to no show mixed zone.

6930-60 SANDSTONE 100% White, clear, quartzose, very fine to coarsely granulated, sub angular to rounded, fine to poor sorted, clay matrix, siliceous cement, friable, 95% unconsolidated, 10-14% intrgranular porosity, strong hydro carbon odor, rainbows, brown oil stained in matrix, yellow to white oil fluorescence, yellow to white milky cut, yellow to gold residual ring cut, no show.

6960-90 SANDSTONE 100% White, clear, quartzose, very fine to coarsely granulated, sub angular to rounded, fine to poor sorted, clay matrix, siliceous cement, friable, 95% unconsolidated, 10-14% intrgranular porosity, strong hydro carbon odor, rainbows, brown oil stained in matrix, yellow to white oil fluorescence, yellow to white milky cut, yellow to gold residual ring cut, no show.

6990-7020 SANDSTONE 100% White, clear, quartzose, fine to coarsely granulated, sub angular to rounded, fine to poor sorted, clay matrix, siliceous cement, friable, 98% unconsolidated, 10-14% intrgranular porosity, strong hydro carbon odor, rainbows, brown oil stained in matrix, yellow to white oil fluorescence, yellow to white milky cut, yellow to gold residual ring cut, no show.

7020-50 SANDSTONE 100% White, clear, quartzose, very fine to coarsely granulated, sub angular to rounded, fine to poor sorted, clay matrix, siliceous cement, friable, 70% unconsolidated, 10-14% intrgranular porosity, strong hydro carbon odor, rainbows, brown oil stained in matrix, yellow to white oil fluorescence, yellow to white milky cut, yellow to gold residual ring cut, no show.

7050-80 SANDSTONE 100% White, clear, quartzose, fine to coarsely granulated, sub angular

to rounded, fine to poor sorted, clay matrix, siliceous cement, friable, 98% unconsolidated, 10-14% intrgranular porosity, strong hydro carbon odor, rainbows, brown oil stained in matrix, yellow to white oil fluorescence, yellow to white milky cut, yellow to gold residual ring cut, no show.

7080-7110 SANDSTONE 100% White, clear, quartzose, fine to coarsely granulated, sub angular to rounded, fine to poor sorted, clay matrix, siliceous cement, friable, 98% unconsolidated, 10-14% intrgranular porosity, strong hydro carbon odor, rainbows, brown oil stained in matrix, yellow to white oil fluorescence, yellow to white milky cut, yellow to gold residual ring cut, no show.

7110-40 SANDSTONE 100% White, clear, quartzose, fine to coarsely granulated, sub angular to rounded, fine to poor sorted, clay matrix, siliceous cement, friable, 98% unconsolidated, 10-14% intrgranular porosity, strong hydro carbon odor, rainbows, brown oil stained in matrix, yellow to white oil fluorescence, yellow to white milky cut, yellow to gold residual ring cut, no show.

7140-58 SANDSTONE 100% White, clear, quartzose, very fine to coarsely granulated, sub angular to rounded, fine to poor sorted, clay matrix, siliceous cement, friable, 98% unconsolidated, 10-14% intrgranular porosity, strong hydro carbon odor, rainbows, brown oil stained in matrix, yellow to white oil fluorescence, yellow to white milky cut, yellow to gold residual ring cut, no show.

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

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

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

5. Lease Serial No.
UTU-73528

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

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

8. Well Name and No.
Wolverine Federal #20-1

9. API Well No.
43-041-30032-00-00

10. Field and Pool, or Exploratory Area
Exploratory

11. County or Parish, State
Sevier County, UT

SUBMIT IN TRIPLICATE - Other instructions on reverse side

1. Type of Well
 Oil Well Gas Well Other

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

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

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

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)
Surface: 833' FSL & 1,925' FWL, SE/SW, Sec 17, T23S, R1W
Bottom: 660' FNL & 660' FWL, NW/NW, Sec 20, T23S, R1W

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

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

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

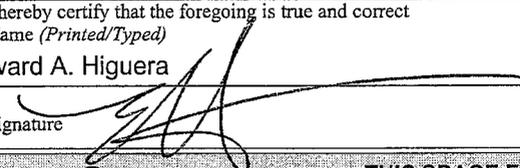
Wolverine Gas and Oil Company of Utah, LLC plan to undertake a work-over on the Wolverine Federal 20-1, which is part of the Covenant Field. Based on the analysis of the well, the existing perforations are under performing. Therefore, we intend to acid treat existing perforations. We also intend to perforate additional pay intervals in the Lower Navajo at 6721-6744' MD, 6699-6712' MD, and 6684-6691. Once the work is completed, the well will be returned to production.

COPY SENT TO OPERATOR
Date: 6/22/2010
Initials: KS

RECEIVED
JUN 14 2010
DIV. OF OIL, GAS & MINING

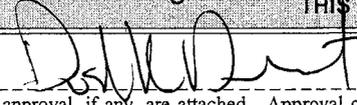
14. I hereby certify that the foregoing is true and correct
Name (Printed/Typed)
Edward A. Higuera

Title **Manager Development**

Signature 

Date **06-11-2010**

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved by  Title **Pet. Eng.** Date **6/16/10**

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 **DOG M** Federal Approval Of This Action Is Necessary

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

(Instructions on reverse)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

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

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

SUBMIT IN TRIPLICATE - Other instructions on reverse side

1. Type of Well
 Oil Well Gas Well Other

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

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

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

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)
 Surface: 833' FSL & 1,925' FWL, SE/SW, Sec 17, T23S, R1W
 Bottom: 660' FNL & 660' FWL, NW/NW, Sec 20, T23S, R1W

5. Lease Serial No.
 UTU-73528

6. If Indian, Allottee or Tribe Name
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7. If Unit or CA/Agreement, Name and/or No.
 Wolverine Fed Exploration Unit

8. Well Name and No.
 Wolverine Federal #20-1

9. API Well No.
 43-041-30032-00-00

10. Field and Pool, or Exploratory Area
 Covenant Field

11. County or Parish, State
 Sevier County, UT

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

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

Dates: 6/14/2010 to 6/25/2010

The Wolverine Federal 20-1 had a cement squeeze pumped through a CICR set at 6870' to repair a hole in the casing at 6884'. The well was then acidized through the existing perforation intervals of 6760' - 6782', 6800' - 6816' and 6828' - 6838'. Finally, an additional perforation interval was added at 6721' - 6744' with 6 spf. A successful cement squeeze was pumped with 10 bbls of fresh water followed by 30 sacks of 15.8# 1.15Y cement followed by 38.5 bbls of fresh water through the CICR and the tubing was released from the retainer. The remaining cement above the retainer was reverse circulated out with a new PBSD of 6860'. Maximum injection pressure during the squeeze reached 1920 psi at 2 BPM.

A RBP and packer were set at 6822' and 6667' respectively to pump 3800 gallons of 15% FE acid containing 125 7/8" BioBall sealers and 200 Buoyant Balls into the existing perforation intervals. Maximum injection pressure reached 3986 psi at 1.6 BPM with no evident ball action present due to the low injection rate. The RBP was reset and the 6721' - 6744' interval was perforated with 6 spf. ESP equipment was rerun, and the well was returned to production.

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

Name (Printed/Typed) Matthew Rivers Title Production Engineer

Signature  Date 12/01/2010

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved by _____ Title _____ Date _____

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

Office _____

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

(Instructions on reverse)

RECEIVED

DEC 06 2010



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

Energy Exploration in Partnership with the Environment

December 1, 2010

Mr. Gil Hunt
Utah Division of Oil Gas and Mining
1594 West North Temple
Suite 1210
Salt Lake City, UT 84116

Dear Mr. Hunt:

Today I electronically submitted a sundry and enclosed is another sundry for Wolverine Gas and Oil, LLC wells located in Sevier County, Utah. Both the Kings Meadow Ranches 17-7 and the Wolverine Federal 20-1 were worked on this year in an effort to increase production.

Please feel free to contact either Matt Rivers or myself if you have any questions regarding these documents.

Regards,

Helene Bardolph
Wolverine Gas and Oil Corp.
616-458-1150 x1136
hbardolph@wolvgas.com

RECEIVED

DEC 06 2010

DIV. OF OIL, GAS & MINING



Covenant Field
Federal 20-1
API# 43-041-30032

SE/SW Sec 17, T23N, R1W
Sevier County, Utah

- 5/14/2012 Moved in frac tanks, rig pump, pipe racks and rig baskets.
- 5/15/2012 Hooked up flowback lines, filled frac tanks with KCL water and laid out oil absorbent matting around well.
- 5/16/2012 Crew travel to location, MIRUSU, ND wellhead, NU BOPs.
- 5/17/2012 Opened well, 0 psi tubing, 0 psi casing. RU cable spoolers, pulled out of hole with tubing and ESP equipment. RD and release spooling equipment, tripped in hole with open ended tubing and tagged cement top at 7112', picked up and spaced tubing out 1' off of cement top at 7111'. RU pump lines and circulated well clean with fresh water. SWIFN
Note: No corrosion to the ESP equipment or tubulars.
Plan to squeeze lower Navajo 1 perforations.
- 5/18/2012 Opened well, 0 psi. RU Halliburton cementing equipment, and pumped cement squeeze as follows:
1. Pumped 12 bbls of fresh water to fill wellbore.
 2. Pump 50 sks (10.24 Bbls) of 15.8 lb/gal squeeze cem cement
 3. Pump 5 Bbl FW spacer
 4. Displace with 29 Bbls 4% KCL
 5. RD pump lines
 6. Pull out of hole with 10 joints
 7. RU pump lines
 8. Squeezed 1.5 bbls at 0.5 bpm with a max pressure of 800 psi
 9. SD for 4 minutes, pressure held at 800 psi
 10. Squeezed 0.5 bbls at 0.5 bpm with a max pressure of 1200 psi
 11. SD for 1 minutes, pressure held at 1200 psi
 12. Squeezed 0.5 bbls at 0.5 bpm with a max pressure of 1500 psi
 13. SD for 4 minutes, pressure held at 1500 psi
 14. Bled pressure off and RD pump lines
 15. TIH with tubing to 7020' and reversed out with 65 bbls of 4% water.
 16. Pulled out of hole with 20 joints
 17. RU pump lines and pressured well to 500 psi.
- SWIFN
Plan to pressure test cement squeeze / swab fluid level down to 2500' / perforate 6973'-6982' / TIH with tubing, packer and plug.
- 5/19/2012 Opened well, 560 psi. RU pump lines and pressure tested cement squeeze to 2000 psi. RD pump lines, RU swab equipment and swabbed fluid level down to 2500', RD swab equipment and pulled out of hole with tubing. RU wireline unit and perforated well as follows:
- Perf interval - 6973'-6982'
Titan Part # EXP 3325-321T
.41 entry hole
25 gram charges
45.16" penetration
4" EXP gun loaded 6 spf on 60° phasing.

RD and released wireline unit, picked up and tripped in hole with bridge plug, retrieving head, 4' sub, HD packer, 1 joint, SN and 210 joints of tubing. While tripping in the hole on joint 210 the bridge plug set itself, during the attempt to release the bridge plug the packer was set as well. This prevented any chance of releasing the plug and packer combination. SWIFN

Note: Tagged PBSD with perforating gun, estimated PBSD @ 7024'

Note: Plug was stuck at 6513'

Plan to cut the tubing sub between the packer and plug / pull out of hole with packer / Trip in and release plug.

Opened well, 0 psi. RU wireline unit and run in hole with chemical cutter and made a cut on the 4' tubing sub between the packer and plug. Pulled out of hole with cutter and unsuccessfully tried to release the packer.

Rigged up a second chemical cutter and made a second cut on the 4' tubing sub between the packer & plug, pulled out of hole with the cutter and was able to release the packer. RD and released wireline unit and pulled out of hole with tubing, packer and cut sub. Picked up and run in hole with overshot, xo, bumper sub, jar, xo, 6' sub, one joint, 4' sub and tubing to surface. Latched onto fish and made several unsuccessful attempts to release the plug. Released the retrieving head from the bridge plug and pulled out of hole with tubing, fishing tools and retrieving head. SWIFN.

Plan to TIH with tubing and retrieving head / RU power swivel and work the plug free.

Opened well, 0 psi. Picked up and run in hole with retrieving head, xo, bumper sub, jars, xo, 6' sub and tubing to surface. RU power swivel and torqued tubing to the right then set off jars and pulled plug free. RD power swivel and pulled out of hole with tubing and retrievable plug. Picked up a new packer and plug combination and run in the hole and stuck the plug in the same spot at 6513', worked the plug up hole for approximately 3' then set back down and dog locked the plug and packer for a second time.

Plan to cut off the tubing sub between the plug and pkr / pull out of hole with tools / run casing inspection log.

RU wireline unit and run in hole with 2 1/8" chemical cutter and cut off the 8' sub between the tubing and packer, RD wireline unit. Pulled out of hole with tubing packer and plug. RU wireline unit and run a casing inspection log from 6750' to 5000' with a 60 finger imaging tool. Casing damage was found as follows:

5336' Minor damage

5940' Minor damage

6064' Minor damage

6382' Minor damage

6494' Minor damage

6513' Collapsed to 5.6" ID

Due to problems with the logging tool or debris on the casing walls the exact ID of the specific areas were not determined. The estimated ID at the problem area of 6513' was 5.6"

Plan to order casing and liner equipment to be run from 7023'-5023'

Rig crew moved pipe racks and prepared location for casing and drill collars.

No activity, rig crew on days off

Set pipe racks and hydraulic cat walk, unloaded drill collars and 4 1/2" 11.6# P110 casing and staged on racks.

Plan to run a 4 1/2" x 5' piece of casing with collars on both ends to PBSD prior to running casing liner on 5/31.

Crew travel to location, unloaded casing liner hanger. RU wireline unit and RIH with 5' of 4-1/2" casing with

collars on both ends to PBSD, pulled out of hole with casing drift, RD and released wireline unit.

Plan to install casing liner.

5/31/2012

Opened well, 0 psi. Picked up and run in hole with float shoe, float collar, landing collar, 45 joints of new 4-1/2" P110 8rd 11.6# casing, 3-1/2" IF x 2 7/8" xo, hanger, pkr, liner top, setting tool, bumper sub, 28 4-3/4" x 3-1/2" drill collars and 3-1/2"x 2 7/8" xo. RU pump lines and circulated 85 bbls of fresh water through liner to confirm circulation and remove oil from the annulus.

Plan to finish running in hole with liner / cement.

6/1/2012

Opened well, 0 psi. Finished tripping in hole with 2 7/8" tubing, tagged cement top at 7024', picked up 2'. RU Halliburton cementing equipment and cemented liner in hole as follows:

1. Pumped 20 bbls of fresh water to establish circulation
2. Pressure tested lines to 4400 psi
3. Set liner
4. Pumped 10 bbls fresh water
5. Pumped 43 bbls (210 sks) of 15.8 ppg Premium G cement slurry yield 1.15 ft³/sk water 4.92 gal/sk
6. Dropped wiper plug
7. Pumped 59 bbls of fresh water - Bumped plug and pressured to 2784 psi
8. Set packer and pressure tested to 1600 psi
9. Reverse circulated out with 85 bbls of 4% KCL water

RD and released cementing equipment. Pulled out of hole laying down 28, 4-3/4" drill collars and setting tool. SWIFN, Plan to run in hole with bit and scraper.

Note: See 4.5" Liner install settings tab for details

See 4.5" Liner cementing graph for details

6/2/2012

Opened well, 0 psi. Picked up and run in hole with 3 7/8" bit, casing scraper, xo, 69 joints of 2 3/8" tubing, xo, and 156 joints of 2 7/8" tubing, tagged up at 6977', rigged up power swivel and rotated pipe while reverse circulating down to PBSD at 7018'. Reversed 55 bbls of 4% KCL, RD pump lines and pulled out of hole with bit and casing scraper. SWIFN

Plan to perforate / swab perf intervals at 6973'-6982'

6/3/2012

Opened well, 0 psi. RU wireline unit and perforated well as follows:

Perf interval - 6973'-6982'

Owen Part # SDP-3125-411NT4

.37 entry hole

25 gram charges

42.90" penetration (35.6" thru 4 1/2" liner and 7" casing string)

4" EXP gun loaded 6 spf on 60° phasing.

RD and released wireline unit, picked up and tripped in hole with bridge plug, retrieving head, 1 joint 2 3/8" tubing, packer, 68 joints 2 3/8" tubing, xo, 4' sub, cup type SN and 2 7/8" tubing to surface. Set plug at 6999', set packer at 6898' with EOT at 6935'. RU pump lines, pressure tested packer to 1000 psi, RD pump lines, RU swab equipment and made two swab runs with no entry, RU pump lines, loaded tubing with 4% KCL and pressured up to 1500 psi with an approximate 350 psi bleed off in 10 minutes. Re pressured three times to 1500 psi with similar results. SWIFN

Plan to pump acid into perf interval 6973'-6982' / swab back for rate and clean up.

6/4/2012

Opened well, 0 psi tubing, 0 psi casing. RU Halliburton acid equipment and pumped acid job on perf interval 6973'-6982' as follows:

<u>Detail</u>	Bbls	Cumm	Max BPM	Max PSI
Pumped CF to fill tubing	0	0	0	0
Opened bypass on packer	~	~	~	~
Spotted 7 1/2% FE HCL	23.84	23.84	2	390
Spotted 4% KCL	11.02	34.86	2	2500
Closed bypass on packer	~	~	~	~
Pumped 7 1/2% FE HCL	0.13	34.99	0.5	1015
Shut down and waited for pressure to bleed off				
Pumped 4% KCL	0.05	35.04	0.5	1996
Shut down and waited for pressure to bleed off				
Pumped 4% KCL	0.04	35.08	0.5	1973
Shut down and waited for pressure to bleed off				
Pumped 4% KCL	0.05	35.13	0.5	2431
Shut down and waited for pressure to bleed off				
Pumped 4% KCL	0.02	35.15	0.5	2500
Shut down and waited for pressure to bleed off				
Pumped 4% KCL	0.02	35.17	0.5	2540
Shut down and waited for pressure to bleed off				
Pumped 4% KCL	0.01	35.18	0.5	2527
Shut down and waited for pressure to bleed off				
Pumped 4% KCL	0.02	35.2	0.5	2517
Shut down and waited for pressure to bleed off				
Pumped 4% KCL	0.02	35.22	0.5	2492
Shut down and waited for pressure to bleed off				
Pumped 4% KCL	0.01	35.23	0.5	2720
Shut down and waited for pressure to bleed off				
Pumped 4% KCL	0.03	35.26	0.5	2540
Shut down and waited for pressure to bleed off				
Pumped 4% KCL	0.02	35.28	0.5	2527
Shut down and waited for pressure to bleed off				
Pumped 4% KCL	0.03	35.31	0.5	2517
Shut down and waited for pressure to bleed off				
Pumped 4% KCL	0.03	35.34	0.5	2492
Shut down and waited for pressure to bleed off				
Pumped 4% KCL	0.03	35.37	0.5	2503
Shut down and waited for pressure to bleed off				
Pumped 4% KCL	0.04	35.41	0.5	2471
Shut down and waited for pressure to bleed off				
Pumped 4% KCL	0.02	35.43	0.5	2475
Shut down and waited for pressure to bleed off				
Pumped 4% KCL	0.04	35.47	0.5	2499
Shut down and waited for pressure to bleed off				
Pumped 4% KCL	0.03	35.5	0.5	2483

Shut down and waited for pressure to bleed off				
Pumped 4% KCL	0.03	35.53	0.5	2460
Shut down and waited for pressure to bleed off				
Pumped 4% KCL	0.03	35.56	0.5	2439
Shut down and waited for pressure to bleed off				
Pumped 4% KCL	0.03	35.59	0.5	2470
Shut down and waited for pressure to bleed off				
Pumped 4% KCL	0.03	35.62	0.5	2541
Shut down and waited for pressure to bleed off				
Pumped 4% KCL	0.03	35.65	0.5	2494
Shut down and waited for pressure to bleed off				
Pumped 4% KCL	0.03	35.68	0.5	2507
Shut down and waited for pressure to bleed off				
Pumped 4% KCL	0.04	35.72	0.5	2494
Shut down and waited for pressure to bleed off				
Pumped 4% KCL	0.03	35.75	0.5	2490
Shut down and waited for pressure to bleed off				
Pumped 4% KCL	0.03	35.78	0.5	2458
Shut down and waited for pressure to bleed off				
Pumped 4% KCL	0.03	35.81	0.5	2471
Shut down and waited for pressure to bleed off				
Pumped 4% KCL	0.03	35.84	0.5	2413
Shut down and waited for pressure to bleed off				
Pumped 4% KCL	0.03	35.87	0.5	2485
Shut down and waited for pressure to bleed off				
Pumped 4% KCL	0.03	35.9	0.5	2493
Shut down and waited for pressure to bleed off				
Pumped 4% KCL	0.03	35.93	0.5	2434
Shut down and waited for pressure to bleed off				
Pumped 4% KCL	0.03	35.96	0.5	2491
Shut down and waited for pressure to bleed off				
Pumped 4% KCL	0.03	35.99	0.5	2474
Shut down and waited for pressure to bleed off				
Pumped 4% KCL	0.03	36.02	0.5	2508
Shut down and waited for pressure to bleed off				
Pumped 4% KCL	0.03	36.05	0.5	2486
Shut down and waited for pressure to bleed off				
Pumped 4% KCL	0.03	36.08	0.5	2489
Shut down and waited for pressure to bleed off				
Pumped 4% KCL	0.03	36.11	0.5	2981
Shut down and waited for pressure to bleed off				
Pumped 4% KCL	0.02	36.13	0.5	2968
Shut down and waited for pressure to bleed off				

Pumped 4% KCL	0.02	36.15	0.5	2951
Shut down and waited for pressure to bleed off				
Pumped 4% KCL	0.08	36.23	0.5	2982
Shut down and waited for pressure to bleed off				
Pumped 4% KCL	0.08	36.31	0.5	2978
Shut down and waited for pressure to bleed off				
Pumped 4% KCL	0.07	36.38	0.5	2971
Shut down and waited for pressure to bleed off				
Pumped 4% KCL	0.08	36.46	0.5	2951
Shut down and waited for pressure to bleed off				
Pumped 4% KCL	0.08	36.54	0.5	2962
Shut down and waited for pressure to bleed off				
Pumped 4% KCL	0.08	36.62	0.5	2945
Shut down and waited for pressure to bleed off				
Pumped 4% KCL	0.08	36.7	0.5	2962
Shut down and waited for pressure to bleed off				
Pumped 4% KCL	0.08	36.78	0.5	2967
Shut down and waited for pressure to bleed off				
Pumped 4% KCL	0.08	36.86	0.5	2955
Shut down and waited for pressure to bleed off				
Pumped 4% KCL	0.08	36.94	0.5	2986
Shut down and waited for pressure to bleed off				
Pumped 4% KCL	0.1	37.04	0.5	2906
Shut down and waited for pressure to bleed off				
Pumped 4% KCL	0.09	37.13	0.5	2954
Shut down and waited for pressure to bleed off				
Pumped 4% KCL	0.1	37.23	0.5	2949
Shut down and waited for pressure to bleed off				
Pumped 4% KCL	0.09	37.32	0.5	2937
Shut down and waited for pressure to bleed off				
Pumped 4% KCL	0.1	37.42	0.5	2935
Shut down and waited for pressure to bleed off				
Pumped 4% KCL	0.1	37.52	0.5	3001
Shut down and waited for pressure to bleed off				
Pumped 4% KCL	0.1	37.62	0.5	3041
Shut down and waited for pressure to bleed off				
Pumped 4% KCL	0.1	37.72	0.5	3013
Shut down and waited for pressure to bleed off				
Pumped 4% KCL	0.11	37.83	0.5	3459
Shut down and waited for pressure to bleed off				
Pumped 4% KCL	0.16	37.99	0.5	3537
Shut down and waited for pressure to bleed off				
Pumped 4% KCL	0.16	38.15	0.5	3502

Shut down and waited for pressure to bleed off				
Pumped 4% KCL	0.08	38.23	0.5	3513
Shut down and waited for pressure to bleed off				
Pumped 4% KCL	0.07	38.3	0.5	3522
Shut down and waited for pressure to bleed off				
Pumped 4% KCL	0.07	38.37	0.5	3503
Shut down and waited for pressure to bleed off				
Pumped 4% KCL	0.07	38.44	0.5	3530
Shut down and waited for pressure to bleed off				
Pumped 4% KCL	0.07	38.51	0.5	3519
Shut down and waited for pressure to bleed off				
Pumped 4% KCL	0.07	38.58	0.5	3521
Shut down and waited for pressure to bleed off				
Pumped 4% KCL	0.07	38.65	0.5	3484
Shut down and waited for pressure to bleed off				
Pumped 4% KCL	0.07	38.72	0.5	3510
Shut down and waited for pressure to bleed off				
Pumped 4% KCL	0.08	38.8	0.5	3484
Shut down and waited for pressure to bleed off				
Pumped 4% KCL	0.07	38.87	0.5	3517
Shut down and waited for pressure to bleed off				
Pumped 4% KCL	0.08	38.95	0.5	3501
Shut down and waited for pressure to bleed off				
Pumped 4% KCL	0.12	39.07	0.5	3517
Shut down and waited for pressure to bleed off				
Pumped 4% KCL	0.52	39.59	0.5	3460
Shut down and waited for pressure to bleed off				
Pumped 4% KCL	40.71	80.3	0.8	3446

General details

Pressure

ISIP	3240 psi
5 Min	0 psi
Max Treating Pressure	3537 psi
Max Acid Rate	0.8 bpm
Avg Treating Pressure	3295 psi
Load to Recover	82.3 bbls

Note: See 6-4 Acid stim 1 second data tab for details

RD and released acid equipment, RU swab equipment and swabbed well as follows:

Swab runs - 17

Water cut - 10%

Average rate - 300 bfpd

Average fluid level - 3600

Total fluid recovered - 93 bbls

Perf intervals open -6973'-6982'

See 6-4 Swab report for details.

6/5/2012

Opened well, 50 psi tubing, oil at surface. RU swab equipment, opened bypass on packer, made two swab runs to recover oil from tubing. RD swab equipment, released plug and packer and pulled out of hole with tubing. RU wireline unit and perforated well as follows:

Perf interval - 6926'-6947'

Owen Part # SDP-3125-411NT4

.37 entry hole

25 gram charges

42.90" penetration (35.6" thru 4 1/2" liner and 7" casing string)

4" EXP gun loaded 6 spf on 60° phasing.

RD and released wireline unit, picked up and tripped in hole with bridge plug, retrieving head, 1 joint 2 3/8" tubing, packer, 68 joints 2 3/8" tubing, xo, 4' sub, cup type SN and 2 7/8" tubing to surface. Set plug at 6961, set packer at 6867' with EOT at 6903'. RU pump lines, pressure tested packer to 1000 psi, RD pump lines. SWIFN, Plan to swab for rate and clean up.

6/6/2012

Opened well, 0 psi. RU swab equipment and made 4 swab runs with no entry. RU pump lines and loaded tubing with 4% KCL water then pressured up to 1500 psi with an approximate pressure bleed off of 400 psi in two minutes. Bled off pressure, RD pump lines, reset plug at 6999' and packer at 6867'. RU swab equipment and swabbed well as follows:

Swab runs - 21

Water cut - 3%

Average rate - 517 bfpd

Average fluid level - 3600

Total fluid recovered - 123 bbls

Perf intervals open -6973'-6982' & 6926'-6947'

See 6-6 Swab report for details.

Left well open to frac tank overnight.

6/7/2012

Well flowed back 100 bbls overnight. Reset packer at 6867', reset plug at 6961', RU Halliburton acid equipment and pumped acid job as follows:

<u>Detail</u>	Bbls	Cumm	Max BPM	Max PSI
Pumped CF to fill tubing	9.68	9.68	2	0
Opened bypass on packer	~	~	~	~
Spotted 7 1/2% FE HCL	21.77	21.77	2	355
Spotted 4% KCL	21.39	43.16	2	260
Closed bypass on packer	~	~	~	~
Pumped 7 1/2% FE HCL	0.18	43.34	0.5	1257
Shut down and waited for pressure to bleed off				
Pumped 4% KCL	0.07	43.41	0.5	1005
Shut down and waited for pressure to bleed off				
Pumped 4% KCL	0.08	43.49	0.5	975
Shut down and waited for pressure to bleed off				
Pumped 4% KCL	0.08	43.57	0.5	1026
Shut down and waited for pressure to bleed off				
Pumped 4% KCL	0.09	43.66	0.5	1075

Shut down and waited for pressure to bleed off				
Pumped 4% KCL	0.09	43.75	0.5	1086
Shut down and waited for pressure to bleed off				
Pumped 4% KCL	0.07	43.82	0.5	992
Shut down and waited for pressure to bleed off				
Pumped 4% KCL	0.06	43.88	0.5	978
Shut down and waited for pressure to bleed off				
Pumped 4% KCL	0.15	44.03	0.5	1468
Shut down and waited for pressure to bleed off				
Pumped 4% KCL	0.07	44.1	0.5	1453
Shut down and waited for pressure to bleed off				
Pumped 4% KCL	0.08	44.18	0.5	1485
Shut down and waited for pressure to bleed off				
Pumped 4% KCL	0.09	44.27	0.5	1421
Shut down and waited for pressure to bleed off				
Pumped 4% KCL	0.07	44.34	0.5	1472
Shut down and waited for pressure to bleed off				
Pumped 4% KCL	0.08	44.42	0.5	1475
Shut down and waited for pressure to bleed off				
Pumped 4% KCL	0.09	44.51	0.5	1459
Shut down and waited for pressure to bleed off				
Pumped 4% KCL	0.06	44.57	0.5	1448
Shut down and waited for pressure to bleed off				
Pumped 4% KCL	0.07	44.64	0.5	1447
Shut down and waited for pressure to bleed off				
Pumped 4% KCL	0.06	44.7	0.5	1453
Shut down and waited for pressure to bleed off				
Pumped 4% KCL	0.08	44.78	0.5	1458
Shut down and waited for pressure to bleed off				
Pumped 4% KCL	0.07	44.85	0.5	1484
Shut down and waited for pressure to bleed off				
Pumped 4% KCL	0.07	44.92	0.5	1496
Shut down and waited for pressure to bleed off				
Pumped 4% KCL	0.08	45	0.5	1552
Shut down and waited for pressure to bleed off				
Pumped 4% KCL	0.06	45.06	0.5	1397
Shut down and waited for pressure to bleed off				
Pumped 4% KCL	0.08	45.14	0.5	1501
Shut down and waited for pressure to bleed off				
Pumped 4% KCL	0.07	45.21	0.5	1498
Shut down and waited for pressure to bleed off				
Pumped 4% KCL	0.07	45.28	0.5	1472
Shut down and waited for pressure to bleed off				

Pumped 4% KCL	0.07	45.35	0.5	1489
Shut down and waited for pressure to bleed off				
Pumped 4% KCL	0.08	45.43	0.5	1495
Shut down and waited for pressure to bleed off				
Pumped 4% KCL	0.06	45.49	0.5	1453
Shut down and waited for pressure to bleed off				
Pumped 4% KCL	0.08	45.57	0.5	1495
Shut down and waited for pressure to bleed off				
Pumped 4% KCL	0.07	45.64	0.5	1500
Shut down and waited for pressure to bleed off				
Pumped 4% KCL	0.08	45.72	0.5	1517
Shut down and waited for pressure to bleed off				
Pumped 4% KCL	0.07	45.79	0.5	1501
Shut down and waited for pressure to bleed off				
Pumped 4% KCL	0.08	45.87	0.5	1485
Shut down and waited for pressure to bleed off				
Pumped 4% KCL	0.07	45.94	0.5	1492
Shut down and waited for pressure to bleed off				
Pumped 4% KCL	0.08	46.02	0.5	1487
Shut down and waited for pressure to bleed off				
Pumped 4% KCL	0.12	46.14	0.5	1478
Shut down and waited for pressure to bleed off				
Pumped 4% KCL	0.12	46.26	0.5	1471
Shut down and waited for pressure to bleed off				
Pumped 4% KCL	0.12	46.38	0.5	1493
Shut down and waited for pressure to bleed off				
Pumped 4% KCL	0.12	46.5	0.5	1484
Shut down and waited for pressure to bleed off				
Pumped 4% KCL	0.11	46.61	0.5	1453
Shut down and waited for pressure to bleed off				
Pumped 4% KCL	0.12	46.73	0.5	1469
Shut down and waited for pressure to bleed off				
Pumped 4% KCL	0.08	46.81	0.5	1425
Shut down and waited for pressure to bleed off				
Pumped 4% KCL	0.13	46.94	0.5	1505
Shut down and waited for pressure to bleed off				
Pumped 4% KCL	0.1	47.04	0.5	1495
Shut down and waited for pressure to bleed off				
Pumped 4% KCL	0.1	47.14	0.5	1493
Shut down and waited for pressure to bleed off				
Pumped 4% KCL	0.11	47.25	0.5	1491
Shut down and waited for pressure to bleed off				
Pumped 4% KCL	0.1	47.35	0.5	1486

Shut down and waited for pressure to bleed off				
Pumped 4% KCL	0.14	47.49	0.5	1943
Shut down and waited for pressure to bleed off				
Pumped 4% KCL	0.18	47.67	0.5	1912
Shut down and waited for pressure to bleed off				
Pumped 4% KCL	0.1	47.77	0.5	1931
Shut down and waited for pressure to bleed off				
Pumped 4% KCL	0.12	47.89	0.5	1997
Shut down and waited for pressure to bleed off				
Pumped 4% KCL	0.1	47.99	0.5	1964
Shut down and waited for pressure to bleed off				
Pumped 4% KCL	0.12	48.11	0.5	1980
Shut down and waited for pressure to bleed off				
Pumped 4% KCL	0.11	48.22	0.5	1987
Shut down and waited for pressure to bleed off				
Pumped 4% KCL	0.06	48.28	0.5	1995
Shut down and waited for pressure to bleed off				
Pumped 4% KCL	0.19	48.47	0.5	2312
Shut down and waited for pressure to bleed off				
Pumped 4% KCL	0.17	48.64	0.5	2463
Shut down and waited for pressure to bleed off				
Pumped 4% KCL	0.13	48.77	0.5	2495
Shut down and waited for pressure to bleed off				
Pumped 4% KCL	0.12	48.89	0.5	2490
Shut down and waited for pressure to bleed off				
Pumped 4% KCL	0.12	49.01	0.5	2503
Shut down and waited for pressure to bleed off				
Pumped 4% KCL	0.12	49.13	0.5	2487
Shut down and waited for pressure to bleed off				
Pumped 4% KCL	0.12	49.25	0.5	2480
Shut down and waited for pressure to bleed off				
Pumped 4% KCL	0.12	49.37	0.5	2512
Shut down and waited for pressure to bleed off				
Pumped 4% KCL	0.09	49.46	0.5	2493
Shut down and waited for pressure to bleed off				
Pumped 4% KCL	0.13	49.59	0.5	2496
Shut down and waited for pressure to bleed off				
Pumped 4% KCL	0.11	49.7	0.5	2486
Shut down and waited for pressure to bleed off				
Pumped 4% KCL	0.11	49.81	0.5	2489
Shut down and waited for pressure to bleed off				
Pumped 4% KCL	0.11	49.92	0.5	2485
Shut down and waited for pressure to bleed off				

Pumped 4% KCL	0.11	50.03	0.5	2481
Shut down and waited for pressure to bleed off				
Pumped 4% KCL	0.22	50.25	0.5	2951
Shut down and waited for pressure to bleed off				
Pumped 4% KCL	0.23	50.48	0.5	2982
Shut down and waited for pressure to bleed off				
Pumped 4% KCL	0.14	50.62	0.5	2975
Shut down and waited for pressure to bleed off				
Pumped 4% KCL	0.14	50.76	0.5	2982
Shut down and waited for pressure to bleed off				
Pumped 4% KCL	0.14	50.9	0.5	2975
Shut down and waited for pressure to bleed off				
Pumped 4% KCL	0.14	51.04	0.8	2980
Shut down and waited for pressure to bleed off				
Pumped 4% KCL	0.31	51.35	0.5	2952
Shut down and waited for pressure to bleed off				
Pumped 4% KCL	0.15	51.5	0.5	2969
Shut down and waited for pressure to bleed off				
Pumped 4% KCL	0.25	51.75	0.5	2951
Shut down and waited for pressure to bleed off				
Pumped 4% KCL	0.25	52	0.5	2986
Shut down and waited for pressure to bleed off				
Pumped 4% KCL	0.35	52.35	0.5	2926
Shut down and waited for pressure to bleed off				
Pumped 4% KCL	0.47	52.82	0.5	2983
Shut down and waited for pressure to bleed off				
Pumped 4% KCL	8.23	61.05	0.5	3250
Shut down stage 1, loaded balls for stage 2				
Opened bypass on packer				
Spotted 7 1/2% FE HCL	11.9	72.95	2	3517
Spotted 7 1/2% FE HCL with 100 buoyant balls	23.8	96.75	0.5	322
Closed bypass on packer				
Pumped 4% KCL	60	156.75	0.5	3468
<u>General details</u>		<u>Pressure</u>		
ISIP		2960 psi		
5 Min		0 psi		
Max Treating Pressure		3468 psi		
Max Acid Rate		0.6 bpm		
Avg Treating Pressure		3425 psi		
Load to Recover		77.9 bbls		
Note: See 6-7 Acid stim 1 second data tab for details				
RD and released acid equipment, RU swab equipment and swabbed well as follows:				
Swab runs - 8				

Water cut - 55%
Average rate - 264 bfpd
Average fluid level - 3600
Total fluid recovered - 48 bbls
Perf intervals open -6973'-6982'
See 6-7 Swab report for details.
Note: Rates are not accurate, only 7 bbls of the 80 bbls of the load water have been recovered.
Plan to continue swabbing / perforate 6873'-6898'

6/8/2012

Well flowed 20 bbls overnight. RU swab equipment and swabbed well as follows.

Swab runs - 14

Water cut - 10%

Average rate - 350 bfpd

Average fluid level - 3750

Total fluid recovered - 66 bbls

Perf intervals open -6973'-6982'

See 6-8 Swab report for details.

Opened bypass on packer, made 3 swab runs to recover oil from tubing. Reset plug at 6915', RU pump lines and pressure tested plug to 2500 psi. RD pump lines and pulled out of hole with tubing and packer. RU wireline unit and perforated well as follows:

Perf interval - 6873'-6898'

Owen Part # SDP-3125-411NT4

.37 entry hole

25 gram charges

42.90" penetration (35.6" thru 4 1/2" liner and 7" casing string)

4" EXP gun loaded 6 spf on 60° phasing.

RD and released wireline unit. Run in hole with tubing and packer, set packer at 6806' with end of tubing at 6843'. Pressure tested packer. SWIFN

Plan to swab perf interval 6873'-6898' for rate and clean up.

6/9/2012

Opened well, 60 psi tubing, 0 psi casing. RU swab equipment and swabbed well as follows:

Swab runs - 17

Water cut - 0-10%

Average rate - 440 bfpd

Average fluid level - 3750

Total fluid recovered - 101 bbls

Perf intervals open -6873'-6898'

See 6-9 Swab report for details.

RD swab equipment, moved plug to 6999', set packer at 6806' to swab all perf intervals. RU swab equipment and swabbed well as follows:

Swab runs - 17

Water cut - 0-10%

Average rate - 650 bfpd

Average fluid level - 3400

Total fluid recovered - 129 bbls

Perf intervals open -6873'-6898', 6926'-6947', 6973'-6982'

See 6-9a Swab report for details.

Opened well to frac tank for the night.

Plan to lay down excess 2-7/8" tubing and all of the 2-3/8" tubing to prepare for pump install on Monday.

6/10/2012 Well flowed 100 bbls of oil overnight. Opened bypass on packer, RU swab equipment and made 2 swab runs to recover oil from the tubing. RD swab equipment, released retrievable plug and pulled out of hole with tubing, packer and plug. SWIFN

Plan to install ESP

6/11/2012 Opened well, 0 psi. RU cable spoolers and run in hole with centralizer, Centinel, motor, seal, pump, xo, 2 3/8" sub, Y-tool, xo, 2 7/8" sub, 1 joint, cup type SN and 157 joints to surface. ND BOP's, NU wellhead. RD service unit and started well into production.

Plan to clean up location.

6/12/2012 08 Hour production, 052 bopd, 119 bwpd, 45 Hz, BHP 956

6/13/2012 24 Hour production, 439 bopd, 002 bwpd, 45 Hz, BHP 913

6/14/2012 24 Hour production, 401 bopd, 003 bwpd, 45 Hz, BHP 917

Supervisor: *Tony E. Cook*

Rig Operator: Robert Miller

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING	FORM 9 5. LEASE DESIGNATION AND SERIAL NUMBER: UTU-73528
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.	6. IF INDIAN, ALLOTTEE OR TRIBE NAME: 7. UNIT or CA AGREEMENT NAME: WOLVERINE
1. TYPE OF WELL Oil Well	8. WELL NAME and NUMBER: WOLVERINE FED 20-1
2. NAME OF OPERATOR: WOLVERINE GAS & OIL COMPANY OF UTAH, LLC	9. API NUMBER: 43041300320000
3. ADDRESS OF OPERATOR: One Riverfront Plaza 55 Campau NW, Grand Rapids, MI, 49503	PHONE NUMBER: 616 458-1150 Ext
4. LOCATION OF WELL FOOTAGES AT SURFACE: 0814 FSL 1933 FWL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: SESW Section: 17 Township: 23.0S Range: 01.0W Meridian: S	9. FIELD and POOL or WILDCAT: COVENANT COUNTY: SEVIER STATE: UTAH

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

TYPE OF SUBMISSION	TYPE OF ACTION		
<input checked="" type="checkbox"/> NOTICE OF INTENT Approximate date work will start: 4/25/2013 <input type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion: <input type="checkbox"/> SPUD REPORT Date of Spud: <input type="checkbox"/> DRILLING REPORT Report Date:	<input type="checkbox"/> ACIDIZE <input type="checkbox"/> CHANGE TO PREVIOUS PLANS <input type="checkbox"/> CHANGE WELL STATUS <input type="checkbox"/> DEEPEN <input type="checkbox"/> OPERATOR CHANGE <input type="checkbox"/> PRODUCTION START OR RESUME <input type="checkbox"/> REPERFORATE CURRENT FORMATION <input type="checkbox"/> TUBING REPAIR <input type="checkbox"/> WATER SHUTOFF <input type="checkbox"/> WILDCAT WELL DETERMINATION	<input type="checkbox"/> ALTER CASING <input type="checkbox"/> CHANGE TUBING <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS <input type="checkbox"/> FRACTURE TREAT <input type="checkbox"/> PLUG AND ABANDON <input type="checkbox"/> RECLAMATION OF WELL SITE <input type="checkbox"/> SIDETRACK TO REPAIR WELL <input type="checkbox"/> VENT OR FLARE <input type="checkbox"/> SI TA STATUS EXTENSION <input checked="" type="checkbox"/> OTHER	<input type="checkbox"/> CASING REPAIR <input type="checkbox"/> CHANGE WELL NAME <input type="checkbox"/> CONVERT WELL TYPE <input type="checkbox"/> NEW CONSTRUCTION <input type="checkbox"/> PLUG BACK <input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION <input type="checkbox"/> TEMPORARY ABANDON <input type="checkbox"/> WATER DISPOSAL <input type="checkbox"/> APD EXTENSION OTHER: <input type="text" value="workover"/>

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

Wolverine Gas and Oil Co. of Utah, LLC intends to workover the Wolverine Federal 20-1 in order to both enhance oil production and reduce excessive water production at the well. Based on a production log determination of oil and water contributions from existing perforations, the deepest Navajo perforations are expected to be isolated with a retainer and cement squeeze. Subsequently, additional uphole Navajo pay zones will be recompleted. All perforations will then be acid stimulated before an ESP is run and the well is returned to production. After work is completed, a report will be submitted that will summarize the actual work activities performed.

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

Date: February 19, 2013

By: *Derek Quist*

NAME (PLEASE PRINT) Helene Bardolph	PHONE NUMBER 616 458-1150	TITLE Engineering Administrative Assistant
SIGNATURE N/A	DATE 2/19/2013	

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

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

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

5. Lease Serial No.
UTU-73528

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

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

8. Well Name and No.
Wolverine Federal #20-1

9. API Well No.
43-041-30032-00-00

10. Field and Pool, or Exploratory Area
Exploratory

11. County or Parish, State
Sevier County, UT

SUBMIT IN TRIPLICATE - Other instructions on reverse side

1. Type of Well
 Oil Well Gas Well Other

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

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

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

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)
Surface: 814' FSL & 1,933' FWL, SE/SW, Sec 17, T23S, R1W
Bottom: 766' FNL & 475' FWL, NW/NW, Sec 20, T23S, R1W

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

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

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

Wolverine Gas and Oil Co. of Utah, LLC intends to workover the Wolverine Federal 20-1 in order to improve oil production at the well. After recompleting two uphole pays in the Upper Navajo (from 6684'-6711'), the top three sets of perforations (from 6684'-6744') will be acid stimulated. Three lower sets of perforations (from 6760'-6838') will be left untreated, due to already high fluid production and low oil cuts. Subsequently, an ESP will be re-run to return the well to production. After work is completed, a report will be submitted summarizing actual work activities performed.

RECEIVED

RECEIVED

MAR 05 2013

MAR 08 2013

Richfield BLM Field Office

DIV. OF OIL, GAS & MINING

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

Name (Printed/Typed) **Ron Meredith** Title **Senior Production Engineer**

Signature *[Signature]* Date **03-04-2013**

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved by *[Signature]* Title **SNRS** Date **3/6/2013**

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

Office **RFO**

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

(Instructions on reverse)

SUNDRY # 135LA00315

Wolverine Gas & Oil Company of Utah, LLC
Wolverine Federal 20-1
Covenant Field

Purpose: Cement Squeeze Lower Perfs, and Add Perfs at the Top of Lower Navajo Pay

PERTINENT INFORMATION

Location: 814' FSL, 1933' FWL (SE, SW)
 Section 17, Township 23 South, Range 1 West
 Sevier County, Utah

Elevation: 5839' GL, 5856' KB

TD: 7158'

PBTD: 6860' (TOC, on top of a cement retainer)

API No.: 43-041-30032

Casing: 13 $\frac{3}{8}$ ", 61.0# @ 2440', cemented to surface
 9 $\frac{5}{8}$ ", 47.0#, HCP-110, LT&C @ 6350', cemented w/ 230 sx 50:50 Poz (1.71 yld)
 7", 23.0#, HCP-110, LT&C @ 7157', cemented w/ 190 sx 50:50 Poz (1.23 yld)

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

Tubing: 212 jts of 2 $\frac{7}{8}$ ", 6.5#, L-80, EUE, 8rd

Prod. Csg Specs: 7", 23.0#, HCP-110, LT&C, 8rd, ID: 6.366" Drift: 6.241"
 Collapse: 5,650 psi, Burst: 6,976 psi (80% of 8720psi)

Tubing Specs: 2 $\frac{7}{8}$ ", 6.5#, N-80, EUE, 8rd, ID: 2.441", Drift: 2.347"
 Collapse: 11,160 psi, Burst: 8,456 psi (80% of 10,570 psi),
 Jt Tensile: 115,968 lbs (80% of 144,960 lbs)

Capacities:	7", 23.0#:	0.03936 bbls/ft	0.2210 ft ³ /ft
	2 $\frac{7}{8}$ ", 6.5#	0.00579 bbls/ft	0.0325 ft ³ /ft
	7" x 2 $\frac{7}{8}$ " Annulus	0.0313 Bbls/ft	0.1759 ft ³ /ft

BH Temperature: 189°F @ 6400' TVD

Existing Lower Navajo Perforations: (Note: All depths reference the 9/2/05 Halliburton SDL-DSN-GR log.)

6721' - 6744' MD (6285' - 6387' TVD), 23', 138 holes

6760' - 6782' MD (6323' - 6345' TVD), 22', 98 holes

6800' - 6816' MD (6362' - 6378' TVD), 16', 80 holes

6828' - 6838' MD (6390' - 6400' TVD), 10', 50 holes

Mid-Perfs = 6780' MD (6342' TVD), 71' of Perfs (115 Gross Interval) w/ 366 Holes

*Note: All existing Perforations appear to be in communication

Proposed Lower Navajo Re-Perf Interval:

6684' - 6690' MD (6248' - 6254' TVD), 6', 96 holes

6700' - 6711' MD (6264' - 6275' TVD), 11', 66 holes

(After Perforating) New Mid-Perfs = 6733' MD (6295' TVD), 62' of Perfs (98' Gross Interval) w/ 398 Holes

Wolverine Gas & Oil Company of Utah, LLC
Wolverine Federal 20-1
Covenant Field

PROCEDURE

1. MIRUSU. Disconnect flow lines, ND wellhead, and NU BOP.
2. TOH with production string.
3. Run 6½" bit and csg scraper to PBTD & circ. hole clean.
4. Perforate the Lower Navajo from 6700'-6711' (11') and from 6684'-6690' (6').
5. TIH and set a 7" RBP ±6,752' and set a 7" stimulation pkr. ±6,660'.
6. Acidize the top 3 sets of perforations (6684'-6744') w/ ±4000 gals acid.
7. Open well and swab back for cleanup. TOH w/ tbg, pkr and RBP.
8. Re-run production string.
9. ND BOP, install wellhead and start up ESP.
10. RDMOSU and put well on production.

Sundry Withdrawn & Returned

S.A.

Form 3160-5
(September 2001)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

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

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

5. Lease Serial No. UTU-73528
6. If Indian, Allottee or Tribe Name N/A
7. If Unit or CA/Agreement, Name and/or No. Wolverine Fed Exploration Unit
8. Well Name and No. Wolverine Federal #20-1
9. API Well No. 43-041-30032-00-00
10. Field and Pool, or Exploratory Area Exploratory
11. County or Parish, State Sevier County, UT

SUBMIT IN TRIPLICATE - Other instructions on reverse side

1. Type of Well <input checked="" type="checkbox"/> Oil Well <input type="checkbox"/> Gas Well <input type="checkbox"/> Other	
2. Name of Operator Wolverine Gas and Oil Company of Utah, LLC	
3a. Address 55 Campau NW, Grand Rapids, MI 49503	3b. Phone No. (include area code) (616) 458-1150
4. Location of Well (Footage, Sec., T., R., M., or Survey Description) Surface: 814' FSL & 1,933' FWL, SE/SW, Sec 17, T23S, R1W Bottom: 766' FNL & 475' FWL, NW/NW, Sec 20, T23S, R1W	

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

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

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

Wolverine Gas and Oil Co. of Utah, LLC intends to workover the Wolverine Federal 20-1 in order to both enhance oil production and reduce excessive water production at the well. Based on a production log determination of oil and water contributions from existing perforations, the deepest Navajo perforations are expected to be isolated with a retainer and cement squeeze. Subsequently, additional uphole Navajo pay zones will be recompleted. All perforations will then be acid stimulated before an ESP is run and the well is returned to production. After work is completed, a report will be submitted that will summarize the actual work activities performed.

RECEIVED

FEB 25 2013

Richfield BLM Field Office

14. I hereby certify that the foregoing is true and correct	
Name (Printed/Typed) Ron Meredith	Title Senior Production Engineer
Signature	Date 02/19/2013

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

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

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

(Instructions on reverse)

CONFIDENTIAL

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

RECEIVED
MAR 11 2013
BUREAU OF OIL OPERATIONS

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

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

SUBMIT IN TRIPLICATE - Other instructions on reverse side

1. Type of Well
 Oil Well Gas Well Other

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

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

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

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)
 Surface: 814' FSL & 1,933' FWL, SE/SW, Sec 17, T23S, R1W
 Bottom: 766' FNL & 475' FWL, NW/NW, Sec 20, T23S, R1W

5. Lease Serial No.
 UTU-73528

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

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

8. Well Name and No.
 Wolverine Federal #20-1

9. API Well No.
 43-041-30032-00-00

10. Field and Pool, or Exploratory Area
 Exploratory

11. County or Parish, State
 Sevier County, UT

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

TYPE OF SUBMISSION	TYPE OF ACTION			
<input checked="" type="checkbox"/> Notice of Intent	<input type="checkbox"/> Acidize	<input type="checkbox"/> Deepen	<input type="checkbox"/> Production (Start/Resume)	<input type="checkbox"/> Water Shut-Off
<input type="checkbox"/> Subsequent Report	<input type="checkbox"/> Alter Casing	<input type="checkbox"/> Fracture Treat	<input type="checkbox"/> Reclamation	<input type="checkbox"/> Well Integrity
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Casing Repair	<input type="checkbox"/> New Construction	<input type="checkbox"/> Recomplete	<input checked="" type="checkbox"/> Other <u>Work-over</u>
	<input type="checkbox"/> Change Plans	<input type="checkbox"/> Plug and Abandon	<input type="checkbox"/> Temporarily Abandon	
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13. Describe Proposed or Completed Operation (clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recomplete horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports shall be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompletion in a new interval, a Form 3160-4 shall be filed once testing has been completed. Final Abandonment Notices shall be filed only after all requirements, including reclamation, have been completed, and the operator has determined that the site is ready for final inspection.)

Wolverine Gas and Oil Co. of Utah, LLC intends to workover the Wolverine Federal 20-1 in order to improve oil production at the well. After recompleting two uphole pays in the Upper Navajo (from 6684'-6711'), the top three sets of perforations (from 6684'-6744') will be acid stimulated. Three lower sets of perforations (from 6760'-6838') will be left untreated, due to already high fluid production and low oil cuts. Subsequently, an ESP will be re-run to return the well to production. After work is completed, a report will be submitted summarizing actual work activities performed.

COPY SENT TO OPERATOR
 Date: 4-18-2013
 Initials: KS

COPY

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

Title Senior Production Engineer

Signature *[Signature]* Date 03-04-2013

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved by *[Signature]* Title Pet. Engineer Date 4/17/2013

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 DOG M

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 OPERATING COMPANY
of Utah, LLC

Energy Exploration in Partnership with the Environment

March 5, 2013

RECEIVED
MAR 11 2013
DIV. OF OIL, GAS & MINING

Mr. Stan Andersen
Fluid Minerals Group, BLM
Richfield Field Office
150 East 900 North
Richfield, UT 84701

Re: Wolverine Federal 20-1

Dear Mr. Andersen,

Enclosed are one original and two copies of the following sundry:
Wolverine Federal 20-1, Notice of Intent

On February 19, 2013, Wolverine submitted a different sundry for the subject well. Upon further consideration, the decision was made to revise our previous plans for this well. We are hereby submitting the enclosed sundry with our revised plans.

Ron Meredith (Wolverine Production Engineer) did send a copy of this sundry via email to Leslie Peterson earlier today (March 5, 2013).

If you have any questions or concerns regarding this sundry, please don't hesitate to contact me.

Sincerely,

Helene Bardolph
Engineering Administrative Assistant

Enclosures

cc: Mr. John Rogers, UDOGM

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		FORM 9
		5. LEASE DESIGNATION AND SERIAL NUMBER: UTU-73528
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.		6. IF INDIAN, ALLOTTEE OR TRIBE NAME:
		7. UNIT or CA AGREEMENT NAME: WOLVERINE
1. TYPE OF WELL Oil Well		8. WELL NAME and NUMBER: WOLVERINE FED 20-1
2. NAME OF OPERATOR: WOLVERINE GAS & OIL COMPANY OF UTAH, LLC		9. API NUMBER: 43041300320000
3. ADDRESS OF OPERATOR: One Riverfront Plaza 55 Campau NW, Grand Rapids, MI, 49503	PHONE NUMBER: 616 458-1150 Ext	9. FIELD and POOL or WILDCAT: COVENANT
4. LOCATION OF WELL FOOTAGES AT SURFACE: 0814 FSL 1933 FWL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: SESW Section: 17 Township: 23.0S Range: 01.0W Meridian: S		COUNTY: SEVIER
		STATE: UTAH

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

TYPE OF SUBMISSION	TYPE OF ACTION		
<input type="checkbox"/> NOTICE OF INTENT Approximate date work will start:	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> CASING REPAIR
<input checked="" type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion: 5/4/2013	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> CHANGE WELL NAME
<input type="checkbox"/> SPUD REPORT Date of Spud:	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> CONVERT WELL TYPE
<input type="checkbox"/> DRILLING REPORT Report Date:	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> NEW CONSTRUCTION
	<input type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> PLUG BACK
	<input type="checkbox"/> PRODUCTION START OR RESUME	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION
	<input type="checkbox"/> REPERFORATE CURRENT FORMATION	<input type="checkbox"/> SIDETRACK TO REPAIR WELL	<input type="checkbox"/> TEMPORARY ABANDON
	<input type="checkbox"/> TUBING REPAIR	<input type="checkbox"/> VENT OR FLARE	<input type="checkbox"/> WATER DISPOSAL
	<input type="checkbox"/> WATER SHUTOFF	<input type="checkbox"/> SI TA STATUS EXTENSION	<input type="checkbox"/> APD EXTENSION
	<input type="checkbox"/> WILDCAT WELL DETERMINATION	<input checked="" type="checkbox"/> OTHER	OTHER: <input type="text" value="Workover"/>

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

Wolverine completed a workover on the Wolverine Federal #20-1 on May 4, 2013. New Navajo perforations were added from 6700'-6711' (11') & 6684'-6690' (6') with 4", 6 spf, casing guns and a wireline unit. After perforating, a bridgeplug was set at 6752' and a packer was set at 6644'. The well's upper three sets of perforations (6684'-6690', 6700'-6711' and 6721'-6744') were then acidized with 2000 gals of 7½% HCl and two stages (totaling 850 gals) of Halliburton's Guidon diverter. Treating pressures ranged from approximately 1300-1500 psi.

After displacing acid and rigging down pumping equipment, the well was swabbed and the entire load volume was recovered. The well returned to production at 78 BOPD and 984 BWPD. See attached WBD and Daily Reports for additional details.

**Accepted by the
 Utah Division of
 Oil, Gas and Mining
 FOR RECORD ONLY
 May 09, 2013**

NAME (PLEASE PRINT) Helene Bardolph	PHONE NUMBER 616 458-1150	TITLE Engineering Administrative Assistant
SIGNATURE N/A	DATE 5/9/2013	



Covenant Field
Federal 20-1
API# 43-041-30032

BHL NW/NW, Sec 20 T23S, R1W
SHL SE/SW Sec 17, T23N, R1W
Sevier County, Utah

4/29/2013

MIRUSU, ND wellhead, NU BOP's

4/30/2013

Opened well, 0 psi tubing, 60 psi casing. RU vac truck to the casing, RU cable spoolers and pulled out of the hole with ESP equipment. PU and TIH with bit and casing scraper to PBTB, RU pump lines and reverse circulated with 280 bbls of completion fluid, RD pump lines and pulled out of hole laying down bit and casing scraper. RU wireline unit and perforated the well with 4" gun loaded 6 spf on 60° Phasing from 6700-6711' & 6684-6690'

RD and released wireline unit.

Note: Tagged PBTB with a solid tag at 6860'

5/1/2013

Opened well, 0 psi tubing, 0 psi casing. PU and TIH with plug and HD packer, set plug at 6752', set packer at 6644' with EOT at 6656'. RU Halliburton acid equipment and acidized perf intervals 6684-6690', 6700-6711' and 6721-6744' with 2000 gals 7 1/2% HCl and two stages of Halliburton's Guidon Diverter (totalling 850 gals).

Swab runs - 8

Total fluid recovered - 76 bbls

Perf intervals open -6684-6690, 6700-6711, 6721-6744

5/2/2013

Opened well, 0 psi tubing, 0 psi casing. RU swab equipment and swabbed well as follows:

Swab runs - 25

Total fluid recovered - 341 bbls

Perf intervals open -6684-6690, 6700-6711, 6721-6744

RD swab equipment, released packer and plug then rest the plug at 6858' and the packer at 6753' to swab the bottom 3 perf sets as follows:

Swab runs - 6

Total fluid recovered - 64 bbls

Perf intervals open -6760-6782', 6800-6816', 6828-6838'

RD swab equipment and SWIFN

5/3/2013

Opened well, 0 psi tubing, 0 psi casing. RU swab equipment and swabbed well as follows:

Swab runs - 20

Total fluid recovered - 212 bbls

Perf intervals open -6760-6782', 6800-6816', 6828-6838'

RD swab equipment, released packer and plug then pulled out of the hole with tubing.

5/4/2013

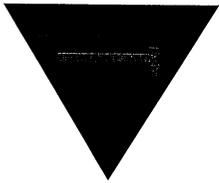
Opened well, 0 psi tubing, 0 psi casing. RU cable spooling equipment, PU and run in hole with Centralizer, Centinel, motor, seal, pump, 10' x 2-3/8" tubing sub, Y-tool, 2' x 2-3/8" tubing sub, 2 joints L-80 tubing, cup type SN and 205 joints of L-80 tubing to surface. Made final cable splice, ND BOP's, NU wellhead and turned well into production.

Note: Installed all new 316 stainless steel wellhead piping. The internally coated piping that was installed on the wellhead was bubbled and pulling away from the pipe.

Supervisor:

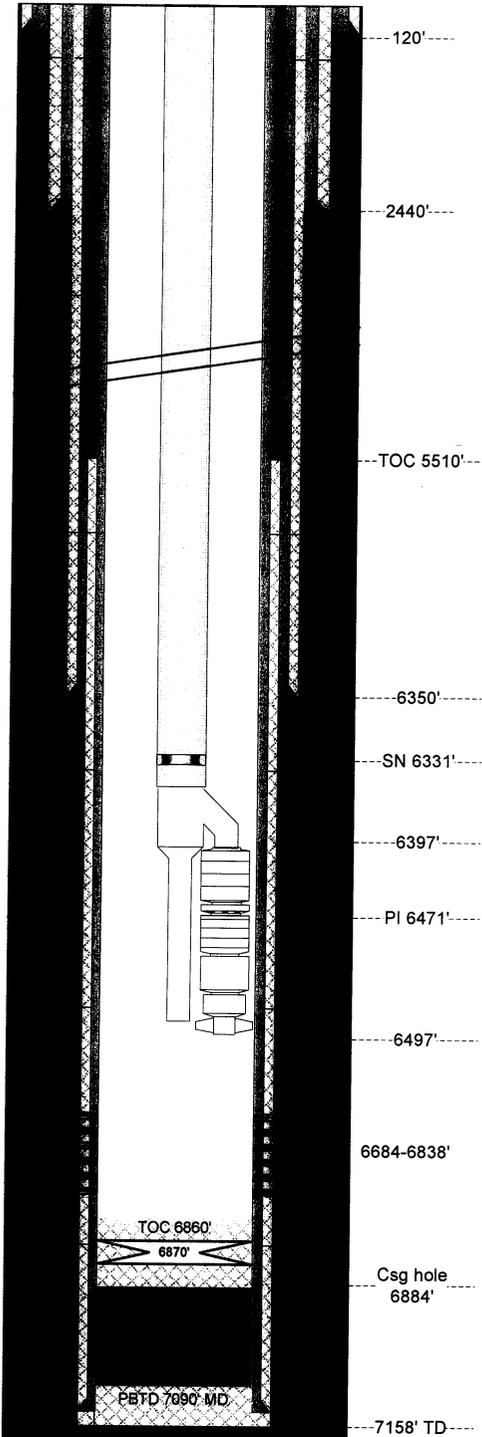
Tony E. Cook

Rig Operator:



**Wolverine Federal 20-1
API # 43-041-30032
Covenant Field
Section 17, T23S, R1W
Sevier County, Utah**

Ground Elevation: 5,839'
KB Elevation: 5,856'



Deviated Well

Surface: 814' FSL 1933' FWL, SE SW, 17-23S-1W
Top of Pay (6467' MD): 563' FNL, 681' FWL, NW NW, 20-23S-1W
Total Depth (7158' MD): 766' FNL, 475' FWL, NW NW, 20-23S-1W

Conductor Casing (08/05)

Size: 20", 0.25" wall
Depth Landed: 120'
Cement Data: Cemented to surface with 675 sks G

Surface Casing (8/16/05)

Size/Wt/Grade: 13 3/8", 61#, J-55, STC, 8rd
Depth Landed: 2440' MD
Cement Data: 655 sks CBM light (10.5 ppg, 4.12 cf/sk), 475 sks Type V (15.6 ppg, 1.18 cf/sk), Cemented to surface

Intermediate Casing (8/29/05)

Size/Wt/Grade: 9-5/8", 47#, HCP-110, LTC, 8rd
Depth Landed: 6350' MD
Cement Data: 230 sks 50:50 Poz, 13.0 ppg, 1.71 cf/sk

Production Casing (9/4/05)

Size/Wt/Grade: 7", 23#, HCP-110, LTC, 8rd
Properties: 8720 psi burst, 6.241" drift, 6.366" ID, 0.0393 Bbl/ft Capacity
Depth Landed: 7157' MD
Cement Data: 190 sks 50:50 Poz, 14.4 ppg, 1.23 cf/sk

Navajo Perforations

6684-6690' MD (6248-6254' TVD), 06', 036 holes (04/30/13)
6700-6711' MD (6264-6275' TVD), 11', 066 holes (04/30/13)
6721-6744' MD (6285-6307' TVD), 23', 138 holes (06/21/10)
6760-6782' MD (6323-6345' TVD), 22', 098 holes (12/10/05)
6800-6816' MD (6362-6378' TVD), 16', 080 holes (12/10/05)
6828-6838' MD (6390-6400' TVD), 10', 050 holes (12/10/05)

Mid-Perf = 6761' MD (6324" TVD), 88' M, 468 holes

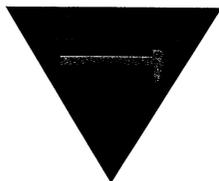
Note: No cement isolation between any perforation intervals.

Tubing (05/04/13)

SN 6331' MD, (5902' TVD)
Y-tool fish 6397' MD, (5966' TVD)
ESP Intake 6471' MD, (6039' TVD)
End of BHA 6497' MD, (6064' TVD)

PBTB

(04/30/13) Tagged solid at 6860' WLM
(06/17/10) Set CICR 6870' MD - TOC @ 6860'
(12/08/05) CBL pick-up @ 7090' MD
(03/22/06) Tubing tagged hard fill @ 7070' MD
(11/10/06) Tubing tagged fill @ 7076' MD-WLM



Wolverine Federal 20-1
API # 43-041-30032
Covenant Field
Section 17, T23S, R1W
Sevier County, Utah

Tubing Detail (05/04/13)

	17.00	KB
	-3.00	Landed above GL
	-8.00	Wireline correction
205	6325.17	Tubing - 2-7/8", 6.5#, L-80, EUE, 8rd
1	1.31	SN - 2-7/8", EUE, 8rd, 2.25" ID
2	62.08	Tubing - 2-7/8", 6.5#, L-80, EUE, 8rd
1	2.10	Tubing - 2-7/8", 6.5#, L-80, EUE, 8rd
1	0.80	X-over - 2-3/8" x 2-7/8", EUE, 8rd
1	2.53	Y-Tool, Weatherford 2-3/8" 1.31" OD (1.053" drift)
1	10.01	Sub - 2-3/8", 4.7#, N-80, EUE, 8rd
1	0.80	X-over - 2-3/8" x 2-7/8", EUE, 8rd
1	0.53	Discharge
1	11.55	Pump
1	23.50	Pump
1	23.50	Pump
1	0.88	Intake
1	6.10	Seal
1	17.00	Motor
1	1.08	Downhole pressure sensor, Centinel
1	.80	X-over 2 3/8" x 2 7/8"
1	1.33	Centralizer
	6497.07'	End of BHA (6064' TVD)

Note: No check or drain valve in this well.
 Blanking plug in Y-Tool has a 5/8" OD catch rod
 Tubing capacity = 0.00579 Bbl/ft, Burst = 10570 psi, Joint Yield = 144960 lbs

Directional Data:

<u>MD</u>	<u>TVD</u>	<u>Incl.</u>	<u>MD</u>	<u>TVD</u>	<u>Incl.</u>
500	500	1.2	3500	3336	28.4
750	750	3.5	4000	3786	25.9
1000	999	7.0	4500	4232	26.4
1500	1491	11.4	5000	4676	28.2
1750	1736	11.3	5500	5119	24.6
2000	1979	16.6	6000	5584	18.2
2250	2216	20.0	6500	6067	11.3
2500	2449	22.8	7000	6559	10.3
2750	2677	27.0	7178	6714	10.5
3000	2897	28.2			

Wellhead Information

- Tubing head flange is 7-1/16", 5M with a 2-7/8" EUE 8rd top connection

Stimulation

12/15/05 6760' - 6838' w/ 5000 gal 15% HCl. Attempted to isolate and treat individual zones. Communicated between all three perforation intervals. BDP - 4000 psi, ISIP - 3400 psi

06/19/10 6760' - 6816' w/ 3800 gal 15% HCl. No breakdown, ISIP - 2570 psi

05/01/13 6684' - 6744' w/ 2000 gal 7½% HCL with 2 gpt HAI-404M corrosion inhibitor, 5 gpt AS-5 anti-sludge, and 5 gpt Pen-88M penetrating agent. Diverting Agent was 850 gallons Guidon-AGS with 3 gpt Losurf-300D Max pump psi - 1500, ISIP - 1419

Notes

Surface Location: Latitude = 38.78729, Longitude = -111.93382
 (12/07/05) Cement top at 5514' on CBL-CCL-GR
 (11/02/06): Available Logs: HRI, SDL/DSN, MRIL, EMI, CBL