

WOLVERINE GAS AND OIL COMPANY OF UTAH, LLC

Energy Exploration in Partnership with the Environment



August 20, 2008

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

Re: Application for Permit to Drill - Wolverine Gas and Oil Company of Utah, LLC
Providence Federal 24-4
SW/4 SW/4, Section 24, T20S, R1E, SLB&M
Sanpete County, Utah

Dear Mr. Hunt:

Wolverine Gas and Oil Company of Utah, LLC (Wolverine) hereby submits a copy of an *Application for Permit to Drill (APD)* for the referenced well. Included with this APD is the following supplemental information:

- R649-3-2 Exception Plat showing proposed SHL and BHL;
- BLM Surface Use Plan of Operations;
- Survey Plat;
- Drilling Plan and BOPE Diagram;
- H2S Drilling Operations Plan;
- Location Layout, and Pad Cross-Section Drawings;
- Vicinity Map

The Mayfield Irrigation Company (User Number 63-3234) will be the source for water during drilling and completion operations on this proposed well. The surface at the planned drill site is administered by the Bureau of Land Management.

The proposed location is within 460' of a drilling unit boundary, so a request for exception to spacing (R649-3-2) is hereby requested for the well based on restrictive topography relative to and the need to drill at an optimum structural location. Wolverine is the only owner and operator within 460' of the proposed well location.

RECEIVED

AUG 25 2008

Wolverine Gas and Oil Company of Utah, LLC
1140 N Centennial Park Drive, Richfield, Utah 84701. Phone: 435-896-1943, Fax: 435-893-2134

DIV. OF OIL, GAS & MINING

Please accept this letter as Wolverine's written request for confidential treatment of all information contained in and relating to this application and proposed well.

Thank you for consideration of this application. Please feel free to contact me or Paul Spiering of this office if you have any questions or need additional information.

Sincerely,

A handwritten signature in cursive script that reads "Charlie Irons".

Charlie Irons
Senior Landman

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL OR REENTER

FORM APPROVED
OMB No. 1004-0137
Expires July 31, 2010

1a. Type of work: <input checked="" type="checkbox"/> DRILL <input type="checkbox"/> REENTER		7. If Unit or CA Agreement, Name and No. Wolverine Federal Unit
1b. Type of Well: <input checked="" type="checkbox"/> Oil Well <input type="checkbox"/> Gas Well <input type="checkbox"/> Other <input checked="" type="checkbox"/> Single Zone <input type="checkbox"/> Multiple Zone		8. Lease Name and Well No. Providence Federal 24-4
2. Name of Operator Wolverine Gas and Oil Company of Utah, LLC		9. API Well No. 43039-30040
3a. Address 1140 N Centennial Park Drive Richfield, Utah 84701	3b. Phone No. (include area code) 435-896-1943	10. Field and Pool, or Exploratory Unnamed, Navajo
4. Location of Well (Report location clearly and in accordance with any State requirements. *) At surface 975' FSL, 41' FWL, being in SW4SW4 At proposed prod. zone 975' FSL, 41' FWL, being in SW4SW4		11. Sec., T. R. M. or Blk. and Survey or Area Section 24, T20S, R1E, SLB&M
14. Distance in miles and direction from nearest town or post office* 5.25 miles Southwest of Mayfield, Utah		12. County or Parish Sanpete
15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any) 975 feet		17. Spacing Unit dedicated to this well 40 acres
18. Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft. 2,170 feet		20. BLM/BIA Bond No. on file BLM WY 3320
21. Elevations (Show whether DF, KDB, RT, GL, etc.) 5,490.75' GR		22. Approximate date work will start* 10/01/2008
		23. Estimated duration 120 days

24. Attachments

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

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

25. Signature 	Name (Printed/Typed) Paul Spiering	Date 08/20/2008
Title District Land Manager		
Approved by Signature 	Name (Printed/Typed) BRADLEY G. HILL	Date 09-09-08
Title Off	ENVIRONMENTAL MANAGER	

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

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

(Continued on page 2)

*(Instructions on page 2)

Surf
434292X
4322407Y
39,050137
- 111.759340

**Federal Approval of this
Action is Necessary**

**RECEIVED
AUG 27 2008**

DIV. OF OIL, GAS & MINING

Section 24, T.20 S., R.1 E., S.L.B. & M.

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

WELL LOCATION, LOCATED AS SHOWN IN THE S.W. 1/4
OF SECTION 24, T.20 S., R.1 E., S.L.B. & M.
SANPETE COUNTY, UTAH

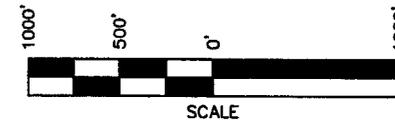
LEGEND

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

NOTE: THE PURPOSE OF THIS SURVEY WAS TO PLAT
THE PROVIDENCE FEDERAL #24-4 LOCATION
LOCATED IN THE S.W. 1/4 OF SECTION 24,
T.20 S., R.1 E., S.L.B. & M., SANPETE COUNTY, UTAH.

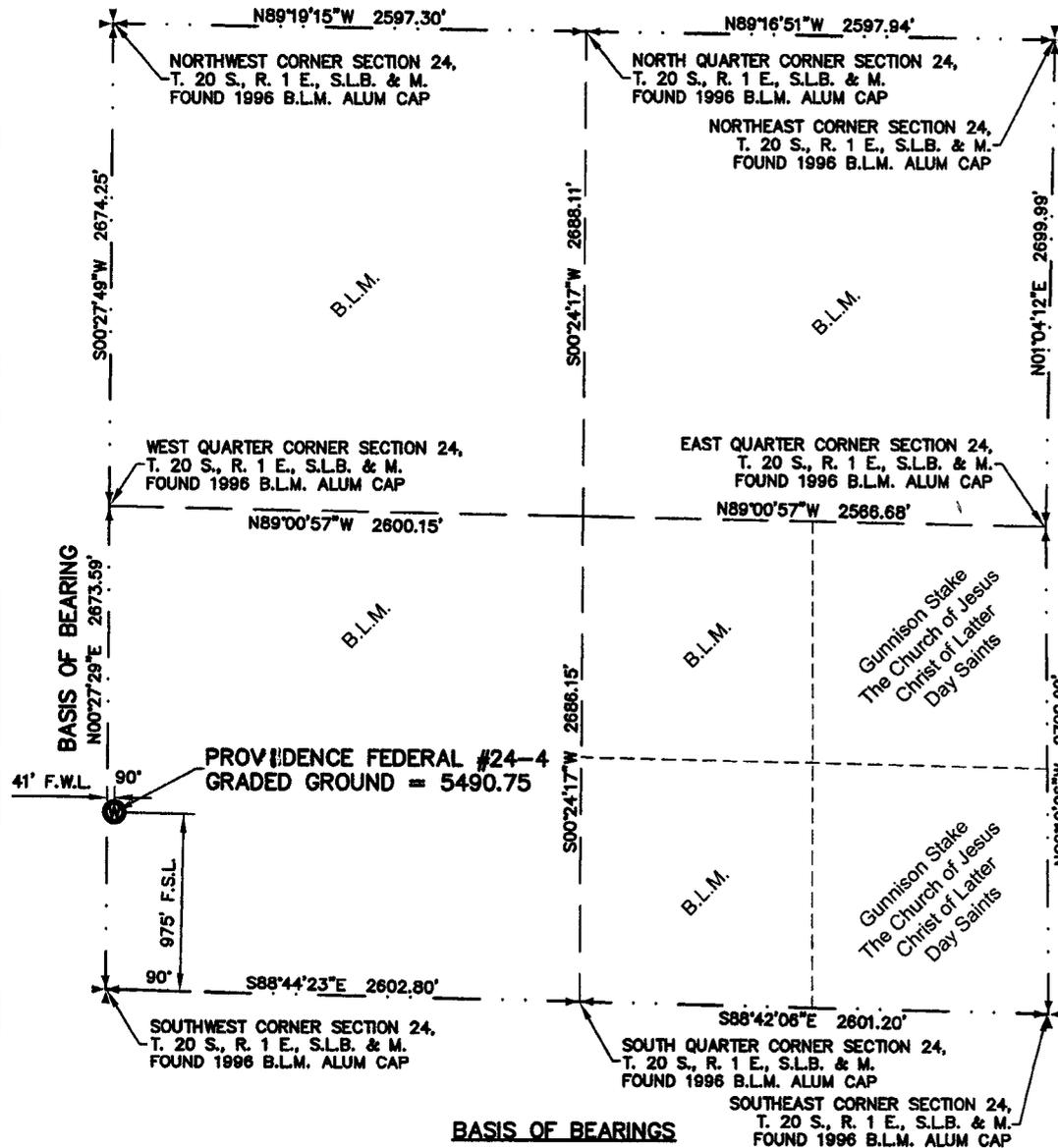
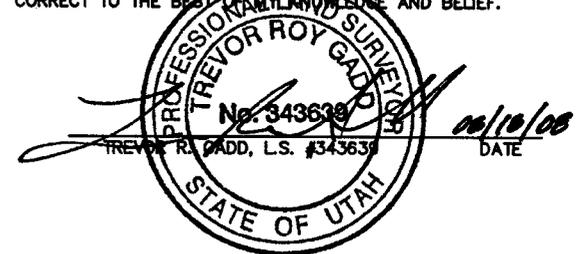
BASIS OF ELEVATION

ELEVATION BASED ON N.A.V.D. 88



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 N00°27'29"E BETWEEN THE SOUTHWEST CORNER
AND THE WEST QUARTER CORNER OF SECTION 24, T.20 S., R.1 E., S.L.B. & M.

WELL COORDINATES: LATITUDE = 39°03'01.21700" (39.050338056) NAD 83 - UTM ZONE 12N NAD27 N 14181182.322
LONGITUDE = -111°45'35.78160" (-111.759939333) NAD 83 - UTM ZONE 12N NAD27 E 1424884.325

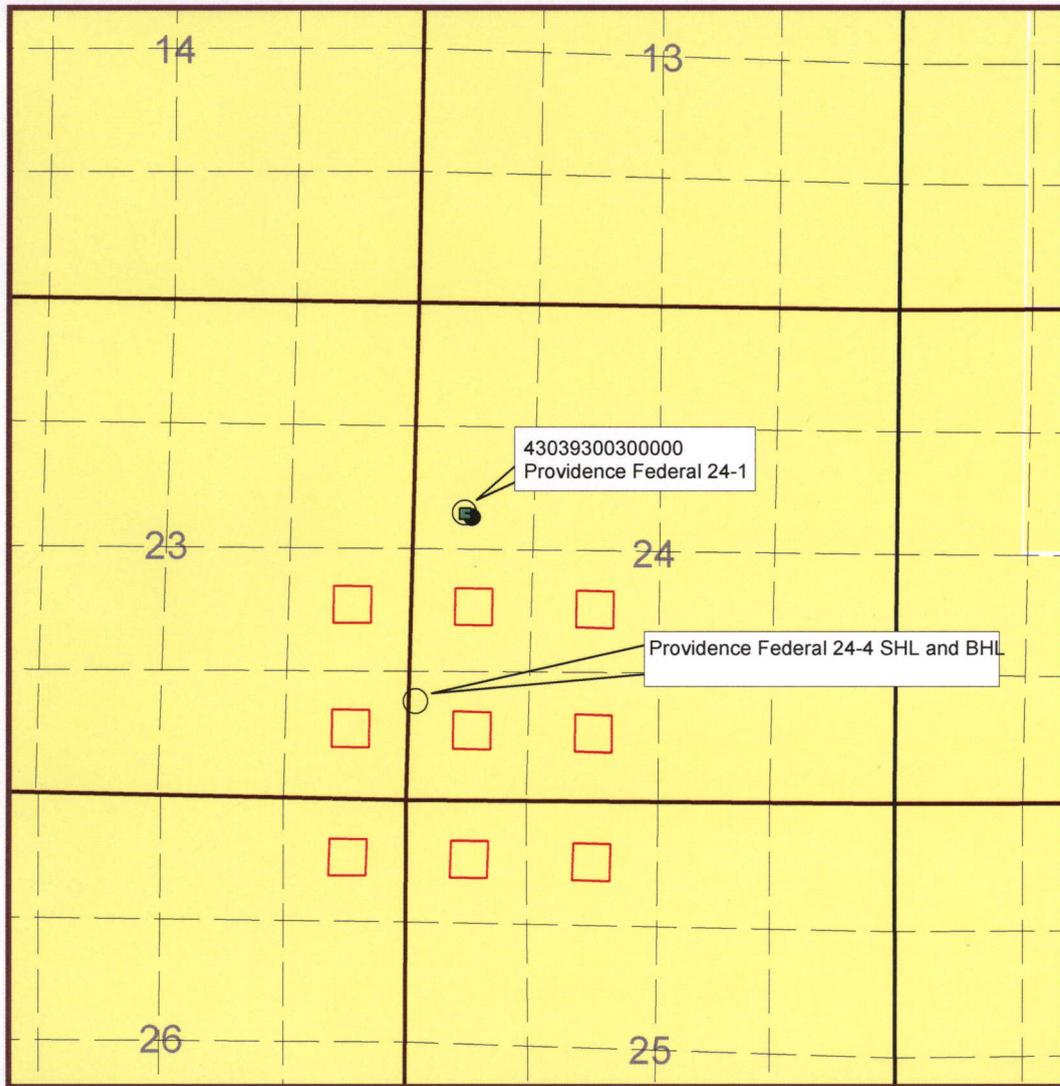


Jones & DeMille Engineering
1535 South 100 West - Richfield, Utah 84701
Phone (435) 896-8266
Fax (435) 896-8268
www.jonesanddemille.com

Well Location Plat for

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

DESIGNED	SURVEYED	CHECKED	DRAWN	PROJECT NO.	SHEET NO.
-	J.G.C.	T.R.G.	S.D.H.	0802-037	1
DATE	DWG. NAME		SCALE		
08/18/08	24-4_WELL-LOC		1"=1000'		

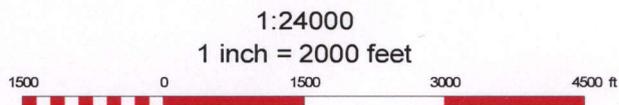


Providence Federal 24-4 Well Location

SHL/BHL: 41' FWL, 975' FSL, Sec. 24, T20S, R1E, Sanpete Co., UT

 Wolverine Lease

 400' x 400' R649-3-2 window



	<p>WOLVERINE GAS & OIL Company of Utah, LLC (Operator) <i>Energy Exploration in Partnership with the Environment</i></p> <p>ONE RIVERFRONT PLAZA 55 CAMPAU, N.W. GRAND RAPIDS, MI 49503-2616 (616) 488-1150</p>
<p>Exception Location and Ownership Plat (R649-3-2)</p>	
<p>Date: 8/18/2008</p>	<p>Author: Mark Lutz Filename: Document in: mjl Arapien Valley Well Development.gmp</p>

SURFACE USE PLAN OF OPERATIONS

For inclusion with Application for Permit to Drill

Name of Operator: Wolverine Gas and Oil Company of Utah, LLC
Address: 1140 N Centennial Park Drive
Richfield, Utah 84701

Well Location: **Providence Federal 24-4**
975' FSL & 41' FWL, Section 24, T20S, R1E, SLB&M
Sanpete County, Utah

Access Road Location: Existing lease road crosses private land in Section 19-T20S-R2E, Sections 24 & 25-T20S-R1E; new lease road crosses BLM land in Section 24 & a portion of Section 23 to well location in Section 24.

State surface use is not required for construction and drilling of the referenced well. BLM is the surface owner at the drill pad site. Federal surface use is being requested with the associated Application for Permit to Drill (APD) through the BLM – Richfield Field Office.

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

A Federal onsite inspection was conducted on Tuesday, August 5, 2008, with the following individuals present:

Tony Cook – Wolverine Production Supervisor
Charlie Irons – Wolverine Senior Landman
Darin Robinson – Jones & DeMille Engineering
Glen Nebeker – Western Land Services - NEPA Specialist
Stan Andersen – BLM Supervisory Natural Resource Specialist
Chris Horting-Jones – BLM Archaeologist
Rod Lee – BLM Environmental Coordinator
Brant Hallows – BLM Range Management Specialist
Wayne Wetzel – BLM Associate Field Office Manager
Larry Greenwood – BLM Wildlife Conservationist
Bert Hart – BLM Team Leader
Larry Denny – BLM Utah State Office
Al McKee – BLM Utah State Office

Existing Roads:

The vicinity map attached to the APD shows the proposed well pad location and its proximity to the town of Mayfield, Utah. From Mayfield, travel south on county road (Southfield Road) approximately 4 miles to the lease road, then follow lease road westerly about 2.7 miles to well location. Rig traffic will access the well from the south, as was done for drilling the Providence Federal 24-1. From Salina, travel north on US 89, under Utah Department of Transportation (UDOT) maintenance about 4 miles to Willow Creek Road (a gravel county road), follow easterly about 4 miles to Southfield Road (a gravel county road), thence northerly about 4 miles to the existing lease road. Follow existing lease road about 1.8 miles to the new lease road; follow new lease road about 1,000 feet to the well location.

All existing roads will be maintained and kept in good repair during all phases of operation. Vehicle operators will obey posted speed restrictions and observe safe speeds commensurate with road and weather conditions.

Access Roads to be Constructed and Reconstructed:

Proposed access will require the construction of a new road, approximately 1,000 feet in length, from a point near the NW corner of Section 25 on the existing 24-1 well access road to the proposed 24-4 location, as shown on the

vicinity map. Western Land Services has identified certain sensitive plant species in the vicinity of the new access road. These areas have been flagged and will be avoided. An upgrade to certain portions of the existing lease road is proposed on private land. No surfacing materials for any construction will come from Federal lands. Vehicular travel will be limited to the approved existing access road and the new lease road. A cattle guard will be installed on the new lease road at the private land and BLM fenced boundary. The operator will be responsible for all maintenance of the access road including drainage structures.

Location of Existing Wells within a one-mile radius :

Well	Type/status	Surface Location	Bottom Hole Location
Providence Fed 24-1	Undergoing completion & testing	SW4-NW4 Section 24	SW4-NW4 Section 24

Location of Planned Wells:

The operator has an approved permit for the proposed Providence Federal 24-2, to be drilled from the same drill pad as the previously drilled 24-1. It is uncertain at this time whether that drill pad will accommodate both the necessary testing facilities for the 24-1 and a drilling rig for the 24-2 at the same time. A decision will be forthcoming whether to terminate the 24-2 permit and re-apply for a new location, or to continue with the original plan.

Location of Existing and/or Proposed Facilities if Well is Productive:

(a) *On well pad*—A temporary testing facility is anticipated on this location for the completion and testing of the well. The facility will be surrounded by a dike of sufficient capacity to contain the storage capacity of the largest tank. All loading lines and valves will be located inside the dike surrounding the tank battery.

(b) *Off well pad*—Several options are being considered for a more permanent processing facility for production from what the operator hopes to be an oil and gas field. The location and design of such a facility is contingent on whether the proposed well and future wells are capable of producing oil, gas or both oil and gas. In the event the facility is to be located on BLM land the Operator will submit a facility plan under Sundry Notice for approval at such time as production requirements are known.

Location and Type of Water Supply (Rivers, Creeks, Lakes, Ponds and Wells):

The Operator has leased water rights from a shareholder of Mayfield Irrigation Company (Water Right #63-3234), under Order for Temporary Change of Water dated 10-3-2007, which was the supply for drilling the Providence Federal 24-1 well. Upon the expiration of the Order for Temporary Change (10-3-2008) a new application will be submitted that will extend the change an additional year. Water will be piped to the reserve pit from an irrigation riser in Section 19-T20S-R2E, under prior agreement with the landowner. Should additional water sources be necessary they will be properly permitted through the State of Utah – Division of Water Rights. The BLM will be notified of any changes in water supply.

Construction Materials:

In the event the existing well pad needs additional surface material, imported granular borrow from an approved source will be applied. No construction materials will be removed from federal lands.

Methods for Handling Waste Disposal:

The reserve pit will be used to contain waste mud and drill cuttings, which will be buried onsite. All borehole fluids and salts will be contained in the reserve pit. The pit will be lined with 12 mil thickness plastic nylon reinforced liner material. No trash, scrap pipe, etc. that could puncture the liner will be disposed of in the pit. A minimum 2-foot freeboard will be maintained in the pit at all times during the drilling and completion operations. After evaporation of fluids, back-fill of sub-soil and compaction to prevent settling will occur within 90 days of cessation of pit use. If necessary, any remaining fluids will be pumped out of the pit and transported off site to an approved disposal facility.

No chemicals subject to reporting under SARA Title III (hazardous materials) in an amount greater than 10,000 pounds will be used, produced, stored, transported, or disposed of in association with the drilling, testing, or completion of the well. Furthermore, no extremely hazardous substances, as defined in 40 CFR 355, in threshold planning quantities, will be used, produced, stored, transported, or disposed of in association with the drilling, testing, or completion of the well.

Wastewater will not be discharged on the surface at this site and the drilling of the well will not require a wastewater management plan.

Produced fluids from the well other than water will be stored in a test tank until such time as hookup to production facilities can be made. Any spills of oil, gas, salt water or other fluids will be cleaned up and removed.

All rubbish and debris will be kept in containers on the well site, and will be hauled to an approved disposal site upon completion of drilling operations and as needed during such operations. There will be no chemical disposal of any type.

Self-contained, portable toilets will be used for human waste, and the waste will be disposed at an approved human waste disposal facility. Sanitation will comply with local and state regulations.

Ancillary Facilities:

Ancillary facilities are described above under *Location of Existing and/or Proposed Facilities if Well is Productive*. Garbage containers and portable toilets are the only other ancillary facilities proposed in this application.

Well Site Layout:

The Location Layout Drawings attached to the APD show the proposed well surface location in relation to the existing pad layout, which includes location of the reserve pit and access road onto the pad, turnaround areas, parking areas, office facilities, soil material stockpiles, and the orientation of the rig with respect to the pad and other facilities. Pad Section Sheets in said attachment show cuts and fills required for construction, and their relationship to topography. As detailed above under *Methods for Handling Waste Disposal*, the reserve pit will be lined and appropriate measures will be taken to prevent leakage. The pit will be fenced on three sides during drilling operations, and the fourth side will be immediately fenced following drilling and completion of the well.

The pad design is consistent with BLM specifications.

All surface activities will be supervised by a qualified, responsible company representative who is aware of the terms and conditions of the APD and specifications in the approved plans.

All cut and fill slopes will be such that stability can be maintained for the life of the activity.

A diversion ditch will be constructed as shown around three sides of the well pad to prevent surface waters from entering the well site area.

The stockpiled topsoil (first 6 inches or maximum available) will be stored on the east end of the pad. All topsoil will be stockpiled for reclamation in such a way as to prevent soil loss and contamination. The topsoil berm and edges of the access road will be seeded in the first Fall after construction.

The flare pit will be located more than 150 feet from the well.

Plans for Reclamation of the Surface:

Interim Reclamation: In the event production is established the Operator will perform interim reclamation of the site. Interim reclamation will consist of reclamation of the reserve pit and reclamation of that portion of the well pad not needed for ongoing operations. After evaporation of fluids, the pit will be back-filled with sub-soil and/or rock and compacted to prevent settling. The pit area will be surfaced with granular borrow to render it a usable part of the well pad. All portions of the pad no longer necessary for well workover, testing or treating will be contoured to match the surrounding terrain to the best extent practical, and seeded as prescribed by the BLM.

Final Reclamation: At such time that all production ceases from the proposed well and other wells drilled from the same pad, and the wells have been plugged and abandoned, the Operator will perform final reclamation of the site. Final reclamation will consist of replacing spoil into the cut areas in a manner that will return the impacted area to its original contour and condition, to the greatest extent practicable, and blending same with undisturbed land to establish a natural-looking contour. All disturbed land will be seeded per BLM requirements.

During the life of the project and until the site is released from liability for reclamation, the project will be inspected at least annually for noxious weeds. If invasive noxious weeds are found, the weeds will be treated to eliminate further reproduction, and treatment shall continue until the weeds have been eradicated. If noxious weeds are found, the BLM will be notified of their occurrence.

Surface Ownership:

The surface of the well pad and northerly 1,000 feet of the access road are owned by BLM. Surface of the remainder of the access road is owned by Farmland Reserve, Inc., 50 East North Temple, 12th Floor, Salt Lake City, Utah 84150. The Operator has a Surface Damage and Access Agreement with said surface owner for the construction and use of said road.

Other Information:

Western Land Services has conducted a Class III archeological survey. The Survey Report will be submitted to the appropriate agencies as soon as it is completed.

Western Land Services is preparing a Categorical Exclusion for the Providence Federal 24-4, based on the EA for the 24-1 well. The applicable Categorical Exclusion reference in Section 390 of the Energy Policy Act of 2005 is exclusion number (b)(2) which is "Drilling an oil or gas well at a location or well pad site at which drilling has occurred previously within five (5) years prior to the date of spudding the well."

No stream alteration or drainage crossings are involved that require additional State or Federal approval.

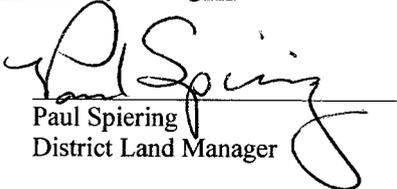
A paleontological clearance is not required since suitable formations do not exist within the project area.

All permanent structures constructed or installed will be painted non-reflective Carlsbad Cavern Tan, unless otherwise directed by the AO. All facilities will be painted within six months of installation. Facilities that are required to comply with Occupational Safety and Health Act (OSHA) shall be excluded.

Operator Certification

I hereby certify that I, or someone under my direct supervision, have inspected the drill site and access route proposed herein; that I am familiar with the conditions which currently exist; that I, or someone under my direct supervision, have full knowledge of state and Federal laws applicable to this operation; that the statements made in this APD package are, to the best of my knowledge, true and correct; and that the work associated with the operations proposed herein will be performed in conformity with this APD package and the terms and conditions under which it is approved. I also certify that I, or the company I represent, am responsible for the operations conducted under this application. These statements are subject to the provisions of 18 U.S.C. 1001 for the filing of false statements.

Executed this 20th day of August, 2008.

Signature: 
Paul Spiering

Position Title: District Land Manager

Address: Wolverine Gas and Oil Company of Utah, LLC Telephone: 435-896-1943
1140 N Centennial Park Drive
Richfield, Utah 84701

Field representative (same as above signatory)

Address: Paul Spiering Telephone: 435-896-1943
1140 N Centennial Park Drive
Richfield, Utah 84701

Agents not directly employed by the operator must submit a letter from the operator authorizing that agent to act or file this application on their behalf.

WOLVERINE GAS AND OIL COMPANY OF UTAH, LLC

DRILLING PLAN

Providence Federal 24-4 SW/4 SW/4 Section 24, Township 20 South, Range 1 East, S.L.B.&M. Sanpete County, Utah

Plan Summary:

It is planned to drill this confidential exploratory well as a vertical bore hole using deviation control equipment and in accordance with the enclosed directional drilling plan. The well will be drilled to a depth of 13,400' to test the Navajo 1, Kaibab and Navajo 2 formations. Well path deviation caused by subsurface geologic irregularities is expected to be the primary drilling concern in this area. No abnormal pressure is anticipated. The presence of Hydrogen Sulfide gas in concentrations greater than 100 PPM is anticipated in the Kaibab Formation and deeper, and an H2S contingency plan to be in effect before drilling below the Moenkopi at +/- 11,300' compliments this drilling plan.

The planned location is as follows:

Surface Hole Location: 975' FSL, 41' FWL, Section 24, T20S, R1E, S.L.B. & M.

Bottom Hole Location: 975' FSL, 41' FWL, Section 24, T20S, R1E, S.L.B. & M.

Conductor casing will be set at approximately 120 feet and cemented to surface. A 17-1/2" hole will be drilled to 2000' where 13-3/8" surface casing will be set and cemented to surface. A 12-1/4" hole will be drilled into the Twin Creek 1 to approximately 8700' where the well will be logged and 9-5/8" casing will be set and cemented. Then, an 8-1/2" hole will be drilled to 13,400'. The well will be logged and if significant porosity and hydrocarbon shows are encountered in the Kaibab or Navajo 2 formations, 5-1/2" production casing will be set and cemented at TD. If deeper formations do not appear productive, the lower portion of the hole will be abandoned as required by the BLM and 5-1/2" production casing will be set and cemented as necessary to production test the Navajo1 formation.

Drilling activities at this well are expected to commence as early as October 1, 2008 if regulatory approvals are attained.

Well Name: Providence Federal 24-4
Surface Location: 975' FSL, 41' FWL, SW/4 SW/4 Section 24, T20S, R01E, S.L.B. & M. Sanpete County, Utah
TD Bottom-Hole Location: 975' FSL, 41' FWL, SW/4 NW/4 Section 24, T20S, R01E, S.L.B. & M. Sanpete County, Utah
Elevations: 5491' (Est. Graded Elevation) 5517' (Est. KB)

I. Geology:

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

Formation	TVD Interval (KB)	MD Interval (KB)	Contents	Pressure Gradient
Arapien	26' - 8513'	26' - 8513'		
Twin Creek 1	8513' - 8817'	8513' - 8817'		
Navajo 1	8817' - 10244'	8817' - 10244'	O/G/W	0.44 psi/ft
Chinle	10244' - 10654'	10244' - 10654'		
Shinarump	10654' - 10708'	10654' - 10708'		
Moenkopi	10708' - 11299'	10708' - 11299'		
Shnabkaib	11299' - 11607'	11299' - 11607'		
Sinbad	11607' - 11863'	11607' - 11863'		
Black Dragon	11863' - 12017'	11863' - 12017'		
Kaibab	12017' - 12159'	12017' - 12159'	O/G/W	0.44 psi/ft
Thrust Fault	12159' - 12159'	12159' - 12159'		
Arapien	12159' - 12239'	12159' - 12239'		
Twin Creek 2	12239' - 12543'	12239' - 12543'		
Navajo 2	12543' - 13400'	12543' - 13400'	O/G/W	0.44 psi/ft
Total Depth	13,400'	13,400'		

II. Well Control:

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

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

Wellhead Equipment (5M Min.):

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

Auxiliary Equipment (5M minimum):

BOPE Item
Choke Line with 2 valves (3" minimum)
Kill Line with 2 valves and one check valve (2" minimum)
2 Chokes with one remotely controlled at a location readily accessible to the driller
Upper and lower kelly cock valves with handles
Safety Valves to fit all drill string connections in use
Inside BOP or float sub
Pressure gauge on choke manifold
Fill-up line above the uppermost preventer
Wear bushing in casing head

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

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

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

III. Casing and Cementing:

A. Casing Program (all new casing):

<u>Hole Size</u>	<u>Casing Size</u>	<u>Weight</u>	<u>Grade</u>	<u>Connection</u>	<u>Coupling Diameter</u>	<u>Setting Depth</u>
30"	24"		Conductor			0' - 120' GL
17.50"	13.375"	68.0	J-55	BTC	14.375"	0' - 2000' KB
12.25"	9.625"	53.5	HCL-80	LTC	10.625"	0' - 7000' KB
12.25"	9.625"	53.5	HCP-110	LTC	10.625"	7000' - 8700' KB
8.5"	5.500"	20.0	L-80	LTC & BTC	6.050"	0' - 13,580' KB

	<u>Surface</u>	<u>Intermediate</u>	<u>Production</u>
Casing O. D. (in)	13.375	9.625	5.500
Casing Grade	J-55	HCP-110 & L-80	L-80
Weight of Pipe (lbs/ft)	68.0	53.5	20.0
Connection	BTC	LTC	LTC & BTC
Top Setting Depth - MD (ft)	0	0	0
Top Setting Depth - TVD (ft)	0	0	0
Bottom Setting Depth - MD (ft)	2000	8700	13400
Bottom Setting Depth - TVD (ft)	2000	8700	13400
Maximum Mud Weight - Inside (ppg)	9.0	10.6	9.0
Maximum Mud Weight - Outside (ppg)	9.0	10.6	9.0
Design Cement Top - TVD (ft)	0	1500	5500
Design Cement Top - MD (ft)	0	1500	5500
Max. Hydrostatic Inside w/ Dry Outside (psi)	936	4795	6271
Casing Burst Rating (psi)	3450	10900	9190
Burst Safety Factor (1.10 Minimum)	3.69	2.27	1.47
Max. Hydrostatic Outside w/ Dry Inside (psi)	936	4795	6271
Collapse Rating	1950	10000	8830
Collapse Safety Factor (1.125 Minimum)	2.08	2.09	1.41
Casing Weight in Air 1000 lbs	136.0	465.5	268.0
Body Yield 1000 lbs	1069	1086	466
Joint Strength 1000 lbs	1140	893	503
Tension Safety Factor (1.70 Minimum)	7.86	1.92	1.74

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

B. Cementing Program

<u>Casing Size</u>	<u>Cement Slurry</u>	<u>Quantity (sks)</u>	<u>Density (ppg)</u>	<u>Yield (ft³/sk)</u>
13.375"	Lead: CBM Lite	375	10.5	4.12
	Tail: Premium Plus	450	15.6	1.19
9.625"	Lead: Extended cement	290	11.0	3.33
	Tail: 50:50 Poz:Premium	1470	14.4	1.28
5.500"	Stage 1: 50:50 Poz:Premium with Silica	430	12.5	1.87
	Stage 2: 50:50 Poz: Premium	710	14.4	1.28

Surface Casing: 13-3/8" surface casing will be cemented from setting depth (2000') to surface and topped out with premium cement if necessary. Hardware will include a guide shoe, float collar, top plug, and a minimum of one centralizer per joint on the bottom three (3) casing joints. Water or other preflush fluid pumped ahead of the slurry will separate cement from the drilling fluids.

Intermediate Casing: 9-5/8" intermediate casing will be cemented from setting depth (8700') to 1500' (into the 13-3/8" casing shoe at 2000'). Slurry volume will be based on calipered hole size plus a minimum of 25% excess. Hardware will include a guide shoe, float collar, top plug, and centralizers on bottom and as needed across any pay zones. The cement will be an extended (light) lead to cover from 1500' to 4000' and a 50:50 poz:premium cement tail to cover from 4000' to 8700'. Water and preflush fluid pumped ahead of the slurry will separate cement from the drilling fluids.

Production Casing: 5-1/2" production casing will be run and cemented in two stages from a setting depth of 13,400' to 5500' using a stage tool located at a depth of 9300'. A minimum of 20 percent silica will be added to the cement slurry if bottom-hole temperature exceeds 230 °F. Slurry volumes will be based on calipered hole size plus 20% excess. Hardware will include a guide shoe, float collar, top plug, stage tool, opening plug, closing plug, and centralizers as needed across pay zones. The first stage cement will be 50:50 poz:premium with silica to cover from 13,400' to 10,500', and the second stage cement will be 50:50 poz:premium cement to cover from 5500' to 9300'. Water and preflush fluid pumped ahead of the slurry will separate cement from the drilling fluids.

Other: - The BLM will be notified at least twenty-four hours prior to running and cementing the surface, intermediate, and production casing strings.

Actual cement slurries for all casing will be based on final service company recommendations.

The size, weight, grade, type of thread, number of joints, and footage of all casing run will be recorded in the driller's log. The amount and type of all cement pumped will be recorded in the driller's log.

Adequate time will be allowed before drilling out for the cement at the casing shoe to achieve a minimum 500-psi compressive strength.

All casing strings will be tested to 1500 psi before drilling out and if pressure declines by more than 10 percent in 30 minutes, corrective action will be taken.

Before drilling more than 20 feet of new hole below each casing string, a pressure integrity test of the casing shoe will be performed to a minimum of the mud weight equivalent anticipated to control the pore pressure to the next casing depth or at total depth of the well.

IV. Mud Program:

<u>Depth</u>	<u>Mud Weight (ppg)</u>	<u>Mud Type</u>	<u>Viscosity</u>	<u>Fluid Loss</u>
0 – 2000'	8.4 – 9.4	Fresh Water	26 - 40	N/C to 20 cc
2000' – 8700'	10.0 - 10.5	Salt Mud	32 - 50	N/C to 10 cc
8700' – 13400'	8.6 – 9.1	LSND Polymer	35 - 45	8 – 10 cc

- A. After mudding up, slow pump rates will be taken daily and recorded in the driller's log.
- B. Visual mud monitoring equipment will be in place to detect volume changes indicating loss or gain of circulating fluid volume.
- C. Abnormal pressures are not anticipated. In the event such pressures are to be anticipated, electronic/mechanical mud monitoring equipment will be in place and include as a minimum; pit volume totalizer (PVT); stroke counter; and flow sensor.
- D. A mud test will be performed every 24 hours after mudding up to determine, as applicable: density, viscosity, gel strength, filtrate, and pH.
- E. The 10M BOPE system is not required for conditions on this well and use of the trip tank is not anticipated.
- F. Gas detecting equipment will be installed in the mud return system, and hydrocarbon gas shall be monitored for pore pressure changes. The presence of Hydrogen Sulfide gas may be encountered and an H2S contingency plan is included herewith.
- G. The need to vent combustible or noncombustible gas is not expected. If needed, a flare system designed to gather and burn all gas will be available. The flare line discharge will be located more than 100 feet from the well head and it will be positioned downwind of the prevailing wind direction. The flare line will have straight lines unless turns are targeted with running tees and it will be anchored. The flare system will have an effective method for ignition.
- H. Abnormal pressure is not expected. If abnormal pressure is to be anticipated, a mud-gas separator (gas buster) will be installed and operable beginning at a point at least 500 feet above any anticipated hydrocarbon zone of interest.

V. Evaluation:

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

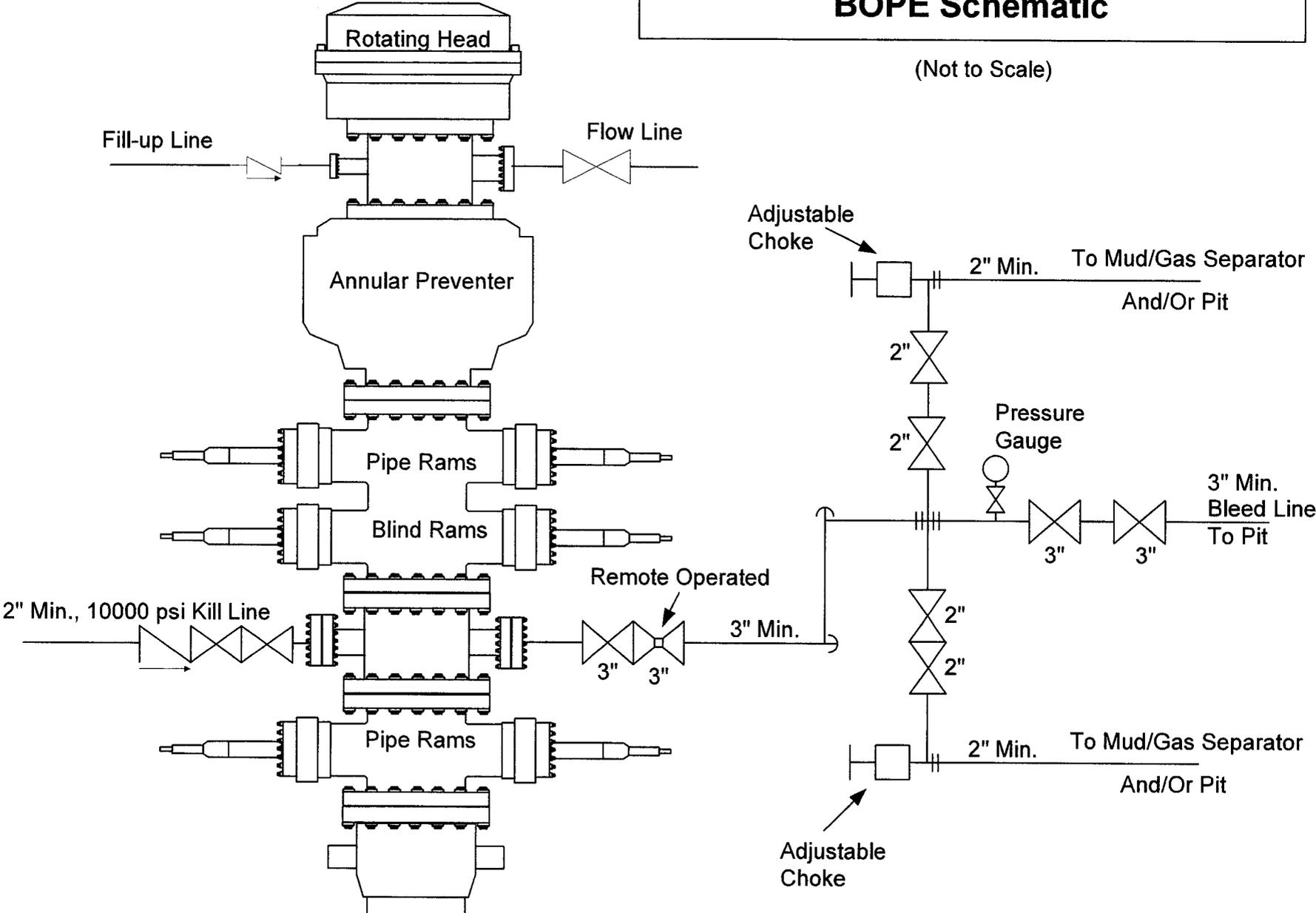
VI. Expected Bottom-Hole Pressure and Abnormal Conditions:

- A. Hydrogen Sulfide: Hydrogen Sulfide (H₂S) gas may exist in concentrations over 100 ppm in the deeper geologic formations to be penetrated by this well, and the H2S contingency plan will be in effect at 11,000'
- B. Pressure: No abnormally pressured zones are expected in this well. The pressure gradient for all potentially productive formations is expected to be approximately 0.44 psi/ft.
- C. Temperature: No abnormally high temperatures are expected. Bottom-hole temperature is expected to be approximately 270 °F.

end

Providence Federal 24-4 BOPE Schematic

(Not to Scale)



H2S Drilling Operations Plan

Wolverine Gas and Oil Company of Utah, LLC

Providence Federal 24-4

**Section 24
Township 20S - Range 01E
Sanpete Co, Utah**

GL Elevation: 5491 feet

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

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Introduction

The following is a H₂S contingency plan for the Providence Federal 24-4 (PF 24-4) well. It is designed for personnel working on this project to follow in case of an accidental release of hydrogen sulfide during drilling or completion operations. For the plan to be effective, all personnel must review and be familiar with onsite duties as well as the safety equipment involved.

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

Directions

Driving directions to location:

From the town of Mayfield in Sanpete County, go approximately 4 miles south on county road, turn right and go southwesterly for 1.7 miles on lease road to location, and then turn right and go north 0.2 miles to drill site.

I. Duties & Responsibilities

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

1. Wolverine supervisor on location - if unable to perform his/ her duties;
2. Alternate Wolverine representative - if unable to perform his/ her duties;
3. Rig Supervisor/Toolpusher - if unable to perform his/her duties;
4. Safety consultant representative - if available.

A. All Personnel

1. Always be alert for possible H2S alarms - both audible and visual.
2. Be familiar with location of Safe Briefing Areas (SBA) and protective breathing equipment.
3. Develop "wind awareness". Be aware of prevailing wind direction as well as nearby uphill areas should there be no wind.
4. Familiarize yourself with nearest escape routes for safe evacuation.
5. Should H2S alarm sound, DON'T PANIC - remain calm and follow instructions of person in charge.
6. If the H2S alarms sound:
 - a. Essential personnel shall don the appropriate respiratory protective equipment and follow safety procedures. They will continue to wear respiratory protective equipment until the area is deemed safe (H2S concentration less than 10 PPM).
 - b. Non-essential personnel shall evacuate to the appropriate safe briefing area using escape-breathing systems. They are to wait there for further instructions from the Wolverine foreman or the designated person in charge.
 - c. Initiate rescue protocol if necessary and following training procedures.

B. Wellsite Supervisor

1. The Wellsite Supervisor will confirm that all personnel on location at any time are trained in H2S safety and aware of above list of duties.
2. The Wellsite Supervisor will ensure that all personnel observe all safety and emergency procedures.
3. The Wellsite Supervisor will make an effort to keep the number of personnel on location to a minimum and to ensure that only essential personnel are on location during critical operations.
4. Should an extreme danger condition exist, the Wellsite Supervisor will:
 - a. Assess the situation and advise all personnel by appropriate means of communication.
 - b. Be responsible for determining that the extreme danger condition is warranted and have the red flag posted at location entrance.
 - c. Go to safe briefing area. Give clear instructions relative to hazard on location and actions for personnel to follow.
 - d. Notify company and regulatory groups of current situation as required per company policy and regulatory protocol. Follow appropriate procedures for emergency services notification.
 - e. Proceed to well and supervise operations with rig supervisor. Take action to control and reduce the H2S hazard.
 - f. Ensure that essential personnel are properly protected with supplied air breathing equipment and that non-essential personnel are in a "poison gas free" area.
 - g. Authorize evacuation of any persons/residents in area surrounding the well location.
 - h. Commence any ignition procedures if ignition criteria are met.

C. Rig Supervisor/Toolpusher

1. If the Wellsite Supervisor is unable to perform his/her duties and an alternate Wolverine representative is also unable or unavailable to perform his/her duties, the rig supervisor will assume command of wellsite operations and all responsibilities listed above for Wellsite Supervisor.
2. The Rig Supervisor will ensure that all rig personnel are properly trained to work in H₂S environment, fully understand the purpose of H₂S alarms, and know actions to take when alarms activate. He/She will ensure that all crew personnel understand the buddy system, safe briefing areas, and individual duties as well as emergency evacuation procedures.
3. Should any extreme danger operational condition arise, the Rig Supervisor shall assist the Wellsite Supervisor by:
 - a. Proceeding to the rig floor and assist in supervising rig operations.
 - b. Ensuring that only essential working personnel remain in hazardous areas.
 - c. Ensuring that all crewmembers that remain in hazardous area, wear respiratory protective equipment until notified that area is "clear" of any toxic gases.
 - d. Assigning rig crewmember or other service representative to block entrance to location. No unauthorized personnel are to be allowed entry to location.
 - e. Helping to determine hazardous "danger zones" on location using portable detection equipment, and positioning electric fans to move gas in any high concentration areas.

D. Safety Consultant

1. During normal operations (no H2S present), the safety consultant will be responsible for the following:
 - a. Ensuring that all wellsite safety equipment is in place and operational.
 - b. Ensuring that all wellsite personnel are familiar with location safety layout and operation of all safety equipment.
 - c. Assisting the Wellsite Supervisor in performing weekly H2S drills for location personnel.
2. When an operational condition is classified as extreme danger, the safety consultant will be responsible for the following:
 - a. Accounting for all wellsite personnel.
 - b. Assessing any injuries and directing first aid measures.
 - c. Ensuring that all safety and monitoring equipment are functioning properly and available.
 - d. Monitoring the safety of wellsite personnel.
 - e. Maintaining close communication with the Wellsite Supervisor.
 - f. Being prepared to assist Wellsite Supervisor with support for rig crew or other personnel using breathing equipment.
 - g. Being prepared to assist the Wellsite Supervisor with emergency procedures including possible well ignition.
 - h. Being prepared to assist with evacuation of any area residents or other personnel in the immediate area.

E. Drilling Manager

1. The Wolverine Drilling Manager will be responsible for notifying and maintaining contact with the company Production Manager and/or other company supervisory personnel as required.
2. Maintaining communication with the Wellsite Supervisor and providing any other assistance that might be required.
3. Travelling to wellsite if appropriate
4. Assisting Wellsite Supervisor with all other notifications – including both company and regulatory.

II. Well Location Layout

A. Location

1. An attached well site diagram depicts location and rig orientation, prevailing wind direction, terrain of surrounding area, location of briefing areas, access roads (including secondary egress), location of flare lines and pits, location of caution/danger signs, and location of wind indicators.
2. If practical, the drilling rig will be situated to allow for the prevailing winds to blow across the rig toward the circulation tanks or at right angles to the lines from the BOP stack to the circulation tanks or as near this configuration as possible.
3. If practical, there will be 2 roads from location with one at each end of location or as dictated by prevailing winds and terrain. If an alternate road is not practical, a clearly marked footpath to a safe area will be provided. The auxiliary escape route will be kept available and passable at all times so that a shift in wind direction will not prevent escape from the location if an emergency should occur.
4. The entrance(s) to the location will be designed to be barricaded if necessary because of a hydrogen sulfide emergency condition.
5. A minimum of 2 safe briefing areas (SBA) will be designated for assembly of personnel during emergency conditions. These will be located at least 150 feet from the wellbore and in such a location that at least one area will be upwind of the well at all times. Upon recognition of an emergency situation, all personnel will be trained to assemble at the designated briefing area for instructions.
6. Smoking areas will be established and smoking will be allowed only at those established smoking areas.
7. Reliable 24-hour telephone communications will be available at the wellsite supervisor's office.
8. The drilling rig will have a continuous electronic H₂S detection system that will be located to detect the presence of hydrogen sulfide in areas where it is most likely to appear on site. The sensor head locations will be: 1) rig floor by driller's console, 2) substructure area near the bell nipple, 3) the shale shaker, 4) the mud mixing area. Additional sensors will be positioned at the discretion of the drilling foreman. At least 1 light and 1 siren will be placed on the rig to indicate the presence of hydrogen sulfide. The light and siren will be strategically placed to be visible to all personnel on the drill site.
9. Equipment to indicate wind direction will be installed at prominent locations and will be visible at all times during drilling operations. At least 2 wind direction indicators (i.e. windsocks) will be placed at separate elevations (i.e. near ground level and rig floor height). At least 1 wind direction indicator will be clearly visible from all principal working areas at all times so that wind direction can be easily determined. In addition, a wind direction indicator will be provided at each of the two briefing areas if the other wind direction indicators on location are not visible from the briefing areas.

10. Operational danger or caution sign(s) will be displayed along all controlled accesses to the site. The sign(s) will legible and large enough to be read by all persons entering the wellsite and be placed a minimum of 200 feet but not more than 500 feet from the wellsite and at a location which allows vehicles to turn around at a safe distance prior to reaching the site.
11. Protective safety equipment will be available for all essential personnel. There will be five 30-minute SCBA and five air line breathing units with emergency escape cylinders located at the drilling floor or dog house, one SCBA and air line unit will be located in the derrick (for derrick man), one 30-minute SCBA per person will be located by the quarters of all personnel on location, and 30-minute SCBA and escape units will be distributed as needed near the shaker, mud tanks, and any other area where escape from an H₂S contaminated area could be difficult. A safety trailer containing the compressed breathing air will be located near the well site and air lines will be run from the safety trailer to where the air line breathing units are located.

III. Safety Procedures

A. Training

When this plan is in effect, all personnel who come onto the location must be properly trained in hydrogen sulfide, nitrogen, and oxygen deficient atmospheres safety. The personnel shall carry documentation with them indicating that the training has occurred within the previous 12 months. All training will comply with federal and state regulatory guidelines. There will be a training session that reviews this site specific H₂S plan and the H₂S PPP (if applicable) for all personnel in each work crew on location. Training will also include weekly H₂S and well control drills. All training sessions and drills are to be recorded in the driller's log, as well as in the safety trailer logbook.

Training topics shall include at a minimum:

1. Hazards and characteristics of hydrogen sulfide, nitrogen, and oxygen deficient atmospheres and symptoms of exposure to these gases.
2. Proper use, care and limitations of respiratory protective equipment with hands-on practice.
3. Use of both fixed and portable toxic gas detection equipment.
4. Work practices to reduce chances for toxic gas exposure and procedures for confined space.
5. First aid for toxic gas exposure and resuscitation equipment.
6. The buddy system.
7. Emergency evacuation procedures.
8. A review of the contingency plan for the well.

B. Operating Conditions

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

Green Flag - Potential Danger

Yellow Flag - Moderate Danger

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

A red warning flag will be displayed when H₂S is detected in excess of 10 ppm at any detection point.

The operational danger or caution signs located near the entrance to the location will be painted a high visibility red, black and white, or yellow with black lettering. They will be legible and large enough to be read by all persons entering the wellsite and will read "DANGER – POISON GAS – HYDROGEN SULFIDE" and in small lettering "Do not approach if Red Flag is Flying".

All sign(s) and, when appropriate, flag(s) will be visible to all personnel approaching the location under normal lighting and weather conditions.

Location access will be monitored and controlled during "non-routine" operations such as perforating, pressurized pumping, and well testing of potential H₂S bearing formations. The number of personnel on location will be restricted to "essential" personnel only

C. Warning System Response and Evacuation Plan

When H₂S is detected in excess of 10 ppm at any detection point indicating that an extreme danger condition exists, all non-essential personnel will be moved to a safe area and essential personnel (i.e., those necessary to maintain control of the well) shall don a pressure-demand type protective breathing apparatus. Once accomplished, operations may proceed.

There are no permanent residents or areas frequented by the public within a 1-mile radius of the drill site. The prevailing wind is from the southwest.

If an H₂S emergency situation arises, the Wellsite Supervisor will contact local authorities to authorize and work in coordination with them to evacuate and restrict non-essential personnel from areas near the wellsite where H₂S concentration levels could potentially exceed 10 ppm. All associated regulatory agencies will then be notified as soon as possible.

D. Emergency Rescue Procedures

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

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

IV. H2S Safety Equipment on Well Location Procedures

<u>Item</u>	<u>Amount</u>	<u>Description</u>
1.	1	Safety trailer with a cascade system of 10-300 cu. ft bottles of compressed breathing air complete with high-pressure regulators.
2.	At least 1000 ft.	Low-pressure airline equipped with Hanson locking fittings. This airline will be rigged up with manifolds to supply breathing air to the rig floor, substructure, derrick, shale shaker area, and mud mixing areas. Three high-pressure refill hoses will be attached to cascade systems for cylinder refill.
3.	Twelve (12)	Scott 30-minute self-contained breathing apparatuses (SCBA).
4.	Twelve (12)	Scott airline units with emergency escape cylinders.
5.	One (1)	4-channel continuous electronic H2S monitors with audible and visual alarms. The set points for these alarms are 10 ppm for the low alarm and 15 ppm for the high alarm.
6.	Two (2)	Sensidyne portable hand operated pump type detection units with tubes for hydrogen sulfide and sulfur dioxide.
7.	One (1)	Oxygen resuscitator with spare oxygen cylinder.
8.	One (1)	Trauma first aid kit.
9.	One (1)	Stokes stretcher and one (1) KED
10.	Four (4)	Windssocks.
11.	At least one (1)	Well condition sign with 3 flag system.
12.	Two (2)	Safe Briefing Area (SBA) signs.
13.	One (1)	Fire blanket.
14.	One (1)	Set air splints.
15.	Two (2)	Electric explosion proof fans.
16.	One (1)	Bullhorn and chalk board.
17.	Three (3)	300 cu. ft. air bottles for the safe briefing area.
18.	Two (2)	30# fire extinguishers.
19.	Six (6)	Battery powered voice microphones for communication when wearing air masks.
20.	One (1)	Battery powered combustible gas meter.

V. Operating Procedures and Equipment

1. If zones containing in excess of 100 ppm of H₂S gas are encountered while drilling with air, gas, mist, other non-mud circulating mediums for aerated mud, the well will be killed with a water-based mud and mud will be used thereafter as the circulating medium for continued drilling.
2. A flare system will be designed and installed to safely gather and burn H₂S-bearing gas and it will be equipped with a suitable and safe means of ignition. If noncombustible gas is to be flared, the system will have a supplemental fuel to maintain ignition.
3. Flare lines will be located as far from the operating site as feasible and in a manner to compensate for wind changes. The flare line(s) mouth(s) will be located not less than 150 feet from the wellbore. Flare lines will be straight unless targeted with running tees.
4. If SO₂ is to be released as a result of flaring of H₂S, portable SO₂ detection equipment will be available for checking the SO₂ level in the flare impact area. If the flare impact area reaches a sustained ambient threshold level of 2 ppm or greater of SO₂ in air and includes any occupied residence, school, church, park, or place of business, or other area where the public could reasonably be expected to frequent, the PPP will be implemented.
5. The choke manifold included as a component of the well control system will have at least one remote controlled choke with controls readily accessible to the drilling or other authorized personnel.
6. A rotating head will be installed and operable.
7. A mud-gas separator will be rigged up and manifolded to the choke and flare system.
8. The drilling mud will be a water-based system maintained with a pH of 10 or greater. Corrosion inhibitor additives will be in the mud. Sufficient scavenger chemicals will be available on location and will be used to scavenge or neutralize any H₂S in the drilling fluid. Mud weight will be maintained as needed to control pressure in any formations encountered.
9. All equipment that has potential for exposure to H₂S will be suitable for H₂S service. The casing head and spools, blowout preventer assembly, rotating head, kill lines, choke, choke manifold and lines, valves, mud-gas separator and other related equipment will have metallurgical standards conforming to NACE MR0175/ISO 15156. Elastomers, packing, and similar inner parts exposed to H₂S will be resistant at the maximum anticipated temperature of exposure. Drill strings, surface casing, intermediate casing, and BOP shear rams are exempt from these requirements.
10. All respiratory protective, H₂S detection, and other needed safety equipment will be in place and ready for use, and all rig crews and other service personnel will be trained in its use when this plan is effective.

11. There will be a continuous electronic H₂S detection system that will automatically activate visible and audible alarms if hydrogen sulfide is detected. The visible light will activate if 10 ppm H₂S is present. The audible siren will activate if 15 ppm H₂S or higher concentration is present. There will be at least four H₂S sensors in place on the drilling rig. Additional alarm lights & sirens may be added to ensure that all personnel on the drill site are able to notice the alarms at any time. All H₂S detection equipment will be calibrated as recommended by the manufacturer and calibration records will be maintained on location.
12. Both 30-minute self-contained breathing apparatuses (SCBA) and workline units with escape cylinders will be available on location. There will be sufficient numbers of this supplied air breathing equipment on location to ensure that all personnel on location have equipment available to them. All respiratory protective equipment will use nose cups to prevent fogging in temperatures below 32°F. Spectacle kits will be available for personnel that require corrective lenses when working under mask.
13. Electronic voice-microphones will be available for essential personnel to use when working under mask to facilitate communication.
14. Additional breathing equipment will be provided for non routine operations that require additional service personnel on the well location to ensure that all personnel on the well location have a dedicated supplied air respirator.
15. Electric explosion-proof ventilating fans (bug blowers) will be available to provide air movement in enclosed areas where gas might accumulate.
16. Any drill stem test performed on any formation potentially containing H₂S will be done with a minimal number of personnel at the drilling site as necessary to safely operate the test equipment. Any such drill-stem test will be conducted only during daylight hours and will be a closed chamber test with no fluids allowed to flow from surface.
17. Any production testing of an H₂S bearing formation will be done with proper wellhead and other equipment in place to allow a controlled test through separation equipment and flare as needed. Any such test would be conducted with monitoring and warning devices in place and proper safety equipment available.

VI. Well Ignition Procedures

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

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

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

B. Ignition Procedures

1. The Wellsite Supervisor will ensure that well site personnel are evacuated to a safe area upwind of the well bore prior to any ignition action.
2. The Wellsite Supervisor and a designated partner "buddy" backed up by well site safety personnel will comprise the ignition team. All team members will be wearing 30 minute SCBAs.
3. The backup crew will be positioned near a radio-equipped vehicle at a safe distance from the sour gas release. They will standby to rescue the actual team igniting the well.
4. The partner of the ignition team will carry a combustible gas/ hydrogen sulfide meter to continuously monitor the area in which they are working and define the perimeter of the gas cloud.
5. The Wellsite Supervisor will carry the flare gun and shells.
6. The ignition team will determine the hazardous area and establish safe working perimeters. Once this is identified the team will proceed upwind of the leak and fire into the area with flare gun. If trouble is encountered in trying to light the leak, retry to ignite by firing the flare shells at 45 and 90 angles to the gas source, but DO NOT approach closer to the leak.
7. After ignition, monitor for sulfur dioxide and work with the support group to restrict access to the contaminated area.

VII. Residents – Public in Radius of Exposure

There are no permanent residents within a 1-mile radius of the well site and the 100 PPM and 500 PPM radii of exposure for this well based on offset well parameters of 2.0 MMCFD flow rate and 0.1% H2S content are less than 2000’ and 1000’, respectively. The surrounding area is federally and privately owned and maintained. This land may be used for recreational purposes including hunting and recreational vehicles any time during the drilling or completion of this well.

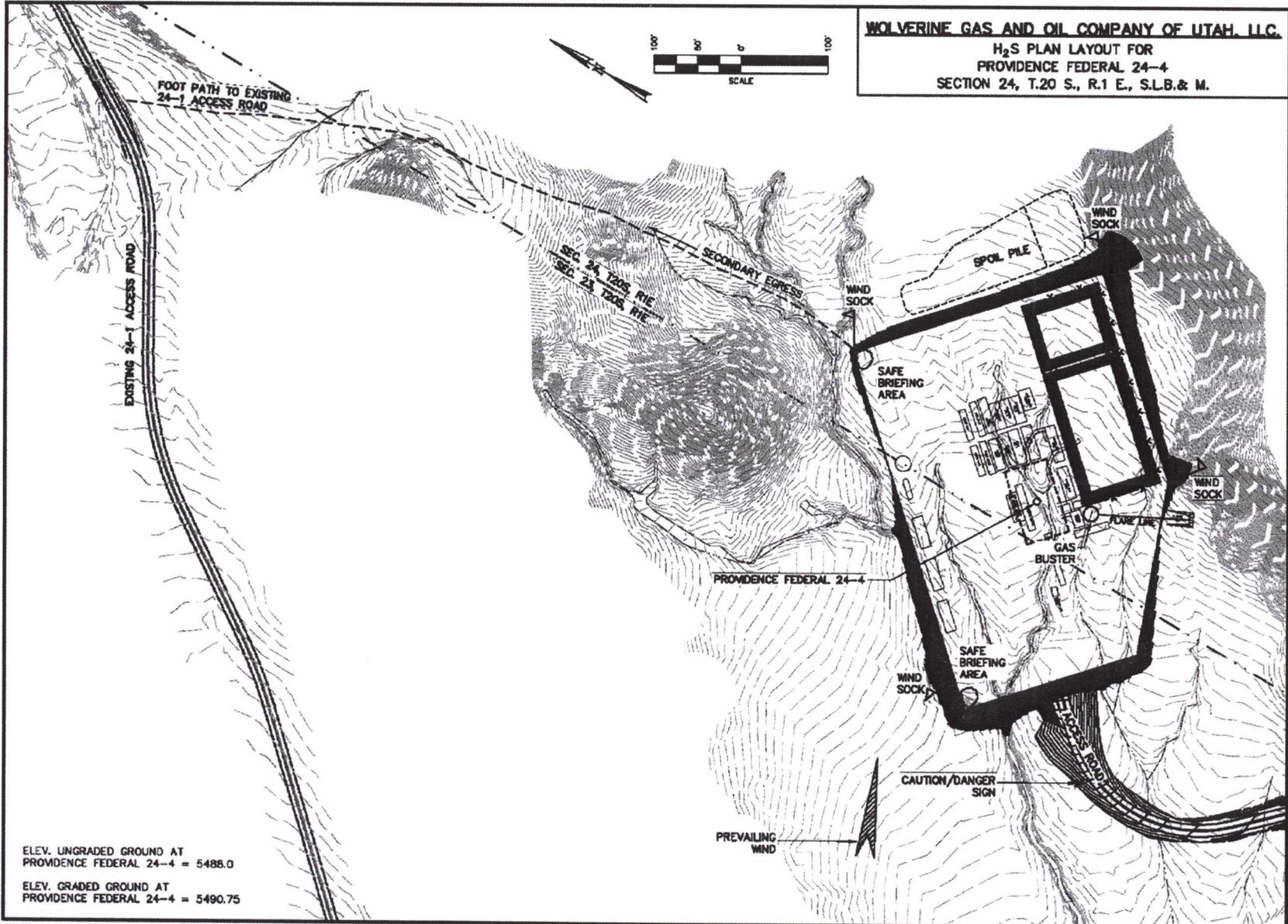
VIII. Emergency Phone Directory

A. Wolverine Gas and Oil Company of Utah, LLC

Murray Brooks (Drilling Wellsite Supervisor – Wolverine)	rig cell 435-979-2202
Tony Cook (Production Forman – Wolverine)	office 435-896-2956 cell 435-201-1622 truck 435-201-2871
Ed Higuera (Operations Manager – Wolverine)	office 616-458-1150
Pete Toups (Operations Manager – SST Drilling)	office 307-235-3529 cell 307-262-4465

B. Emergency Services Phone List

1. Sevier Valley Medical Center - Richfield, UT 435 - 896-8271
2. Gunnison Valley Hospital, Sanpete County 435 - 528-7246
3. Ambulance Services – Sevier County, UT 911 or 435-896-6471
4. Ambulance Services – Sanpete County, UT 911 or 435-835-2191
5. Sheriff Department - Sevier County, UT 911 or 435-896-6471
6. Sheriff Department – Sanpete County, UT 911 or 435-835-2191
7. Highway Patrol - Utah 800 - 222-0038
8. Fire Department - Sevier County 911 or 435-896-6471
9. Al McKee, BLM – Salt Lake City, UT (cell phone) 801- 828-7498
10. Utah Division Oil, Gas & Mining - Salt Lake City, UT 801- 538-5277
11. Medical Helicopter - Air Med- Salt Lake City, UT 800 - 453-0120
12. Utah OSHA (Mark LeBlanc) 801- 530-6862
13. Sevier Valley Medical Center - Richfield, UT 435-896-8271



WOLVERINE GAS AND OIL COMPANY OF UTAH, LLC.
H₂S PLAN LAYOUT FOR
PROVIDENCE FEDERAL 24-4
SECTION 24, T.20 S., R.1 E., S.L.B.& M.

ELEV. UNGRADED GROUND AT
 PROVIDENCE FEDERAL 24-4 = 5488.0
 ELEV. GRADED GROUND AT
 PROVIDENCE FEDERAL 24-4 = 5490.75

Jones & DeHille Engineering 1000 North 1000 West, Provo, Utah 84601 Phone: (435) 799-1111 Fax: (435) 799-1112 www.jonesanddehille.com		REVISION NO. DATE BY 1 01/10/08 JLD	SCALE 1"=100' DATE 01/10/08	DRAWN BY JLD	CHECKED BY JLD	APPROVED BY JLD	PROJECT NUMBER 0802-037	SHEET NO. SP-01
Wolverine Gas & Oil Co. of Utah, LLC Providence Federal 24-4 H ₂ S PLAN EXHIBIT		PROJECT NO. 0802-037	SHEET NO. SP-01	DATE 01/10/08	DRAWN BY JLD	CHECKED BY JLD	APPROVED BY JLD	PROJECT NUMBER 0802-037

IX. Reference Material for Hydrogen Sulfide and Sulfur Dioxide

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

TOXICITY OF VARIOUS GASES

<u>Common Name</u>	<u>Chemical Formula</u>	<u>Specific Gravity of Air=1</u>	<u>1 Threshold Limit</u>	<u>2 Hazardous Limit</u>	<u>3 Lethal Concern</u>
Hydrogen Cyanide	HCN	0.94	10 ppm	150 ppm/hr	300 ppm
Hydrogen Sulfide	H ₂ S	1.18	10 ppm	250 ppm/hr	600 ppm
Sulfur Dioxide	SO ₂	2.21	2 ppm	-----	1,000 ppm
Chloride	CL ₁	2.45	1 ppm	4 ppm/hr	1,000 ppm
Carbon Monoxide	CO	0.97	50 ppm	400 ppm/hr	1,000 ppm
Carbon Dioxide	CO ₂	1.52	5,000 ppm	5%	10%
Methane	CH ₄	0.55	90,000 ppm	Combustible Above 5% in Air	-----

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

2. Hazardous = Concentration that may cause death.

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

HYDROGEN SULFIDE

GENERAL PROPERTIES

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

Although the slightest presence of H₂S in the air is normally detectable by its characteristic “Rotten Egg” odor, it is dangerous to rely on the odor as a means of detecting excessive concentrations because the sense of smell is rapidly lost allowing lethal concentrations to be accumulated without warning. The following table indicates the poisonous nature of Hydrogen Sulfide, which is more toxic than Carbon Monoxide.

COMMON NAMES: Sour Gas, Rotten Egg Gas, Sulphurated Hydrogen, Hydrogen sulfide, Stink Damp, H₂S, Acid Gas, Sweet Gas*

PHYSICAL-CHEMICAL PROPERTIES

- Chemical FormulaH₂S
1. Specific Gravity (Air = 1.000).....1.193 (@ 77°F)
 2. Color.....None
 3. OdorCompared to Rotten Eggs
 4. Odor Threshold.....0.13 part of 1 ppm
 5. Corrosivity.....Reacts with metals, plastics, tissues and nerves.
 6. Solubility in Water.....4.0 to 1 in H₂O @ 32°F
2.6 to 1 in H₂O @ 68°F
 7. Effects on HumansOlfactory nerves, respiratory nerves, irritates sensitive membranes in eyes, nose, and throat.
 8. Vapor Pressure.....19.6 atmospheres at 25°C
 9. Explosive Limits.....4.3% to 46% by volume in air.
* H₂S is a sweet tasting Gas, but often the word “tasting” is left out.
 10. Ignition Temperature.....18°F (Burns with a pale blue flame)
 11. Molecular Weight.....34.08
 12. Conversion Factors..... 1 mg/1 of air = 717 ppm (at 25°C and 760 mm HG). 1 ppm = 0.00139 mg/1 of air.
 13. pH.....3 in water

INDUSTRIAL OCCURRENCES

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

TOXIC PROPERTIES

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

Because Hydrogen Sulfide is oxidized quite rapidly to sulfates in the body, no permanent after effects occur in cases of recovery from acute exposures unless oxygen deprivation of the nervous system is prolonged. However, in cases of acute exposures, there is always the possibility that pulmonary edema may develop. It is also reported that symptoms such as nervousness, dry nonproductive coughing, nausea, headache, and insomnia, lasting up to about 3 days have occurred after acute exposures to Hydrogen Sulfide.

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

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

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

Subjective olfactory responses to various concentrations of Hydrogen Sulfide may be summarized as follows:

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

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

10 ppm	Beginning eye irritation
50-100 ppm	Slight conjunctivitis and respiratory tract irritation after 1 hour exposure
100 ppm	Coughing, eye irritation, loss of sense of smell after 2-15 minutes. Altered respiration, pain in the eyes, and drowsiness after 15-30 minutes, followed by throat irritation after 1 hour. Several hours ¹ exposure results in gradual increase in severity of these symptoms and death may occur within the next 48 hours
200-300 ppm	Marked conjunctivitis and respiratory tract irritation after 1 hour exposure
500-700 ppm	Loss of consciousness and possibly death in 30 minutes
700 ppm	Rapid unconsciousness, cessation of respiration, and death
1000-2000 ppm	Unconsciousness at once, with early cessation of respiration and death in a few minutes. Death may occur even if individual is removed to fresh air at once.

ACCEPTABLE CONCENTRATIONS

ACCEPTABLE EIGHT-HOUR TIME-WEIGHTED AVERAGE

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

ACCEPTABLE CEILING CONCENTRATION

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

ACCEPTABLE MAXIMUM FOR PEAKS ABOVE ACCEPTABLE BASE LINE FOR CONTINUOUS EXPOSURE

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

H₂S EQUIVALENTS

Parts per Million	Percents	Grains per 100 cu. Ft.
1	0.0001	0.055
10	0.001	0.55
18	0.0018	1.0
100	0.01	5.5
1000	0.1	55.5
10000	1.0	555.5

Grains per 100 cu. Ft. = % by volume Mole 636.4
 1% by volume = 10,000 ppm

SULFUR DIOXIDE

Sulfur Dioxide (SO₂) is a colorless, transparent gas and is non-flammable.

Sulfur Dioxide is produced during the burning of H₂S. Although SO₂ is heavier than air, it will be picked up by a breeze and carried downwind at elevated temperatures. While Sulfur Dioxide is extremely irritating to the eyes and mucous membranes of the upper respiratory tract, it has exceptionally good warning powers in this respect.

CONCENTRATIONS

EFFECTS

<u>%SO₂</u>	<u>ppm</u>	
0.0002	2	Safe for eight (8) hour exposure
0.0005	5	Pungent odor - normally a person can detect SO ₂ in this range.
0.0012	12	Throat irritation, coughing, constriction of the chest, tearing and smarting of the eyes.
0.015	150	So irritating that it can only be endured for a few minutes.
0.05	500	Causes a sense of suffocation, even with the first breath.

PHYSICAL PROPERTIES AND CHARACTERISTICS

Chemical Formula	SO ₂
1. Specific Gravity.....	2.212
2. Color.....	None
3. Flammable.....	No
4. Odor	Characteristic, pungent, gives ample warning of its presence.

- 5. Corrosivity Dry---not corrosive to ordinary metals.
Wet---corrosive to most common metals.
- 6. Allowable Concentrations 2 ppm (ACGIH and OSHA)
- 7. Effects on Humans Irritates eyes, throat and upper
respiratory system

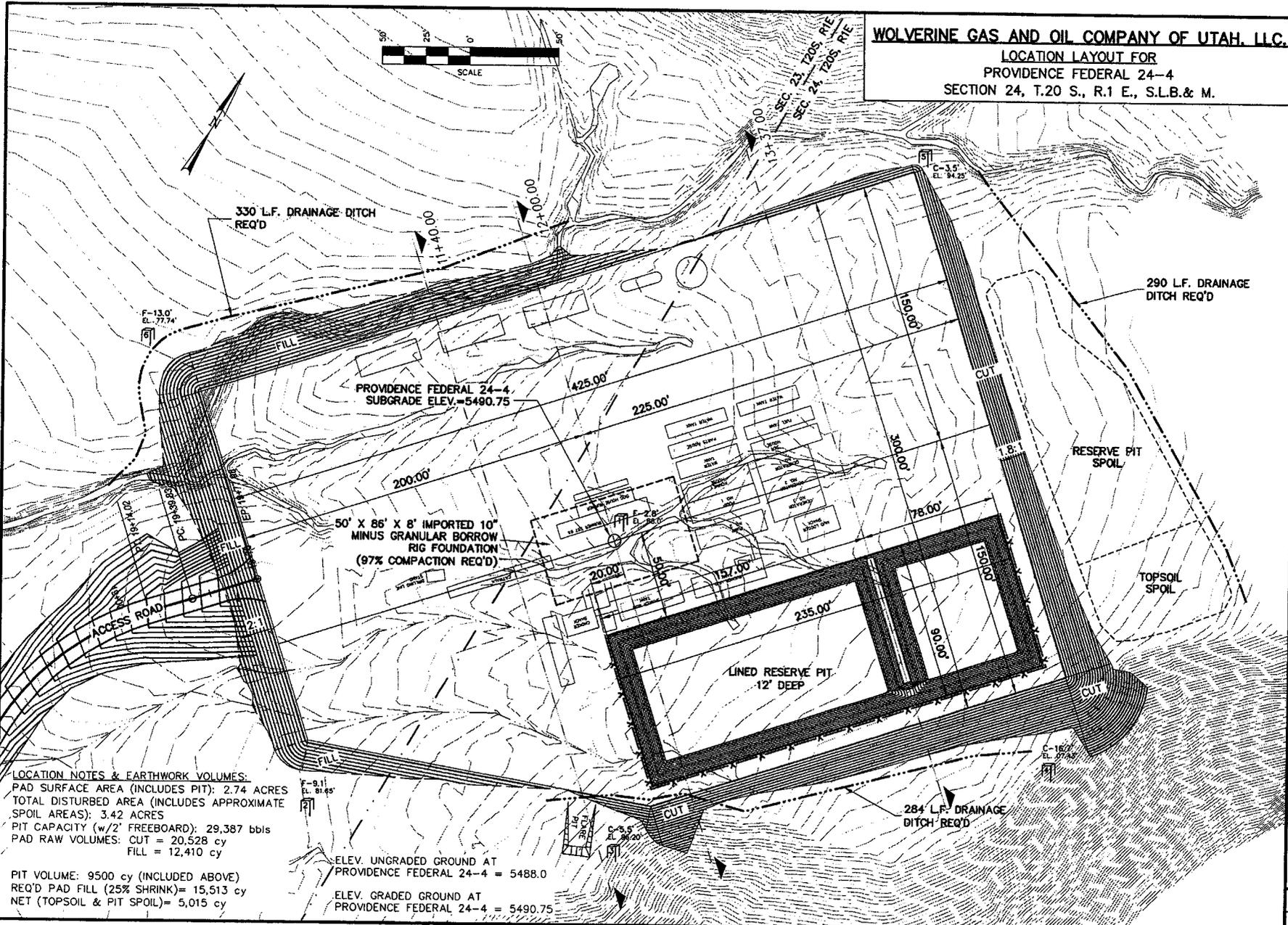
TOXIC PROPERTIES

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

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

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

WOLVERINE GAS AND OIL COMPANY OF UTAH, LLC.
LOCATION LAYOUT FOR
PROVIDENCE FEDERAL 24-4
SECTION 24, T.20 S., R.1 E., S.L.B. & M.



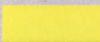
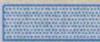
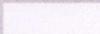
LOCATION NOTES & EARTHWORK VOLUMES:
 PAD SURFACE AREA (INCLUDES PIT): 2.74 ACRES
 TOTAL DISTURBED AREA (INCLUDES APPROXIMATE SPOIL AREAS): 3.42 ACRES
 PIT CAPACITY (w/2' FREEBOARD): 29,387 bbls
 PAD RAW VOLUMES: CUT = 20,528 cy
 FILL = 12,410 cy

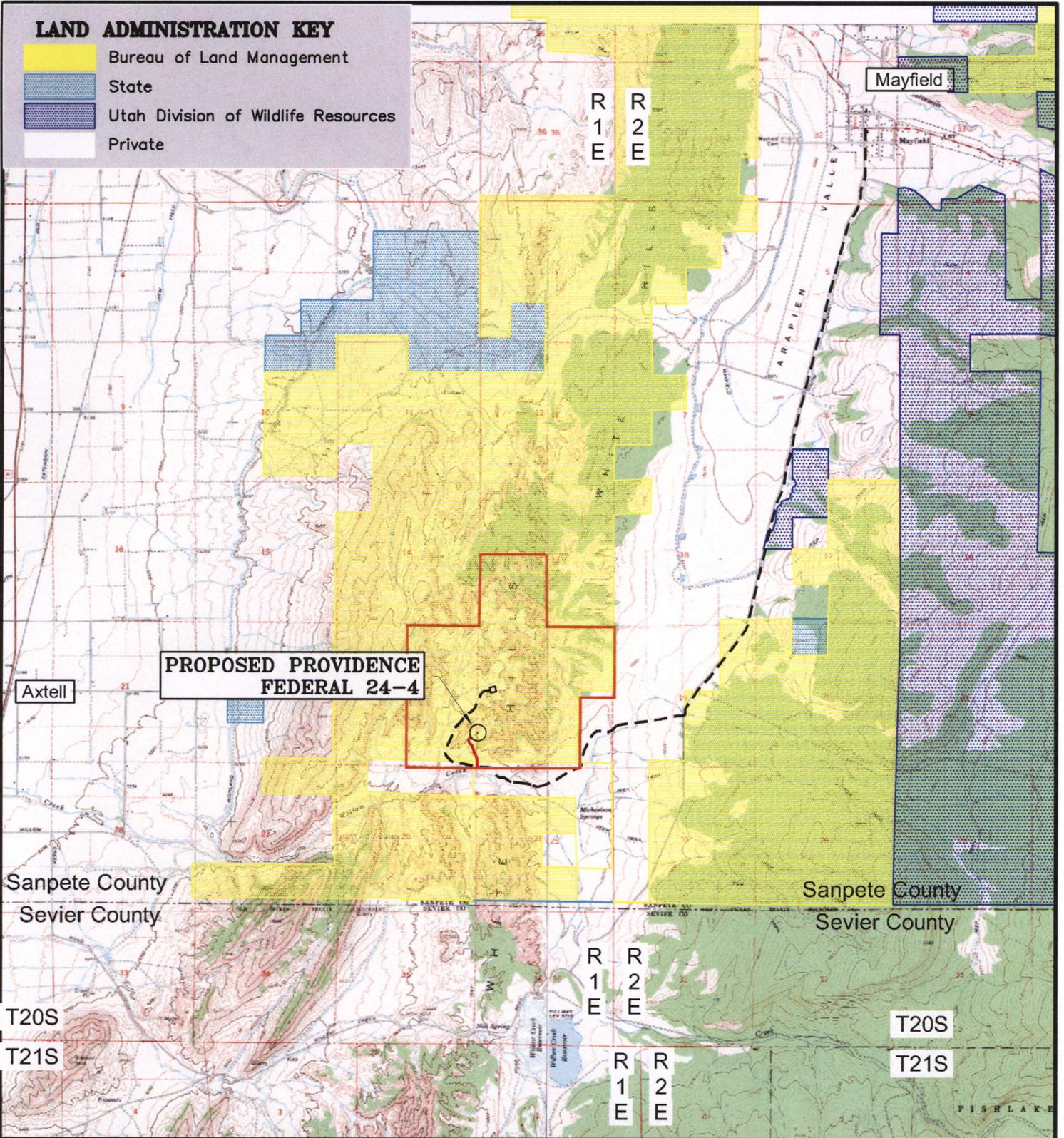
PIT VOLUME: 9500 cy (INCLUDED ABOVE)
 REQ'D PAD FILL (25% SHRINK) = 15,513 cy
 NET (TOPSOIL & PIT SPOIL) = 5,015 cy

ELEV. UNGRADED GROUND AT PROVIDENCE FEDERAL 24-4 = 5488.0
 ELEV. GRADED GROUND AT PROVIDENCE FEDERAL 24-4 = 5490.75

Jones & DeMille Engineering 1000 W. 1000 N. Suite 100 Provo, UT 84601 www.jonesanddelle.com		APPROVAL REGIONAL DATE: _____ APPROVED: _____	CHECK: _____ CHECK: _____ CHECK: _____	REVIEW DATE: _____ REVIEW DATE: _____ REVIEW DATE: _____	ORIGINAL SUBMISSION FOR AUTHORIZATION DATE: _____ BY: _____	REVISIONS NO. DATE DESCRIPTION BY
Wolverine Gas & Oil Co. of Utah, LLC Providence Federal 24-4 LOCATION EXHIBIT PROJECT NUMBER: 0802-037		COUNTY: SANPETE		SHEET NO. SP-01		
SCALE: 1"=50' DWG NAME: 10-144 DWTG CREATED: 08/20/08 PLOT TEL: 438-550-5035		DWTG CREATED: 08/20/08 PLOT TEL: 438-550-5035		LAST UPDATE: 08/20/08		

LAND ADMINISTRATION KEY

-  Bureau of Land Management
-  State
-  Utah Division of Wildlife Resources
-  Private



**PROPOSED PROVIDENCE
FEDERAL 24-4**

LEGEND

-  PROPOSED LOCATION
-  EXISTING ROADWAY
-  NEW ROADWAY
-  UTU-80907 LEASE BOUNDARY

**Providence Federal 24-4
Section 24, T.20 S., R.1 E., S.L.B. & M.
975' FSL 41' FWL**

Wolverine Gas & Oil Co. of Utah, LLC

Providence Federal 24-4

Vicinity Map



Jones & DeMille Engineering

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



SCALE: 1"=5000'

DRAWN: L.G. 07-08	PEN TBL: _1stndrd-hp2600.cbt	PROJECT: 0802-037	SHEET: 1
CHECK: D.H.R. 07-08	FILE: VIC_24-4	LAST UPDATE: 7/29/2008	

**WORKSHEET
APPLICATION FOR PERMIT TO DRILL**

APD RECEIVED: 08/27/2008

API NO. ASSIGNED: 43-039-30040

WELL NAME: PROVIDENCE FED 24-4
 OPERATOR: WOLVERINE GAS & OIL CO (N1655)
 CONTACT: PAUL SPIERING

PHONE NUMBER: 435-896-1943

PROPOSED LOCATION:

SWSW 24 200S 010E
 SURFACE: 0975 FSL 0041 FWL
 BOTTOM: 0975 FSL 0041 FWL
 COUNTY: SANPETE
 LATITUDE: 39.05014 LONGITUDE: -111.7593
 UTM SURF EASTINGS: 434292 NORTHINGS: 4322407
 FIELD NAME: WILDCAT (1)

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

LEASE TYPE: 1 - Federal
 LEASE NUMBER: UTU-80907
 SURFACE OWNER: 1 - Federal

PROPOSED FORMATION: NAVA
 COALBED METHANE WELL? NO

RECEIVED AND/OR REVIEWED:

- Plat
- Bond: Fed[1] Ind[] Sta[] Fee[]
(No. WY3320)
- Potash (Y/N)
- Oil Shale 190-5 (B) or 190-3 or 190-13
- Water Permit
(No. 63-3234)
- 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: _____

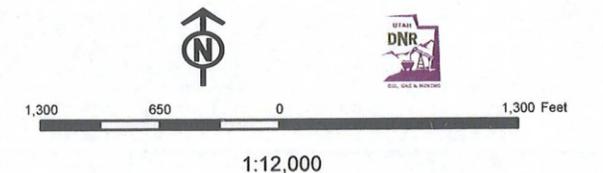
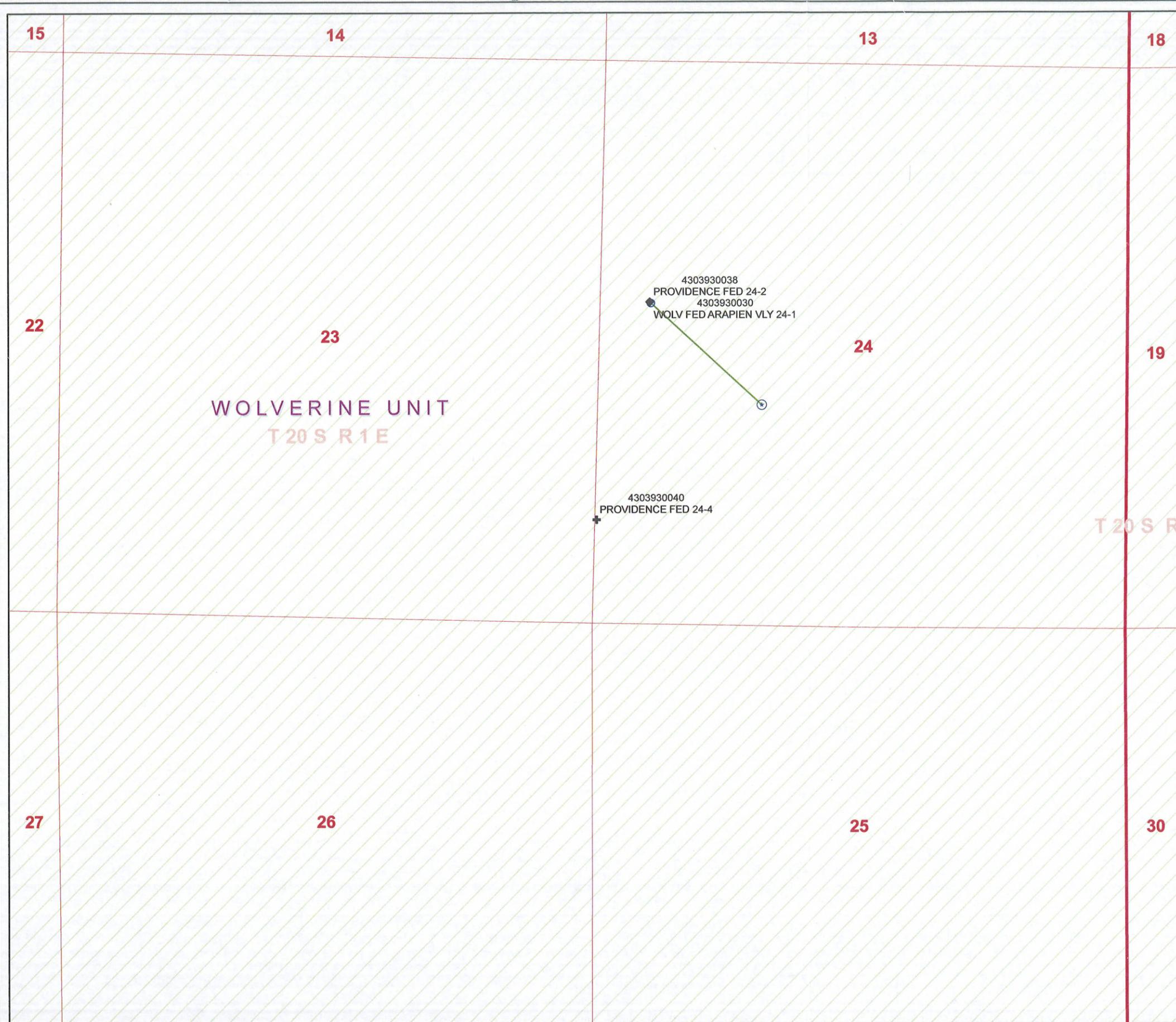
STIPULATIONS: _____

1- Spacing Approval
2- Spacing Approval

API Number: 4303930040
Well Name: PROVIDENCE FED 24-4
Township 20.0 S Range 01.0 E Section 24
Meridian: SLBM
Operator: WOLVERINE GAS & OIL CO UT

Map Prepared:
 Map Produced by Diana Mason

- | | |
|---------------|---------------------------|
| Units | Wells Query Events |
| STATUS | ✕ <all other values> |
| ACTIVE | GIS_STAT_TYPE |
| EXPLORATORY | <Null> |
| GAS STORAGE | ◆ APD |
| NF PP OIL | ⊙ DRL |
| NF SECONDARY | ⊙ GI |
| PI OIL | ⊙ GS |
| PP GAS | ✕ LA |
| PP GEOTHERML | ⊕ NEW |
| PP OIL | ⊕ OPS |
| SECONDARY | ⊕ PA |
| TERMINATED | ⊕ PGW |
| Fields | ● POW |
| STATUS | ⊙ RET |
| ACTIVE | ⊕ SGW |
| COMBINED | ● SOW |
| Sections | ⊕ TA |
| Township | ○ TW |
| | ⊕ WD |
| | ⊕ WI |
| | ● WS |
| | ⊕ Bottom Hole Location |



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)

September 5, 2008

Memorandum

To: Field Office Manger, Richfield Field Office

From: Michael Coulthard, Petroleum Engineer

Subject: 2008 Plan of Development Wolverine Unit Sanpete and Sevier County, Utah.

Pursuant to email between Diana Whitney, Division of Oil, Gas and Mining, and Mickey Coulthard, Utah State Office, Bureau of Land Management, the following well location has been changed from that approved on June 9, 2008. The well is planned for calendar year 2008 within the Wolverine Unit, Sevier County, Utah.

API #	WELL NAME	LOCATION
-------	-----------	----------

(Proposed PZ Navajo)

43-039-30040 Providence Fed 24-4 Sec 24 T20S R01E 0975 FSL 0041 FWL

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

/s/ Michael L. Coulthard

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

MCoulthard:mc:9-5-08



JON M. HUNTSMAN, JR.
Governor

GARY R. HERBERT
Lieutenant Governor

State of Utah

DEPARTMENT OF NATURAL RESOURCES

MICHAEL R. STYLER
Executive Director

Division of Oil, Gas and Mining

JOHN R. BAZA
Division Director

September 9, 2008

Wolverine Gas & Oil Company of Utah, LLC
1140 N Centennial Park Drive
Richfield, UT 84701

Re: Providence Federal 24-4 Well, 975' FSL, 41' FWL, SW SW, Sec. 24, T. 20 South,
R. 1 East, Sanpete County, Utah

Gentlemen:

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

Appropriate information has been submitted to DOGM and administrative approval of the requested exception location is hereby granted.

This approval shall expire one year from the above date unless substantial and continuous operation is underway, or a request for extension is made prior to the expiration date. The API identification number assigned to this well is 43-039-30040.

Sincerely,

Gil Hunt
Associate Director

pab
Enclosures

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

Operator: Wolverine Gas & Oil Company of Utah, LLC

Well Name & Number Providence Federal 24-4

API Number: 43-039-30040

Lease: UTU-80907

Location: SW SW Sec. 24 T. 20 South R. 1 East

Conditions of Approval

1. General

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

2. Notification Requirements

Notify the division within 24 hours of spudding the well.

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

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

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

3. Reporting Requirements

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

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

5. 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.



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)

October 2, 2008

CERTIFIED MAIL NO. 7008 1300 0001 0523 4626
RETURN RECEIPT REQUESTED

43 039 30040

Mr. Paul Spiering
Wolverine Operating Company of Utah, LLC
1140 North Centennial Park Drive
Richfield, Utah 84701

RE: Application for Permit to Drill, Providence Federal 24-4 and Conditions of Approval

Dear Mr. Spiering:

Your Application for Permit to Drill (APD) the Wolverine Providence Federal 24-4, SW $\frac{1}{4}$ SW $\frac{1}{4}$ Section 24, T. 20 S., R.1 E., SLB&M, Sanpete County, Utah, is approved with the attached Conditions of Approval.

The APD was filed in this office on August 20, 2008 with a Surface Use Plan of Operations and a Drilling Program. Technical review of the APD has been completed as part of the approval process and the completion of an environmental assessment. The environmental assessment has been based on the APD as submitted, the approval is for the APD package.

Copies of the approved APD and Conditions of Approval are enclosed for your records.

If you have any questions, please contact Stan Andersen at (435) 896-1532.

Sincerely,

Wayne A. Wetzel
Associate Field Office Manager

Enclosure:

APD with Surface Use Plan of Operations and Drilling Program (including the modification)
Conditions of Approval

cc: Al McKee (U-922)

RECEIVED

OCT 06 2008

DIV. OF OIL, GAS & MINING

State of Utah, Division of Oil, Gas and Mining, PO Box 145801, Salt Lake City, UT 84114-5801

file

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

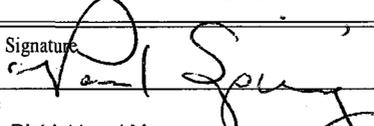
APPLICATION FOR PERMIT TO DRILL OR REENTER

1a. Type of work: <input checked="" type="checkbox"/> DRILL <input type="checkbox"/> REENTER		5. Lease Serial No. UTU-80907	
1b. Type of Well: <input checked="" type="checkbox"/> Oil Well <input type="checkbox"/> Gas Well <input type="checkbox"/> Other <input checked="" type="checkbox"/> Single Zone <input type="checkbox"/> Multiple Zone		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 No. Wolverine Federal Unit	
3a. Address 1140 N Centennial Park Drive Richfield, Utah 84701		8. Lease Name and Well No. Providence Federal 24-4	
3b. Phone No. (include area code) 435-896-1943		9. API Well No.	
4. Location of Well (Report location clearly and in accordance with any State requirements.)* At surface 975' FSL, 41' FWL, being in SW4SW4 At proposed prod. zone 956' FSL, 41' FWL, being in SW4SW4		10. Field and Pool, or Exploratory Unnamed, Navajo	
11. Sec., T. R. M. or Blk. and Survey or Area Section 24, T20S, R1E, SLB&M		12. County or Parish Sanpete	
14. Distance in miles and direction from nearest town or post office* 5.25 miles Southwest of Mayfield, Utah		13. State UT	
15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any) 975 feet	16. No. of acres in lease 1,040	17. Spacing Unit dedicated to this well 40 acres	
18. Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft. 2,170 feet	19. Proposed Depth 13,400 (TVD)	20. BLM/BIA Bond No. on file BLM WY 33209	
21. Elevations (Show whether DF, KDB, RT, GL, etc.) 5,490.75' GR	22. Approximate date work will start* 10/01/2008	23. Estimated duration 120 days	

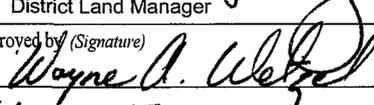
24. Attachments

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

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

25. Signature 	Name (Printed Typed) Paul Spiering	Date 08/20/2008
---	---------------------------------------	--------------------

Title District Land Manager

Approved by (Signature) 	Name (Printed Typed) Wayne A. Wetzel	Date 1 Oct 2008
---	---	--------------------

Title Assoc. Field Manager Office Richfield Field Office

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

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

(Continued on page 2)

*(Instructions on page 2)

RECEIVED

AUG 20 2008

Richfield BLM Field Office

INSTRUCTIONS

GENERAL: This form is designed for submitting proposals to perform certain well operations, as indicated on Federal and Indian lands and leases for action by appropriate Federal agencies, pursuant to applicable Federal laws and regulations. Any necessary special instructions concerning the use of this form and the number of copies to be submitted, particularly with regard to local, area, or regional procedures and practices, either are shown below or will be issued by, or may be obtained from local Federal offices.

ITEM 1: If the proposal is to redrill to the same reservoir at a different subsurface location or to a new reservoir, use this form with appropriate notations. Consult applicable Federal regulations concerning subsequent work proposals or reports on the well.

ITEM 4: Locations on Federal or Indian land should be described in accordance with Federal requirements. Consult local Federal offices for specific instructions.

ITEM 14: Needed only when location of well cannot readily be found by road from the land or lease description. A plat, or plats, separate or on the reverse side, showing the roads to, and the surveyed location of, the well, and any other required information, should be furnished when required by Federal agency offices.

ITEMS 15 AND 18: If well is to be, or has been directionally drilled, give distances for subsurface location of hole in any present or objective productive zone.

ITEM 22: Consult applicable Federal regulations, or appropriate officials, concerning approval of the proposal before operations are started.

NOTICES

The Privacy Act of 1974 and regulation in 43 CFR 2.48(d) provide that you be furnished the following information in connection with information required by this application.

AUTHORITY: 30 U.S.C. 181 et seq., 25 U.S.C. 396; 43 CFR 3160

PRINCIPAL PURPOSES: The information will be used to: (1) process and evaluate your application for a permit to drill a new oil, gas, or service well or to reenter a plugged and abandoned well; and (2) document, for administrative use, information for the management, disposal and use of National Resource Lands and resources including (a) analyzing your proposal to discover and extract the Federal or Indian resources encountered; (b) reviewing procedures and equipment and the projected impact on the land involved; and (c) evaluating the effects of the proposed operation on the surface and subsurface water and other environmental impacts.

ROUTINE USE: Information from the record and/or the record will be transferred to appropriate Federal, State, and local or foreign agencies, when relevant to civil, criminal or regulatory investigations or prosecution, in connection with congressional inquiries and for regulatory responsibilities.

EFFECT OF NOT PROVIDING INFORMATION: Filing of this application and disclosure of the information is mandatory only if you elect to initiate a drilling or reentry operation on an oil and gas lease.

The Paperwork Reduction Act of 1995 requires us to inform you that:

The BLM collects this information to allow evaluation of the technical, safety, and environmental factors involved with drilling for oil and/or gas on Federal and Indian oil and gas leases. This information will be used to analyze and approve applications.

Response to this request is mandatory only if the operator elects to initiate drilling or reentry operations on an oil and gas lease.

The BLM would like you to know that you do not have to respond to this or any other Federal agency-sponsored information collection unless it displays a currently valid OMB control number.

BURDEN HOURS STATEMENT: Public reporting burden for this form is estimated to average 8 hours per response, including the time for reviewing instructions, gathering and maintaining data, and completing and reviewing the form. Direct comments regarding the burden estimate or any other aspect of this form to U.S. Department of the Interior, Bureau of Land Management (1004-0137), Bureau Information Collection Clearance Officer (WO-630), 1849 C Street, N.W., Mail Stop 401 LS, Washington, D.C. 20240.

ATTACHMENT A - CONDITIONS OF APPROVAL

Company: Wolverine Gas and Oil Company of Utah, LLC.
Well No: Providence Federal #24-4
Location: SW¼ SW¼ Sec 24, T. 20 S., R. 1 E. SLB&M
Sanpete County, Utah
Lease No: UTU-80907
Wolverine Unit

I. Please Note:

All lease and/or unit operations will be conducted in such a manner that full compliance is made with applicable laws, regulations (43 CFR parts 3100, 3160 and 3180), lease/agreement terms, Onshore Oil and Gas Orders, Notice to Lessee's, and this approved plan of operation.

A copy of the approved application and these conditions shall be maintained on location during all construction and drilling operations. Deviation from the approved plan without prior approval is not allowed.

The operator is fully responsible for the actions of his subcontractors.

Operators have the responsibility to assure that activities authorized by this permit are conducted in a manner that complies with other applicable Federal, State, and local laws and regulations.

Approval of this application 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.

This Application for Permit to Drill (APD) shall be valid for two years from the date of approval, provided the lease does not expire. If activities have not commenced by the end of the two-year period, the APD shall be returned to the operator without prejudice. Should the operator still desire to drill the well, a new APD must be submitted to this office. Upon written request by the operator, a one-time **two year** extension to this time period may be granted by the Authorized Officer (AO).

Failure to comply with the provisions of this permit, including applicable regulations, stipulations, and/or approval conditions, will be considered a violation subject to the enforcement provisions of 43 CFR Subpart 3163.

If fill materials are needed to maintain roads or well sites, proper permits must be obtained from the appropriate surface owner. On BLM administered lands, the use of materials shall conform to 43 CFR §3610.2-3.

II. Required Notifications:

The operator and contractor shall contact the BLM, Richfield Field Office - (435) 896-1522, at least 48 hours prior to commencement of access and site construction or reclamation activities. (Contact: **Bert Hart**).

The operator shall contact the BLM, Utah State Office, Branch of Fluid Minerals, (801) 539-4045, FAX (801) 539-4200, at least 24 hours prior to the following operations (Contact: **Al McKee**):

- spudding (including dry hole digger or rig hole rigs);
- running and cementing all casing strings;
- pressure testing of BOPE or any casing string.
- pressure integrity test (mud weight equivalency test) of each casing shoe.

In the case of newly drilled dry holes, and in any emergency situation, after hour authorization may be obtained by contacting the following individuals, in the order listed:

Utah State Office, BLM, Branch of Fluid Minerals

Al McKee (801) 572-6911 (Home)
Petroleum Engineer (801) 828-7498 (Cell)

Larry Denny (801) 865-2337 (Cell)
I&E Coordinator (801) 928-9570 (Cell)
(801) 539-4048 (Office)
larry_denny@blm.gov

If unable to reach any of the above individuals, please call the following:

Bert Hart (435) 979-7134
Natural Resource Specialist

III. Conditions of Approval:

A. **Drilling Plan** - The drilling plan of the Application for Permit to Drill will be supplemented as follows:

1. Onshore Order No. 2, *Drilling Operations*, requires that all formations containing usable quality water (less than 10,000 ppm TDS) be protected via cement. If encountered while drilling, usable quality water would require protection by bring the cement at least $\pm 100'$ above and below the usable quality water zone.
2. No variances were requested nor approved from the minimum standards of Order Nos. 2 and 6.

3. After running and cementing the 9-5/8" intermediate casing, a cement bond log, cement evaluation tool, or equivalent shall be run to determine cement top and quality. Results will be reported to BLM, attn: Al McKee. Any necessary remedial operations will be conducted prior to drilling out of the shoe.
4. Daily drilling and completion progress reports shall be submitted to the Utah State Office on a weekly basis, and shall include daily mud reports.
5. The authorized officer shall be notified when operations are 500 feet above or 3 days before (whichever is earlier) drilling the first formation expected to contain Hydrogen Sulfide (H₂S).
6. A copy of the Drilling Operations Plan (DOP) shall be available during operations at the wellsite beginning 500 feet above or 3 days before (whichever is earlier) drilling the first formation expected to contain H₂S.
7. As an alternative road is not practical, a clearly marked footpath flagged to a safe area is acceptable (OO#6.III.C.2.a).
8. H₂S DOP and Public Protection Plan (PPP), if necessary, shall be reviewed by the operator on an annual basis and copy of any necessary revisions shall be submitted to the authorized officer upon request. The DOP and/or PPP will also be reviewed during any operator changes. The BLM will be notified when this review has been completed.
9. Operations authorized by this permit shall not be suspended for more than 30 days without prior approval of the Authorized Officer (AO). All conditions of this approval shall be applicable during any operations conducted with a replacement/completion rig.
10. Two copies of all logs, and a single copy of core descriptions, core analyses, drill stem tests, well-test data, geologic summaries, sample descriptions, and all other surveys or data obtained and compiled during the drilling and/or completion operations shall be submitted to the BLM, Utah State Office, Branch of Fluid Minerals, at P.O. Box 45155, Salt Lake City, Utah, 84145-0155.
11. Gas produced from this well may not be vented or flared beyond an initial authorized test period of 30 days or 50 MMCF following its completion, whichever comes first, without the prior written approval of the authorized officer. Should gas be vented or flared without approval beyond the authorized test period, the operator may be directed to shut-in the well until the gas can be captured or approval to continue venting or flaring as uneconomic is granted and the operator shall be required to compensate the lessor for the portion of the gas vented or flared without approval which is determined to have been avoidably lost.

12. Section 102 (b) (3) of the Federal Oil and Gas Royalty Management Act of 1982, as implemented by the applicable provisions of the operating regulations at Title 43 CFR 3162.4-1 (c), requires that "not later than the 5th business day after any well begins production on which royalty is due anywhere on a lease site or allocated to a lease site, or resumes production in the case of a well which has been off production for more than 90 days, the operator shall notify the authorized officer by letter or sundry notice, Form 3160-5, or orally to be followed by a letter or sundry notice, of the date on which such production has begun or resumed."

The date on which production is begun or resumed will be construed for oil wells as the date on which liquid hydrocarbons are first sold or shipped from a temporary storage facility, such as a test tank, and for which a run ticket is required to be generated or, the date on which liquid hydrocarbons are first produced into a permanent storage facility, whichever occurs first; and, for gas wells as the date on which associated liquid hydrocarbons are first sold or shipped from a temporary storage facility, such as a test tank, and for which a run ticket is required to be generated or, the date on which gas is first measured through permanent metering facilities, whichever occurs first.

If you fail to comply with this requirement in the manner and time allowed, you shall be liable for a civil penalty of up to \$10,000 per violation for each day such violation continues, not to exceed a maximum of 20 days. See Section 109 (c) (3) of the Federal Oil and Gas Royalty Management Act of 1982 and the implementing regulations at Title 43 CFR 3162.4-1 (c) and 3163.2 (e) (2).

B. Surface Use Plan of Operations - The surface use plan of operations for the Application for Permit to Drill will be supplemented as follows:

1. Any cultural resources be unearthed, surface-disturbing activities will be re-routed to avoid or halted until the cultural sites/artifacts can be evaluated for significance, and a mitigation/salvage plan be formulated. These actions will successfully mitigate possible impacts to cultural resources such that a detailed analysis will not be not required.
2. All materials brought in from off site for road or pad construction will come from a pit free of invasive, non-native species.
3. All Federal and State laws will be followed regarding use, storage and disposal of hazardous materials and solid wastes. The areas will be kept clean and free of litter and utilizing appropriate human waste facilities will be used during the operation. Waste and these facilities will be removed from the site and properly disposed of upon completion of the project. Any petroleum spills will be cleaned-up in accordance with State and Federal laws and regulations. Trash will be contained in a portable, self-contained trash cage and hauled to a sanitary landfill.

4. The Applicant has committed to monitoring and treating any noxious weeds along the right-of-way, and the well site. All equipment will be power washed to reduce the potential of introducing new weed species into the area. All berms, drill pad slopes, and spoils pile will be reseeded the first fall after the disturbance is made to keep weeds from invading the disturbed sites.
5. Topsoil will be collected and piled and used in the final rehabilitation process. All of the seed will be mixed together, and will either be broadcast seeded or drill seeded. If the area is broadcast seeded then this will be done by using a four-wheeler equipped with a seeder.

RECOMMENDED SEED MIXTURE

<u>Plant Species</u>	<u>Pounds/Acre</u>
1) <u>Hycrest Crested Wheatgrass</u>	<u>1.0</u>
2) <u>Luna Pubescent Wheatgrass</u>	<u>1.0</u>
3) <u>Bozoisky Russin Wildryes</u>	<u>1.5</u>
4) <u>Magnar Great Basin Wildrye</u>	<u>1.5</u>
5) <u>Covar Sheep Fescue</u>	<u>1.0</u>
6) <u>Wyoming Big Sagebrush</u>	<u>1.0</u>
7) <u>Penstemon eatonii</u>	<u>1.0</u>
8) <u>Penstemon palmeri</u>	<u>1.5</u>
9) <u>Yellow Sweetclover</u>	<u>1.0</u>
10) <u>Ranger Alfalfa</u>	<u>1.5</u>
11) <u>Appar Lewis Flax</u>	<u>1.5</u>
12) <u>Common Sunflower</u>	<u>1.5</u>
13) <u>Delar Small Burnet</u>	<u>1.5</u>
14) <u>Forage Kochia</u>	<u>1.0</u>
TOTAL	16.0

0

Seeding rate will be 16 pounds per acre. After broadcast seeding, then the area will be drug with a small harrow (used with four wheeler), which will cover the seed. Seed certification tags will be presented to the BLM.

If the area is drill seeded then a small tractor equipped with a farm drill will be used. Seeding rate will be 8 pounds per acre.

All of the seeding will be done in middle to late fall (October/November) to prevent premature sprouting and subsequent winter killing of the forb species, due to late summer/early fall precipitation combined with warm soil temperatures

6. If any vertebrate fossils are observed during construction all work will cease until consultation with the BLM has been completed.
7. The reserve pit will be fenced on three sides during drilling and on the fourth side when the drill rig is removed from the site.

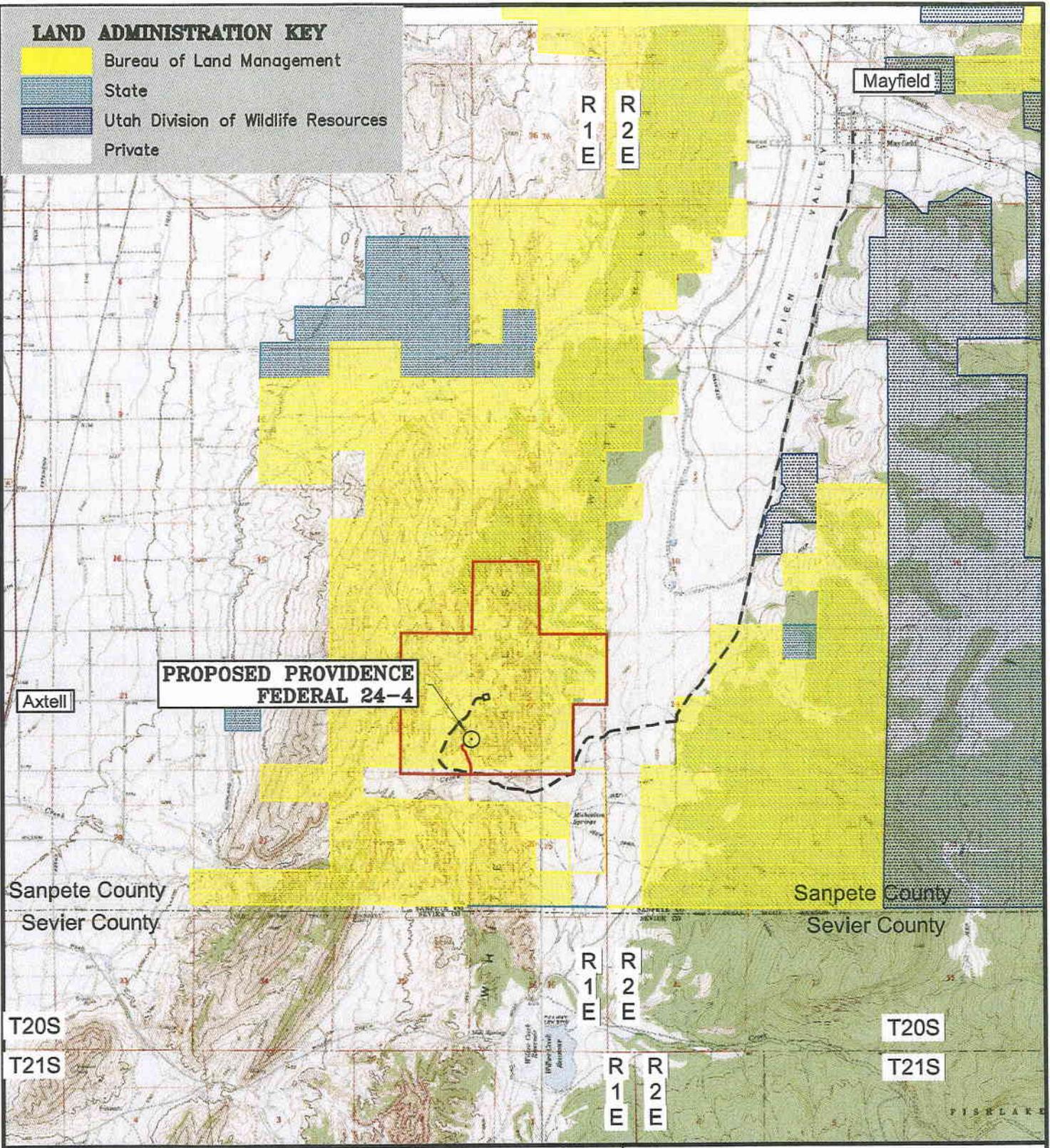
8. All junk, debris, or other foreign material must be removed before initiating any dirt work to restore the location. The fence around the reserve pit will be maintained in good repair during the drilling operations and will be completed by constructing the fourth side while the pit is drying. It will remain in place until the pit is completely dry and the site restoration begins.
9. Site reclamation will include:
 - Removing any road base material that may have been added to the access road or pad;
 - Re-contouring the access road and well pad to approximate natural contours and conditions, to the extent practicable; evenly redistributing stockpiled topsoil over the re-contoured areas, the cut and fill slopes, and all other disturbed areas;
 - Scarifying of all disturbed areas (including the access road) and re-contoured areas prior to seeding, by use of a disk or harrow, to provide for a slightly roughened surface condition capable of collecting precipitation and holding surface water to promote seed germination.
 - Cut and fill slopes will be stabilized, stockpiles, and other disturbances will be seeded for re-growth of vegetation to stabilize slopes and to reduce erosion
 - If the fluids in the reserve pit have not evaporated within 90 days, the fluids will be pumped from the pit and disposed of in accordance with applicable BLM regulations. The reserve pit and that portion of the location and access road not needed for production or production facilities will be reclaimed. All stockpiled topsoil, in proportion the area being reclaimed, will be used in reclaiming areas without an on-going operation.
 - If the reserve pit has adequate capacity, any mineral materials that may have been used will be buried in the reserve pit, provided that the mineral materials are not contaminated by oil or other waste materials. Culverts will be removed from the site. If they are salvageable they will be used in other construction projects. If not, they will be disposed in a landfill. The cellar (six foot diameter concrete structure or culvert) from the base of the drill rig will be removed from the site and disposed in a landfill, or with the approval of the Authorized Officer may be broken down into small pieces and buried during the re-contouring on the site.
 - During the life of the project, until the site is released from liability for reclamation, the project will be inspected at least annually for noxious weeds. If invasive noxious weeds are found, the weeds will be treated to eliminate further reproduction (spread), and treatment will continue until the weeds have been eradicated. If noxious weeds are found, the BLM will be notified of their occurrence.
 - Any soils contaminated from oil spills will be disposed of in an approved landfill.
 - Any accumulation of hydrocarbons in the reserve pit will be removed and recovered for sale unless it is determined by the Authorized Officer to be waste oil. All waste oil will be disposed of properly at approved facilities.
 - For reclamation, the polyurethane liner in the reserve pit, which is exposed above the cuttings, will be cut, removed from the site, and disposed in an approved landfill. The reserve pit will be backfilled to slightly above grade to allow for settling of the unconsolidated fill material.
 - All equipment and vehicles will be confined to the access roads and well pad.

- All permanent structures, including pumping units, constructed or installed will be painted a flat, non-reflective color, as described on page 40 of the Gold Book (Surface Operating Standards and Guidelines for Oil and Gas Exploration and Development, 4th Edition 2007). Prior to painting permanent structures, the operator will submit a Sundry Notice for approval of a color proposed by the applicant. Permanent structures are defined as being on location for six months or longer. Facilities that must conform to a color standard required Occupational Safety and Health Act (OSHA) may not conform to the Gold Book standards.
10. Fire suppression equipment will be available to suppress any wildfires caused by construction or related activities. In the event of a wildfire, the Richfield Interagency Fire Center will be notified at (435-896-8404).
 11. Any facilities in an existing right-of-way that are damaged as a result of the oil and gas construction, operation, maintenance, or termination shall be repaired or replaced to the same condition as existed prior to the damage. Any costs for such damage or repair shall be the total responsibility of the Applicant.
 12. All borehole fluids must be contained in the reserve pit. All appropriate measures must be taken to prevent leakage into the substratum or onto the surface. All appropriate measures must be taken to prevent overflow, and a minimum of 2 feet of freeboard must be maintained in the reserve pit.
 13. If the flare pit is constructed by fill embankment, a keyway or core trench 10 to 12 feet wide shall be excavated to a minimum depth of 2 to 3 feet below the original ground level. The core of the embankment must be constructed with water-impervious material.
 14. Erosion control and re-vegetation measures shall be implemented to insure that the lands disturbed by construction and maintenance activities will be restored to a stable, productive, and aesthetically acceptable condition.

ATTACHMENT B - Maps

LAND ADMINISTRATION KEY

-  Bureau of Land Management
-  State
-  Utah Division of Wildlife Resources
-  Private



**PROPOSED PROVIDENCE
FEDERAL 24-4**

LEGEND

-  PROPOSED LOCATION
-  EXISTING ROADWAY
-  NEW ROADWAY
-  UTU-80907 LEASE BOUNDARY

Providence Federal 24-4
Section 24, T.20 S., R.1 E., S.L.B. & M.
975' FSL 41' FWL



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



SCALE: 1"=5000'

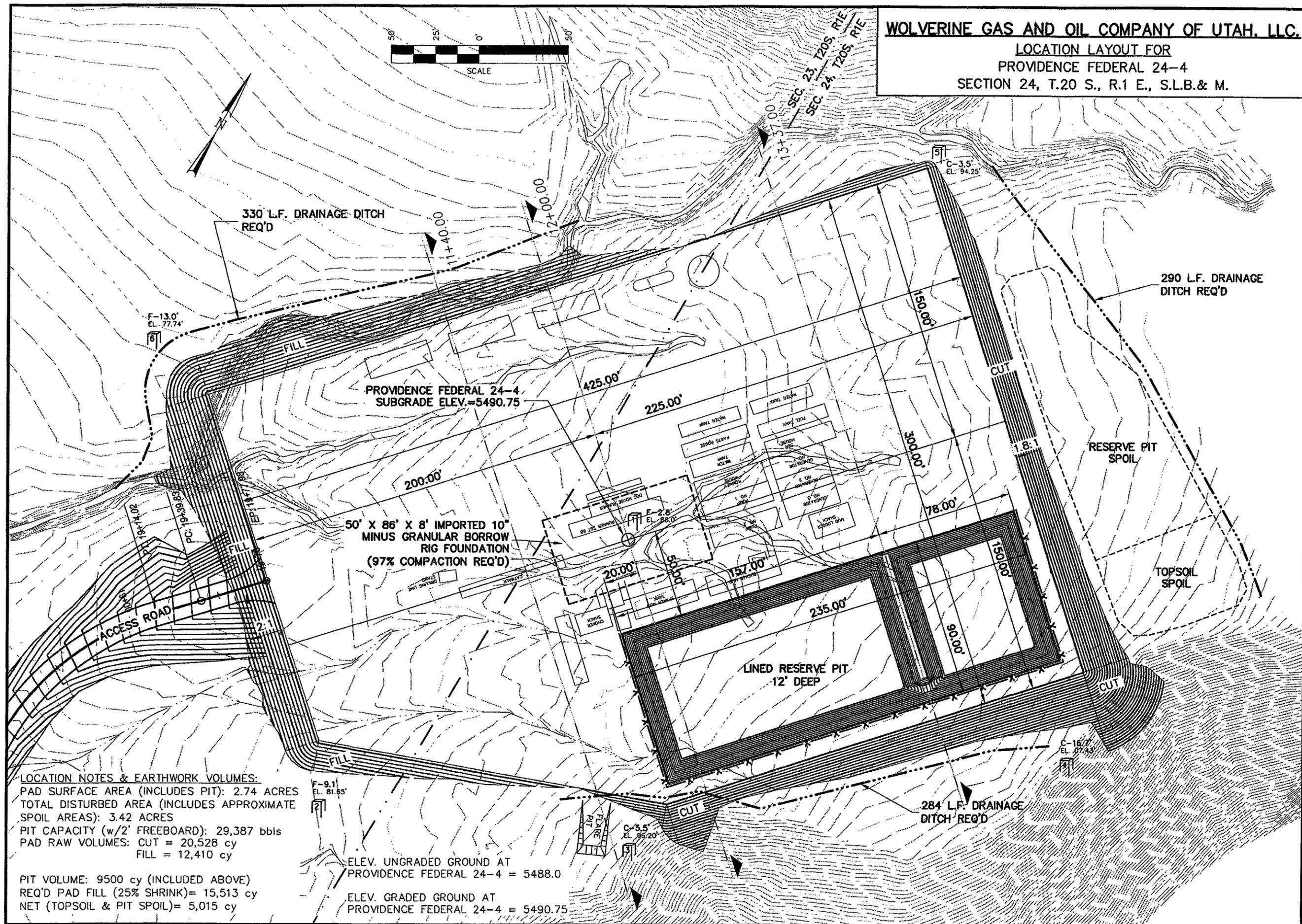
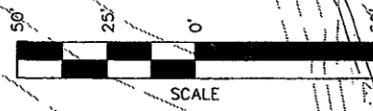
Wolverine Gas & Oil Co. of Utah, LLC

Providence Federal 24-4

Vicinity Map

DRAWN: L.G. 07-08	PEN TEL: _1stndrd-hp2600.ctb	PROJECT: 0802-037	SHEET: 1
CHECK: D.H.R. 07-08	FILE: VIC_24-4	LAST UPDATE: 7/29/2008	

WOLVERINE GAS AND OIL COMPANY OF UTAH, LLC.
LOCATION LAYOUT FOR
PROVIDENCE FEDERAL 24-4
SECTION 24, T.20 S., R.1 E., S.L.B.& M.



LOCATION NOTES & EARTHWORK VOLUMES:
 PAD SURFACE AREA (INCLUDES PIT): 2.74 ACRES
 TOTAL DISTURBED AREA (INCLUDES APPROXIMATE SPOIL AREAS): 3.42 ACRES
 PIT CAPACITY (w/2' FREEBOARD): 29,387 bbls
 PAD RAW VOLUMES: CUT = 20,528 cy
 FILL = 12,410 cy
 PIT VOLUME: 9500 cy (INCLUDED ABOVE)
 REQ'D PAD FILL (25% SHRINK)= 15,513 cy
 NET (TOPSOIL & PIT SPOIL)= 5,015 cy

ELEV. UNGRADED GROUND AT PROVIDENCE FEDERAL 24-4 = 5488.0
 ELEV. GRADED GROUND AT PROVIDENCE FEDERAL 24-4 = 5490.75

Jones & DeMille Engineering 1555 South 100 West - Richfield, Utah 84701 Phone (435) 896-5255 Fax (435) 895-4288 www.jonesandmille.com		DESIGN: L.G. DRAWN: L.G. QUANT:	CHECK: L.G. CHECK:	REVIEW:	REVISIONS:
APPROVAL RECORD:	PROJECT DESIGN ENGINEER:	DATE:	DATE:	DATE:	DATE:
Wolverine Gas & Oil Co. of Utah, LLC Providence Federal 24-4 LOCATION EXHIBIT PROJECT NUMBER: 0802-037		COUNTY: SANPETE		SHEET NO. SP-01	
DWG CREATED: 06/20/2008 DWG NAME: 24_4-4 SHT SET: PROVIDENCE		PEN TBL:		8/8/2008 LAST UPDATE:	

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
4303930040	Providence Federal 24-4		SWSW	24	20S	1E	Sanpete
Action Code	Current Entity Number	New Entity Number	Spud Date			Entity Assignment Effective Date	
A	99999	17248	12/1/08			12/16/08	
Comments: <u>set conductor 12/1/08; drilling rig to move in at later date</u> <u>NAVA</u>							

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)

Helene Bardolph, Wolverine Gas and Oil

Name (Please Print)

Helene Bardolph

Signature

Engineering Administration

12/15/2008

Title

Date

RECEIVED
DEC 15 2008

(5/2000)

DIV. OF OIL, GAS & MINING

CONFIDENTIAL

Carol Daniels - Providence Federal 24-4 Update

T205 R01E 5-24 43-039-30040

From: "Rigsite 03"
To: , , , , "Daniels, Carol" , "Denny, Larry" , "Donovan, Bill" , "Edward Higuera" , "Emerson, Chuck" , , , , "Jerry Treybig" , , , "Letha John" , "McKee, Al" , , "Nilles, Chris" , , "Richardson, Jimmy Hotmail" , , "Smith, Anthony" , "Smuin, Troy" , , , , "Willis, Walton" , "Wilson, Jeremy"
Date: 1/11/2009 8:44 AM
Subject: Providence Federal 24-4 Update

Status @0730 1-11-09: MIRU SST Rig 68. Will set substructure & begin re-assembling derrick today.

Chuck Emerson
Wellsite Supervisor
Wolverine Gas & Oil
Providence Federal 24-4

Rig: (970) 361-3268
Cell: (970) 381-6233
Fax: (435) 979-9400
Email: rigsite03@exactengineering.com
(Any Replies Must Begin With Twist Canyon Federal 21-1 A In Subject Line)
Alternate Email: cemerson@prodigy.net

~~RECEIVED
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CONFIDENTIAL

Carol Daniels - Providence Federal 24-4 Update

TAOS ROLE 5-24 43-039-30040

From: "Rigsite 03"
To: , , , "Daniels, Carol" , "Denny, Larry" , "Donovan, Bill" , "Edward Higuera" , "Emerson, Chuck" , , , "Jerry Treybig" , , , "Letha John" , "McKee, Al" , , "Nilles, Chris" , , "Richardson, Jimmy Hotmail" , , "Smith, Anthony" , "Smuin, Troy" , , , "Willis, Walton" , "Wilson, Jeremy"
Date: 1/12/2009 12:06 PM
Subject: Providence Federal 24-4 Update

Status @ 11:00hrs 1-12-09: Assembling Derrick. Moving final components to site. Should raise derrick tomorrow.

Chuck Emerson
Wellsite Supervisor
Wolverine Gas & Oil
Providence Federal 24-4

Rig: (970) 361-3268
Cell: (970) 381-6233
Fax: (435) 979-9400
Alternate Email: cemerson@prodigy.net

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CONFIDENTIAL**Carol Daniels - Providence Federal 24-4 Update**

T205 ROLE S-24 43-039-30040

From: "Wolverine Exploration Rig"
To: "Bill Whitehead" , "Charlie Irons" , "Chris G" , "Chris Nilles" , "Daniels, Carol" ,
"Denny, Larry" , "Donovan, Bill" , "Edward Higuera" , "Emerson, Chuck" , "Halliburton
cementing" , "Jack Magill" , "Jeremy Wilson" , "Jerry Treybig" , "Jim Sparks" , "John
Vrona" , "Letha John" , "McKee, Al" , "Melinda Carpenter" , "Richard Blair" ,
"Richardson, Jimmy Hotmail" , "Sean Jones" , "Smith, Anthony" , "Smuin, Troy" , "Steve
Wilkinson" , "Tim McCoy" , "Tom Cecil" , "Travis Brashear" , "Willis, Walton" ,
"Wilson, Jeremy"
Date: 1/13/2009 9:07 AM
Subject: Providence Federal 24-4 Update

Status @ 0900: Final preparations to lift derrick. We have 90% of rig components set and are hoping for Friday spud. Please note changes to Wellsite email and fax numbers below.

Chuck Emerson
Wellsite Supervisor
Wolverine Gas & Oil
Providence Federal 24-4
SST Rig #68

Reply to : wolvexpl@drillmail.net
Rig : (970) 361-3268
Cell: (970) 381-6233
Rig Fax : (435) 304-0525

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WOLVERINE GAS & OIL CO.

PROVIDENCE FEDERAL 24-4 SST DRILLING RIG # 68

T205 ROIE S-24
API # 43-039-30040

DIRECTIONS From I-15 Going South:

Near Nephi Take Exit #222 to UT Hyw 28. Go 30 Miles South to Gunnison, UT
Turn Right on 300 North/US Hwy 89. Go 5.2 Miles to UT Hyw 137 in Centerfield
Turn Left Follow UT Hyw 137. Go 5.2 Miles thru Mayfield to end of Hyw 137.

Continue on County Road 4.2 Miles from end of pavement

Turn Right Through Cattle Guard.

Go 1 Mile & Pass Guarded Gate. Go 3/4 Mile Past Gate & Turn Right.

Go 1/4 Mile to Location.

DIRECTIONS From I-70 Going West:

Take Salina US 89 Exit # 56 North to Salina. Go 12 Miles to Centerfield/Gunnison
Turn Right on UT Hyw 137. Go 5.2 Miles thru Mayfield to end of Hyw 137.

Continue on County Road 4.2 Miles from end of pavement

Turn Right Through Cattle Guard.

Go 1 Mile & Pass Guarded Gate. Go 3/4 Mile Past Gate & Turn Right.

Go 1/4 Mile to Location.

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DIV. OF OIL, GAS & MINING

Do Not Drive Or Park Off Lease Roads Or Locations For Any Reason.

All Personnel Must Wear Hard Hat, Hard Toes & Safety Glasses.

Do Not Litter - You Pack It In - You Pack It Out!!!! Clean Up Your Own Mess.

Questions Or Problems Pease Call:

Bill Donovan	(970) 361-3268
Chuck Emerson	(970) 361-3268
SST Drilling Rig # 68	(970) 361-3269

CONFIDENTIAL**Carol Daniels - Providence Federal 24-4 Update**

T205 ROLF 5-24 43-039-30040

From: "Wolverine Exploration Rig"
To: "Bill Whitehead" , "Charlie Irons" , "Chris G" , "Chris Nilles" , "Daniels, Carol" ,
"Denny, Larry" , "Donovan, Bill" , "Edward Higuera" , "Emerson, Chuck" , "Halliburton
cementing" , "Jack Magill" , "Jeremy Wilson" , "Jerry Treybig" , "Jim Sparks" , "John
Vrona" , "Letha John" , "McKee, Al" , "Melinda Carpenter" , "Richard Blair" ,
"Richardson, Jimmy Hotmail" , "Sean Jones" , "Smith, Anthony" , "Smuin, Troy" , "Steve
Wilkinson" , "Tim McCoy" , "Tom Cecil" , "Travis Brashear" , "Willis, Walton" ,
"Wilson, Jeremy"
Date: 1/14/2009 10:56 AM
Subject: Providence Federal 24-4 Update

Status @1000hrs: Raising floor. Hooking up rig components. Will break tour Thursday.
Planning Spud on Friday

Chuck Emerson
Wellsite Supervisor
Wolverine Gas & Oil
Providence Federal 24-4
SST Rig #68

Reply to : wolvexpl@drillmail.net
Rig : (970) 361-3268
Cell: (970) 381-6233
Rig Fax : (435) 304-0525

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DIV. OF OIL, GAS & MINING

CONFIDENTIAL**Carol Daniels - Providence Federal 24-4 Surface Spud Notice***T 205 ROLE S-24**43-039-30040*

From: "Wolverine Exploration Rig"
To: "McKee, Al" , "Willis, Walton" , "Denny, Larry" , "Daniels, Carol" , "Dustin Doucet"
Date: 1/15/2009 8:58 AM
Subject: Providence Federal 24-4 Surface Spud Notice
CC: "Donovan, Bill" , "Edward Higuera" , "Jack Magill" ,

This email is being sent to provide notification of intent to Spud 17 ½" Surface Casing hole. We are planning to spud the Wolverine Gas & Oil - Providence Federal 24-4 sometime after 0900hrs tomorrow, January 16th, 2009. I will attempt to call in this notice as well. Should you have any questions please call.

Chuck Emerson
Wellsite Supervisor
Wolverine Gas & Oil
Providence Federal 24-4
SST Rig #68

Reply to : wolvexpl@drillmail.net
Rig : (970) 361-3268
Cell: (970) 381-6233
Rig Fax : (435) 304-0525

RECEIVED**JAN 15 2009****DIV. OF OIL, GAS & MINING**

Carol Daniels - Providence Federal 24-4 Update

TAOSROLE 5-24 43-039-30040

From: "Wolverine Exploration Rig"
To: "Blair, Richard" , "Carpenter, Melinda" , "Cecil, Tom" , "Cicirello, Chris" , "Cook, Tony" ,
"Daniels, Carol" , "Denny, Larry" , "Donovan, Bill" , "Edward Higuera" , "Emerson,
Chuck" , "Irons, Charlie" , "Jerry Treybig" , "Letha John" , "Magill, Jack" , "McKee, Al" ,
"Milligan, Randy" , "Nilles, Chris" , "Smuin, Troy" , "Spencer, Weston" , "Tim McCoy" ,
"Vrona, John" , "Whitehead, Bill" , "Wilkinson, Steve" , "Willis, Walton" , "Wilson,
Jeremy"
Date: 1/17/2009 8:26 AM
Subject: Providence Federal 24-4 Update

Status 0800hrs: Spud 1-16-09. Drilling 17 ½" Surface @ 380'.

Chuck Emerson
Wellsite Supervisor
Wolverine Gas & Oil
Providence Federal 24-4
SST Rig #68

Reply to : wolvexpl@drillmail.net
Rig : (970) 361-3268
Cell: (970) 381-6233
Rig Fax : (435) 304-0525

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T 205 R 01E 5-24

43-039-30040

Carol Daniels - Providence Federal 24-4 Surface Cement Notifications

From: "Wolverine Exploration Rig"
To: "Daniels, Carol" , "Denny, Larry" , "Higuera, Edward A." , "Jerry Treybig" , "Magill, Jack" ,
"McKee, Al" , "Willis, Walton" , "Willis, Walton Home"
Date: 1/17/2009 8:40 AM
Subject: Providence Federal 24-4 Surface Cement Notifications

We will be cementing our 13 3/8" Surface Casing sometime early tomorrow morning.
Please call if you require any further notification.

Chuck Emerson
Wellsite Supervisor
Wolverine Gas & Oil
Providence Federal 24-4
SST Rig #68

Reply to : wolvexpl@drillmail.net
Rig : (970) 361-3268
Cell: (970) 381-6233
Rig Fax : (435) 304-0525

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JAN 17 2009

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Carol Daniels - Providence Federal 24-4 Update

T 2051R01E S-24
43-039-30040

From: "Wolverine Exploration Rig"
To: "Donovan, Bill" , "Edward Higuera" , "Emerson, Chuck" , "Jack Magill" ,
Date: 1/17/2009 4:06 PM
Subject: Providence Federal 24-4 Update

Status @ 1600hrs: Drilling 17 ½" Surface Hole @ 480'.

Chuck Emerson
Wellsite Supervisor
Wolverine Gas & Oil
Providence Federal 24-4
SST Rig #68

Reply to : wolvexpl@drillmail.net
Rig : (970) 361-3268
Cell: (970) 381-6233
Rig Fax : (435) 304-0525

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Carol Daniels - Providence Federal 24-4 Update

From: "Wolverine Exploration Rig"
To: "Blair, Richard" , "Carpenter, Melinda" , "Cecil, Tom" , "Cicirello, Chris" , "Cook, Tony" ,
"Daniels, Carol" , "Denny, Larry" , "Donovan, Bill" , "Edward Higuera" , "Emerson,
Chuck" , "Irons, Charlie" , "Jerry Treybig" , "Letha John" , "Magill, Jack" , "McKee, Al" ,
"Milligan, Randy" , "Nilles, Chris" , "Smuin, Troy" , "Spencer, Weston" , "Tim McCoy" ,
"Vrona, John" , "Whitehead, Bill" , "Wilkinson, Steve" , "Willis, Walton" , "Wilson,
Jeremy"
Date: 1/18/2009 11:41 AM
Subject: Providence Federal 24-4 Update

Status @ 1130hrs: 991' Ave 75'/hour. Should TD 17 ½" Surface hole @ approx 2000' by AM.

Chuck Emerson
Wellsite Supervisor
Wolverine Gas & Oil
Providence Federal 24-4
SST Rig #68

Reply to : wolvexpl@drillmail.net
Rig : (970) 361-3268
Cell: (970) 381-6233
Rig Fax : (435) 304-0525

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T205R01E 5-24
43-039-310040

Carol Daniels - Providence Federal 24-4 Update

From: "Wolverine Exploration Rig"
To: "Blair, Richard" , "Carpenter, Melinda" , "Cecil, Tom" , "Cicirello, Chris" , "Daniels, Carol" , "Denny, Larry" , "Donovan, Bill" , "Edward Higuera" , "Emerson, Chuck" , "Irons, Charlie" , "Jerry Treybig" , "Letha John" , "Magill, Jack" , "McCoy, Charlene" , "McKee, Al" , "Milligan, Randy" , "Nilles, Chris" , "Smuin, Troy" , "Spencer, Weston" , "Tim McCoy" , "Tony E. Cook" , "Vrona, John" , "Whitehead, Bill" , "Wilkinson, Steve" , "Willis, Walton" , "Wilson, Jeremy"
Date: 1/19/2009 7:52 AM
Subject: Providence Federal 24-4 Update

Status @ 0800: Drilling 17 ½" Surface Hole @ 1180'. Had to Trip f/ Stabilization.

Chuck Emerson
Wellsite Supervisor
Wolverine Gas & Oil
Providence Federal 24-4
SST Rig #68

Reply to : wolvexpl@drillmail.net
Rig : (970) 361-3268
Cell: (970) 381-6233
Rig Fax : (435) 304-0525

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TROS ROLE 5-24

43-039-30040

Carol Daniels - Providence Federal 24-4 PM Update

From: "Wolverine Exploration Rig"
To: "Blair, Richard" , "Carpenter, Melinda" , "Cecil, Tom" , "Cicirello, Chris" , "Daniels, Carol" , "Denny, Larry" , "Donovan, Bill" , "Edward Higuera" , "Emerson, Chuck" , "Irons, Charlie" , "Jerry Treybig" , "Magill, Jack" , "McCoy, Charlene" , "McKee, Al" , "Milligan, Randy" , "Nilles, Chris" , "Smuin, Troy" , "Spencer, Weston" , "Tim McCoy" , "Tony E. Cook" , "Vrona, John" , "Whitehead, Bill" , "Willis, Walton"
Date: 1/19/2009 4:04 PM
Subject: Providence Federal 24-4 PM Update

Status @ 1600hrs: Could TD 17 ½” Sometime tomorrow morning.

Chuck Emerson
Wellsite Supervisor
Wolverine Gas & Oil
Providence Federal 24-4
SST Rig #68

Reply to : wolvexpl@drillmail.net
Rig : (970) 361-3268
Cell: (970) 381-6233
Rig Fax : (435) 304-1222

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JAN 19 2009

DIV. OF OIL, GAS & MINING

T 205 ROIES-24
43-039-30040**Carol Daniels - Providence Federal 24-4 Update**

From: "Wolverine Exploration Rig"
To: "Blair, Richard" , "Carpenter, Melinda" , "Cecil, Tom" , "Cicirello, Chris" , "Daniels, Carol" , "Denny, Larry" , "Donovan, Bill" , "Edward Higuera" , "Emerson, Chuck" , "Irons, Charlie" , "Jerry Treybig" , "Magill, Jack" , "McCoy, Charlene" , "McKee, Al" , "Milligan, Randy" , "Nilles, Chris" , "Smuin, Troy" , "Spencer, Weston" , "Tim McCoy" , "Tony E. Cook" , "Vrona, John" , "Whitehead, Bill" , "Willis, Walton"
Date: 1/20/2009 7:11 AM
Subject: Providence Federal 24-4 Update

Status @ 0700hrs: Drilling 17 1/2" hole @ 1775'.. Should TD Surface @ 1500hrs. Will be running 13 3/8" casing this PM.

Chuck Emerson
Wellsite Supervisor
Wolverine Gas & Oil
Providence Federal 24-4
SST Rig #68

Reply to : wolvexpl@drillmail.net
Rig : (970) 361-3268
Cell: (970) 381-6233
Rig Fax : (435) 304-1222

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T 205 ROIE 5-24
43-039-30040

Carol Daniels - Providence Federal 24-4 BOP Test

From: "Wolverine Exploration Rig"
To: "Daniels, Carol" , "Denny, Larry" , "Higuera, Edward A." , "Jerry Treybig" , "Magill, Jack" ,
"McKee, Al" , "Willis, Walton" , "Willis, Walton Home"
Date: 1/22/2009 10:35 AM
Subject: Providence Federal 24-4 BOP Test
CC: "Donovan, Bill" , "Emerson, Chuck"

We should be testing BOP's by 1500hr today at the earliest.
Should you require any further notification or have any question, please.

Chuck Emerson
Wellsite Supervisor
Wolverine Gas & Oil
Providence Federal 24-4
SST Rig #68

Reply to : wolvexpl@drillmail.net
Rig : (970) 361-3268
Cell: (970) 381-6233
Rig Fax : (435) 304-1222

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T205 ROIE 5-24
43-039-30040

Carol Daniels - Providence Federal 24-4 Update

From: "Wolverine Exploration Rig"
To: "Blair, Richard" , "Carpenter, Melinda" , "Cecil, Tom" , "Cicirello, Chris" , "Daniels, Carol" , "Denny, Larry" , "Donovan, Bill" , "Edward Higuera" , "Emerson, Chuck" , "Irons, Charlie" , "Jerry Treybig" , "Jones, Mark" , "Karlen, Link" , "Kollar, Johnathan" , "Magill, Jack" , "McCoy, Charlene" , "McKee, Al" , "Milligan, Randy" , "Nilles, Chris" , "Roberts, Jerrod C" , "Smuin, Troy" , "Spencer, Weston" , "Tim McCoy" , "Tony E. Cook" , "Vrona, John" , "Whitehead, Bill" , "Willis, Walton"
Date: 1/26/2009 5:07 PM
Subject: Providence Federal 24-4 Update

Status @ 1700hrs 1-26-09: Drilling 12 ¼" Hole @ 2300'

Bill Donovan
Wolverine Gas & Oil
Providence Federal 24-4
SST Rig #68

Reply to : wolvexpl@drillmail.net
Rig : (970) 361-3268
Cell: (970) 381-6233
Rig Fax : (435) 304-1222

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Carol Daniels - Providence Federal 24-4 Update

T20S ROIES-24 43-039-30040

From: "Wolverine Exploration Rig"
To: "Blair, Richard" , "Carpenter, Melinda" , "Cecil, Tom" , "Cicirello, Chris" , "Daniels, Carol" , "Denny, Larry" , "Donovan, Bill" , "Edward Higuera" , "Emerson, Chuck" , "Irons, Charlie" , "Jerry Treybig" , "Jones, Mark" , "Magill, Jack" , "McKee, Al" , "Nilles, Chris" , "Revert, Scott" , "Roberts, Jerrod C" , "Smuin, Troy" , "Spencer, Weston" , "Tim McCoy" , "Tony E. Cook" , "Vrona, John" , "Whitehead, Bill" , "Willis, Walton"
Date: 2/4/2009 3:07 PM
Subject: Providence Federal 24-4 Update

Status @ 1500hrs: PU Bit #3 & TIH to continue drilling @ 6787'

Chuck Emerson
Wellsite Supervisor
Wolverine Gas & Oil
Providence Federal 24-4
SST Rig #68

Reply to : wolvexpl@drillmail.net
Rig : (970) 361-3268
Cell: (970) 381-6233
Rig Fax : (435) 304-1222

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Carol Daniels - Providence Federal 24-4 Update. T20S R O I E S-24 43-039-30040

From: "Wolverine Exploration Rig"
To: "Blair, Richard" , "Carpenter, Melinda" , "Cecil, Tom" , "Cicirello, Chris" , "Daniels, Carol" , "Denny, Larry" , "Donovan, Bill" , "Edward Higuera" , "Emerson, Chuck" , "Irons, Charlie" , "Jerry Treybig" , "Jones, Mark" , "Magill, Jack" , "McKee, Al" , "Nilles, Chris" , "Revert, Scott" , "Roberts, Jerrod C" , "Smuin, Troy" , "Spencer, Weston" , "Tim McCoy" , "Tony E. Cook" , "Vrona, John" , "Whitehead, Bill" , "Willis, Walton"
Date: 2/5/2009 7:13 AM
Subject: Providence Federal 24-4 Update.

Status @ 0700: Drilling @ 6863'. 9 5/8" casing Point Approx 9400'.

Chuck Emerson
Wellsite Supervisor
Wolverine Gas & Oil
Providence Federal 24-4
SST Rig #68

Reply to : wolvexpl@drillmail.net
Rig : (970) 361-3268
Cell: (970) 381-6233
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Carol Daniels - Providence Federal 24-4 Update *TAOS ROIE S-24 43-039-30d40*

From: "Wolverine Exploration Rig"
To: "Blair, Richard" , "Carpenter, Melinda" , "Cecil, Tom" , "Cicirello, Chris" , "Daniels, Carol" , "Denny, Larry" , "Donovan, Bill" , "Edward Higuera" , "Emerson, Chuck" , "Helco, John" , "Irons, Charlie" , "Jerry Treybig" , "Jones, Mark" , "Magill, Jack" , "McKee, Al" , "Nilles, Chris" , "Revert, Scott" , "Roberts, Jerrod C" , "Smuin, Troy" , "Spencer, Weston" , "Tim McCoy" , "Tony E. Cook" , "Vrona, John" , "Whitehead, Bill" , "Willis, Walton"
Date: 2/11/2009 7:37 AM
Subject: Providence Federal 24-4 Update

Status @ 0730hrs: Tripping out to LD Mud Motor @ 8356' f/ Hole Conditioning.

Chuck Emerson
Wellsite Supervisor
Wolverine Gas & Oil
Providence Federal 24-4
SST Rig #68

Reply to : wolvexpl@drillmail.net
Rig : (970) 361-3268
Cell: (970) 381-6233
Rig Fax : (435) 304-1222

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Carol Daniels - Providence Federal 24-4 Update T 205 ROIE S-24 43-039-30040

From: "Wolverine Exploration Rig"
To: "Blair, Richard" , "Carpenter, Melinda" , "Cecil, Tom" , "Cicirello, Chris" , "Daniels, Carol" , "Denny, Larry" , "Donovan, Bill" , "Edward Higuera" , "Emerson, Chuck" , "Helco, John" , "Irons, Charlie" , "Jerry Treybig" , "Jones, Mark" , "Magill, Jack" , "McKee, Al" , "Nilles, Chris" , "Revert, Scott" , "Roberts, Jerrod C" , "Smuin, Troy" , "Spencer, Weston" , "Tim McCoy" , "Tony E. Cook" , "Vrona, John" , "Whitehead, Bill" , "Willis, Walton"
Date: 2/12/2009 8:10 AM
Subject: Providence Federal 24-4 Update

Status @ 0800: Tripping f/ VertiTrak & PDC @ 8388' (Possible 9 5/8" Casing Point is 9450').

Chuck Emerson
Wellsite Supervisor
Wolverine Gas & Oil
Providence Federal 24-4
SST Rig #68

Reply to : wolvexpl@drillmail.net
Rig : (970) 361-3268
Cell: (970) 381-6233
Rig Fax : (435) 304-1222

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Carol Daniels - Providence Federal 24-4 Update

T205 ROLE S-24 43-039-30040

From: "Wolverine Exploration Rig"
To: "Blair, Richard" , "Carpenter, Melinda" , "Cecil, Tom" , "Cicirello, Chris" , "Daniels, Carol" , "Denny, Larry" , "Donovan, Bill" , "Edward Higuera" , "Emerson, Chuck" , "Helco, John" , "Irons, Charlie" , "Jerry Treybig" , "Jones, Mark" , "Magill, Jack" , "McKee, Al" , "Nilles, Chris" , "Revert, Scott" , "Roberts, Jerrod C" , "Smuin, Troy" , "Spencer, Weston" , "Tim McCoy" , "Tony E. Cook" , "Vrona, John" , "Whitehead, Bill" , "Willis, Walton"
Date: 2/13/2009 7:01 AM
Subject: Providence Federal 24-4 Update

Status @ 0700: Drilling @ 8520' w/ PDC. Est. Csg Point 9450'

Chuck Emerson
Wellsite Supervisor
Wolverine Gas & Oil
Providence Federal 24-4
SST Rig #68

Reply to : wolvexpl@drillmail.net
Rig : (970) 361-3268
Cell: (970) 381-6233
Rig Fax : (435) 304-1222

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DIV. OF OIL, GAS & MINING

Carol Daniels - Providence Federal 24-4 Update

T205 R01E S-24 43-039-30040

From: "Wolverine Exploration Rig"
To: "Blair, Richard" , "Carpenter, Melinda" , "Cecil, Tom" , "Cicirello, Chris" , "Daniels, Carol" , "Denny, Larry" , "Donovan, Bill" , "Edward Higuera" , "Emerson, Chuck" , "Helco, John" , "Irons, Charlie" , "Jerry Treybig" , "Jones, Mark" , "Magill, Jack" , "McKee, Al" , "Nilles, Chris" , "Revert, Scott" , "Roberts, Jerrod C" , "Smuin, Troy" , "Spencer, Weston" , "Tim McCoy" , "Tony E. Cook" , "Vrona, John" , "Whitehead, Bill" , "Willis, Walton"
Date: 2/14/2009 8:56 AM
Subject: Providence Federal 24-4 Update

Status @ 0900: Drilling Twin Creek @ 8755'. Could top Navajo tonight..

Chuck Emerson
Wellsite Supervisor
Wolverine Gas & Oil
Providence Federal 24-4
SST Rig #68

Reply to : wolvexpl@drillmail.net
Rig : (970) 361-3268
Cell: (970) 381-6233
Rig Fax : (435) 304-1222

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Carol Daniels - Providence Federal 24-4 Update

T205 R01E S-24 43-039-30040

From: "Wolverine Exploration Rig"
To: "Blair, Richard" , "Carpenter, Melinda" , "Cecil, Tom" , "Cicirello, Chris" , "Daniels, Carol" , "Denny, Larry" , "Donovan, Bill" , "Edward Higuera" , "Emerson, Chuck" , "Helco, John" , "Irons, Charlie" , "Jerry Treybig" , "Jones, Mark" , "Magill, Jack" , "McKee, Al" , "Nilles, Chris" , "Revert, Scott" , "Roberts, Jerrod C" , "Smuin, Troy" , "Spencer, Weston" , "Tim McCoy" , "Tony E. Cook" , "Vrona, John" , "Whitehead, Bill" , "Willis, Walton"
Date: 2/15/2009 8:32 AM
Subject: Providence Federal 24-4 Update

Status @ 0830hrs: Trip f/ Bit @ 8880'. CP still 9450'

Chuck Emerson
Wellsite Supervisor
Wolverine Gas & Oil
Providence Federal 24-4
SST Rig #68

Reply to : wolvexpl@drillmail.net
Rig : (970) 361-3268
Cell: (970) 381-6233
Rig Fax : (435) 304-1222

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DIV. OF OIL, GAS & MINING

Carol Daniels - Providence Federal 24-4 Update T 203 ROLF S-24 43-039-30040

From: "Wolverine Exploration Rig"
To: "Blair, Richard" , "Carpenter, Melinda" , "Cecil, Tom" , "Cicirello, Chris" , "Daniels, Carol" , "Denny, Larry" , "Donovan, Bill" , "Edward Higuera" , "Emerson, Chuck" , "Helco, John" , "Irons, Charlie" , "Jerry Treybig" , "Jones, Mark" , "Magill, Jack" ; "McKee, Al" , "Nilles, Chris" , "Revert, Scott" , "Roberts, Jerrod C" , "Smuin, Troy" , "Spencer, Weston" , "Tim McCoy" , "Tony E. Cook " , "Vrona, John" , "Whitehead, Bill" , "Willis, Walton"
Date: 2/16/2009 7:48 AM
Subject: Providence Federal 24-4 Update

Status @ 0800hrs: Drilling @ 8936' – Could TD 12 ¼ Hole in next 24 hours

Chuck Emerson
Wellsite Supervisor
Wolverine Gas & Oil
Providence Federal 24-4
SST Rig #68

Reply to : wolvexpl@drillmail.net
Rig : (970) 361-3268
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DIV. OF OIL, GAS & MINING

Carol Daniels - Providence Federal 24-4 Update

T205 R01E S-24 43-039-30040

From: "Wolverine Exploration Rig"
To: "Blair, Richard" , "Carpenter, Melinda" , "Cecil, Tom" , "Cicirello, Chris" , "Daniels, Carol" , "Denny, Larry" , "Donovan, Bill" , "Edward Higuera" , "Emerson, Chuck" , "Helco, John" , "Irons, Charlie" , "Jeff Carney" , "Jerry Treybig" , "Jones, Mark" , "Magill, Jack" , "McKee, Al" , "Nilles, Chris" , "Revert, Scott" , "Roberts, Jerrod C" , "Smuin, Troy" , "Spencer, Weston" , "Tim McCoy" , "Tony E. Cook" , "Travis Brashear" , "Vrona, John" , "Whitehead, Bill" , "Willis, Walton"
Date: 2/18/2009 4:56 PM
Subject: Providence Federal 24-4 Update

2/18/2009 4:52 PM

We are reaming to bottom with a new bit. Current depth is 8,977'. Casing point is about 9,450'. Drilling is typically 10 FPH in this section of the hole.

Bill Donovan
Wolverine Gas & Oil
Providence Federal 24-4
SST Rig #68

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DIV. OF OIL, GAS & MINING

Carol Daniels - Providence Federal 24-4 T209 ROIE S-24 43-039-30040

From: "Wolverine Exploration Rig"
To: "Blair, Richard" , "Carpenter, Melinda" , "Cecil, Tom" , "Cicirello, Chris" , "Daniels, Carol" , "Denny, Larry" , "Donovan, Bill" , "Edward Higuera" , "Emerson, Chuck" , "Helco, John" , "Irons, Charlie" , "Jeff Carney" , "Jerry Treybig" , "Jones, Mark" , "Magill, Jack" , "McKee, Al" , "Nilles, Chris" , "Revert, Scott" , "Roberts, Jerrod C" , "Smuin, Troy" , "Spencer, Weston" , "Tim McCoy" , "Tony E. Cook" , "Travis Brashear" , "Vrona, John" , "Whitehead, Bill" , "Willis, Walton"
Date: 2/19/2009 4:05 AM
Subject: Providence Federal 24-4

2/19/2009 4:01 AM

Drilling at 9.060'; 12 FPH, Casing Point 9,450'?

Bill Donovan
Wolverine Gas & Oil
Providence Federal 24-4
SST Rig #68

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DIV. OF OIL, GAS & MINING

Carol Daniels - Providence Federal 24-4 *T205 R01E S-24 43 039-30040*

From: "Wolverine Exploration Rig"
To: "Blair, Richard" , "Carpenter, Melinda" , "Cecil, Tom" , "Cicirello, Chris" , "Daniels, Carol" , "Denny, Larry" , "Donovan, Bill" , "Edward Higuera" , "Emerson, Chuck" , "Helco, John" , "Irons, Charlie" , "Jeff Carney" , "Jerry Treybig" , "Jones, Mark" , "Magill, Jack" , "McKee, Al" , "Nilles, Chris" , "Revert, Scott" , "Roberts, Jerrod C" , "Smuin, Troy" , "Spencer, Weston" , "Tim McCoy" , "Tony E. Cook" , "Travis Brashear" , "Vrona, John" , "Whitehead, Bill" , "Willis, Walton"
Date: 2/19/2009 4:12 PM
Subject: Providence Federal 24-4

2/19/2009 4:08 PM

Drilling at 9,282' @ 10 FPH

Has been drilling at 20-30 FPH most of day.

Casing point is at 9,450'. May be logging late Friday or early Saturday

Bill Donovan
Wolverine Gas & Oil
Providence Federal 24-4
SST Rig #68

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Carol Daniels - Providence Federal 24-4 Update

T205 ROIE S-24 43-039-30040

From: "Wolverine Exploration Rig"

To: "Blair, Richard" , "Carpenter, Melinda" , "Cecil, Tom" , "Cicirello, Chris" , "Daniels, Carol" , "Denny, Larry" , "Donovan, Bill" , "Edward Higuera" , "Emerson, Chuck" , "Helco, John" , "Irons, Charlie" , "Jeff Carney" , "Jerry Treybig" , "Jones, Mark" , "Magill, Jack" , "McKee, Al" , "Nilles, Chris" , "Revert, Scott" , "Roberts, Jerrod C" , "Smuin, Troy" , "Spencer, Weston" , "Tim McCoy" , "Tony E. Cook" , "Travis Brashear" , "Vrona, John" , "Whitehead, Bill" , "Willis, Walton"

Date: 2/19/2009 9:24 PM

Subject: Providence Federal 24-4 Update

2/19/2009 9:15 PM

Drilling at 9,341'. Firm Casing Point 9,440'. Drilling 15-20 FPH. Should TD in early AM

Bill Donovan
Wolverine Gas & Oil
Providence Federal 24-4
SST Rig #68

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Carol Daniels - Providence Federal 24-4 Update Revised!!!! *T 205 R 01E 5-24 43-039-30040*

From: "Wolverine Exploration Rig"

To: "Blair, Richard" , "Carpenter, Melinda" , "Cecil, Tom" , "Cicirello, Chris" , "Daniels, Carol" , "Denny, Larry" , "Donovan, Bill" , "Edward Higuera" , "Emerson, Chuck" , "Helco, John" , "Irons, Charlie" , "Jeff Carney" , "Jerry Treybig" , "Jones, Mark" , "Magill, Jack" , "McKee, Al" , "Nilles, Chris" , "Revert, Scott" , "Roberts, Jerrod C" , "Smuin, Troy" , "Spencer, Weston" , "Tim McCoy" , "Tony E. Cook " , "Travis Brashear" , "Vrona, John" , "Whitehead, Bill" , "Willis, Walton"

Date: 2/20/2009 8:42 AM

Subject: Providence Federal 24-4 Update Revised!!!!

2/20/2009 8:40 AM

Casing Point is 9,399' which is our current depth. The plan is to trip for logs.

Bill Donovan
Wolverine Gas & Oil
Providence Federal 24-4
SST Rig #68

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Date: 2/20/2009 9:20 PM
Subject: Providence Federal 24-4 Update

2/20/2009 9:20 PM

Halliburton's DLL tool is not functioning. Now trouble shooting the DLL. If not repaired Sonic XRMI will be run first.

Bill Donovan
Wolverine Gas & Oil
Providence Federal 24-4
SST Rig #68

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Carol Daniels - Providence Federal 24-4 *TAOS ROLE S-24 43-039-30040*

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Date: 2/21/2009 12:34 PM
Subject: Providence Federal 24-4

2/21/2009 12:31 PM

Logging should take another 3 days.

Bill Donovan
Wolverine Gas & Oil
Providence Federal 24-4
SST Rig #68

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Carol Daniels - Providence Federal 24-4 Update *TAOS ROLE 5-24 43-039-30046*

From: "Wolverine Exploration Rig"
To: "Blair, Richard" , "Carpenter, Melinda" , "Cecil, Tom" , "Cicirello, Chris" , "Daniels, Carol" , "Denny, Larry" , "Donovan, Bill" , "Edward Higuera" , "Emerson, Chuck" , "Helco, John" , "Irons, Charlie" , "Jeff Carney" , "Jerry Treybig" , "Jones, Mark" , "Magill, Jack" , "McKee, Al" , "Nilles, Chris" , "Revert, Scott" , "Roberts, Jerrod C" , "Smuin, Troy" , "Spencer, Weston" , "Tim McCoy" , "Tony E. Cook " , "Travis Brashear" , "Vrona, John" , "Whitehead, Bill" , "Willis, Walton"
Date: 2/22/2009 12:10 PM
Subject: Providence Federal 24-4 Update

Logging will take another 3 days.

Bill Donovan
Wolverine Gas & Oil
Providence Federal 24-4
SST Rig #68

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Carol Daniels - Providence Federal 24-4 Update *T205 R01E S-24 43-039-30040*

From: "Wolverine Exploration Rig"
To: "Blair, Richard" , "Carpenter, Melinda" , "Cecil, Tom" , "Cicirello, Chris" , "Daniels, Carol" , "Denny, Larry" , "Donovan, Bill" , "Edward Higuera" , "Emerson, Chuck" , "Helco, John" , "Irons, Charlie" , "Jeff Carney" , "Jerry Treybig" , "Jones, Mark" , "Magill, Jack" , "McKee, Al" , "Nilles, Chris" , "Revert, Scott" , "Roberts, Jerrod C" , "Smuin, Troy" , "Spencer, Weston" , "Tim McCoy" , "Tony E. Cook" , "Travis Brashear" , "Vrona, John" , "Whitehead, Bill" , "Willis, Walton"
Date: 2/23/2009 12:18 PM
Subject: Providence Federal 24-4 Update

2/23/2009 12:16 PM

Starting Sidewall core operation. Start casing in about 2 days

Bill Donovan
Wolverine Gas & Oil
Providence Federal 24-4
SST Rig #68

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FEB 23 2009

DIV. OF OIL, GAS & MINING

Carol Daniels - Providence Federal 24-4 *T 205 ROLF 9-24 43-039-30040*

From: "Wolverine Exploration Rig"
To: "Blair, Richard" , "Carpenter, Melinda" , "Cecil, Tom" , "Cicirello, Chris" , "Daniels, Carol" , "Denny, Larry" , "Donovan, Bill" , "Edward Higuera" , "Emerson, Chuck" , "Helco, John" , "Irons, Charlie" , "Jeff Carney" , "Jerry Treybig" , "Jones, Mark" , "Magill, Jack" , "McKee, Al" , "Nilles, Chris" , "Revert, Scott" , "Roberts, Jerrod C" , "Smuin, Troy" , "Spencer, Weston" , "Tim McCoy" , "Tony E. Cook" , "Travis Brashear" , "Vrona, John" , "Whitehead, Bill" , "Willis, Walton"
Date: 2/24/2009 1:26 AM
Subject: Providence Federal 24-4

2/24/2009 1:24 AM

Logging is nearly finished. We will make a clean out run with the bit and start to run casing.

Bill Donovan
Wolverine Gas & Oil
Providence Federal 24-4
SST Rig #68

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FEB 24 2009

DIV. OF OIL, GAS & MINING

Carol Daniels - Providence Federal 24-4

TAOS ROLE S-24 43-039-30040

From: "Wolverine Exploration Rig"
To: "Blair, Richard" , "Carpenter, Melinda" , "Cecil, Tom" , "Cicirello, Chris" , "Daniels, Carol" , "Denny, Larry" , "Donovan, Bill" , "Edward Higuera" , "Emerson, Chuck" , "Helco, John" , "Irons, Charlie" , "Jeff Carney" , "Jerry Treybig" , "Jones, Mark" , "Magill, Jack" , "McKee, Al" , "Nilles, Chris" , "Revert, Scott" , "Roberts, Jerrod C" , "Smuin, Troy" , "Spencer, Weston" , "Tim McCoy" , "Tony E. Cook" , "Travis Brashear" , "Vrona, John" , "Whitehead, Bill" , "Willis, Walton"
Date: 2/24/2009 4:57 PM
Subject: Providence Federal 24-4

2/24/2009 4:55 PM

Currently side wall coring. It will take a 1 or so days to condition the mud for running casing.

Bill Donovan
Wolverine Gas & Oil
Providence Federal 24-4
SST Rig #68

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Carol Daniels - Providence Federal 24-4

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From: "Wolverine Exploration Rig"
To: "Blair, Richard" , "Carpenter, Melinda" , "Cecil, Tom" , "Cicirello, Chris" , "Daniels, Carol" , "Denny, Larry" , "Donovan, Bill" , "Edward Higuera" , "Emerson, Chuck" , "Helco, John" , "Irons, Charlie" , "Jeff Carney" , "Jerry Treybig" , "Jones, Mark" , "Magill, Jack" , "McKee, Al" , "Nilles, Chris" , "Revert, Scott" , "Roberts, Jerrod C" , "Smuin, Troy" , "Spencer, Weston" , "Tim McCoy" , "Tony E. Cook" , "Travis Brashear" , "Vrona, John" , "Whitehead, Bill" , "Willis, Walton"
Date: 2/24/2009 9:39 PM
Subject: Providence Federal 24-4

Finished coring. Will TIH, breaking circulation every 10 stands, condition hole and trip out. Expect to be running casing in 20-30 hours.

Bill Donovan
Wolverine Gas & Oil
Providence Federal 24-4
SST Rig #68

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Carol Daniels - Providence Federal 24-4

T205 ROIES-24 43-039-30040

From: "Wolverine Exploration Rig"
To: "Daniels, Carol" , "Denny, Larry" , "Higuera, Edward A." , "Jerry Treybig" , "Jones, Mark" ,
"Magill, Jack" , "McKee, Al" , "Willis, Walton" , "Willis, Walton Home"
Date: 2/24/2009 9:55 PM
Subject: Providence Federal 24-4

2/24/2009 9:49 PM

Hello,

This memo and follow up telephone calls are 24 hour notification of the running and cementing of the 9 5/8" intermediate casing to a depth of approximately 9,399'.

Bill Donovan
Wolverine Gas & Oil
Providence Federal 24-4
SST Rig #68

Reply to : wolvexpl@drillmail.net

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To: "Blair, Richard" , "Carpenter, Melinda" , "Cecil, Tom" , "Cicirello, Chris" , "Daniels, Carol" , "Denny, Larry" , "Donovan, Bill" , "Edward Higuera" , "Emerson, Chuck" , "Helco, John" , "Irons, Charlie" , "Jeff Carney" , "Jerry Treybig" , "Jones, Mark" , "Magill, Jack" , "McKee, Al" , "Nilles, Chris" , "Revert, Scott" , "Roberts, Jerrod C" , "Smuin, Troy" , "Spencer, Weston" , "Tim McCoy" , "Tony E. Cook" , "Travis Brashear" , "Vrona, John" , "Whitehead, Bill" , "Willis, Walton"
Date: 2/25/2009 1:49 PM
Subject: Providence Federal 24-4 Update

2/25/2009 1:45 PM

Running to bottom, bit depth 8,655.
Plan to circulate on bottom, TOH and run casing

Halliburton tool man and Kimsey casing crew called out. Tenaris/Hydril Field man on location.
Larry Denny called and was update.

Bill Donovan
Wolverine Gas & Oil
Providence Federal 24-4
SST Rig #68

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Carol Daniels - Providence Federal 24-4

TAOS ROLE 5-24 43-039-30040

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To: "Blair, Richard" , "Carpenter, Melinda" , "Cecil, Tom" , "Cicirello, Chris" , "Daniels, Carol" , "Denny, Larry" , "Donovan, Bill" , "Edward Higuera" , "Emerson, Chuck" , "Helco, John" , "Irons, Charlie" , "Jeff Carney" , "Jerry Treybig" , "Jones, Mark" , "Magill, Jack" , "McKee, Al" , "Nilles, Chris" , "Revert, Scott" , "Roberts, Jerrod C" , "Smuin, Troy" , "Spencer, Weston" , "Tim McCoy" , "Tony E. Cook" , "Travis Brashear" , "Vrona, John" , "Whitehead, Bill" , "Willis, Walton"
Date: 2/26/2009 4:04 PM
Subject: Providence Federal 24-4

2/26/2009 4:02 PM

Running casing at about 5,000'

Bill Donovan
Wolverine Gas & Oil
Providence Federal 24-4
SST Rig #68

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Carol Daniels - Providence Federal 24-4

T 205 R01E 5-24 43-039-30040

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To: "Blair, Richard" , "Carpenter, Melinda" , "Cecil, Tom" , "Cicirello, Chris" , "Daniels, Carol" , "Denny, Larry" , "Donovan, Bill" , "Edward Higuera" , "Emerson, Chuck" , "Helco, John" , "Irons, Charlie" , "Jeff Carney" , "Jerry Treybig" , "Jones, Mark" , "Magill, Jack" , "McKee, Al" , "Nilles, Chris" , "Revert, Scott" , "Roberts, Jerrod C" , "Smuin, Troy" , "Spencer, Weston" , "Tim McCoy" , "Tony E. Cook" , "Travis Brashear" , "Vrona, John" , "Whitehead, Bill" , "Willis, Walton"
Date: 2/27/2009 11:25 PM
Subject: Providence Federal 24-4

2/27/2009 11:24 PM

Circulating between stages.

Bill Donovan
Wolverine Gas & Oil
Providence Federal 24-4
SST Rig #68

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Carol Daniels - Providence Federal 24-4 TAOS ROLE S-24 43-039-30040

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To: "Blair, Richard" , "Carpenter, Melinda" , "Cecil, Tom" , "Cicirello, Chris" , "Daniels, Carol" , "Denny, Larry" , "Donovan, Bill" , "Edward Higuera" , "Emerson, Chuck" , "Helco, John" , "Irons, Charlie" , "Jeff Carney" , "Jerry Treybig" , "Jones, Mark" , "Magill, Jack" , "McKee, Al" , "Nilles, Chris" , "Revert, Scott" , "Roberts, Jerrod C" , "Smuin, Troy" , "Spencer, Weston" , "Tim McCoy" , "Tony E. Cook" , "Travis Brashear" , "Vrona, John" , "Whitehead, Bill" , "Willis, Walton"
Date: 3/16/2009 10:30 AM
Subject: Providence Federal 24-4

3/16/2009 10:25 AM

Hi,

The anticipated TD of this well is 13,400'. We are currently tripping for a new bit at 11,590'. Drilling has average between 5-10 FPH at this interval.

Bill Donovan
Wolverine Gas & Oil
Providence Federal 24-4
SST Rig #68

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DIV. OF OIL, GAS & MINING

TAOS ROIE S-24
43-039-30040

CONFIDENTIAL

From: "Wolverine Exploration Rig" <wolvexpl@drillmail.net>
To: "Blair, Richard" <Richard.Blair2@Halliburton.com>, "Carpenter, Melinda" ...
Date: 3/17/2009 6:21 AM
Subject: Providence Federal 24-4

3/17/2009 6:19 AM

Drilling ate 11,602'. Feet Per Hour (FPH) 8-12

Bill Donovan

Wolverine Gas & Oil

Providence Federal 24-4

SST Rig #68

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CONFIDENTIAL

Carol Daniels - Providence Federal 24-4 Update

T20S ROLE S-24 43-039-3040

From: "Wolverine Exploration Rig"
To: "Bert Hart" , "Blair, Richard" , "Carpenter, Melinda" , "Cecil, Tom" , "Cicirello, Chris" ,
 ""Daniels, Carol"" , ""Denny, Larry"" , ""Donovan, Bill"" , ""Edward Higuera"" , ""Emerson,
 Chuck"" , "Helco, John" , "Irons, Charlie" , "Jeff Carney" , ""Jerry Treybig"" , "Jones, Mark" ,
 "Magill, Jack" , "McKee, Al" , "Nilles, Chris" , "Revert, Scott" , "Roberts, Jerrod C" ,
 ""Smuin, Troy"" , "Spencer, Weston" , "Tim McCoy" , "Tony E. Cook " , "Travis Brashear" ,
 "Vrona, John" , "Whitehead, Bill" , ""Willis, Walton""
Date: 3/19/2009 4:20 PM
Subject: Providence Federal 24-4 Update

3/19/2009 4:18 PM

Depth 11,973', ROP 7-10 FPH. Estimated TD 13,400'

Bill Donovan
 Wolverine Gas & Oil
 Providence Federal 24-4
 SST Rig #68

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MAR 19 2009

DIV. OF OIL, GAS & MINING

CONFIDENTIAL**Carol Daniels - Providence Federal 24-4 Update***T205 ROIE S-24 43-039-30040*

From: "Wolverine Exploration Rig"
To: "Bert Hart" , "Blair, Richard" , "Carpenter, Melinda" , "Cecil, Tom" , "Cicirello, Chris" ,
"Daniels, Carol" , "Denny, Larry" , "Donovan, Bill" , "Edward Higuera" , "Emerson,
Chuck" , "Helco, John" , "Irons, Charlie" , "Jeff Carney" , "Jerry Treybig" , "Jones, Mark" ,
"Magill, Jack" , "McKee, Al" , "Nilles, Chris" , "Revert, Scott" , "Roberts, Jerrod C" ,
"Smuin, Troy" , "Spencer, Weston" , "Tim McCoy" , "Tony E. Cook" , "Travis Brashear" ,
"Vrona, John" , "Whitehead, Bill" , "Willis, Walton"
Date: 3/22/2009 4:42 AM
Subject: Providence Federal 24-4 Update

3/22/2009 4:40 AM

Drilling at 12,482'. ROP 4-6 FPH. TD may be revised from 13,400 to 13,000'

Bill Donovan
Wolverine Gas & Oil
Providence Federal 24-4
SST Rig #68

Reply to : wolvexpl@drillmail.net

Put the well name and number in the Subject when responding to e-mails

Rig : (970) 361-3268

Rig: (970) 361-3269 alternative

Cell: (720) 351-7470

Rig Fax : (435) 304-1222

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Carol Daniels - Providence Federal 24-4 Update

T 20S R01E S-24 43-039-30040

From: "Wolverine Exploration Rig"
To: "Bert Hart" , "Blair, Richard" , "Carpenter, Melinda" , "Cecil, Tom" , "Cicirello, Chris" ,
 "Daniels, Carol" , "Denny, Larry" , "Donovan, Bill" , "Edward Higuera" , "Emerson,
 Chuck" , "Helco, John" , "Irons, Charlie" , "Jeff Carney" , "Jerry Treybig" , "Jones, Mark" ,
 "Magill, Jack" , "McKee, Al" , "Nilles, Chris" , "Revert, Scott" , "Roberts, Jerrod C" ,
 "Smuin, Troy" , "Spencer, Weston" , "Tim McCoy" , "Tony E. Cook" , "Travis Brashear" ,
 "Vrona, John" , "Whitehead, Bill" , "Willis, Walton"
Date: 3/23/2009 8:08 AM
Subject: Providence Federal 24-4 Update

3/23/2009 8:06 AM

Drilling at 12,783. ROP 10 FPH. Permitted TD 13.400'

Bill Donovan
 Wolverine Gas & Oil
 Providence Federal 24-4
 SST Rig #68

Reply to : wolvexpl@drillmail.net

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CONFIDENTIAL**Carol Daniels - Providence Federal 24-4 Update**

T 205 1301E S-24 43-039-30040

From: "Wolverine Exploration Rig"
To: "Bert Hart" , "Blair, Richard" , "Carpenter, Melinda" , "Cecil, Tom" , "Cicirello, Chris" ,
"Daniels, Carol" , "Denny, Larry" , "Donovan, Bill" , "Edward Higuera" , "Emerson,
Chuck" , "Helco, John" , "Irons, Charlie" , "Jeff Carney" , "Jerry Treybig" , "Jones, Mark" ,
"Magill, Jack" , "McKee, Al" , "Nilles, Chris" , "Revert, Scott" , "Roberts, Jerrod C" ,
"Smuin, Troy" , "Spencer, Weston" , "Tim McCoy" , "Tony E. Cook" , "Travis Brashear" ,
"Vrona, John" , "Whitehead, Bill" , "Willis, Walton"
Date: 3/24/2009 7:20 AM
Subject: Providence Federal 24-4 Update

Drilling @ 13,040'. TD still 13,400' but could change.

Chuck Emerson
Wellsite Supervisor
Wolverine Gas & Oil
Providence Federal 24-4
SST Rig #68

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Cell: (970) 381-6233
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Carol Daniels - Providence Federal 24-4 Update *T205 ROIE S-24 43-039-30040*

From: "Wolverine Exploration Rig"
To: "Blair, Richard" , "Carpenter, Melinda" , "Cicirello, Chris" , "Daniels, Carol" , "Donovan, Bill" , "Edward Higuera" , "Helco, John" , "Irons, Charlie" , "Jeff Carney" , "Jerry Treybig" , "Magill, Jack" , "McKee, Al" , "Nilles, Chris" , "Revert, Scott" , "Roberts, Jerrod C" , "Smuin, Troy" , "Spencer, Weston" , "Tim McCoy" , "Tony E. Cook" , "Travis Brashear" , "Vrona, John" , "Whitehead, Bill"
Date: 3/24/2009 3:22 PM
Subject: Providence Federal 24-4 Update

Status @ 1520hrs: Drilling @ 13,126'. Strong possibility of extending TD another 1000' to 14,400'.

Chuck Emerson
Wellsite Supervisor
Wolverine Gas & Oil
Providence Federal 24-4
SST Rig #68

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Carol Daniels - Providence Federal 24-4 Update *T 205 R 01E S24 API # 43-039-30040*

From: "Wolverine Exploracion Rig"
To: "Bert Hart" , "Blair, Richard" , "Carpenter, Melinda" , "Cecil, Tom" , "Cicirello, Chris" ,
"Daniels, Carol" , "Denny, Larry" , "Donovan, Bill" , "Edward Higuera" , "Emerson,
Chuck" , "Helco, John" , "Irons, Charlie" , "Jeff Carney" , "Jerry Treybig" , "Jones, Mark" ,
"Magill, Jack" , "McKee, Al" , "Nilles, Chris" , "Revert, Scott" , "Roberts, Jerrod C" ,
"Smuin, Troy" , "Spencer, Weston" , "Tim McCoy" , "Tony E. Cook " , "Travis Brashear" ,
"Vrona, John" , "Whitehead, Bill" , "Willis, Walton"
Date: 3/27/2009 7:02 AM
Subject: Providence Federal 24-4 Update

Status @ 0700: Depth 13,330' - Tripping Out to LD TruTrak Motor Prior To Cleanout Run.

Chuck Emerson
Wellsite Supervisor
Wolverine Gas & Oil
Providence Federal 24-4
SST Rig #68

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Cell: (970) 381-6233
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Carol Daniels - Providence Federal 24-4 Update

TAOS 2015 5-24 API # 43-039-30040

From: "Wolverine Exploration Rig"
To: "Bert Hart" , "Blair, Richard" , "Carpenter, Melinda" , "Cecil, Tom" , "Cicirello, Chris" ,
 ""Daniels, Carol"" , ""Denny, Larry"" , ""Donovan, Bill"" , ""Edward Higuera"" , ""Emerson,
 Chuck"" , "Helco, John" , "Irons, Charlie" , "Jeff Carney" , "Jerry Treybig" , "Jones, Mark" ,
 "Magill, Jack" , "McKee, Al" , "Nilles, Chris" , "Revert, Scott" , "Roberts, Jerrod C" ,
 ""Smuin, Troy"" , "Spencer, Weston" , "Tim McCoy" , "Tony E. Cook " , "Travis Brashear" ,
 "Vrona, John" , "Whitehead, Bill" , ""Willis, Walton""
Date: 3/28/2009 7:01 AM
Subject: Providence Federal 24-4 Update

Status 0700: Cleanout to Bottom w/o Mud Motor.

Chuck Emerson
Wellsite Supervisor
Wolverine Gas & Oil
Providence Federal 24-4
SST Rig #68

Reply to : wolvexpl@drillmail.net
Rig : (970) 361-3268
Cell: (970) 381-6233
Rig Fax : (435) 304-1222

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MAR 2 / 2009

DIV. OF OIL, GAS & MINING

Carol Daniels - Providence Federal 24-4 BOP Test *TAOS ROLF 524 APD #43-039-30045*

From: "Wolverine Exploration Rig"
To: "Bert Hart" , "Daniels, Carol" , "Denny, Larry" , "Jones, Mark" , "McKee, Al" , "Willis, Walton" , "Willis, Walton Home"
Date: 3/28/2009 9:25 PM
Subject: Providence Federal 24-4 BOP Test
CC: "Donovan, Bill" , "Edward Higuera" , "Emerson, Chuck" , "Jack Magill" ,

This is to provide advance Notice of Intent to test the BOP stack on the Providence Federal 24-4 / SST Energy Rig #68.

This test is to comply with the 30 day testing requirement in our APD. We will be out of the hole at some point in the next

24 hours. I will give as much advance notice as possible, but it could be 6-8 hours notice. I've already called Al McKee

& will notify you by email. If you need a call or directions, just reply & let me know.

Thank You,

Chuck

Chuck Emerson
Wellsite Supervisor
Wolverine Gas & Oil
Providence Federal 24-4
SST Rig #68

Reply to : wolvexpl@drillmail.net

Rig : (970) 361-3268

Cell: (970) 381-6233

Rig Fax : (435) 304-1222

RECEIVED

MAR 28 2009

DIV. OF OIL, GAS & MINING

Carol Daniels - Providence Federal 24-4 Update *T205 R01E 524 ADP# 43-039-30048*

From: "Wolverine Exploration Rig"
To: "Bert Hart" , "Blair, Richard" , "Carpenter, Melinda" , "Cecil, Tom" , "Cicirello, Chris" ,
"Daniels, Carol" , "Denny, Larry" , "Donovan, Bill" , "Edward Higuera" , "Emerson,
Chuck" , "Helco, John" , "Irons, Charlie" , "Jeff Carney" , "Jerry Treybig" , "Jones, Mark" ,
"Magill, Jack" , "McKee, Al" , "Nilles, Chris" , "Revert, Scott" , "Roberts, Jerrod C" ,
"Smuin, Troy" , "Spencer, Weston" , "Tim McCoy" , "Tony E. Cook" , "Travis Brashear" ,
"Vrona, John" , "Whitehead, Bill" , "Willis, Walton"
Date: 3/29/2009 2:30 PM
Subject: Providence Federal 24-4 Update

Status @ 1430hrs: Cleaning out & Conditioning Hole @ 13,330'. Plan is to clean & stabilize hole, TOOH, Test BOP & TIH w/ TruTrak to Resume drilling to 14,400'TD.

Chuck Emerson
Wellsite Supervisor
Wolverine Gas & Oil
Providence Federal 24-4
SST Rig #68

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MAR 29 2009
DIV. OF OIL, GAS & MINING

Carol Daniels - Providence Federal 24-4 T205R01E S24 API# 43-039-30040

From: "Wolverine Exploration Rig"
To: "Bert Hart" , "Blair, Richard" , "Carpenter, Melinda" , "Cecil, Tom" , "Cicirello, Chris" ,
"Daniels, Carol" , "Denny, Larry" , "Donovan, Bill" , "Edward Higuera" , "Emerson,
Chuck" , "Helco, John" , "Irons, Charlie" , "Jeff Carney" , "Jerry Treybig" , "Jones, Mark" ,
"Magill, Jack" , "McKee, Al" , "Nilles, Chris" , "Revert, Scott" , "Roberts, Jerrod C" ,
"Smuin, Troy" , "Spencer, Weston" , "Tim McCoy" , "Tony E. Cook" , "Travis Brashear" ,
"Vrona, John" , "Whitehead, Bill" , "Willis, Walton"
Date: 3/31/2009 7:14 AM
Subject: Providence Federal 24-4

0715 Status: RU Halliburton Loggers to Run OH Logs. Anticipate 2-3 Days Logging. Will Evaluate Drilling Ahead Based On Log Info. Will Test BOP Following Logging.

Chuck Emerson
Wellsite Supervisor
Wolverine Gas & Oil
Providence Federal 24-4
SST Rig #68

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Cell: (970) 381-6233
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MAR 31 2009

DIV. OF OIL, GAS & MINING

Carol Daniels - Providence Federal 24-4 Update *T 205 R01E 924 API# 43-039-30040*

From: "Wolverine Exploration Rig"
To: "Bert Hart" , "Blair, Richard" , "Carpenter, Melinda" , "Cecil, Tom" , "Cicirello, Chris" ,
"Daniels, Carol" , "Denny, Larry" , "Donovan, Bill" , "Edward Higuera" , "Emerson,
Chuck" , "Helco, John" , "Irons, Charlie" , "Jeff Carney" , "Jerry Treybig" , "Jones, Mark" ,
"Magill, Jack" , "McKee, Al" , "Nilles, Chris" , "Revert, Scott" , "Roberts, Jerrod C" ,
"Smuin, Troy" , "Spencer, Weston" , "Tim McCoy" , "Tony E. Cook" , "Travis Brashear" ,
"Vrona, John" , "Whitehead, Bill" , "Willis, Walton"
Date: 4/1/2009 7:20 AM
Subject: Providence Federal 24-4 Update

0700 Status: Open Hole Logging/Coring – Will Run Cased Hole Log Following OH Logs – BOP
Test To Follow Cased Hole Log

Chuck Emerson
Wellsite Supervisor
Wolverine Gas & Oil
Providence Federal 24-4
SST Rig #68

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Carol Daniels - Providence Federal 24-4 Update *T205 R01E-524 API-#43-039-30046*

From: "Wolverine Exploration Rig"
To: "Bert Hart" , "Blair, Richard" , "Carpenter, Melinda" , "Cecil, Tom" , "Cicirello, Chris" ,
"Daniels, Carol" , "Denny, Larry" , "Donovan, Bill" , "Edward Higuera" , "Emerson,
Chuck" , "Helco, John" , "Irons, Charlie" , "Jeff Carney" , "Jerry Treybig" , "Jones, Mark" ,
"Magill, Jack" , "McKee, Al" , "Nilles, Chris" , "Revert, Scott" , "Roberts, Jerrod C" ,
"Smuin, Troy" , "Spencer, Weston" , "Tim McCoy" , "Tony E. Cook" , "Travis Brashear" ,
"Vrona, John" , "Whitehead, Bill" , "Willis, Walton"
Date: 4/2/2009 7:20 AM
Subject: Providence Federal 24-4 Update

0730 Status: Cut Sidewall Cores Prior to Drilling to Possible TD @ 14,400'

Chuck Emerson
Wellsite Supervisor
Wolverine Gas & Oil
Providence Federal 24-4
SST Rig #68

Reply to : wolvexpl@drillmail.net
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Cell: (970) 381-6233
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Carol Daniels - Providence Federal 24-4 Update *T 205 ROIE 524 API#43-039-30040*

From: "Wolverine Exploration Rig"
To: "Bert Hart" , "Blair, Richard" , "Carpenter, Melinda" , "Cecil, Tom" , "Cicirello, Chris" ,
"Daniels, Carol" , "Denny, Larry" , "Donovan, Bill" , "Edward Higuera" , "Emerson,
Chuck" , "Helco, John" , "Irons, Charlie" , "Jeff Carney" , "Jerry Treybig" , "Jones, Mark" ,
"Magill, Jack" , "McKee, Al" , "Nilles, Chris" , "Revert, Scott" , "Roberts, Jerrod C" ,
"Smuin, Troy" , "Spencer, Weston" , "Tim McCoy" , "Tony E. Cook" , "Travis Brashear" ,
"Vrona, John" , "Whitehead, Bill" , "Willis, Walton"
Date: 4/3/2009 7:04 AM
Subject: Providence Federal 24-4 Update

0700 Status: Circulating & Conditioning Mud @ Casing Shoe Prior to Cleanout To Bottom

Chuck Emerson
Wellsite Supervisor
Wolverine Gas & Oil
Providence Federal 24-4
SST Rig #68

Reply to : wolvexpl@drillmail.net
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Cell: (970) 381-6233
Rig Fax : (435) 304-1222

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APR 03 2009

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Carol Daniels - Providence Federal 24-4 Update *TAOS ROLE 524 APE#43-037-30046*

From: "Wolverine Exploration Rig"
To: "Bert Hart" , "Blair, Richard" , "Carpenter, Melinda" , "Cecil, Tom" , "Cicirello, Chris" ,
 ""Daniels, Carol"" , ""Denny, Larry"" , ""Donovan, Bill"" , ""Edward Higuera"" , ""Emerson,
 Chuck"" , "Helco, John" , "Irons, Charlie" , "Jeff Carney" , "Jerry Treybig" , "Jones, Mark" ,
 "Magill, Jack" , "McKee, Al" , "Nilles, Chris" , "Revert, Scott" , "Roberts, Jerrod C" ,
 ""Smuin, Troy"" , "Spencer, Weston" , "Tim McCoy" , "Tony E. Cook" , "Travis Brashear" ,
 "Vrona, John" , "Whitehead, Bill" , ""Willis, Walton""
Date: 4/4/2009 7:56 AM
Subject: Providence Federal 24-4 Update

0800 Status: Circ & Cond Hole @ 12,200' Prior To Cleaning Out to Current TD of 13,330'

Chuck Emerson
Wellsite Supervisor
Wolverine Gas & Oil
Providence Federal 24-4
SST Rig #68

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Cell: (970) 381-6233
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APR 04 2009
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Carol Daniels - Providence Federal 24-4 Update *T 205R01E S24 APT # 43-039-30040*

From: "Wolverine Exploration Rig"
To: "Bert Hart" , "Blair, Richard" , "Carpenter, Melinda" , "Cecil, Tom" , "Cicirello, Chris" ,
"Daniels, Carol" , "Denny, Larry" , "Donovan, Bill" , "Edward Higuera" , "Emerson,
Chuck" , "Helco, John" , "Irons, Charlie" , "Jeff Carney" , "Jerry Treybig" , "Jones, Mark" ,
"Magill, Jack" , "McKee, Al" , "Nilles, Chris" , "Revert, Scott" , "Roberts, Jerrod C" ,
"Smuin, Troy" , "Spencer, Weston" , "Tim McCoy" , "Tony E. Cook" , "Travis Brashear" ,
"Vrona, John" , "Whitehead, Bill" , "Willis, Walton"
Date: 4/6/2009 9:56 AM
Subject: Providence Federal 24-4 Update

0930 Status: Circulate & Condition Hole to Run 7 5/8" 33.7#, P-110, Vam FJL Liner.

Chuck Emerson
Wellsite Supervisor
Wolverine Gas & Oil
Providence Federal 24-4
SST Rig #68

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Carol Daniels - Providence Federal 24-4 Update *T 205 R 01 E 574 APR 43-031-30046*

From: "Wolverine Exploration Rig"
To: "Bert Hart" , "Blair, Richard" , "Carpenter, Melinda" , "Cecil, Tom" , "Cicirello, Chris" ,
"Daniels, Carol" , "Denny, Larry" , "Donovan, Bill" , "Edward Higuera" , "Emerson,
Chuck" , "Helco, John" , "Irons, Charlie" , "Jeff Carney" , "Jerry Treybig" , "Jones, Mark" ,
"Magill, Jack" , "McKee, Al" , "Nilles, Chris" , "Revert, Scott" , "Roberts, Jerrod C" ,
"Smuin, Troy" , "Spencer, Weston" , "Tim McCoy" , "Tony E. Cook" , "Travis Brashear" ,
"Vrona, John" , "Whitehead, Bill" , "Willis, Walton"
Date: 4/7/2009 7:33 AM
Subject: Providence Federal 24-4 Update

0730 Status: Circ & Cond Hole. Prep to Run 7 5/8" FJ Liner.

Chuck Emerson
Wellsite Supervisor
Wolverine Gas & Oil
Providence Federal 24-4
SST Rig #68

Reply to : wolvexpl@drillmail.net
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Carol Daniels - Providence Federal 24-4 Update

T 205 ROLF S 24 APR 13-039-30046

From: "Wolverine Exploration Rig"
To: "Bert Hart" , "Carpenter, Melinda" , "Cecil, Tom" , "Cicirello, Chris" , "Daniels, Carol" ,
 ""Denny, Larry"" , ""Donovan, Bill"" , ""Edward Higuera"" , ""Emerson, Chuck"" , "Helco,
 John" , "Irons, Charlie" , ""Jerry Treybig"" , "Jones, Mark" , "Magill, Jack" , ""McKee, Al"" ,
 "Revert, Scott" , "Roberts, Jerrod C" , "Tim McCoy" , "Tony E. Cook " , "Travis Brashear" ,
 "Vrona, John" , ""Willis, Walton"" , "Helco, John" , "Arthurs, Shane"
Date: 4/8/2009 7:21 AM
Subject: Providence Federal 24-4 Update

0700 Status: Short Trip to Prep f/ Running 7 5/8" Liner Early Thursday

Chuck Emerson
Wellsite Supervisor
Wolverine Gas & Oil
Providence Federal 24-4
SST Rig #68

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Carol Daniels - Providence Federal 24-4 Update

TAOS ROLE 524 APE# 43-039-30048

From: "Wolverine Exploration Rig"
To: "Bert Hart" , "Blair, Richard" , "Carpenter, Melinda" , "Cecil, Tom" , "Cicirello, Chris" ,
"Daniels, Carol" , "Denny, Larry" , "Donovan, Bill" , "Edward Higuera" , "Emerson,
Chuck" , "Helco, John" , "Irons, Charlie" , "Jeff Carney" , "Jerry Treybig" , "Jones, Mark" ,
"Magill, Jack" , "McKee, Al" , "Nilles, Chris" , "Revert, Scott" , "Roberts, Jerrod C" ,
"Smuin, Troy" , "Spencer, Weston" , "Tim McCoy" , "Tony E. Cook" , "Travis Brashear" ,
"Vrona, John" , "Whitehead, Bill" , "Willis, Walton"
Date: 4/9/2009 7:36 AM
Subject: Providence Federal 24-4 Update

0715 Status: Circ & Cond Hole f/ Liner. WO Vam Rep. ETA 14:00 will Start in HoleThen.

Chuck Emerson
Wellsite Supervisor
Wolverine Gas & Oil
Providence Federal 24-4
SST Rig #68

Reply to : wolvexpl@drillmail.net
Rig : (970) 361-3268
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Carol Daniels - Providence Federal 24-4 Update

T 205 ROIE 524 API # 43-039-30046

From: "Wolverine Exploration Rig"

To: "Haggarty, Jerry" , "Fisher, Mike" , "Cody Slaugh" , , "Cicirello, Chris" , "Bert Hart" , "Blair, Richard" , "Carpenter, Melinda" , "Cecil, Tom" , ""Daniels, Carol"" , ""Denny, Larry"" , ""Donovan, Bill"" , ""Edward Higuera"" , ""Emerson, Chuck"" , "Helco, John" , "Irons, Charlie" , "Jeff Carney" , ""Jerry Treybig"" , "Jones, Mark" , "Magill, Jack" , ""McKee, Al"" , "Nilles, Chris" , "Revert, Scott" , "Roberts, Jerrod C" , ""Smuin, Troy"" , "Spencer, Weston" , "Tim McCoy" , "Tony E. Cook" , "Travis Brashear" , "Vrona, John" , "Whitehead, Bill" , ""Willis, Walton""

Date: 4/10/2009 6:58 AM

Subject: Providence Federal 24-4 Update

0700 Status: Running 7 5/8" Liner @ 800'. Will Cement Tonight.

Chuck Emerson
Wellsite Supervisor
Wolverine Gas & Oil
Providence Federal 24-4
SST Rig #68

Reply to : wolvexpl@drillmail.net
Rig : (970) 361-3268
Cell: (970) 381-6233
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APR 10 2009

DIV. OF OIL, GAS & MINING

Carol Daniels - Providence Federal 24-4 BOP Test

T 205 ROLF 524 API-#43-039-3004

From: "Wolverine Exploration Rig"
To: "Bert Hart" , "Daniels, Carol" , "Denny, Larry" , "Higuera, Edward A." , "Jones, Mark" ,
"Magill, Jack" , "McKee, Al" , "Treybig, Jerry" , "Willis, Walton" , "Willis, Walton Home"
Date: 4/10/2009 10:44 AM
Subject: Providence Federal 24-4 BOP Test
CC: "Donovan, Bill" , "Emerson, Chuck"

After installing a set of variable pipe rams for the tapered drill string required to drill out from under our liner, we will re-test the BOP stack to 5000psi sometime tomorrow afternoon. We will also conduct a leak-of test after drilling 10' of new hole.

Chuck Emerson
Wellsite Supervisor
Wolverine Gas & Oil
Providence Federal 24-4
SST Rig #68

Reply to : wolvexpl@drillmail.net
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Carol Daniels - Providence Federal 24-4

T 209 R 01E 524 API# 43-039-30046

From: "Wolverine Exploration Rig"

To: "Bert Hart" , "Blair, Richard" , "Carpenter, Melinda" , "Cecil, Tom" , "Cicirello, Chris" , "Cody Slauch" , "Cook, Tony" , "Daniels, Carol" , "Denny, Larry" , "Donovan, Bill" , "Ellis M. Peterson P.E." , "Emerson, Chuck" , "Haggarty, Jerry" , "Higuera, Edward A." , "Irons, Charlie" , "Jones, Mark" , "Knight, Randy" , "Magill, Jack" , "McKee, Al" , "Palmer, Russell" , "Revert, Scott" , , "Sean Jones" , "Smuin, Troy" , "Spencer, Weston" , "Treybig, Jerry" , "Vrona, John" , "Willis, Walton" , "Willis, Walton Home" , "Well Info"

Date: 4/11/2009 8:50 AM

Subject: Providence Federal 24-4

0845 Status: Circulating & Condition Hole f/ Cementing

Chuck Emerson
Wellsite Supervisor
Wolverine Gas & Oil
Providence Federal 24-4
SST Rig #68

Reply to : wolvexpl@drillmail.net
Rig : (970) 361-3268
Cell: (970) 381-6233
Rig Fax : (435) 304-1222

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DIV. OF OIL, GAS & MINING

CONFIDENTIAL

Carol Daniels - Providence Federal 24-4 Update *T205 ROLF 524 API # 48-039-30040*

From: "Wolverine Exploration Rig"
To: "Bert Hart" , "Blair, Richard" , "Carpenter, Melinda" , "Cecil, Tom" , "Cicirello, Chris" ,
 "Cody Slauch" , "Cook, Tony" , "Daniels, Carol" , "Denny, Larry" , "Donovan, Bill" , "Ellis
 M. Peterson P.E." , "Emerson, Chuck" , "Haggarty, Jerry" , "Higuera, Edward A." , "Irons,
 Charlie" , "Jones, Mark" , "Knight, Randy" , "Magill, Jack" , "McKee, Al" , "Palmer,
 Russell" , "Revert, Scott" , , "Sean Jones" , "Smuin, Troy" , "Spencer, Weston" , "Treybig,
 Jerry" , "Vrona, John" , "Willis, Walton" , "Willis, Walton Home" , "March, Seth" , "Fisher,
 Mike" , "Nilles, Chris" , "Cicirello, Chris" , "Cody Slauch" , "Sean Jones" , "Jim Sparks"
Date: 4/11/2009 5:15 PM
Subject: Providence Federal 24-4 Update

1700 Status: Circulating & Conditioning Hole For Cementing Liner.

Chuck Emerson
Wellsite Supervisor
Wolverine Gas & Oil
Providence Federal 24-4
SST Rig #68

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DIV. OF OIL, GAS & MINING

Carol Daniels - BOP Test

T 205 1301E S24 APP #43-039-30040

From: "Wolverine Exploration Rig"
To: "Willis, Walton Home" , "Denny, Larry" , "Daniels, Carol" , "Denny, Larry" , "Hart, Bert" ,
"McKee, Al" , "Jones, Mark"
Date: 4/12/2009 9:55 AM
Subject: BOP Test

We should be re-testing BOP sometime this evening after 2100hrs when we install a set of variable pipe ram blocks.

Chuck Emerson
Wellsite Supervisor
Wolverine Gas & Oil
Providence Federal 24-4
SST Rig #68

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Carol Daniels - Providence Federal 24-4 Update

T205 R01E 524 API-# 43-089-30046

From: "Wolverine Exploration Rig"
To: "Blair, Richard" , "Carpenter, Melinda" , "Cecil, Tom" , "Cicirello, Chris" , "Cook, Tony" ,
"Daniels, Carol" , "Denny, Larry" , "Donovan, Bill" , "Emerson, Chuck" , "Fisher, Mike" ,
"Haggarty, Jerry" , "Hart, Bert" , "Higuera, Edward A." , "Irons, Charlie" , "Jones, Mark" ,
"Knight, Randy" , "Kruger, Rob" , "Magill, Jack" , "McKee, Al" , "Nilles, Chris" , "Palmer,
Russell" , "Peterson, Ellis" , "Revert, Scott" , "Sparks, Jim" , "Treybig, Jerry" , "Vrona,
John" , "Willis, Walton" , "Willis, Walton Home"
Date: 4/13/2009 6:59 AM
Subject: Providence Federal 24-4 Update

0700 Status: Testing BOP Prior To Cleaning Out Liner To PBTD & Running V-Cast CBL.

Chuck Emerson
Wellsite Supervisor
Wolverine Gas & Oil
Providence Federal 24-4
SST Rig #68

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Carol Daniels - Providence Federal 24-4 Update *TAOS R#15 521 APE# 43-039-30040*

From: "Wolverine Exploration Rig"
To: "Blair, Richard" , "Carpenter, Melinda" , "Cecil, Tom" , "Cicirello, Chris" , "Cook, Tony" ,
"Daniels, Carol" , "Denny, Larry" , "Donovan, Bill" , "Emerson, Chuck" , "Fisher, Mike" ,
"Haggarty, Jerry" , "Hart, Bert" , "Higuera, Edward A." , "Irons, Charlie" , "Jones, Mark" ,
"Knight, Randy" , "Kruger, Rob" , "Magill, Jack" , "McKee, Al" , "Nilles, Chris" , "Palmer,
Russell" , "Peterson, Ellis" , "Revert, Scott" , "Sparks, Jim" , "Treybig, Jerry" , "Vrona,
John" , "Willis, Walton" , "Willis, Walton Home"
Date: 4/14/2009 8:17 AM
Subject: Providence Federal 24-4 Update

0815 Status: TOOH w/ 8 ½" Bit – Will TIH w/ 6 ½" Bit To Clean Liner Out To PBTD.

Chuck Emerson
Wellsite Supervisor
Wolverine Gas & Oil
Providence Federal 24-4
SST Rig #68

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APR 14 2009
DIV. OF OIL, GAS & MINING

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

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

CONFIDENTIAL

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)
At Surface: 975' FSL, 41' FWL, being in SW4SW4

5. Lease Serial No.
UTU-80907

6. If Indian, Allottee or Tribe Name
NA

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

8. Well Name and No. **Providence**
Wolverine Federal Arapien Valley 24-4

9. API Well No.
43-039-30040

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

11. County or Parish, State
Sanpete County, Utah

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

TYPE OF SUBMISSION	TYPE OF ACTION			
<input checked="" type="checkbox"/> Notice of Intent	<input type="checkbox"/> Acidize	<input checked="" 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 type="checkbox"/> Change Plans	<input type="checkbox"/> Plug and Abandon	<input type="checkbox"/> Temporarily Abandon	
	<input type="checkbox"/> Convert to Injection	<input type="checkbox"/> Plug Back	<input type="checkbox"/> Water Disposal	

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

This Sundry covers the request to drill the Providence Federal 24-4 to 14,400', which is 1000' deeper than originally approved depth in the APD. The additional 1000' is needed to fully evaluate target horizons, as proposed in the original APD. The request to drill deeper is based on Wolverine's on-going evaluation of mud logs and recently obtained open-hole electric logs. In preparation of drilling to the newly proposed TD, we are also requesting approval to run 7-5/8" drilling liner. The request to drill deeper and to set the liner has been provided to Al McKee, BLM, and he has already granted verbal approval covering these operations.

Wolverine has drilled the Providence Federal 24-4 to 13,340'. During drilling, we have encountered evidence that formation pressures in the lower part of the Providence Federal 24-4 could be higher than the pressures normally found in the same zones in other wells in the area. The presence of higher than normal pressures was confirmed when it was necessary to increase the mud weight from 9.0 lb/gal to 9.3 lb/gal to control an influx of gas at 11,851 ft., in the Middle Moenkopi. In the Arapien Valley 24-1, this formation was drilled with an 8.5 lb/gal mud with no reports of gas. At 13,330 ft., it was necessary to raise the mud weight to 9.3 lb/gal to control gas. Approved by the

Additional description on attached page.

Utah Division of
Oil, Gas and Mining

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APR 16 2009

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

Edward A. Higuera

Signature

Edward A. Higuera

Date: **04-27-09**

By: *[Signature]*
Title: **Manager, Development**

Date: **04/10/2009**

DIV. OF OIL, GAS & MINING

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

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

Title _____ Date _____

Office _____

COPY SENT TO OPERATOR

Date: **4-28-2009**

Initials: **KS**

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

(Instructions on page 2)

CONFIDENTIAL

Carol Daniels - Providence Federal 24-4 Update *T205R01E 524 API#43 039-30048*

From: "Wolverine Exploration Rig"
To: "Blair, Richard" , "Carpenter, Melinda" , "Cecil, Tom" , "Cicirello, Chris" , "Cook, Tony" ,
"Daniels, Carol" , "Denny, Larry" , "Donovan, Bill" , "Emerson, Chuck" , "Fisher, Mike" ,
"Haggarty, Jerry" , "Hart, Bert" , "Hendricks, Marvin" , "Higuera, Edward A." , "Irons,
Charlie" , "Jones, Mark" , "Knight, Randy" , "Kruger, Rob" , "Magill, Jack" , "McKee, Al" ,
"Nilles, Chris" , "Palmer, Russell" , "Peterson, Ellis" , "Revert, Scott" , "Sparks, Jim" ,
"Treybig, Jerry" , "Vrona, John" , "Willis, Walton" , "Willis, Walton Home"
Date: 4/17/2009 1:42 AM
Subject: Providence Federal 24-4 Update

4/17/2009 1:40 AM

Drilling rig being repaired.

Plan to condition mud. TIH. Drill shoe and run FIT test in next 24 hours.

Bill Donovan
Wolverine Gas & Oil
Providence Federal 24-4
SST Rig #68

Reply to : wolvexpl@drillmail.net
Put the well name and number in the Subject when responding to e-mails
Rig : (970) 361-3268
Rig: (970) 361-3269 alternative
Cell: (720) 351-7470
Rig Fax : (435) 304-1222

RECEIVED
APR 17 2009
DIV. OF OIL, GAS & MINING

Carol Daniels - Providence Federal 24-4 Notification of FIT test. *T205 ROIE S 24 APR#43-037-30040*

From: "Wolverine Exploration Rig"
To: "Daniels, Carol" , "Denny, Larry" , "Hart, Bert" , "Higuera, Edward A." , "Jones, Mark" ,
"Magill, Jack" , "McKee, Al" , "Treybig, Jerry" , "Willis, Walton" , "Willis, Walton Home" ,
"Hendricks, Marvin"
Date: 4/17/2009 1:51 AM
Subject: Providence Federal 24-4 Notification of FIT test.

4/17/2009 1:43 AM

This is formal notification of our plans to run a FIT test on the 7 5/8" liner run.

The rig is currently being repaired.

Prior to running the FIT test, repairs must be finished, the mud must be conditioned and the cement shoe must be drilled. It is anticipated these operations should take between 24 and 48 hours. Updates on timing will be issued as the timing becomes more certain.

Bill Donovan
Wolverine Gas & Oil
Providence Federal 24-4
SST Rig #68

Reply to : wolvexpl@drillmail.net
Put the well name and number in the Subject when responding to e-mails
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Carol Daniels - Providence Federal 24-4 Update *T205 R01E S24 APF #43039-30040*

From: "Wolverine Exploration Rig"
To: "Blair, Richard" , "Carpenter, Melinda" , "Cecil, Tom" , "Cicirello, Chris" , "Cook, Tony" ,
"Daniels, Carol" , "Denny, Larry" , "Donovan, Bill" , "Emerson, Chuck" , "Fisher, Mike" ,
"Haggarty, Jerry" , "Hart, Bert" , "Hendricks, Marvin" , "Higuera, Edward A." , "Irons,
Charlie" , "Jones, Mark" , "Knight, Randy" , "Kruger, Rob" , "Magill, Jack" , "McKee, Al" ,
"Nilles, Chris" , "Palmer, Russell" , "Peterson, Ellis" , "Revert, Scott" , "Sparks, Jim" ,
"Treybig, Jerry" , "Vrona, John" , "Willis, Walton" , "Willis, Walton Home"
Date: 4/17/2009 6:21 AM
Subject: Providence Federal 24-4 Update

4/17/2009 6:19 AM

Rig repair. SCR electrical problem

Bill Donovan
Wolverine Gas & Oil
Providence Federal 24-4
SST Rig #68

Reply to : wolvexpl@drillmail.net
Put the well name and number in the Subject when responding to e-mails
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Carol Daniels - Providence Federal 24-4 Update T 205 ROUE S 24 API # 43-039-30040

From: "Wolverine Exploration Rig"
To: "Blair, Richard" , "Carpenter, Melinda" , "Cecil, Tom" , "Cicirello, Chris" , "Cook, Tony" , "Daniels, Carol" , "Denny, Larry" , "Donovan, Bill" , "Emerson, Chuck" , "Fisher, Mike" , "Haggarty, Jerry" , "Hart, Bert" , "Hendricks, Marvin" , "Higuera, Edward A." , "Irons, Charlie" , "Jones, Mark" , "Knight, Randy" , "Kruger, Rob" , "Magill, Jack" , "McKee, Al" , "Nilles, Chris" , "Palmer, Russell" , "Peterson, Ellis" , "Revert, Scott" , "Sparks, Jim" , "Treybig, Jerry" , "Vrona, John" , "Willis, Walton" , "Willis, Walton Home"
Date: 4/17/2009 12:34 PM
Subject: Providence Federal 24-4 Update

4/17/2009 12:29 PM

Tripping in hole at 4,584'. Monitoring trip tank and filling pipe every 20 stands.

Called IPS/Double Jack to be on location at 11:00 PM today

Forward plan: trip in hole, slip line, mix mud to 10.6, drill shoe and FIT test

Bill Donovan
Wolverine Gas & Oil
Providence Federal 24-4
SST Rig #68

Reply to : wolvexpl@drillmail.net

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DIV. OF OIL, GAS & MINING

Carol Daniels - Providence Federal 24-4 Update

T205 ROIES24 API #43-037-30048

From: "Wolverine Exploration Rig"

To: "Blair, Richard" , "Carpenter, Melinda" , "Cecil, Tom" , "Cicirello, Chris" , "Cook, Tony" , "Daniels, Carol" , "Denny, Larry" , "Donovan, Bill" , "Emerson, Chuck" , "Fisher, Mike" , "Haggarty, Jerry" , "Hart, Bert" , "Hendricks, Marvin" , "Higuera, Edward A." , "Irons, Charlie" , "Jones, Mark" , "Knight, Randy" , "Kruger, Rob" , "Magill, Jack" , "McKee, Al" , "Nilles, Chris" , "Palmer, Russell" , "Peterson, Ellis" , "Revert, Scott" , "Sparks, Jim" , "Treybig, Jerry" , "Vrona, John" , "Willis, Walton" , "Willis, Walton Home"

Date: 4/18/2009 5:15 AM

Subject: Providence Federal 24-4 Update

4/18/2009 5:08 AM

Circulating and conditioning mud at the float collar.

Forward plan: Drill cement to shoe. Drill 10' past shoe. Rig up IPS and run FIT test.

Bill Donovan
Wolverine Gas & Oil
Providence Federal 24-4
SST Rig #68

Reply to : wolvexpl@drillmail.net

Put the well name and number in the Subject when responding to e-mails

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APR 18 2009

DIV. OF OIL, GAS & MINING

Carol Daniels - Providence Federal 24-4 Update *T 205 A01E S21 AA 43-037-30040*

From: "Wolverine Exploration Rig"
To: "Blair, Richard" , "Carpenter, Melinda" , "Cecil, Tom" , "Cicirello, Chris" , "Cook, Tony" ,
"Daniels, Carol" , "Denny, Larry" , "Donovan, Bill" , "Emerson, Chuck" , "Fisher, Mike" ,
"Haggarty, Jerry" , "Hart, Bert" , "Hendricks, Marvin" , "Higuera, Edward A." , "Irons,
Charlie" , "Jones, Mark" , "Knight, Randy" , "Kruger, Rob" , "Magill, Jack" , "McKee, Al" ,
"Nilles, Chris" , "Palmer, Russell" , "Peterson, Ellis" , "Revert, Scott" , "Sparks, Jim" ,
"Treybig, Jerry" , "Vrona, John" , "Willis, Walton" , "Willis, Walton Home"
Date: 4/18/2009 5:15 AM
Subject: Providence Federal 24-4 Update

4/18/2009 5:08 AM

Circulating and conditioning mud at the float collar.

Forward plan: Drill cement to shoe. Drill 10' past shoe. Rig up IPS and run FIT test.

Bill Donovan
Wolverine Gas & Oil
Providence Federal 24-4
SST Rig #68

Reply to : wolvexpl@drillmail.net
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APR 18 2009
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Carol Daniels - Providence Federal 24-4 Update

TAOS ROLES 24 API # 43-039-30040

From: "Wolverine Exploration Rig"

To: "Blair, Richard" , "Carpenter, Melinda" , "Cecil, Tom" , "Cicirello, Chris" , "Cook, Tony" , "Daniels, Carol" , "Denny, Larry" , "Donovan, Bill" , "Emerson, Chuck" , "Fisher, Mike" , "Haggarty, Jerry" , "Hart, Bert" , "Hendricks, Marvin" , "Higuera, Edward A." , "Irons, Charlie" , "Jones, Mark" , "Knight, Randy" , "Kruger, Rob" , "Magill, Jack" , "McKee, Al" , "Nilles, Chris" , "Palmer, Russell" , "Peterson, Ellis" , "Revert, Scott" , "Sparks, Jim" , "Treybig, Jerry" , "Vrona, John" , "Willis, Walton" , "Willis, Walton Home"

Date: 4/19/2009 5:09 AM

Subject: Providence Federal 24-4 Update

4/19/2009 5:04 AM

Cleaning out hole at 13,342'. No hole problems or packing off while cleaning out.

Leak off test successful. The plan is to run a sweep and begin to drill new hole.

Bill Donovan
Wolverine Gas & Oil
Providence Federal 24-4
SST Rig #68

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APR 19 2009

DIV. OF OIL, GAS & MINING

Carol Daniels - Providence Federal 24-4 Update *T 209 R 01F 584 API# 43-039-30040*

From: "Wolverine Exploration Rig"
To: "Blair, Richard" , "Carpenter, Melinda" , "Cecil, Tom" , "Cicirello, Chris" , "Cook, Tony" , "Daniels, Carol" , "Denny, Larry" , "Donovan, Bill" , "Emerson, Chuck" , "Fisher, Mike" , "Haggarty, Jerry" , "Hart, Bert" , "Hendricks, Marvin" , "Higuera, Edward A." , "Irons, Charlie" , "Jones, Mark" , "Knight, Randy" , "Kruger, Rob" , "Magill, Jack" , "McKee, Al" , "Nilles, Chris" , "Palmer, Russell" , "Peterson, Ellis" , "Revert, Scott" , "Sparks, Jim" , "Treybig, Jerry" , "Vrona, John" , "Willis, Walton" , "Willis, Walton Home"
Date: 4/20/2009 4:50 AM
Subject: Providence Federal 24-4 Update

4/20/2009 4:47 AM

Checking MWD tools while tripping in hole.

Current depth is 13,350'

Bill Donovan
Wolverine Gas & Oil
Providence Federal 24-4
SST Rig #68

Reply to : wolvexpl@drillmail.net

Put the well name and number in the Subject when responding to e-mails

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APR 20 2009

DIV. OF OIL, GAS & MINING

Carol Daniels - Providence Federal 24-4 Update

T 205 ROIE 524 APE # 43-039-30040

From: "Wolverine Exploration Rig"
To: "Blair, Richard" , "Carpenter, Melinda" , "Cecil, Tom" , "Cicirello, Chris" , "Cook, Tony" ,
 "Daniels, Carol" , "Denny, Larry" , "Donovan, Bill" , "Emerson, Chuck" , "Fisher, Mike" ,
 "Haggarty, Jerry" , "Hart, Bert" , "Hendricks, Marvin" , "Higuera, Edward A." , "Irons,
 Charlie" , "Jones, Mark" , "Knight, Randy" , "Kruger, Rob" , "Magill, Jack" , "McKee, Al" ,
 "Nilles, Chris" , "Palmer, Russell" , "Peterson, Ellis" , "Revert, Scott" , "Sparks, Jim" ,
 "Treybig, Jerry" , "Vrona, John" , "Willis, Walton" , "Willis, Walton Home"
Date: 4/21/2009 5:07 AM
Subject: Providence Federal 24-4 Update

4/21/2009 5:05 AM

Drilling at 13,375'. FPH 5

Bill Donovan
Wolverine Gas & Oil
Providence Federal 24-4
SST Rig #68

Reply to : wolvexpl@drillmail.net

Put the well name and number in the Subject when responding to e-mails

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APR 21 2009

DIV. OF OIL, GAS & MINING

Carol Daniels - Providence Federal 24-4 Update T20S R01E S24 API #43-039-30040

From: "Wolverine Exploration Rig"
To: "Blair, Richard" , "Carpenter, Melinda" , "Cecil, Tom" , "Cicarelo, Chris" , "Cook, Tony" ,
"Daniels, Carol" , "Denny, Larry" , "Donovan, Bill" , "Emerson, Chuck" , "Fisher, Mike" ,
"Haggarty, Jerry" , "Hart, Bert" , "Hendricks, Marvin" , "Higuera, Edward A." , "Irons,
Charlie" , "Jones, Mark" , "Knight, Randy" , "Kruger, Rob" , "Magill, Jack" , "McKee, Al" ,
"Nilles, Chris" , "Palmer, Russell" , "Peterson, Ellis" , "Revert, Scott" , "Sparks, Jim" ,
"Treybig, Jerry" , "Vrona, John" , "Willis, Walton" , "Willis, Walton Home"
Date: 4/22/2009 4:34 AM
Subject: Providence Federal 24-4 Update

4/22/2009 4:31 AM

Drilling at 13,614'. ROP 15 FPH

Proposed TD is 14,400'

Bill Donovan
Wolverine Gas & Oil
Providence Federal 24-4
SST Rig #68

Reply to : wolvexpl@drillmail.net
Put the well name and number in the Subject when responding to e-mails
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Rig: (970) 361-3269 alternative
Cell: (720) 351-7470
Rig Fax : (435) 304-1222

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APR 22 2009
DIV. OF OIL, GAS & MINING

Carol Daniels - Providence Federal 24-4 Update *Taos Role S-24 API#43-039-30040*

From: "Wolverine Exploration Rig"
To: "Blair, Richard" , "Carpenter, Melinda" , "Cecil, Tom" , "Cicirello, Chris" , "Cook, Tony" ,
 "Daniels, Carol" , "Denny, Larry" , "Donovan, Bill" , "Emerson, Chuck" , "Fisher, Mike" ,
 "Haggarty, Jerry" , "Hart, Bert" , "Hendricks, Marvin" , "Higuera, Edward A." , "Irons,
 Charlie" , "Jones, Mark" , "Knight, Randy" , "Kruger, Rob" , "Magill, Jack" , "McKee, Al" ,
 "Nilles, Chris" , "Palmer, Russell" , "Peterson, Ellis" , "Revert, Scott" , "Sparks, Jim" ,
 "Treybig, Jerry" , "Vrona, John" , "Willis, Walton" , "Willis, Walton Home"
Date: 4/23/2009 4:07 AM
Subject: Providence Federal 24-4 Update

4/23/2009 4:03 AM

Drilling at 13,855'. ROP 16 FPH

TD is 14,400'. Hole diameter is 6.5"

Bill Donovan
Wolverine Gas & Oil
Providence Federal 24-4
SST Rig #68

Reply to : wolvexpl@drillmail.net
Put the well name and number in the Subject when responding to e-mails
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Rig: (970) 361-3269 alternative
Cell: (720) 351-7470
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APR 23 2009

DIV. OF OIL, GAS & MINING

There are indications that the formation pressure gradient below the Middle Moenkopi is increasing with depth. The open hole caliper log, that was run to 13,196 ft., showed that the diameter of the bore hole increased from 8.5 in. at 12,900 ft. to 15-in. on bottom. The shape of the bore hole on the log, and the character of the recovered formation samples indicate that the enlargement of the hole was due to a failure of the rock due to a significant difference between the hydrostatic fluid pressure in the bore hole and the stresses (pressure) in the rock. Several times, while attempting to clean out the rubble below 12,900 ft., large amounts of formation pieces would accumulate and pack-off the annulus. To prevent further rock failure and stabilize the borehole, it was necessary to raise the mud weight to 10.2 lb/gal.

After reviewing the current hole conditions, Wolverine, based on the recommendations of its drilling team, has decided the appropriate action is to run the approximately 4140' of 7-5/8", 33.7 ppf P-110 VAM thread FJL drilling liner from approximately 9200' (200' of overlap in 9-5/8" casing) to current TD of 13340'. The proposed cement consists of 310 sacks Halliburton BondCEM System (density 14.5 ppg, Yield 1.454 cf/sk). The proposed cementing program is designed to bring cement across the entire liner, and the liner top will be squeezed as needed to insure a proper pressure seal.

Wolverine is undertaking these actions so that the liner, when cemented in, will provide us the wellbore configuration needed to drill the next section in a prudent and safe manner.

Please keep all information contained in this Sundry Confidential.

CONFIDENTIAL

Carol Daniels - Providence Federal 24-4 TD has been picked

T 205 R O L E 5-24 APR # 43-039-30040

From: "Wolverine Exploration Rig"
To: "Blair, Richard" , "Carpenter, Melinda" , "Cecil, Tom" , "Cicirello, Chris" , "Cook, Tony" ,
 "Daniels, Carol" , "Denny, Larry" , "Donovan, Bill" , "Emerson, Chuck" , "Fisher, Mike" ,
 "Haggarty, Jerry" , "Hart, Bert" , "Hendricks, Marvin" , "Higuera, Edward A." , "Irons,
 Charlie" , "Jones, Mark" , "Knight, Randy" , "Kruger, Rob" , "Magill, Jack" , "McKee, Al" ,
 "Nilles, Chris" , "Palmer, Russell" , "Peterson, Ellis" , "Revert, Scott" , "Sparks, Jim" ,
 "Treybig, Jerry" , "Vrona, John" , "Willis, Walton" , "Willis, Walton Home"
Date: 4/24/2009 1:16 PM
Subject: Providence Federal 24-4 TD has been picked

4/24/2009 1:11 PM

Drilling at 14,082', ROP 12 FPH

Forward Plan: Drill to TD. Condition hole. POH to log. Log without sidewall coring. TIH open ended. Spot plugs per BLM. TOH. Run casing to 12,800'

Bill Donovan
Wolverine Gas & Oil
Providence Federal 24-4
SST Rig #68

Reply to : wolvexpl@drillmail.net
Put the well name and number in the Subject when responding to e-mails
Rig : (970) 361-3268
Rig: (970) 361-3269 alternative
Cell: (720) 351-7470
Rig Fax : (435) 304-1222

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APR 24 2009

DIV. OF OIL, GAS & MINING

Carol Daniels - Providence Federal 24-4 Update

T205 ROLF 5-24 APE# 43-039-30040

From: "Wolverine Exploration Rig"
To: "Blair, Richard" , "Carpenter, Melinda" , "Cecil, Tom" , "Cicirello, Chris" , "Cook, Tony" ,
 "Daniels, Carol" , "Denny, Larry" , "Donovan, Bill" , "Emerson, Chuck" , "Fisher, Mike" ,
 "Haggarty, Jerry" , "Hart, Bert" , "Hendricks, Marvin" , "Higuera, Edward A." , "Irons,
 Charlie" , "Jones, Mark" , "Knight, Randy" , "Kruger, Rob" , "Magill, Jack" , "McKee, Al" ,
 "Nilles, Chris" , "Palmer, Russell" , "Peterson, Ellis" , "Revert, Scott" , "Sparks, Jim" ,
 "Treybig, Jerry" , "Vrona, John" , "Willis, Walton" , "Willis, Walton Home"
Date: 4/24/2009 4:12 AM
Subject: Providence Federal 24-4 Update

4/24/2009 4:08 AM

Drilling at 14,022'.ROP 6-8 FPH

Bill Donovan
Wolverine Gas & Oil
Providence Federal 24-4
SST Rig #68

Reply to : wolvexpl@drillmail.net
Put the well name and number in the Subject when responding to e-mails
Rig : (970) 361-3268
Rig: (970) 361-3269 alternative
Cell: (720) 351-7470
Rig Fax : (435) 304-1222

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APR 24 2009

DIV. OF OIL, GAS & MINING

T 20SR 01E 5-24 43-039-30046

Carol Daniels - Providence Federal 24-4 Formal notification of plans

From: "Wolverine Exploration Rig"
To: "Daniels, Carol" , "Denny, Larry" , "Hart, Bert" , "Hendricks, Marvin" , "Higuera, Edward A." , "Jones, Mark" , "Magill, Jack" , "McKee, Al" , "Treybig, Jerry" , "Willis, Walton" , "Willis, Walton Home"
Date: 4/24/2009 1:45 PM
Subject: Providence Federal 24-4 Formal notification of plans

4/24/2009 1:39 PM

Hello,

This is formal notification of Wolverine Gas and Oil's plan for the Providence Federal 24-4 well.

Log and evaluate

Set plugs in open hole.

Run 5 1/2" casing inside the liner to approximately 12,800'

Test zones of interest.

Bill Donovan
Wolverine Gas & Oil
Providence Federal 24-4
SST Rig #68

Reply to : wolvexpl@drillmail.net**Put the well name and number in the Subject when responding to e-mails****Rig : (970) 361-3268****Rig: (970) 361-3269 alternative****Cell: (720) 351-7470****Rig Fax : (435) 304-1222**

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APR 24 2009
DIV. OF OIL, GAS & MINING

Carol Daniels - Providence Federal 24-4 Update

T 205R OIE 524 43-039-30040

From: "Wolverine Exploration Rig"
To: "Blair, Richard" , "Carpenter, Melinda" , "Cecil, Tom" , "Cicirello, Chris" , "Cook, Tony" , "Daniels, Carol" , "Denny, Larry" , "Donovan, Bill" , "Emerson, Chuck" , "Fisher, Mike" , "Haggarty, Jerry" , "Hart, Bert" , "Hendricks, Marvin" , "Higuera, Edward A." , "Irons, Charlie" , "Jones, Mark" , "Knight, Randy" , "Kruger, Rob" , "Magill, Jack" , "McKee, Al" , "Nilles, Chris" , "Palmer, Russell" , "Peterson, Ellis" , "Revert, Scott" , "Sparks, Jim" , "Treybig, Jerry" , "Vrona, John" , "Willis, Walton" , "Willis, Walton Home"
Date: 4/25/2009 4:06 AM
Subject: Providence Federal 24-4 Update

4/25/2009 3:53 AM

Drilling at 14,150'. ROP 6-8 FPH

Forward plan;

Drill while the 14,150' sample is circulated out of the hole. After the 14,150' sample is evaluated, further drilling will be reviewed.

Back ground;

Upon reaching 14,100' which was yesterdays planned TD, the bottom samples had changed significantly enough to cause further drilling. It was decide to drill ahead another 50' and reevaluate based on the samples

Bill Donovan
Wolverine Gas & Oil
Providence Federal 24-4
SST Rig #68

Reply to : wolvexpl@drillmail.net

Put the well name and number in the Subject when responding to e-mails

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Cell: (720) 351-7470

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APR 25 2009

DIV. OF OIL, GAS & MINING

Carol Daniels - Providence Federal 24-4 Update

T 205 R 01E S-24 43-039-30040

From: "Wolverine Exploration Rig"
To: "Blair, Richard" , "Carpenter, Melinda" , "Cecil, Tom" , "Cicirello, Chris" , "Cook, Tony" ,
 "Daniels, Carol" , "Denny, Larry" , "Donovan, Bill" , "Emerson, Chuck" , "Fisher, Mike" ,
 "Haggarty, Jerry" , "Hart, Bert" , "Hendricks, Marvin" , "Higuera, Edward A." , "Irons,
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 "Nilles, Chris" , "Palmer, Russell" , "Peterson, Ellis" , "Revert, Scott" , "Sparks, Jim" ,
 "Treybig, Jerry" , "Vrona, John" , "Willis, Walton" , "Willis, Walton Home"
Date: 4/25/2009 9:21 PM
Subject: Providence Federal 24-4 Update

4/25/2009 9:17 PM

Drilling at 14,216'. ROP 4-5 FPH

TD is 14,250'. Casing will be delivered on Monday, after evaluating the logs.

Bill Donovan
Wolverine Gas & Oil
Providence Federal 24-4
SST Rig #68

Reply to : wolvexpl@drillmail.net
Put the well name and number in the Subject when responding to e-mails
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Rig: (970) 361-3269 alternative
Cell: (720) 351-7470
Rig Fax : (435) 304-1222

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APR 25 2009

DIV. OF OIL, GAS & MINING

Carol Daniels - Providence Federal 24-4 Update *T 20SR OLE S-24 43-039-30040*

From: "Wolverine Exploration Rig"
To: "Blair, Richard" , "Carpenter, Melinda" , "Cecil, Tom" , "Cicirello, Chris" , "Cook, Tony" ,
 "Daniels, Carol" , "Denny, Larry" , "Donovan, Bill" , "Emerson, Chuck" , "Fisher, Mike" ,
 "Haggarty, Jerry" , "Hart, Bert" , "Hendricks, Marvin" , "Higuera, Edward A." , "Irons,
 Charlie" , "Jones, Mark" , "Knight, Randy" , "Kruger, Rob" , "Magill, Jack" , "McKee, Al" ,
 "Nilles, Chris" , "Palmer, Russell" , "Peterson, Ellis" , "Revert, Scott" , "Sparks, Jim" ,
 "Treybig, Jerry" , "Vrona, John" , "Willis, Walton" , "Willis, Walton Home"
Date: 4/26/2009 4:22 AM
Subject: Providence Federal 24-4 Update

4/26/2009 4:14 AM

Drilling at 14,239'. ROP 5 FPH

TD is 14,250'.

Forward plan: drill to TD. Circulate, condition and short trip to log and SWC(?)

Casing arrives on Monday. Requires strapping and drifting.

Bill Donovan
Wolverine Gas & Oil
Providence Federal 24-4
SST Rig #68

Reply to : wolvexpl@drillmail.net

Put the well name and number in the Subject when responding to e-mails

Rig : (970) 361-3268

Rig: (970) 361-3269 alternative

Cell: (720) 351-7470

Rig Fax : (435) 304-1222

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APR 26 2009

DIV. OF OIL, GAS & MINING

Carol Daniels - Providence Federal 24-4 Update *TAOS ROIES-24 43-039-30046*

From: "Wolverine Exploration Rig"
To: "Blair, Richard" , "Carpenter, Melinda" , "Cecil, Tom" , "Cicirello, Chris" , "Cook, Tony" ,
"Daniels, Carol" , "Denny, Larry" , "Donovan, Bill" , "Emerson, Chuck" , "Fisher, Mike" ,
"Haggarty, Jerry" , "Hart, Bert" , "Hendricks, Marvin" , "Higuera, Edward A." , "Irons,
Charlie" , "Jones, Mark" , "Knight, Randy" , "Kruger, Rob" , "Magill, Jack" , "McKee, Al" ,
"Nilles, Chris" , "Palmer, Russell" , "Peterson, Ellis" , "Revert, Scott" , "Sparks, Jim" ,
"Treybig, Jerry" , "Vrona, John" , "Willis, Walton" , "Willis, Walton Home"
Date: 4/27/2009 7:23 AM
Subject: Providence Federal 24-4 Update

4/27/2009 7:20 AM

Preparing to TIH w/ 6.5" bit for clean out run before logging.

Casing will start being delivered today.

Bill Donovan
Wolverine Gas & Oil
Providence Federal 24-4
SST Rig #68

Reply to : wolvexpl@drillmail.net

Put the well name and number in the Subject when responding to e-mails

Rig : (970) 361-3268

Rig: (970) 361-3269 alternative

Cell: (720) 351-7470

Rig Fax : (435) 304-1222

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APR 27 2009

DIV. OF OIL, GAS & MINING

Carol Daniels - Providence Federal 24-4 Update

T205 ROIE S-24 43-039-30046

From: "Wolverine Exploration Rig"
To: "Blair, Richard" , "Carpenter, Melinda" , "Cecil, Tom" , "Cicirello, Chris" , "Cook, Tony" ,
 "Daniels, Carol" , "Denny, Larry" , "Donovan, Bill" , "Emerson, Chuck" , "Fisher, Mike" ,
 "Haggarty, Jerry" , "Hart, Bert" , "Hendricks, Marvin" , "Higuera, Edward A." , "Irons,
 Charlie" , "Jones, Mark" , "Knight, Randy" , "Kruger, Rob" , "Magill, Jack" , "McKee, Al" ,
 "Nilles, Chris" , "Palmer, Russell" , "Peterson, Ellis" , "Revert, Scott" , "Sparks, Jim" ,
 "Treybig, Jerry" , "Vrona, John" , "Willis, Walton" , "Willis, Walton Home"
Date: 4/27/2009 10:04 PM
Subject: Providence Federal 24-4 Update

4/27/2009 10:02 PM

Bit depth 13,612' washing and reaming to bottom.

Chuck Emerson
Wellsite Supervisor
Wolverine Gas & Oil
Providence Federal 24-4
SST Rig #68

Reply to : wolvexpl@drillmail.net
Rig : (970) 361-3268
Cell: (970) 381-6233
Rig Fax : (435) 304-1222

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APR 27 2009

DIV. OF OIL, GAS & MINING

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WOLVERINE GAS AND OIL CORPORATION

Energy Exploration in Partnership with the Environment

May 12, 2009

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MAY 19 2009
DIV. OF OIL, GAS & MINING

Mr. Stan Andersen
Fluid Minerals Group, BLM
Richfield Field Office
150 East 900 North
Richfield, UT 84701

Re: Providence Federal 24-4

Dear Mr. Anderson,

Enclosed please find a Plug Back Sundry for the Wolverine Gas and Oil well, Providence Federal 24-4. Wolverine had previously received verbal approval from both the BLM and UDOGM for this procedure.

Please let me know if you have any questions or concerns regarding this Sundry.

Sincerely,

Helene Bardolph
Engineering Administrative Assistant

cc: Al McKee, BLM
Gil Hunt, UDOGM

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

CONFIDENTIAL

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

SUNDRY NOTICES AND REPORTS ON WELLS

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

5. Lease Serial No.
UTU-80907

6. If Indian, Allottee or Tribe Name
NA

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

8. Well Name and No.
Providence Federal 24-4

9. API Well No.
43-039-30040

10. Field and Pool, or Exploratory Area
Wildcat

11. County or Parish, State
Sanpete County, Utah

SUBMIT IN TRIPLICATE- Other instructions on reverse side.

1. Type of Well
 Oil Well Gas Well Other

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

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

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

4. Location of Well (Footage, Sec., T, R., M., or Survey Description)
975' FSL, 41' FWL, Sec. 24, T20S, R1E, SLB&M

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>Continued testing</u>
	<input type="checkbox"/> Change Plans	<input type="checkbox"/> Plug and Abandon	<input type="checkbox"/> Temporarily Abandon	<u>with gas venting</u>
	<input type="checkbox"/> Convert to Injection	<input type="checkbox"/> Plug Back	<input type="checkbox"/> Water Disposal	

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

The Providence Federal 24-4 is the first confirmation test to a new field discovery and it had apparent multiple potential hydrocarbon accumulations. Extensive testing has been completed on several intervals of interest in Moenkopi and Navajo1 formations during which no more than 10 MMCF of gas was vented/flared. After venting or flaring on 27 days while testing various perforation intervals, there is still need to produce the Navajo1 completion interval in order to collect down-hole fluid samples for laboratory testing. It then needs to continue producing for sufficient time as needed to acquire production data required for determining if the well can produce paying quantities. Because the 30-day limit allowed by NTL-4a for flaring/venting of gas will not allow adequate time to complete necessary testing of the well, a continuation of the initial flaring/venting period for up to 30 additional days is requested. Total production will be limited so that the total gas vented/flared inclusive of the gas produced to date does not exceed 50 MMCF. This well is located in an isolated area without infrastructure for shipping or processing the gas, and the gas being flared has low BTU and no market value in an unprocessed state.

A wellbore schematic showing the current mechanical configuration and a summary of completion work to date is included herewith.

COPY SENT TO OPERATOR

Date: 8/16/2009

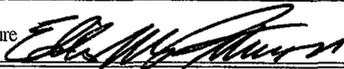
Initials: KS

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

Ellis Peterson

Title **Sr. Production Engineer**

Signature

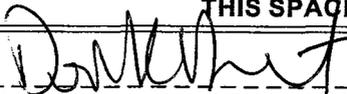


Date

07/22/2009

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved by



Title

Pet. Eng.

Date

7/30/09

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

DOGm

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.

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(Instructions on page 2) ** Required Testing*

JUL 27 2009

Completion Summary and Results

Providence Federal 24-4

May 27, 2009 to Present (July 22, 2009)

Purpose of Work: Complete and test Moenkopi and Navajo1

Work Summary:

1. Ran a bit and casing scraper to 12,782' and circulated caustic/acid solutions to clean tubing and casing.
2. Ran a radial CBL from 12,750' to 6017' with 1000 psi. Estimated top of cement behind 5-1/2" casing is 6390'.
3. Perforated Moenkopi at 11,836' - 11,849', 11,859 - 11,871', and 11,895' - 11,902' using tubing conveyed 4" hollow carriers loaded with 3 SPF. Packer was set at 11,464'.
4. Swabbed well dry with no significant liquid entry and there was sufficient gas flow to produce only a 2' weak flare.
5. Sheared releasing tool that allowed perforating guns to drop to bottom of well.
6. Stimulated Moenkopi perforations at 11,836' to 11,902' using 5000 gallons of 15% FE acid and 200 Bio-balls for diversion.
7. Flowed and swabbed total of 300 Bbls of water with sight gas flow. Pulled packer.
8. Set CIBP at 11,800' and placed a cement plug on top of CIBP consisting of 25 sacks of Class G containing 30% Silica (15.6 ppg, 1.51 yield). Pulled tubing to 11,490' and circulated 10.3 ppg brine with preserving chemicals to fill from PBTD to 9250. Pulled tubing and wireline set CIBP at 9306'.
9. Perforated Navajo1 at 9117' - 9126' using 4" carriers loaded 3 SPF.
10. Wireline set a retrievable packer assembly at 9091' and ran tubing to latch packer assembly.
11. Swabbed total of 96 Bbls of water and oil mix swabbing from seating nipple at 9058' with limited fluid entry.
12. Pulled tubing and packer and wireline set a CIBP at 9114'.
13. Perforated Navajo1 at 9078' - 9084' and 9092' - 9104' using 4" carriers loaded 3 SPF.
14. Wireline set a retrievable packer assembly at 8990' and ran tubing to latch packer assembly.
15. Swabbed and flowed from perforations at 9078' - 9084' and 9092' - 9104' for nine days and recovered 2137 BW and 435 BO. Final flow rate was 360 BFPD with 60 psi flowing tubing pressure, 80% water-cut, and unknown low gas rate.
16. Wireline set a CICR at 9074'. Ran tubing to CICR and squeezed perforations at 9078' - 9084' and 9092' - 9104' using 25 sacks of Poz-Premium 50/50 SBM cement (14.1 ppg, 1.48 yield). Pulled tubing.
17. Round tripped a bit and casing scraper and tagged CICR at 9074'.
18. Perforated Navajo1 at 9050' - 9066' using 4" carriers loaded 3 SPF.
19. Wireline set a retrievable packer assembly at 9000' and ran tubing to latch packer assembly.

20. Swabbed 10 Bbls and well started to flow.
21. Swabbed and flowed from perforations at 9050' – 9066' for three days and recovered 31 BW and 134 BO. Final flow rate was 60 BOPD with no water, 130 psi flowing tubing pressure, and approximately 500 MCFD gas rate.
22. Pulled tubing and packer and wireline set a CIBP at 9046'.
23. Perforated Navajo1 at 9014' – 9039' using 4" carriers loaded 3 SPF.
24. Wireline set a retrievable packer assembly at 8950' and ran tubing to latch packer assembly.
25. Swabbed and flowed from perforations at 9014' – 9039' for three days and recovered 26 BW and 120 BO. Final flow rate was 66 BOPD with no water, 150 psi flowing tubing pressure, and approximately 600 MCFD gas rate.
26. Broke down Navajo1 perforations at 9014' – 9039' using a total of 123 Bbls of 4% KCl water and additives and 150 ball sealers.
27. Pulled packer. Ran a 4-5/8" mill and drilled out the CIBP at 9046'. Tagged PBTD at 9074' and pulled tubing.
28. Wireline set a retrievable packer assembly at 8940'. Ran tubing, circulated corrosion inhibitor and packer fluid, latched packer, and landed tubing in tension.
29. ND BOP and NU wellhead. Swabbed well and initiated flow testing perforations at 9014' – 9039' and 9050' – 9066' on 7/16/2009.

On 7/21/2009, reported flow rates for the Providence Federal 24-4 were 205 BOPD, 11 BWPD, and 1263 MCFD with 405 psi flowing tubing pressure. Production totals for six days from the current flow test interval are 1000 BO, 77 BW, and 6877 MCF. The approximate production totals from all Navajo1 intervals in the well to date are 1700 BO, 2400 BW, and 9000 MCF.

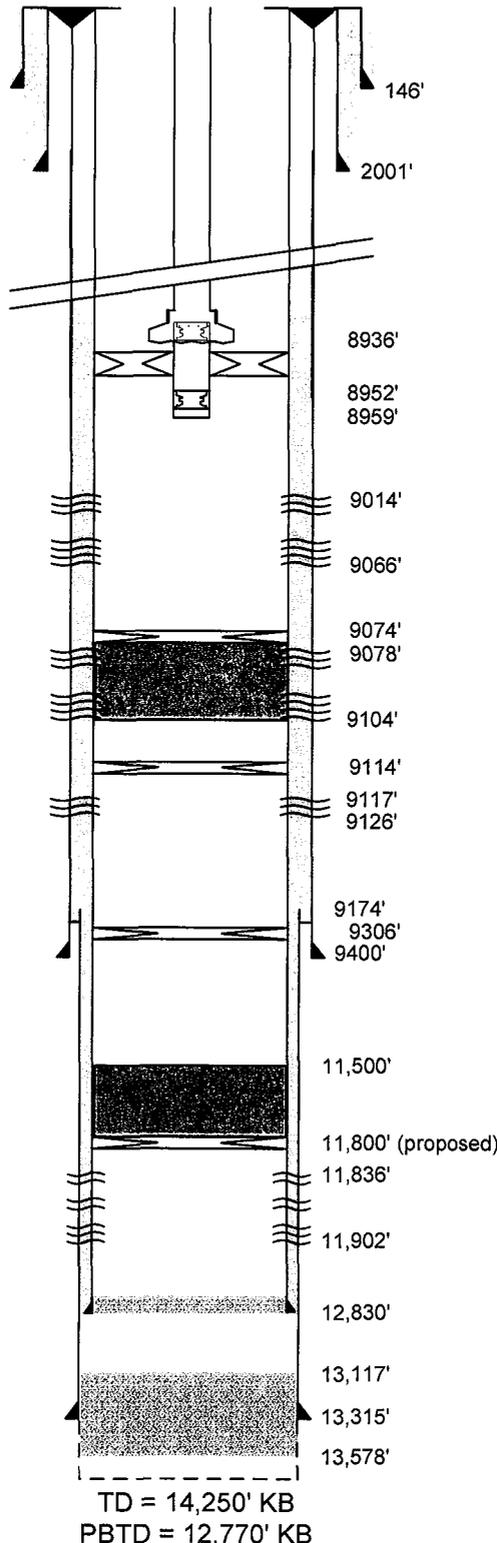
It is planned to conduct a pressure build-up test on the well. It will then be returned to production to prepare for and obtain bottom-hole fluid samples for lab testing. Then if allowed, the well will be produced for an additional 30 days to obtain production data needed to determine if it is capable of producing in paying quantities.



Providence Federal 24-4
 Providence Field
 API # 43-039-30040
 Section 24, T20S, R1E
 Sanpete County, Utah

(Not to Scale)

Ground Elevation: 5491'
 KB Elevation: 5517'



Vertical Well

Surface and BHL: 975' FSL 41' FWL, SW SW, 24-20S-1E

Conductor Casing (12/1/08)

Size: 24", 0.25" wall in 30" hole
 Depth Landed: 146' KB
 Cement Data: Cemented to surface with 11 yds redi-mix

Surface Casing (1/22/09)

Size/Wt/Grade: 13 3/8", 68#, K-55, BTC in 17-1/2" hole
 Depth Landed: 2001' KB
 Cement Data: 400 sks VeriCem (10.4 ppg, 4.33 cf/sk), 490 sks Class G (15.8 ppg, 1.16 cf/sk), Cemented to surface

Intermediate Casing (2/28/09)

Size/Wt/Grade: 9-5/8", 53.5#, T-95/Mav. HCL-110/L-80, LTC/SLX in 12-1/4" hole
 Depth Landed: 9400' KB
 Cement Data: Stg. 1 – 225 sks 50/50 Poz (14.35 ppg, 1.50 cf/sk)
 Stg. 2 lead – 600 sks Class G (11.5 ppg, 2.58 cf/sk)
 Stg. 2 tail – 965 sks Class G (15.80 ppg, 1.70 cf/sk)

Drilling Liner (4/12/09)

Size/Wt/Grade: 7-5/8", 33.7#, P-110, Vam FJL w/ 9.75' Tie-back
 Length: 4253'
 Depth: 9174'-13,315' KB
 Cement Data: 310 sks BondCem (14.5 ppg, 1.45 cf/sk)

Production Casing (5/09/09)

Size/Wt/Grade: 5-1/2", 20#, L-80, LTC, 8rd
 Properties: 9190 psi burst, 4.653" drift, 4.778" ID, 0.0221 Bbl/ft Capacity
 Depth Landed: 12,830' KB,
 Cement Data: 465 sks 65:35 Poz-Premium (11.5 ppg, 3.30 cf/sk)

Navaio1 Perforations

9014' – 9039' MD/TVD, 25', 75 holes (7/11/09)
 9050' – 9066' MD/TVD, 16', 48 holes (7/7/09)
 9078' – 9084' MD/TVD, 6', 18 holes (6/15/09) - squeezed
 9092' – 9104' MD/TVD, 12', 36 holes (6/15/09) - squeezed
 9117' – 9126' MD/TVD, 9', 27 holes (6/12/09) – below plugs

 Mid-Perf = 9070' MD/TVD, 68' TV, 204 holes

Moenkopi Perforations

11,836' – 11,902' MD/TVD, 32', 96 holes (5/30/09)

Tubing (7/15/09)

2-7/8", 6.5#, L-80, EUE, 8rd to 8959' KB MD/TVD, 2.31" XN nipple @ 8952' KB, Arrowset 1X packer at 8940' KB, on-off tool w/ 2.31" X profile @ 8936' KB

PBTD

(6/29/09) 9074' – CICR with 25 sacks cement squeezed below
 (6/15/09) 9114' – CIBP
 (6/11/09) 9306' – CIBP
 (6/10/09) 11,500' – CIBP @ 11,800' w/ 25 sacks on top
 (5/7/09) 13,117' (Estimated) – Added 200' to first cement plug

CONFIDENTIAL



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

Energy Exploration in Partnership with the Environment

July 22, 2009

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

Re: Sundry Notices - Wolverine Gas and Oil Company of Utah, LLC
Providence Federal 24-4

Dear Mr. Andersen:

Wolverine Gas and Oil Company of Utah, LLC respectfully submits the enclosed Sundry Notices (Form 3160-5) for the subject well. One Sundry Notice is to request continuation of flaring/venting as needed for extended testing operations and the other is the 5-day production notice.

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

Sincerely,

Ellis M. Peterson
Senior Production Engineer
Wolverine Gas and Oil

cc: Gil Hunt, UDOGM

RECEIVED

JUL 27 2009

DIV. OF OIL, GAS & MINING

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

CONFIDENTIAL

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

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

5. Lease Serial No.
UTU-80907

6. If Indian, Allottee or Tribe Name
NA

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

8. Well Name and No.
Providence Federal 24-4

9. API Well No.
43-039-30040

10. Field and Pool, or Exploratory Area
Wildcat

11. County or Parish, State
Sanpete County, Utah

SUBMIT IN TRIPLICATE- Other instructions on reverse side.

1. Type of Well
 Oil Well Gas Well Other

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

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

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

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)
975' FSL, 41' FWL, Sec. 24, T20S, R1E, SLB&M

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"/> Subsequent Report	<input type="checkbox"/> Alter Casing	<input type="checkbox"/> Fracture Treat	<input type="checkbox"/> Reclamation
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Casing Repair	<input type="checkbox"/> New Construction	<input type="checkbox"/> Recomplete
	<input type="checkbox"/> Change Plans	<input type="checkbox"/> Plug and Abandon	<input type="checkbox"/> Temporarily Abandon
	<input type="checkbox"/> Convert to Injection	<input type="checkbox"/> Plug Back	<input type="checkbox"/> Water Disposal
			<input type="checkbox"/> Water Shut-Off
			<input type="checkbox"/> Well Integrity
			<input checked="" type="checkbox"/> Other Continued testing with gas venting

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

The Providence Federal 24-4 is the first confirmation test to a new field discovery having multiple hydrocarbon accumulations. Extensive testing has been completed at this well on several intervals of interest in the Moenkopi and Navajo1 formations. Because the 30-day limit allowed by NTL-4a for flaring/venting of gas did not allow adequate time to complete the necessary testing of this well, an extension to allow flaring was requested and granted through August 24, 2009. During the 30-day extension period, a pressure build-up test was conducted and followed by controlled flow conditioning and subsurface sampling, so the well was produced continually for only 17 days. Producing rates during flow testing have changed from initial daily volumes of 1262 MCF, 205 BO, and 11 BW with FTP of 405 psi to 747 MCF, 105 BO, and 46 BWPD with FTP of 250 psi on August 21, 2009. Total gas production from the well through August 21, 2009 was 25.5 MMCF. Because potential commerciality needs to be established for this field based in part on extrapolation of stable performance of this well, continued flow testing with flaring through September 23, 2009 is requested to allow production trends to be better defined. Total production will be limited if necessary so that the total gas vented/flared inclusive of the gas produced to date does not exceed 50 MMCF, but it does not appear that this limit will be exceeded prior to September 23, 2009.

COPY SENT TO OPERATOR

Date: 9-10-2009
Initials: KS

RECEIVED

AUG 27 2009

DIV. OF OIL, GAS & MINING

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

Signature *Ellis Peterson* Date **08/24/2009**

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved by *[Signature]* Title **Pet. Eng.** Date **9/8/09**

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.



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

Energy Exploration in Partnership with the Environment

August 24, 2009

CONFIDENTIAL

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

Re: Sundry Notice - Wolverine Gas and Oil Company of Utah, LLC
Providence Federal 24-4

Dear Mr. Andersen:

Wolverine Gas and Oil Company of Utah, LLC respectfully submits the enclosed Sundry Notice (Form 3160-5) for the subject well. The Sundry Notice requests an extension for flow testing the Providence Federal 24-4 and flaring through September 23, 2009.

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

Sincerely,

Ellis M. Peterson
Senior Production Engineer
Wolverine Gas and Oil

Cc: Gil Hunt, UDOGM*

RECEIVED
AUG 27 2009
DIV. OF OIL, GAS & MINING

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING	FORM 9 5. LEASE DESIGNATION AND SERIAL NUMBER: UTU-80907
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: PROVIDENCE FED 24-4
2. NAME OF OPERATOR: WOLVERINE GAS & OIL COMPANY OF UTAH, LLC	9. API NUMBER: 43039300400000
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: 0975 FSL 0041 FWL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: SWSW Section: 24 Township: 20.0S Range: 01.0E Meridian: S	9. FIELD and POOL or WILDCAT: WILDCAT COUNTY: SANPETE 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 type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion:	<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 checked="" type="checkbox"/> DRILLING REPORT Report Date: 5/15/2009	<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 type="checkbox"/> OTHER	OTHER: _____

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

Please see attached drilling report summary.

Accepted by the
Utah Division of
Oil, Gas and Mining
FOR RECORD ONLY
 November 05, 2009

NAME (PLEASE PRINT) Helene Bardolph	PHONE NUMBER 616 458-1150	TITLE Engineering Administrative Assistant
SIGNATURE N/A	DATE 11/5/2009	

Wolverine Gas and Oil Company of Utah, LLC
Providence Federal 24-4
SW SW, Sec 24, T20S, R1E
Sanpete County, Utah
API #43039300400000

Providence Federal 24-4 Drilling Reports

1 December 2008

Moved in Pete Martin Drilling Co. rig to drill conductor hole. Drilled 30-in. conductor hole to 120 ft. (GL). Ran 24-in. conductor casing to 120 ft. Grouted casing to surface with 11 cu. yds of concrete.

17 January 2009

Completed rigging up SST Rig 68. Spudded Providence Federal 24-4 at 00:00 hrs, 17 January 2009. Drilled 17-1/2 in. hole with water base mud from 147 ft. (DF) to 287 ft. MW – 8.6 lb/gal, Vis. 44 sec., FL – 18 cc. Surveys at 158 ft. – 0.72°, 220 ft. – 0.55°.

18 January 2009

Drilled 17-1/2 in. hole from 287 ft. to 801 ft. MW – 8.8 lb/gal, Vis. 45 sec., FL – 15 cc. Surveys: 313 ft. – 0.39°, 407 ft. – 0.18°, 534 ft. – 0.12°, 625 ft. – 0.30°, 719 ft. – 0.60°.

19 January 2009

Drilled 17-1/2 in. hole from 801 ft. to 1,155 ft. MW – 8.9 lb/gal, Vis. 47 sec., FL – 24 cc. Surveys: 814 ft. – 1.00°, 907 ft. – 1.65°, 1,002 ft. – 2.77°, 1,095 ft. – 3.98°.

20 January 2009

Drilled 17-1/2 in. hole from 1,155 ft. to 1,747 ft. MW – 9.0 lb/gal, Vis. 48 sec., FL – 28 cc. Surveys: 1,190 ft. – 3.28°, 1,283 ft. – 2.04°, 1,377 ft. – 1.61°, 1,472 ft. – 0.47°, 1,566 ft. – 0.13°, 1,661 ft. – 0.13°.

21 January 2009

Drilled 17-1/2 in. hole from 1,747 ft. to 2,004 ft. MW – 9.1+ lb/gal, Vis. 43 sec., FL – 30 cc. Surveys: 1,757 ft. – 0.22°, 1,849 ft. – 0.23°, 1,943 ft. – 0.22°. Circulated and conditioned hole to run surface casing. Pulled out of the hole and laid down BHA.

22 January 2009

Ran 13-3/8 in, 68 lb/ft, K-55, BTC casing to 2,001 ft. (DF). Cemented 13-3/8 in. casing with 400 sx. (308 bbl) of Varicem w/ LCM additives and a density of 10.4 lb/gal, and 490 sx. (101 bbl) of Halcem “G” cement w/ 1/8lb/sx poly-e-flake and 1% CaCl₂ with a density of 15.6 lb/gal. Bumped plug w/ 875 psi. Floats held. Circulated 60 bbls of cement to surface. MW – 9.2 lb/gal, Vis. 38 sec., FL – 24 cc.

23 January 2009

Cut off 13-3/8 in. casing and 24-in. conductor casing. Installed 13-3/8 in. casing head with 5,000 psi WP, 13-5/8 in. flange. Tested casing head weld to 1,000 psi for 15 min. Nippling up BOPE.

24 January 2009

Nipple up BOPE. Pressure tested BOPE to 5,000 psi and 250 psi. Found leak in BOP door seal. Made repairs on BOP door seal.

25 January 2009

Completed repair to BOP door seal. Pressure tested BOPE to 5,000 psi and 250 psi. Attempted to test accumulator. Of 24 total bottles, six had zero pressure, and seven had low pressure. Recharged bottles. Pressure tested casing to 1,500 psi for 30 minutes. Larry Denny with BLM witnessed tests.

26 January 2009

Picked up BHA and trip in hole to top of cement. Displaced fresh water mud inside casing with saturated salt mud. Drilled float collar and cement to 1,966 ft.

27 January 2009

Drilled cement from 1,966 ft. to float collar. Drilled float collar at 2,004 ft. Drilled 12-1/4 in. hole to 2,014 ft. Performed formation integrity test at 2,014 ft. to 12 lb/gal equivalent pressure. Drilled 12-1/4 in. hole from 2,014 ft. to 2,828 ft. MW – 10.1 lb/gal, Vis. 43 sec., FL – 9.2 cc. Surveys: 2,140 ft. – 0.09°, 2,234 ft. – 0.16°, 2,327 ft. – 0.22°, 2,422 ft. – 0.15°, 2,515 ft. – 0.12°, 2,608 ft. – 0.16°, 2,701 ft. – 0.26°.

28 January 2009

Drilled 12-1/4 in. hole from 2,828 ft. to 3,636 ft. MW – 10.2 lb/gal, Vis. 41 sec., FL – 7.4 cc. Surveys: 2,984 ft. – 0.38°, 3,079 ft. – 0.27°, 3,172 ft. – 0.04°, 3,268 ft. – 0.19°, 3,361 ft. – 0.02°, 3,454 ft. – 0.05°, 3,548 ft. – 0.00°.

29 January 2009

Drilled 12-1/4 in. hole from 3,636 ft. to 4,240 ft. MW – 10.2 lb/gal, Vis. 41 sec., FL – 6.8 cc. Surveys: 3,643 ft. – 0.18°, 3,736 ft. – 0.23°, 3,831 ft. – 0.09°, 3,925 ft. – 0.15°, 4,020 ft. – 0.20°, 4,113 ft. – 0.18°.

30 January 2009

Drilled 12-1/4 in. hole from 4,240 ft. to 4,909 ft. MW – 10.2 lb/gal, Vis. 41 sec., FL – 6.2 cc. Surveys: 4,207 ft. – 0.01°, 4,300 ft. – 0.22°, 4,395 ft. – 0.02°, 4,490 ft. – 0.14°, 4,585 ft. – 0.21°, 4,680 ft. – 0.19°, 4,775 ft. – 0.68°.

31 January 2009

Drilled 12-1/4 in. hole from 4,909 ft. to 5,516 ft. MW – 10.2 lb/gal, Vis. 43 sec., FL – 5.8 cc. Surveys: 4,868 ft. – 0.18°, 4,962 ft. – 0.25°, 5,057 ft. – 0.27°, 5,151 ft. – 0.07°, 5,245 ft. – 0.15°, 5,337 ft. – 0.09°, 5,433 ft. – 0.18°.

1 February 2009

Drilled 12-1/4 in. hole from 5,516 ft. to 6,088 ft. MW – 10.2 lb/gal, Vis. 43 sec., FL – 5.5 cc. Surveys: 5,527 ft. – 0.27°, 5,621 ft. – 0.18°, 5,715 ft. – 0.12°, 5,809 ft. – 0.15°, 5,903 ft. – 0.25°, 5,667 ft. – 0.07°.

2 February 2009

Drilled 12-1/4 in. hole from 6,088 ft. to 6,699 ft. MW – 10.2 lb/gal, Vis. 40 sec., FL – 6.0 cc. Surveys: 5,997 ft. – 0.07°, 6,091 ft. – 0.23°, 6,186 ft. – 0.16°, 6,280 ft. – 0.07°, 6,375 ft. – 0.70°, 6,470 ft. – 0.14°, 6,565 ft. – 0.18°.

3 February 2009

Drilled 12-1/4 in. hole from 6,699 ft. to 6,787 ft. MW – 10.25 lb/gal, Vis. 44 sec., FL – 6.2 cc. Surveys: 6,660 ft. – 0.09°. Made trip for bit at 6,787 ft.

4 February 2009

BHI motor failed to synchronize with computer. Waited on new motor.

5 February 2009

Drilled 12-1/4 in. hole from 6,787 ft. to 6,827 ft. MW – 10.2 lb/gal, Vis. 43 sec., FL – 7.0 cc. No new surveys.

6 February 2009

Drilled 12-1/4 in. hole from 6,827 ft. to 7,319 ft. MW – 10.25 lb/gal, Vis. 45 sec., FL – 9.6 cc. Surveys: 6,834 ft. – 0.09°, 6,929 ft. – 0.09°, 7,024 ft. – 0.18°, 7,116 ft. – 0.09°, 7,210 ft. – 0.09°. Stuck drill string while drilling at 7,319 ft. Working pipe to free string.

7 February 2009

Worked drill string free. Drilled 12-1/4 in. hole from 7,317 ft. to 7,377 ft. MW – 10.2 lb/gal, Vis. 43 sec., FL – 6.0 cc. Survey: 7,304 ft. – 0.18°

8 February 2009

Drilled 12-1/4 in. hole from 7,377 ft. to 7,680 ft. MW – 10.2 lb/gal, Vis. 46 sec., FL – 6.0 cc. Surveys: 7,405 ft. – 0.08°, 7,496 ft. – 0.18°, 7,591 ft. – 0.02°.

9 February 2009

Drilled 12-1/4 in. hole from 7,680 ft. to 8,041 ft. MW – 10.2 lb/gal, Vis. 46 sec., FL – 5.8 cc. Surveys: 7,684 ft. – 0.13°, 7,778 ft. – 0.09°, 7,871 ft. – 0.19°, 7,963 ft. – 0.02°.

10 February 2009

Drilled 12-1/4 in. hole from 8,041 ft. to 8,272 ft. MW – 10.2 lb/gal, Vis. 47 sec., FL – 6.2 cc. Surveys: 8,058 ft. – 0.11°, 8,151 ft. – 0.11°.

11 February 2009

Drilled 12-1/4 in. hole from 8,272 ft. to 8,356 ft. Stuck bit in fractured zone while rotating. Spotted fresh water and freed bit. MW – 10.2 lb/gal, Vis. 45 sec., FL – 7.0 cc. Survey: 8,244 ft. – 0.13°

12 February 2009

Pulled Vertitrac assembly and bit. Ran mill tooth bit with no downhole motor to clean out and condition hole. Drilled 12-1/4 in. hole from 8,356 ft. to 8,388ft. MW – 10.2 lb/gal, Vis. 46 sec., FL – 5.2 cc.

13 February 2009

Re ran Vertitrac and PDC bit. Drilled 12-1/4 in. hole from 8,388 ft. to 8,510 ft. MW – 10.25 lb/gal, Vis. 48 sec., FL – 5.4 cc. Surveys: 8,342 ft. – 0.13°, 8,436 ft. – 0.02°.

14 February 2009

Drilled 12-1/4 in. hole from 8,510 ft. to 8,723 ft. MW – 10.3 lb/gal, Vis. 51 sec., FL – 5.6 cc. Surveys: 8,528 ft. – 0.15°, 8,623 ft. – 0.18°.

15 February 2009

Drilled 12-1/4 in. hole from 8,723 ft. to 8,880 ft. Started bit trip. MW – 10.3 lb/gal, Vis. 48 sec., FL – 5.6 cc. Surveys: 8,528 ft. – 0.15°, 8,623 ft. – 0.18°, 8,718 ft. – 0.15°, 8,810 ft. – 0.08°.

16 February 2009

Completed trip for bit. Drilled 12-1/4 in. hole from 8,880 ft. to 8,915 ft. MW – 10.3 lb/gal, Vis. 53 sec., FL – 5.8 cc. Surveys: None

17 February 2009

Drilled 12-1/4 in. hole from 8,915 ft. to 8,976 ft. MW – 10.3 lb/gal, Vis. 51 sec., FL – 5.6 cc. Survey: 8,904 ft. – 0.04°.

18 February 2009

Made trip for bit. Bit was 1-1/2 in. out of gauge. Left three bit nozzles in hole. Ran mill and junk basket to open hole and remove bit nozzles. Drilled 12-1/4 in. hole from 8,976 ft. to 8,977 ft. with mill. Pulled mill and junk basket. MW – 10.3 lb/gal, Vis. 52 sec., FL – 5.4 cc. Survey: None

19 February 2009

Recovered most of broken bit nozzles. Ran bit and Vertitrak. Drilled 12-1/4 in. hole from 8,977ft. to 9,098ft. MW – 10.35lb/gal, Vis. 50 sec., FL – 5.4 cc. Survey: 9,000 ft. – 0.34°.

20 February 2009

Drilled 12-1/4 in. hole from 9,098 ft. to 9,399 ft. MW – 10.4 lb/gal, Vis. 55 sec., FL – 5.4 cc. Surveys: 9,094 ft. – 0.14°, 9,187 ft. – 0.16°, 9,282 ft. – 0.33°.

21 February 2009

Circulate and condition for logs, TOH, commence wire line logging. MW – 10.4 lb/gal, Vis. 67 sec., FL – 5 cc. Surveys: None.

22 February 2009

Log, TIH w/ bit to condition hole, C&C. MW – 10.45 lb/gal, Vis. 81 sec., FL – 4.8 cc. Surveys: None.

23 February 2009

C&C hole, TOH, wire line logging. MW – 10.45 lb/gal, Vis. 86 sec., FL – 4 cc. Surveys: None

24 February 2009

Wire Line Logging and sidewall cores. MW – 10.45 lb/gal, Vis. 86 sec., FL – 3.8 cc. Surveys: None.

25 February 2009

Side wall cores, TIH while conditioning mud. MW – 10.55 lb/gal, Vis. 92 sec., FL – 3.6 cc. Surveys: None

26 February 2009

TIH while conditioning mud, C&C, TOH, RU casers, begin running 9⁵/₈ casing. MW – 10.4 lb/gal, Vis. 67 sec., FL – 4.4 cc. Surveys: None.

27 February 2009

Ran 9⁵/₈ casing to TD, attempt to circulate, work on lost circulation problem. MW – 10.5 lb/gal, Vis. 78 sec., FL – 4.2 cc. Surveys: None.

28 February 2009

Depth 9399'. Treat lost circulation, regain circulation, cement 9-5/8 casing in two stages. MW – 9.75 lb/gal, Vis. 60 sec., FL – 9.8 cc. Surveys: None.

01 March 2009

Depth 9399'. Finish 2nd stage cement job, WOC, hang casing in wellhead, NU BOP stack and test BOP's. MW – 9.9 lb/gal, Vis. 63 sec., FL – 13 cc. Surveys: None.

02 March 2009

Depth 9399'. TIH w/ 8-1/2 bit, drill stage collar, wash and ream to bottom of casing. MW – 9.8 lb/gal, Vis. 57 sec., FL – 12 cc. Surveys: None

03 March 2009

Depth 9600'. Drill shoe jts + 10 ft of hole, FIT to 10.2 ppg EMW, drill to 9600'. MW – 9.55 lb/gal, Vis. 51 sec., FL – 5.2 cc. Surveys: 0.18 degrees at 9490'.

04 March 2009

Depth 9839'. Drill & survey to 9839', TOH. MW – 9.5 lb/gal, Vis. 50 sec., FL – 4.4 cc. Surveys: 0.18 degrees at 9585', 0.09 degrees at 9679' & 0.26 degrees at 9773'.

05 March 2009

Depth 9963'. TFNB, drill & survey to 9963'. MW – 9.35 lb/gal, Vis. 55 sec., FL – 4.6 cc. Surveys: 0.09 degrees at 9869'.

06 March 2009

Depth 10187'. Drill & survey to 10187'. MW – 9.2 lb/gal, Vis. 54 sec., FL – 4.8 cc. Surveys: 0.18 degrees at 9963', 0.18 degrees at 10058' & 0.35 degrees at 10153'.

07 March 2009

Depth 10326'. Drill & survey, TFNB. MW – 9.2 lb/gal, Vis. 50 sec., FL – 4.2 cc. Surveys: 1.23 degrees at 10245'.

08 March 2009

Depth 10526'. TIH, ream, drill & survey to 10526'. MW – 9.1 lb/gal, Vis. 49 sec., FL – 4 cc. Surveys: 0.18 degrees at 10340' & 0.35 degrees at 10434'.

09 March 2009

Depth 10785'. Drill & survey to 10785'. MW – 9.15 lb/gal, Vis. 49 sec., FL – 4.2 cc. Surveys: 0.44 degrees at 10527', 0.18 degrees at 10622' & 0.35 degrees at 10717'.

10 March 2009

Depth 10848'. Drill to 10794, TFNB, ream to bottom, drill to 10848'. MW – 9.1 lb/gal, Vis. 48 sec., FL – 3.6 cc. Surveys: 0.44 degrees at 10812'.

11 March 2009

Depth 11011'. Drill & survey to 11011'. MW – 9.0 lb/gal, Vis. 55 sec., FL – 4.0 cc. Surveys: 0.44 degrees at 10905'.

12 March 2009

Depth 11235'. Drill & survey to 11235'. MW – 9.1 lb/gal, Vis. 54 sec., FL – 4.0 cc. Surveys: 0.44 degrees at 11000', 0.09 degrees at 11095' & 0.26 degrees at 11189'.

13 March 2009

Depth 11390'. Drill & survey to 11390'. MW – 9.1 lb/gal, Vis. 56 sec., FL – 4.2 cc. Surveys: 0.18 degrees at 9963', 0.18 degrees at 10058' & 0.53 degrees at 11281'.

14 March 2009

Depth 11425'. TFNB, Drill & survey to 11425'. MW – 9.1 lb/gal, Vis. 56 sec., FL – 4.0 cc. Surveys: 0.09 degrees at 11374'.

15 March 2009

Depth 11551'. Drill & survey to 11551'. MW – 9.1 lb/gal, Vis. 56 sec., FL – 4.2 cc. Surveys: 0.44 degrees at 11469'.

16 March 2009

Depth 11590'. Drill & survey to 11590', TFNB. MW – 9.0 lb/gal, Vis. 55 sec., FL – 4 cc. Surveys: 0.70 degrees at 11564'.

17 March 2009

Depth 11604'. TFNB, drill & survey to 11604'. MW – 9.05 lb/gal, Vis. 54 sec., FL – 4.2 cc. Surveys: None.

18 March 2009

Depth 11800'. Drill & survey to 11800'. MW – 9.0 lb/gal, Vis. 58 sec., FL – 4.0 cc. Surveys: 0.18 degrees at 11659' & 0.26 degrees at 11753'.

19 March 2009

Depth 11900'. Drill & survey to 11900'. MW – 9.25 lb/gal, Vis. 58 sec., FL – 4.2 cc. Surveys: 0.28 degrees at 11848'.

20 March 2009

Depth 12075'. Drill & survey to 112075'. MW – 9.3 lb/gal, Vis. 58 sec., FL – 4 cc. Surveys: 0.70 degrees at 11941' & 0.79 degrees at 12033'.

21 March 2009

Depth 12284'. Drill & survey to 12284'. MW – 9.3 lb/gal, Vis. 59 sec., FL – 4.0 cc. Surveys: 0.26 degrees at 12127' & 0.18 degrees at 12221'.

22 March 2009

Depth 12487'. Drill & survey to 112487'. MW – 9.35 lb/gal, Vis. 60 sec., FL – 4.1 cc. Surveys: 0.79 degrees at 12313' & 0.26 degrees at 12403'.

23 March 2009

Depth 12750'. Drill & survey to 12750', TFNB. MW – 9.35 lb/gal, Vis. 61 sec., FL – 4 cc. Surveys: 0.62 degrees at 12499', 0.35 degrees at 12594' & 0.35 degrees at 12688'.

24 March 2009

Depth 13019'. Drill & survey to 13019'. MW – 9.35 lb/gal, Vis. 66 sec., FL – 4.1 cc. Surveys: 0.26 degrees at 12781', 0.35 degrees at 12874' & 0.26 degrees at 12967'.

25 March 2009

Depth 13329'. Drill & survey to 13329'. MW – 9.35 lb/gal, Vis. 60 sec., FL – 4.1 cc. Surveys: 0.18 degrees at 13063', 0.26 degrees at 13158' & 0.18 degrees at 13253'.

26 March 2009

Depth 13330'. Drill to 13330', C&C. MW – 9.5 lb/gal, Vis. 82 sec., FL – 4 cc. Surveys: None.

27 March 2009

Depth 13330'. C&C, short trip, TOH. MW – 9.6 lb/gal, Vis. 94 sec., FL – 3.8 cc. Surveys: None.

28 March 2009

Depth 13330'. TOH, LD mud motor, TIH w/ bit, C&C, ream hole. MW – 9.65 lb/gal, Vis. 95 sec., FL – 3.8 cc. Surveys: None.

29 March 2009

Depth 13330'. Wash & ream, work tight hole. MW – 9.5 lb/gal, Vis. 107 sec., FL – 4.1 cc. Surveys: None.

30 March 2009

Depth 13330'. Wash & ream, work tight hole. MW – 9.55 lb/gal, Vis. 105 sec., FL – 4.3 cc. Surveys: None.

31 March 2009

Depth 13330'. Wash & ream, C&C, short trip to casing shoe, TOH, RU open hole loggers. MW – 9.5 lb/gal, Vis. 98 sec., FL – 4 cc. Surveys: None.

01 April 2009

Depth 13330'. Log w/ Halliburton, GIH w/ Halliburton sidewall core tool. MW – 9.5 lb/gal, Vis. 95 sec., FL – 4 cc. Surveys: None.

02 April 2009

Depth 13330'. Cut sidewall cores, run bond log on 9-5/8 intermediate casing, test BOP stack. MW – 9.5 lb/gal, Vis. 95 sec., FL – 4 cc. Surveys: None.

03 April 2009

Depth 13330'. Test BOP stack, cut sidewall cores w/ Schlumberger, TIH, C&C. MW – 9.7 lb/gal, Vis. 85 sec., FL – 4 cc. Surveys: None.

04 April 2009

Depth 13330'. C&C. MW – 9.8 lb/gal, Vis. 61 sec., FL – 4.2 cc. Surveys: None.

05 April 2009

Depth 13330'. C&C. MW – 9.9 lb/gal, Vis. 54 sec., FL – 4.2 cc. Surveys: None.

06 April 2009

Depth 13340'. Wash & ream, drill to 13340, C&C. MW – 10.2 lb/gal, Vis. 52 sec., FL – 4.6 cc. Surveys: None.

07 April 2009

Depth 13340'. C&C, short trip, C&C. MW – 10.3 lb/gal, Vis. 55 sec., FL – 4.6 cc. Surveys: None.

08 April 2009

Depth 13340'. C&C, short trip, C&C. MW – 10.3 lb/gal, Vis. 59 sec., FL – 4.8 cc. Surveys: None.

09 April 2009

Depth 13340'. C&C, short trip, C&C, short trip, C&C. MW – 10.2 lb/gal, Vis. 57 sec., FL – 4.6 cc. Surveys: None.

10 April 2009

Depth 13340'. C&C, TOH, RU laydown machine, LD 5" HWDP, RU casing crew, run 7-5/8" casing. MW – 10.25 lb/gal, Vis. 59 sec., FL – 4.4 cc. Surveys: None.

11 April 2009

Depth 13340'. Run 7-5/8 casing liner, run 33.7# P-110 VAM FJL csg to TD, hole bridged off, lost returns, work pipe. MW – 10.2 lb/gal, Vis. 68 sec., FL – 4.4 cc. Surveys: None.

12 April 2009

Depth 13340'. Work liner free, hang liner at 13315, TOL at 9174, cement liner w/ Halliburton, pumped 310 sx Bondcem at 14.5 ppg, full returns throughout job, plug did not bump, sting out of liner, pull 10 stands, RU LD crew, LD 5" DP. MW – 10.15 lb/gal, Vis. 59 sec., FL – 4.8 cc. Surveys: None.

13 April 2009

Depth 13340'. LD 5" DP, PU 4" DP & HWDP, stand back same, change to variable rams in BOP's, test BOP stack. MW – 10.2 lb/gal, Vis. 58 sec., FL – 4.2 cc. Surveys: None.

14 April 2009

Depth 13340'. Test BOP stack, RIH w/ 8-1/2 bit to TOL, circ btms up, recorded change in pH, circ some cement slurry, no cmt chips could be seen, TOH. MW – 10.1 lb/gal, Vis. 55 sec., FL – 5 cc. Surveys: None.

15 April 2009

Depth 13340'. TOH, TIH w/ 6-1/2 bit, trip into liner, drill no cement, circulate, no cement on bottoms up, GIH, tag cement at 13188, drill to 13193. MW – 10.15 lb/gal, Vis. 51 sec., FL – 4.6 cc. Surveys: None.

16 April 2009

Depth 13340'. Drill cmt from 13193 to 13271, bond log liner w/ Halliburton, bond log intermediate csg. MW – 10.1 lb/gal, Vis. 53 sec., FL – 5.6 cc. Surveys: None.

17 April 2009

Depth 13340'. Bond log 9-5/8 intermediate casing, rig service, rig repair. MW – 10.2 lb/gal, Vis. 50 sec., FL – 5.1 cc. Surveys: None.

18 April 2009

Depth 13340'. TIH w/ 6-1/2 bit, C&C, raise mud weight. MW – 10.3 lb/gal, Vis. 53 sec., FL – 5.3 cc. Surveys: None.

19 April 2009

Depth 13344'. Drill out cement in liner shoe (drillers casing shoe at 13308 DF SLM), drill to 13318, perform FIT (test to 13.0 ppg EMW, no leak off), C&C, drill to 13344. MW – 10.6 lb/gal, Vis. 61 sec., FL –4.1 cc. Surveys: None.

20 April 2009

Depth 13350'. Drill to 13350, TOH for motor & PDC bit, RIH w/ BHA, MWD would not test, POOH for new MWD tool. MW – 10.65 lb/gal, Vis. 64 sec., FL – 4.4 cc. Surveys: None.

21 April 2009

Depth 13377'. TIH, ream to bottom, drill to 13377. MW – 10.75 lb/gal, Vis. 73 sec., FL – 4.4 cc. Surveys: 0.4 degrees at 13291'.

22 April 2009

Depth 13626'. Drill to 13626. MW – 10.65 lb/gal, Vis. 63 sec., FL – 4.4 cc. Surveys: 4.6 degrees at 13359', 4.2 degrees at 13389', 1.7 degrees at 13446', 0.4 degrees at 13478', 0.0 degrees at 13545'.

23 April 2009

Depth 13878'. Drill to 13878. MW – 10.7 lb/gal, Vis. 60 sec., FL – 4.2 cc. Surveys: 0.0 degrees at 13573', 0.0 degrees at 13635', 0.1 degrees at 13670'.

24 April 2009

Depth 14048'. Drill to 14048. MW – 10.7 lb/gal, Vis. 60 sec., FL – 4.3 cc. Surveys: 0.1 degrees at 13775', 0.2 degrees at 13855', 0.2 degrees at 13948'.

25 April 2009

Depth 14159'. Drill to 14159. MW – 10.65 lb/gal, Vis. 61 sec., FL – 4.3 cc. Surveys: 0.2 degrees at 14032'.

26 April 2009

Depth 14242'. Drill to 14232. MW – 10.65 lb/gal, Vis. 60 sec., FL –4.0 cc. Surveys: 0.3 degrees at 14128'.

27 April 2009

Depth 14250'. Drill to 14250, C&C, TOH w/ mud motor, LD motor & MWD. MW – 10.6 lb/gal, Vis. 65 sec., FL – 3.8 cc. Surveys: None.

28 April 2009

Depth 14250'. LD motor & directional tools, TIH w/ bit, tag at 13408, wash & ream to 14095. MW – 10.6 lb/gal, Vis. 61 sec., FL – 4.0 cc. Surveys: None.

29 April 2009

Depth 14250'. Wash & ream to 14243, hole packed off, work free, wash & ream, magnetic brake failed. MW – 10.85 lb/gal, Vis. 57 sec., FL – 4.0 cc. Surveys: None.

30 April 2009

Depth 14250'. C&C, wait on crane for magnetic brake repair, POOH to 14060, hole packed off, work free, POOH to 13247, wait on welder. MW – 11.0 lb/gal, Vis. 55 sec., FL – 4.2 cc. Surveys: None.

1 May 2009

Depth 14250'. Install magnetic brake, wash in hole, tag at 13475, ream to 14100. MW – 11.1 lb/gal, Vis. 87 sec., FL – 4.3 cc. Surveys: None.

2 May 2009

Depth 14250'. Wash & ream unstable hole, raise mud weight. MW – 11.7 lb/gal, Vis. 76 sec., FL – 4.3 cc. Surveys: None.

3 May 2009

Depth 14250'. C&C, raise MW to 11.9, POOH to csg shoe, TIH, work through bridge, work on lost circulation, condition hole. MW – 11.9 lb/gal, Vis. 94 sec., FL – 4.3 cc. Surveys: None.

4 May 2009

Depth 14250'. Work on lost circulation, wash & ream, POOH. MW – 12.0 lb/gal, Vis. 77 sec., FL – 4.2 cc. Surveys: None.

5 May 2009

Depth 14250'. POOH, run open hole logs w/ Howco, GIH open ended. MW – 12.0 lb/gal, Vis. 77 sec., FL – 4.2 cc. Surveys: None.

6 May 2009

Depth 14250'. GIH open ended to 13578, wait on Howco cementers, set balanced cement plug from 13578 to a calculated depth of 13100, POOH to 9200, circulate, lost 8 bbl mud while WOC. MW – 12.0 lb/gal, Vis. 77 sec., FL – 4.2 cc. Surveys: None.

7 May 2009

Depth 14250', PBTD 13100. WOC, GIH, tag cmt at 13315, circ btms up, spot 2nd balanced plug from 13315 to 13100, POOH to 12885, displace hole w/ fresh water, POOH to 9200, circulate w/ fresh water, LDDP & HWDP. MW – 8.33 lb/gal, Vis. 26 sec., FL – 0.0 cc. Surveys: None.

8 May 2009

Depth 14250'. LDDP & HWDP, RU casers, run 5-1/2 production csg to 12830. MW – 8.33 lb/gal, Vis. 26 sec., FL – 0.0 cc. Surveys: None.

9 May 2009

Depth 14250', csg shoe at 12830'. Finish running 5-1/2 casing to 12830 ft, RD casers, RU & pump cement w/ Howco, cemented 5-1/2 csg w/ 465 sx 65/35 pozmix + 10% gel + 6 #/sk silicalite + 25% SSA-1 + 0.4% Halad 344 + 0.15% econolite + 0.1% veraset mixed at 11.5 ppg, 3.3 cf/sk yield, calculated cement lift to 4000', RD Howco, PU stack, install csg hanger, set 200 kips on slips, ND BOP stack, RD top drive. MW – 8.33 lb/gal, Vis. 26 sec., FL – 0.0 cc. Surveys: None.

10 May 2009

Depth 14250', csg shoe at 12830'. RD & load out top drive, rig release 14:30 hrs 9 May 09, RDRT. MW – N/A, Vis. N/A, FL – N/A cc. Surveys: None.

11 May 2009

Depth 14250', csg shoe at 12830'. RDMORT, clean rig, load out rental solids control equipment. MW – N/A, Vis. N/A, FL – N/A. Surveys: None.

12 May 2009

Depth 14250', csg shoe at 12830'. Clean rig & RDMORT, lower drawworks & derrick. MW – N/A, Vis. N/A, FL – N/A. Surveys: None.

13 May 2009

Depth 14250', csg shoe at 12830'. RDMORT. MW – N/A, Vis. N/A, FL – N/A. Surveys: None.

14 May 2009

Depth 14250', csg shoe at 12830'. RDMORT. MW – N/A, Vis. N/A, FL – N/A. Surveys: None.

15 May 2009

Depth 14250', csg shoe at 12830'. Clean location, final report until completion operations begin. MW – N/A, Vis. N/A, FL – N/A. Surveys: None.

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

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

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

Lease Serial No. **UTU-80907**

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

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

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

4. Location of Well (Report location clearly and in accordance with Federal requirements)*
 At surface **975' FSL, 41' FWL, SW SW 24-20S-1E**
 At top prod. interval reported below **975' FSL, 41' FWL, SW SW 24-20S-1E**
 At total depth **1056 FSL, 41' FWL, SW SW 24-20S-1E**

6. If Indian, Allottee or Tribe Name **NA**
 7. Unit or CA Agreement Name and No. **Wolverine Unit**
 8. Lease Name and Well No. **Providence Federal 24-4**
 9. AFI Well No. **43-039-30040**
 10. Field and Pool, or Exploratory **Wildcat**
 11. Sec., T., R., M., on Block and Survey or Area **24, 20S, 1E, SLB&M**
 12. County or Parish **Sanpete** 13. State **UT**
 14. Date Spudded **01/16/2009** 15. Date T.D. Reached **04/29/2009** 16. Date Completed **09/23/2009**
 D & A Ready to Prod.
 17. Elevations (DF, RKB, RT, GL)* **5517' KB, 4491' GL**

18. Total Depth: MD **14,250** TVD **14250.49** 19. Plug Back T.D.: MD **12,770** TVD **12,770.69** 20. Depth Bridge Plug Set: MD **11,800;9306;9114; 9074** TVD **11,800;9306;9114 9074**

21. Type Electric & Other Mechanical Logs Run (Submit copy of each)
ERMI,BCS,DLL,SD-DSN,CBL,Cement Evaluation, Casing Inspection

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

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

Hole Size	Size/Grade	Wt. (#/ft.)	Top (MD)	Bottom (MD)	Stage Cementer Depth	No. of Sk. & Type of Cement	Slurry Vol. (BBL)	Cement Top*	Amount Pulled
30"	24"	0.25 wall	Surface	146'		redi mix	53	Surface	0
17.5"	13.375"	68.0	Surface	2001'		400 VeriCem	308	Surface	0
"	"	"				490 Class G	101		
12.25"	9.625"	53.5	Surface	9400'	8633.62'	1790 Poz+G	628	Surface	0
8.5"	7.625"	33.7	9174	13,315'		310 BondCem	80	6993 (calc)	0
6.5"	5.5"	20		12,830'		465 65:35 Poz	273	6390 (CBL)	0

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	8959' KB	8940' KB						

25. Producing Intervals

Formation	Top	Bottom	Perforated Interval	Size	No. Holes	Perf. Status
A) Moenkopi	10811	11367	11,836-11,902	.40"	204	below plugs
B) Navajo	8988	9835	9117-9126	.40"	27	squeezed
C) Navajo	8988	9835	9078-9104	.40"	42	squeezed
D) See supplemental sheet			See supplemental sheet			

26. Perforation Record **9019 - 9039 open**

Depth Interval	Amount and Type of Material
A) 11836-11902	5000 gal. 15% FE and 200 Bio-balls
B) 9117-9126	
C) 9078-9104	

See Supplemental sheet

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
05/31/2009	06/11/2009	24	→	0	TSTM	0			Swab/Flared gas
Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas/Oil Ratio	Well Status	
			→		TSTM				Isolate with CIBP @ 11,800'

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
06/13/2009	06/14/2009	48	→	47	nil	49			swabbing
Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas/Oil Ratio	Well Status	
			→						Isolate with CIBP @ 9114'

*(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
06/16/2009	06/29/2009	216	→	435		2137			swab/flared gas
Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas/Oil Ratio	Well Status	
	60		→	72	nil	288		Squeezed	

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
07/07/2009	07/10/2009	72	→	134	1500	31			flow
Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas/Oil Ratio	Well Status	
	130		→	60	500	0	8,333	Perfs Open	

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

Flared during testing

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	8923	9835		Arapien Twin Creek Navajo Kayenta Wingate Chinle Shinarump Moenkopi Schnabkaib Sinbad Black Dragon Navajo 2	Surface 8597 8923 9835 9982 10320 10700 10811 11367 12039 12558 14091

32. Additional remarks (include plugging procedure):

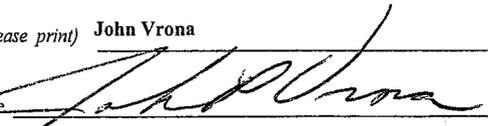
33. Indicate which items have been attached by placing a check in the appropriate boxes:

- 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) John Vrona

Title Exploration Manager

Signature 

Date 01/05/2009

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.

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Form 3160-4 Supplemental Completion Information Well Completion Report and Log

Providence Federal 24-4, Sanpete Co, UT
API # 43-039-30040

25. Producing Intervals

Interval Formation	Top	Bottom
D)	Navajo I	8988-9835
E)	Navajo I	8988-9835
F)	Navajo I	8988-9835

26. PERFORATION RECORD

Interval	Perforation Interval	Size	No. Holes	Perf. Status
D)	9050-9066	.40"	48 holes	open
E)	9014-9039	.40"	75 holes	open
F)	9050-9066 and 9014-9039			

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

Interval	Depth Interval	Amount and Type of Material
D)	9050-9066	
E)	9014-9039	5,166 gal. completion & breakdown fluid + 150 bio balls
F)	9050-9066 and 9014-9039	

28c. Production – Interval E

Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
7/11/2009	7/14/2009	72		120	487	26			Flowing
Choke Size	Tbg. Press. Flwg.	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas/Oil Ratio	Well Status	
48/64	150		→	66	600	0	9090	Shut in	

28c. Production – Interval F

Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
7/16/2009	7/24/2009	210		1599	10799	107	47.8		Flowing
Choke Size	Tbg. Press. Flwg.	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas/Oil Ratio	Well Status	
48/64	356 psi		→	175	1155	5	6600	Shut in	

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Testing and Completion Summary

Providence Federal 24-4

May 27, 2009 to Present (August 6, 2009)

Purpose of Work: Complete and test Moenkopi and Navajo1

Time Summary:

- | | | |
|------|-----------------------|---------------------------------------|
| I. | 5/18/2009 - 5/29/2009 | Prepare site and well for completion. |
| II. | 5/30/2009 - 6/11/2009 | Test and permanently abandon Moenkopi |
| III. | 6/12/2009 – Present | Complete and test Navajo1 |

Production Summary:

Navajo1 Formation

Perforations:	9014' – 9039', 9050' – 9066'
Stimulation:	Water break-down with diverter balls
Final Rates:	173 BOPD, 3 BWPD, and 1137 MCFD with FTP of 340 psi
Artificial Lift:	None
Producing Days:	9 days (to date)
Recovery:	1601 BO, 105 BW, and 11.3 MMCF (gross field estimates)

Moenkopi Formation

Perforations:	11,836' - 11,849', 11,859 – 11,871', 11,895' – 11,902'
Stimulation:	Acidized with 5000 gallons of 15% FE and diverter balls
Final Rates:	Too little to measure
Artificial Lift:	Swabbing
Producing Days:	3 days
Recovery:	Insignificant

Work Summary:

- I. 5/18/2009 - 5/29/2009 Prepare site and well for completion.**
1. Ran a bit and casing scraper to 12,782' and circulated caustic/acid solutions to clean tubing and casing.
 2. Ran a radial CBL from 12,750' to 6017' with 1000 psi. Estimated top of cement behind 5-1/2" casing is 6390'.
- II. 5/30/2009 - 6/11/2009 Test and permanently abandon Moenkopi**
3. Perforated Moenkopi at 11,836' - 11,849', 11,859 – 11,871', and 11,895' – 11,902' using tubing conveyed 4" hollow carriers loaded with 3 SPF. Packer was set at 11,464'.
 4. Swabbed well dry with no significant liquid entry and there was sufficient gas flow to produce only a 2' weak flare.
 5. Sheared releasing tool that allowed perforating guns to drop to bottom of well.

6. Stimulated Moenkopi perforations at 11,836' to 11,902' using 5000 gallons of 15% FE acid and 200 Bio-balls for diversion.
7. Flowed and swabbed total of 300 Bbls of water with sight gas flow. Pulled packer.
8. Set CIBP at 11,800' and placed a cement plug on top of CIBP consisting of 25 sacks of Class G containing 30% Silica (15.6 ppg, 1.51 yield). Pulled tubing to 11,490' and circulated 10.3 ppg brine with preserving chemicals to fill from PBTD to 9250. Pulled tubing and wireline set CIBP at 9306'.

III. 6/12/2009 – Present Complete and test Navajo1

9. Perforated Navajo1 at 9117' – 9126' using 4" carriers loaded 3 SPF.
10. Wireline set a retrievable packer assembly at 9091' and ran tubing to latch packer assembly.
11. Swabbed total of 96 Bbls of water and oil mix swabbing from seating nipple at 9058' with limited fluid entry.
12. Pulled tubing and packer and wireline set a CIBP at 9114'.
13. Perforated Navajo1 at 9078' – 9084' and 9092' – 9104' using 4" carriers loaded 3 SPF.
14. Wireline set a retrievable packer assembly at 8990' and ran tubing to latch packer assembly.
15. Swabbed and flowed from perforations at 9078' – 9084' and 9092' – 9104' for nine days and recovered 2137 BW and 435 BO. Final flow rate was 360 BFPD with 60 psi flowing tubing pressure, 80% water-cut, and unknown low gas rate.
16. Wireline set a CICR at 9074'. Ran tubing to CICR and squeezed perforations at 9078' – 9084' and 9092' – 9104' using 25 sacks of Poz-Premium 50/50 SBM cement (14.1 ppg, 1.48 yield). Pulled tubing.
17. Round tripped a bit and casing scraper and tagged CICR at 9074'.
18. Perforated Navajo1 at 9050' – 9066' using 4" carriers loaded 3 SPF.
19. Wireline set a retrievable packer assembly at 9000' and ran tubing to latch packer assembly.
20. Swabbed 10 Bbls and well started to flow.
21. Swabbed and flowed from perforations at 9050' – 9066' for three days and recovered 31 BW and 134 BO. Final flow rate was 60 BOPD with no water, 130 psi flowing tubing pressure, and approximately 500 MCFD gas rate.
22. Pulled tubing and packer and wireline set a CIBP at 9046'.
23. Perforated Navajo1 at 9014' – 9039' using 4" carriers loaded 3 SPF.
24. Wireline set a retrievable packer assembly at 8950' and ran tubing to latch packer assembly.
25. Swabbed and flowed from perforations at 9014' – 9039' for three days and recovered 26 BW and 120 BO. Final flow rate was 66 BOPD with no water, 150 psi flowing tubing pressure, and approximately 600 MCFD gas rate.
26. Broke down Navajo1 perforations at 9014' – 9039' using a total of 123 Bbls of 4% KCl water and additives and 150 ball sealers.
27. Pulled packer. Ran a 4-5/8" mill and drilled out the CIBP at 9046'. Tagged PBTD at 9074' and pulled tubing.
28. Wireline set a retrievable packer assembly at 8940'. Ran tubing, circulated corrosion inhibitor and packer fluid, latched packer, and landed tubing in tension.

29. ND BOP and NU wellhead. Swabbed well and initiated flow testing perforations at 9014' – 9039' and 9050' – 9066'. Produced Navajo1 for 210 hours and shut in for a pressure build-up after recovering 1601 BO, 105 BW, and 11.3 MMCF. Rates during last 24 hours of production were 173 BOPD, 3 BWPD, and 1137 MCFD at 340 psi FTHP.
30. After being shut-in for a 172-hour PBU, well was returned to choke limited production at 88 BOPD, 500 MCFD, and 0 BWPD with 950 psi FTHP. Well was produced for four days with rates decreased each day to condition well for subsurface sampling and then shut in. Total recovery over the four days of controlled production was 118 BO, 0 BW, and 851 MCF.

Approximate production totals from all Navajo1 intervals in the well to date are 2419, 2430 BW, and 14 MMCF.

It is planned to retrieve pressure gauges from well on 8/06/2009 and acquire subsurface samples on 8/07/2009. The well will then be returned to full production for a short test through 8/24/2009 to evaluate initial rate performance, GOR trend, and water influx.

Providence 24-4 FINAL Survey

Report Date: April 26, 2009	Survey / DLS Computation Method: Minimum Curvature / Lubinski
Client: Wolverine	Vertical Section Azimuth: 0.000°
Field: UT, San Pete County (NAD 83 CZ US Feet)	Vertical Section Origin: N 0.000 ft, E 0.000 ft
Structure / Slot: Providence Field / Providence Federal #24-4	TVD Reference Datum: RKB
Well: Providence Federal #24-4	TVD Reference Elevation: 5517.5 ft relative to MSL
Borehole: Original Hole	Sea Bed / Ground Level Elevation: 5490.750 ft relative to MSL
UWI/API#:	Magnetic Declination: 12.116°
Survey Name / Date: Wolverine Providence Federal #24-4 Surveys / April 14, 2009	Total Field Strength: 51674.359 nT
Tort / AHD / DDI / ERD ratio: 28.120° / 80.99 ft / 3.357 / 0.006	Magnetic Dip: 64.713°
Grid Coordinate System: NAD83 Utah State Planes, Central Zone, US Feet	Declination Date: April 26, 2009
Location Lat/Long: N 39 3 1.220, W 111 45 35.776	Magnetic Declination Model: BGGM 2008
Location Grid N/E Y/X: N 6822936.940 ftUS, E 1566593.630 ftUS	North Reference: Grid North
Grid Convergence Angle: -0.16651065°	Total Corr Mag North -> Grid North: +12.283°
Grid Scale Factor: 0.99999186	Local Coordinates Referenced To: Well Head

Comments	Measured Depth (ft)	Inclination (deg)	Azimuth Grid (deg)	TVD (ft)	Vertical Section (ft)	NS Grid North (ft)	EW Grid North (ft)	Closure (ft)	Closure Azimuth (deg)	DLS (deg/100 ft)	Build Rate (deg/100 ft)	Walk Rate (deg/100 ft)
Tie-In	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	26.00	0.00	0.00	26.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	158.00	0.72	0.00	158.00	0.83	0.83	0.00	0.83	0.00	0.55	0.55	0.00
	220.00	0.55	0.00	219.99	1.52	1.52	0.00	1.52	0.00	0.27	-0.27	0.00
	313.00	0.39	0.00	312.99	2.28	2.28	0.00	2.28	0.00	0.17	-0.17	0.00
	407.00	0.18	0.00	406.99	2.75	2.75	0.00	2.75	0.00	0.22	-0.22	0.00
	534.00	0.12	0.00	533.99	3.08	3.08	0.00	3.08	0.00	0.05	-0.05	0.00
	625.00	0.30	0.00	624.99	3.41	3.41	0.00	3.41	0.00	0.20	0.20	0.00
	719.00	0.60	0.00	718.98	4.15	4.15	0.00	4.15	0.00	0.32	0.32	0.00
	814.00	1.00	0.00	813.97	5.48	5.48	0.00	5.48	0.00	0.42	0.42	0.00
	907.00	1.65	0.00	906.95	7.63	7.63	0.00	7.63	0.00	0.70	0.70	0.00
	1002.00	2.77	0.00	1001.88	11.29	11.29	0.00	11.29	0.00	1.18	1.18	0.00
	1095.00	3.98	0.00	1094.71	16.77	16.77	0.00	16.77	0.00	1.30	1.30	0.00
	1190.00	3.28	0.00	1189.52	22.78	22.78	0.00	22.78	0.00	0.74	-0.74	0.00
	1283.00	2.04	0.00	1282.42	27.10	27.10	0.00	27.10	0.00	1.33	-1.33	0.00
	1377.00	1.61	0.00	1376.77	30.09	30.09	0.00	30.09	0.00	0.46	-0.46	0.00
	1472.00	0.47	0.00	1471.36	31.81	31.81	0.00	31.81	0.00	1.20	-1.20	0.00
	1566.00	0.13	0.00	1565.35	32.31	32.31	0.00	32.31	0.00	0.36	-0.36	0.00
	1661.00	0.13	0.00	1660.35	32.52	32.52	0.00	32.52	0.00	0.00	0.00	0.00
	1757.00	0.22	0.00	1756.35	32.82	32.82	0.00	32.82	0.00	0.09	0.09	0.00
	1849.00	0.23	0.00	1848.35	33.18	33.18	0.00	33.18	0.00	0.01	0.01	0.00
	1943.00	0.22	0.00	1942.35	33.55	33.55	0.00	33.55	0.00	0.01	-0.01	0.00
	2047.00	0.12	0.00	2046.35	33.85	33.85	0.00	33.85	0.00	0.10	-0.10	0.00
	2140.00	0.09	0.00	2139.35	34.03	34.03	0.00	34.03	0.00	0.03	-0.03	0.00
	2234.00	0.16	0.00	2233.35	34.23	34.23	0.00	34.23	0.00	0.07	0.07	0.00
	2327.00	0.22	0.00	2326.35	34.54	34.54	0.00	34.54	0.00	0.06	0.06	0.00
	2422.00	0.15	0.00	2421.35	34.85	34.85	0.00	34.85	0.00	0.07	-0.07	0.00
	2515.00	0.12	0.00	2514.35	35.06	35.06	0.00	35.06	0.00	0.03	-0.03	0.00
	2608.00	0.16	0.00	2607.35	35.29	35.29	0.00	35.29	0.00	0.04	0.04	0.00
	2701.00	0.26	0.00	2700.35	35.63	35.63	0.00	35.63	0.00	0.11	0.11	0.00
	2795.00	0.39	0.00	2794.35	36.17	36.17	0.00	36.17	0.00	0.14	0.14	0.00
	2890.00	0.25	0.00	2889.35	36.70	36.70	0.00	36.70	0.00	0.15	-0.15	0.00
	2984.00	0.38	0.00	2983.34	37.21	37.21	0.00	37.21	0.00	0.14	0.14	0.00
	3079.00	0.27	0.00	3078.34	37.75	37.75	0.00	37.75	0.00	0.12	-0.12	0.00
	3172.00	0.04	0.00	3171.34	38.00	38.00	0.00	38.00	0.00	0.25	-0.25	0.00
	3268.00	0.19	0.00	3267.34	38.20	38.20	0.00	38.20	0.00	0.16	0.16	0.00
	3361.00	0.02	0.00	3360.34	38.37	38.37	0.00	38.37	0.00	0.18	-0.18	0.00
	3454.00	0.05	0.00	3453.34	38.42	38.42	0.00	38.42	0.00	0.03	0.03	0.00
	3548.00	0.00	0.00	3547.34	38.46	38.46	0.00	38.46	0.00	0.05	-0.05	0.00
	3643.00	0.18	0.00	3642.34	38.61	38.61	0.00	38.61	0.00	0.19	0.19	0.00
	3736.00	0.23	0.00	3735.34	38.95	38.95	0.00	38.95	0.00	0.05	0.05	0.00
	3831.00	0.09	0.00	3830.34	39.21	39.21	0.00	39.21	0.00	0.15	-0.15	0.00
	3925.00	0.15	0.00	3924.34	39.41	39.41	0.00	39.41	0.00	0.06	0.06	0.00
	4020.00	0.20	0.00	4019.34	39.70	39.70	0.00	39.70	0.00	0.05	0.05	0.00
	4113.00	0.18	0.00	4112.34	40.01	40.01	0.00	40.01	0.00	0.02	-0.02	0.00
	4207.00	0.01	0.00	4206.34	40.16	40.16	0.00	40.16	0.00	0.18	-0.18	0.00
	4300.00	0.22	0.00	4299.34	40.35	40.35	0.00	40.35	0.00	0.23	0.23	0.00
	4395.00	0.02	0.00	4394.34	40.55	40.55	0.00	40.55	0.00	0.21	-0.21	0.00
	4490.00	0.14	0.00	4489.34	40.68	40.68	0.00	40.68	0.00	0.13	0.13	0.00
	4585.00	0.21	0.00	4584.34	40.97	40.97	0.00	40.97	0.00	0.07	0.07	0.00
	4680.00	0.19	0.00	4679.34	41.30	41.30	0.00	41.30	0.00	0.02	-0.02	0.00
	4775.00	0.68	0.00	4774.34	42.02	42.02	0.00	42.02	0.00	0.52	0.52	0.00
	4868.00	0.18	0.00	4867.33	42.72	42.72	0.00	42.72	0.00	0.54	-0.54	0.00
	4962.00	0.25	0.00	4961.33	43.08	43.08	0.00	43.08	0.00	0.07	0.07	0.00

5057.00	0.27	0.00	5056.33	43.51	43.51	0.00	43.51	0.00	0.02	0.02	0.00
5151.00	0.07	0.00	5150.33	43.79	43.79	0.00	43.79	0.00	0.21	-0.21	0.00
5245.00	0.15	0.00	5244.33	43.97	43.97	0.00	43.97	0.00	0.09	0.09	0.00
5337.00	0.09	0.00	5336.33	44.16	44.16	0.00	44.16	0.00	0.07	-0.07	0.00
5433.00	0.18	0.00	5432.33	44.38	44.38	0.00	44.38	0.00	0.09	0.09	0.00
5527.00	0.27	0.00	5526.33	44.75	44.75	0.00	44.75	0.00	0.10	0.10	0.00
5621.00	0.18	0.00	5620.33	45.12	45.12	0.00	45.12	0.00	0.10	-0.10	0.00
5715.00	0.12	0.00	5714.33	45.37	45.37	0.00	45.37	0.00	0.06	-0.06	0.00
5809.00	0.15	0.00	5808.33	45.59	45.59	0.00	45.59	0.00	0.03	0.03	0.00
5903.00	0.25	0.00	5902.33	45.92	45.92	0.00	45.92	0.00	0.11	0.11	0.00
5997.00	0.07	0.00	5996.33	46.18	46.18	0.00	46.18	0.00	0.19	-0.19	0.00
6091.00	0.23	0.00	6090.33	46.43	46.43	0.00	46.43	0.00	0.17	0.17	0.00
6186.00	0.16	0.00	6185.33	46.75	46.75	0.00	46.75	0.00	0.07	-0.07	0.00
6280.00	0.07	0.00	6279.33	46.94	46.94	0.00	46.94	0.00	0.10	-0.10	0.00
6375.00	0.70	0.00	6374.32	47.58	47.58	0.00	47.58	0.00	0.66	0.66	0.00
6470.00	0.14	0.00	6469.32	48.27	48.27	0.00	48.27	0.00	0.59	-0.59	0.00
6565.00	0.18	0.00	6564.32	48.54	48.54	0.00	48.54	0.00	0.04	0.04	0.00
6660.00	0.09	0.00	6659.32	48.76	48.76	0.00	48.76	0.00	0.09	-0.09	0.00
6834.00	0.09	0.00	6833.32	49.04	49.04	0.00	49.04	0.00	0.00	0.00	0.00
6929.00	0.09	0.00	6928.32	49.19	49.19	0.00	49.19	0.00	0.00	0.00	0.00
7024.00	0.18	0.00	7023.32	49.41	49.41	0.00	49.41	0.00	0.09	0.09	0.00
7116.00	0.09	0.00	7115.32	49.63	49.63	0.00	49.63	0.00	0.10	-0.10	0.00
7210.00	0.09	0.00	7209.32	49.77	49.77	0.00	49.77	0.00	0.00	0.00	0.00
7304.00	0.18	0.00	7303.32	50.00	50.00	0.00	50.00	0.00	0.10	0.10	0.00
7405.00	0.08	0.00	7404.32	50.22	50.22	0.00	50.22	0.00	0.10	-0.10	0.00
7496.00	0.18	0.00	7495.32	50.43	50.43	0.00	50.43	0.00	0.11	0.11	0.00
7591.00	0.02	0.00	7590.32	50.60	50.60	0.00	50.60	0.00	0.17	-0.17	0.00
7684.00	0.13	0.00	7683.32	50.72	50.72	0.00	50.72	0.00	0.12	0.12	0.00
7778.00	0.09	0.00	7777.32	50.90	50.90	0.00	50.90	0.00	0.04	-0.04	0.00
7871.00	0.19	0.00	7870.32	51.13	51.13	0.00	51.13	0.00	0.11	0.11	0.00
7963.00	0.02	0.00	7962.32	51.29	51.29	0.00	51.29	0.00	0.18	-0.18	0.00
8058.00	0.21	0.00	8057.32	51.49	51.49	0.00	51.49	0.00	0.20	0.20	0.00
8151.00	0.11	0.00	8150.32	51.75	51.75	0.00	51.75	0.00	0.11	-0.11	0.00
8244.00	0.13	0.00	8243.32	51.94	51.94	0.00	51.94	0.00	0.02	0.02	0.00
8342.00	0.13	0.00	8341.32	52.16	52.16	0.00	52.16	0.00	0.00	0.00	0.00
8436.00	0.02	0.00	8435.32	52.29	52.29	0.00	52.29	0.00	0.12	-0.12	0.00
8528.00	0.15	0.00	8527.32	52.42	52.42	0.00	52.42	0.00	0.14	0.14	0.00
8623.00	0.18	0.00	8622.31	52.70	52.70	0.00	52.70	0.00	0.03	0.03	0.00
8718.00	0.15	0.00	8717.31	52.97	52.97	0.00	52.97	0.00	0.03	-0.03	0.00
8810.00	0.08	0.00	8809.31	53.15	53.15	0.00	53.15	0.00	0.08	-0.08	0.00
8904.00	0.04	0.00	8903.31	53.25	53.25	0.00	53.25	0.00	0.04	-0.04	0.00
9000.00	0.34	0.00	8999.31	53.57	53.57	0.00	53.57	0.00	0.31	0.31	0.00
9094.00	0.14	0.00	9093.31	53.96	53.96	0.00	53.96	0.00	0.21	-0.21	0.00
9187.00	0.16	0.00	9186.31	54.21	54.21	0.00	54.21	0.00	0.02	0.02	0.00
9282.00	0.33	0.00	9281.31	54.61	54.61	0.00	54.61	0.00	0.18	0.18	0.00
9395.00	0.26	0.00	9394.31	55.20	55.20	0.00	55.20	0.00	0.06	-0.06	0.00
9490.00	0.18	0.00	9489.31	55.56	55.56	0.00	55.56	0.00	0.08	-0.08	0.00
9585.00	0.18	0.00	9584.31	55.86	55.86	0.00	55.86	0.00	0.00	0.00	0.00
9679.00	0.09	0.00	9678.31	56.08	56.08	0.00	56.08	0.00	0.10	-0.10	0.00
9773.00	0.26	0.00	9772.31	56.37	56.37	0.00	56.37	0.00	0.18	0.18	0.00
9869.00	0.09	0.00	9868.31	56.66	56.66	0.00	56.66	0.00	0.18	-0.18	0.00
9963.00	0.18	0.00	9962.31	56.88	56.88	0.00	56.88	0.00	0.10	0.10	0.00
10058.00	0.18	0.00	10057.31	57.18	57.18	0.00	57.18	0.00	0.00	0.00	0.00
10153.00	0.35	0.00	10152.31	57.62	57.62	0.00	57.62	0.00	0.18	0.18	0.00
10245.00	1.23	0.00	10244.30	58.89	58.89	0.00	58.89	0.00	0.96	0.96	0.00
10340.00	0.18	0.00	10339.29	60.06	60.06	0.00	60.06	0.00	1.11	-1.11	0.00
10434.00	0.35	0.00	10433.29	60.49	60.49	0.00	60.49	0.00	0.18	0.18	0.00
10527.00	0.44	0.00	10526.28	61.13	61.13	0.00	61.13	0.00	0.10	0.10	0.00
10622.00	0.18	0.00	10621.28	61.65	61.65	0.00	61.65	0.00	0.27	-0.27	0.00
10717.00	0.35	0.00	10716.28	62.09	62.09	0.00	62.09	0.00	0.18	0.18	0.00
10812.00	0.44	0.00	10811.28	62.74	62.74	0.00	62.74	0.00	0.09	0.09	0.00
10905.00	0.44	0.00	10904.28	63.46	63.46	0.00	63.46	0.00	0.00	0.00	0.00
11000.00	0.44	0.00	10999.27	64.19	64.19	0.00	64.19	0.00	0.00	0.00	0.00
11095.00	0.09	0.00	11094.27	64.62	64.62	0.00	64.62	0.00	0.37	-0.37	0.00
11189.00	0.26	0.00	11188.27	64.91	64.91	0.00	64.91	0.00	0.18	0.18	0.00
11281.00	0.53	0.00	11280.27	65.55	65.55	0.00	65.55	0.00	0.29	0.29	0.00
11374.00	0.09	0.00	11373.27	66.05	66.05	0.00	66.05	0.00	0.47	-0.47	0.00
11469.00	0.44	0.00	11468.27	66.49	66.49	0.00	66.49	0.00	0.37	0.37	0.00
11564.00	0.70	0.00	11563.26	67.43	67.43	0.00	67.43	0.00	0.27	0.27	0.00
11659.00	0.18	0.00	11658.26	68.16	68.16	0.00	68.16	0.00	0.55	-0.55	0.00
11753.00	0.26	0.00	11752.26	68.52	68.52	0.00	68.52	0.00	0.09	0.09	0.00
11848.00	0.28	0.00	11847.26	68.97	68.97	0.00	68.97	0.00	0.02	0.02	0.00
11941.00	0.70	0.00	11940.25	69.77	69.77	0.00	69.77	0.00	0.45	0.45	0.00
12033.00	0.79	0.00	12032.25	70.96	70.96	0.00	70.96	0.00	0.10	0.10	0.00
12127.00	0.26	0.00	12126.24	71.82	71.82	0.00	71.82	0.00	0.56	-0.56	0.00
12221.00	0.18	0.00	12220.24	72.19	72.19	0.00	72.19	0.00	0.09	-0.09	0.00
12313.00	0.79	0.00	12312.24	72.96	72.96	0.00	72.96	0.00	0.66	0.66	0.00
12403.00	0.26	0.00	12402.23	73.79	73.79	0.00	73.79	0.00	0.59	-0.59	0.00
12499.00	0.62	0.00	12498.23	74.53	74.53	0.00	74.53	0.00	0.37	0.37	0.00

NS EW

	12594.00	0.35	0.00	12593.23	75.33	75.33	0.00	75.33	0.00	0.28	-0.28	0.00
	12688.00	0.35	0.00	12687.23	75.90	75.90	0.00	75.90	0.00	0.00	0.00	0.00
	12781.00	0.26	0.00	12780.22	76.40	76.40	0.00	76.40	0.00	0.10	-0.10	0.00
	12874.00	0.35	0.00	12873.22	76.89	76.89	0.00	76.89	0.00	0.10	0.10	0.00
	12967.00	0.26	0.00	12966.22	77.39	77.39	0.00	77.39	0.00	0.10	-0.10	0.00
	13063.00	0.18	0.00	13062.22	77.76	77.76	0.00	77.76	0.00	0.08	-0.08	0.00
	13158.00	0.26	0.00	13157.22	78.12	78.12	0.00	78.12	0.00	0.08	0.08	0.00
	13253.00	0.18	0.00	13252.22	78.49	78.49	0.00	78.49	0.00	0.08	-0.08	0.00
First Extreme™MWD	13412.00	0.03	0.00	13411.22	78.78	78.78	0.00	78.78	0.00	0.09	-0.09	0.00
	13573.00	0.00	0.00	13572.22	78.82	78.82	0.00	78.82	0.00	0.02	-0.02	0.00
	13670.00	0.10	0.00	13669.22	78.91	78.91	0.00	78.91	0.00	0.10	0.10	0.00
	13757.00	0.10	0.00	13756.22	79.06	79.06	0.00	79.06	0.00	0.00	0.00	0.00
	13855.00	0.20	0.00	13854.22	79.31	79.31	0.00	79.31	0.00	0.10	0.10	0.00
	13942.00	0.20	0.00	13941.22	79.62	79.62	0.00	79.62	0.00	0.00	0.00	0.00
	14032.00	0.20	0.00	14031.22	79.93	79.93	0.00	79.93	0.00	0.00	0.00	0.00
Last Survey Station	14128.00	0.30	0.00	14127.22	80.35	80.35	0.00	80.35	0.00	0.10	0.10	0.00
Projection to TD	14250.00	0.30	0.00	14249.21	80.99	80.99	0.00	80.99	0.00	0.00	0.00	0.00

Survey Type: Definitive Survey

Survey Error Model: SLB ISCWSA version 24 *** 3-D 95.00% Confidence 2.7955 sigma

Surveying Prog:

<u>MD From (ft)</u>	<u>MD To (ft)</u>	<u>EQU Freq</u>	<u>Survey Tool Type</u>	<u>Borehole -> Survey</u>
0.00	26.80		Act-Stns SLB_MWD-INC_ONLY-Depth Only	Original Hole -> Wolverine Providence Federal #24-4 Surveys
26.80	14250.00		Act-Stns SLB_MWD-INC_ONLY	Original Hole -> Wolverine Providence Federal #24-4 Surveys

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING	FORM 9 5. LEASE DESIGNATION AND SERIAL NUMBER: UTU-80907
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: PROVIDENCE FED 24-4
2. NAME OF OPERATOR: WOLVERINE GAS & OIL COMPANY OF UTAH, LLC	9. API NUMBER: 43039300400000
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: 0975 FSL 0041 FWL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: SWSW Section: 24 Township: 20.0S Range: 01.0E Meridian: S	9. FIELD and POOL or WILDCAT: PROVIDENCE COUNTY: SANPETE 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: 7/10/2010	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> CASING REPAIR
<input type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion:	<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 checked="" type="checkbox"/> VENT OR FLARE	<input type="checkbox"/> WATER DISPOSAL
	<input type="checkbox"/> WATER SHUTOFF	<input type="checkbox"/> SI TA STATUS EXTENSION	<input type="checkbox"/> APD EXTENSION
	<input type="checkbox"/> WILDCAT WELL DETERMINATION	<input type="checkbox"/> OTHER	OTHER: <input type="text" value="Additional testing/flaring"/>

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

Wolverine Gas and Oil Company of Utah, LLC has received approval from the Board of Oil, Gas and Mining, Department of Natural Resources, State of Utah to conduct additional testing on the Wolverine Federal Arapien Valley 24-1 and the Providence Federal 24-1. The Board orders provided Wolverine authorization to recomplete and stimulate the Arapien Valley 24-1 and the Providence Federal 24-4 and test each well for an additional six month period with flaring and venting of associated oil well gas, provided the aggregate volume of gas so flared from both wells does not exceed 360,000 MCF for the authorized test period/production period. This Sundry requests approval from UDOGM to accomplish the Board-approved activities and additional testing and flaring.

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

Date: July 07, 2010
 By: *Derek DeWitt*

NAME (PLEASE PRINT) Helene Bardolph	PHONE NUMBER 616 458-1150	TITLE Engineering Administrative Assistant
SIGNATURE N/A	DATE 7/6/2010	

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING	FORM 9 5. LEASE DESIGNATION AND SERIAL NUMBER: UTU-80907
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: PROVIDENCE FED 24-4
2. NAME OF OPERATOR: WOLVERINE GAS & OIL COMPANY OF UTAH, LLC	9. API NUMBER: 43039300400000
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: 0975 FSL 0041 FWL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: SWSW Section: 24 Township: 20.0S Range: 01.0E Meridian: S	9. FIELD and POOL or WILDCAT: PROVIDENCE COUNTY: SANPETE 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 checked="" 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 checked="" 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 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 checked="" 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 style="width: 50px;" type="text" value="Recomplete"/>
<input checked="" type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion: 7/11/2010			
<input type="checkbox"/> SPUD REPORT Date of Spud:			
<input type="checkbox"/> DRILLING REPORT Report Date:			

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

Revised Sundry: Please see attached document for details not included on Sundry submitted on 12/2/2010.

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

NAME (PLEASE PRINT) Helene Bardolph	PHONE NUMBER 616 458-1150	TITLE Engineering Administrative Assistant
SIGNATURE N/A		DATE 12/13/2010

Providence Federal 24-4:

BLM Sundry Notice

Type of Submission: Subsequent Report

Type of Action: Acidize, Alter Casing, Plug Back, Recomplete

Date of Work Start: 6/28/2010

Date of Work Completion: 7/10/2010

Details:

The Providence Federal 24-4 existing perforations at 9014' – 9039' & 9050' – 9066' were squeezed with 50 sacks of 14.1# latex cement through a CICR (9046') with a maximum injection pressure of 3000 psi. Cement was reverse circulated out 2' above the CICR and PBSD was determined to be 9045' as there was limited circulation of cement into the upper perforation interval. The interval at 9014' – 9039' was reperforated (3 spf) and acidized with 2400 gallons of 15% FE acid and bioballs pumped at a maximum rate of 1.5 BPM and maximum pressure of 2990 psi. The well was flowed back for rate and clean up and put on production. Currently, the well is flowing at an average daily rate of 43 BOPD, 42 BWPD & 261 MCFD.

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

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

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

SUBMIT IN TRIPLICATE- Other instructions on reverse side.

1. Type of Well <input checked="" type="checkbox"/> Oil Well <input type="checkbox"/> <input type="checkbox"/> Gas Well <input type="checkbox"/> Other		5. Lease Serial No. UTU-80907
2. Name of Operator Wolverine Gas and Oil Company of Utah, LLC		6. If Indian, Allottee or Tribe Name NA
3a. Address 55 Campau NW, Grand Rapids, MI 49503	3b. Phone No. (include area code) 616-458-1150	7. If Unit or CA/Agreement, Name and/or No. Wolverine Unit
4. Location of Well (Footage, Sec., T., R., M., or Survey Description) 975' FSL, 41' FWL, Sec. 24, T20S, R1E, SLB&M		8. Well Name and No. Providence Federal 24-4
		9. API Well No. 43-039-30040
		10. Field and Pool, or Exploratory Area Wildcat
		11. County or Parish, State Sanpete County, Utah

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

TYPE OF SUBMISSION	TYPE OF ACTION			
<input type="checkbox"/> Notice of Intent	<input type="checkbox"/> Acidize	<input type="checkbox"/> Deepen	<input type="checkbox"/> Production (Start/Resume)	<input type="checkbox"/> Water Shut-Off
<input checked="" type="checkbox"/> Subsequent Report	<input type="checkbox"/> Alter Casing	<input type="checkbox"/> Fracture Treat	<input type="checkbox"/> Reclamation	<input type="checkbox"/> Well Integrity
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Casing Repair	<input type="checkbox"/> New Construction	<input type="checkbox"/> Recomplete	<input checked="" type="checkbox"/> Other Activity update
	<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 recompletable 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 recompletable in a new interval, a Form 3160-4 shall be filed once testing has been completed. Final Abandonment Notices shall be filed only after all requirements, including reclamation, have been completed, and the operator has determined that the site is ready for final inspection.)

The Providence Federal 24-4 was recompletable and fracture treated in the Navajo 1 and put on production June 24, 2010 for the initial 180 day test. An additional 60 day test period was also later granted. See attached production report for details on this well.

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

Name (Printed/Typed) Matthew Rivers	Title Production Engineer
Signature 	Date 12/21/2010

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

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

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

(Instructions on page 2)

RECEIVED

MAR 14 2011

DIV. OF OIL, GAS & MINING

GENERAL INSTRUCTIONS

This form is designed for submitting proposals to perform certain well operations, and reports of such operations when completed, as indicated on Federal and Indian lands pursuant to applicable Federal law and regulations. Any necessary special instructions concerning the use of this

form and the number of copies to be submitted, particularly with regard to local area, or regional procedures and practices, either are shown below or will be issued by, or may be obtained from the local Federal office.

SPECIFIC INSTRUCTIONS

Item 4 - Locations on Federal or Indian land should be described in accordance with Federal requirements. Consult the local Federal office for specific instructions.

Item 13 - Proposals to abandon a well and subsequent reports of abandonment should include such special information as is required by the local Federal office. In addition, such proposals and reports should include reasons for the abandonment; data on any former or

present productive zones, or other zones with present significant fluid contents not sealed off by cement or otherwise; depths (top and bottom) and method of placement of cement plugs; mud or other material placed below, between and above plugs; amount, size, method of parting of any casing, liner or tubing pulled; and the depth to top of any left in the hole; method of closing top of well and date well site conditioned for final inspection looking to approval of the abandonment.

NOTICE

The Privacy Act of 1974 and the regulation in 43 CFR 2.48(d) provide that you be furnished the following information in connection with information required by this application.

AUTHORITY: 30 U.S.C. 181 et seq., 351 et seq., 25 U.S.C. 396; 43 CFR 3160.

PRINCIPAL PURPOSE: The information is used to: (1) Evaluate, when appropriate, approve applications, and report completion of subsequent well operations, on a Federal or Indian lease; and (2) document for administrative use, information for the management, disposal and use of National Resource lands and resources, such as: (a) evaluating the equipment and procedures to be used during a proposed subsequent well operation and reviewing the completed well operations for compliance with the approved plan; (b) requesting and granting approval to perform those actions covered by 43 CFR 3162.3-2, 3162.3-3, and 3162.3-4; (c) reporting the beginning or resumption of production, as required by 43 CFR 3162.4-1(c) and (d) analyzing future applications to drill or modify operations in light of data obtained and methods used.

ROUTINE USES: Information from the record and/or the record will be transferred to appropriate Federal, State, local or foreign agencies, when relevant to civil, criminal or regulatory investigations or prosecutions in connection with congressional inquiries or to consumer reporting agencies to facilitate collection of debts owed the Government.

EFFECT OF NOT PROVIDING THE INFORMATION: Filing of this notice and report and disclosure of the information is mandatory for those subsequent well operations specified in 43 CFR 3162.3-2, 3162.3-3, 3162.3-4.

The Paperwork Reduction Act of 1995 requires us to inform you that:

This information is being collected to evaluate proposed and/or completed subsequent well operations on Federal or Indian oil and gas leases.

Response to this request is mandatory.

BLM would like you to know that you do not have to respond to this or any other Federal agency-sponsored information collection unless it displays a currently valid OMB control number.

BURDEN HOURS STATEMENT

Public reporting burden for this form is estimated to average 25 minutes per response, including the time for reviewing instructions, gathering and maintaining data, and completing and reviewing the form. Direct comments regarding the burden estimate or any other aspect of this form to U.S. Department of the Interior, Bureau of Land Management (1004-0137), Bureau Information Collection Clearance Officer, (WO-630), Mail Stop 401 LS, 1849 C St., N.W., Washington D.C. 20240.

Providence Federal 24-4

FieldName	Date	Oil	Water	Gas	Total Fluid	Water-Cut	GOR	TP	TS	CP	CS	Choke	Run Time	Comments
24-04 PF	12/19/2010	40	42	252	82	51%	6302	120	F	0	SI	48	24	
24-04 PF	12/18/2010	43	43	252	87	50%	5817	117	F	0	SI	48	24	
24-04 PF	12/17/2010	42	43	254	85	51%	6101	122	F	0	SI	48	24	
24-04 PF	12/15/2010	42	44	253	85	51%	6077	91	F	0	SI	48	24	
24-04 PF	12/14/2010	45	43	255	88	49%	5667	93	F	0	SI	48	24	
24-04 PF	12/13/2010	44	43	254	87	50%	5806	110	F	0	SI	48	24	
24-04 PF	12/12/2010	48	48	258	96	50%	5428	108	F	0	SI	48	24	
24-04 PF	12/11/2010	42	42	259	83	50%	6217	110	F	0	SI	48	24	
24-04 PF	12/10/2010	42	43	256	85	51%	6148	105	F	0	SI	48	24	
24-04 PF	12/9/2010	42	40	255	82	49%	6125	98	F	0	SI	48	24	
24-04 PF	12/8/2010	42	43	256	85	51%	6149	112	F	0	SI	48	24	
24-04 PF	12/7/2010	43	42	257	85	49%	5930	109	F	0	SI	48	24	
24-04 PF	12/6/2010	43	42	258	86	49%	5953	112	F	0	SI	48	24	
24-04 PF	12/5/2010	33	47	259	80	59%	7865	111	F	0	SI	48	24	
24-04 PF	12/4/2010	45	43	259	88	49%	5757	115	F	0	SI	48	24	
24-04 PF	12/3/2010	42	42	259	83	50%	6220	116	F	0	SI	48	24	
24-04 PF	12/2/2010	43	43	258	87	50%	5963	111	F	0	SI	48	24	
24-04 PF	12/1/2010	43	43	255	87	50%	5886	112	F	0	SI	48	24	
24-04 PF	11/30/2010	40	48	256	88	54%	6403	109	F	0	SI	48	24	
24-04 PF	11/29/2010	45	39	254	84	47%	5644	102	F	0	SI	48	24	
24-04 PF	11/28/2010	43	45	251	88	51%	5791	108	F	0	SI	48	24	
24-04 PF	11/27/2010	43	42	256	85	49%	5907	107	F	0	SI	48	24	
24-04 PF	11/26/2010	42	43	254	85	51%	6098	101	F	0	SI	48	24	
24-04 PF	11/25/2010	43	42	253	85	49%	5844	105	F	0	SI	48	24	
24-04 PF	11/24/2010	40	38	259	78	49%	6480	114	F	0	SI	48	24	
24-04 PF	11/23/2010	43	42	265	85	49%	6120	118	F	0	SI	48	24	
24-04 PF	11/22/2010	47	36	266	83	44%	5698	114	F	0	SI	48	24	
24-04 PF	11/21/2010	39	40	269	79	51%	6864	106	F	0	SI	48	24	
24-04 PF	11/20/2010	45	43	262	89	49%	5765	114	F	0	SI	48	24	
24-04 PF	11/19/2010	45	43	251	88	49%	5579	101	F	0	SI	48	24	
24-04 PF	11/18/2010	43	42	250	85	49%	5775	130	F	0	SI	48	24	
24-04 PF	11/17/2010	48	45	263	93	48%	5492	102	F	0	SI	48	24	
24-04 PF	11/16/2010	42	42	261	83	50%	6270	121	F	0	SI	48	24	
24-04 PF	11/15/2010	42	43	264	85	51%	6337	108	F	0	SI	48	24	
24-04 PF	11/14/2010	47	43	265	90	48%	5678	116	F	0	SI	48	24	
24-04 PF	11/13/2010	45	47	262	91	51%	5874	110	F	0	SI	48	24	
24-04 PF	11/12/2010	43	42	262	85	49%	6049	110	F	0	SI	48	24	
24-04 PF	11/11/2010	42	40	261	82	49%	6270	111	F	0	SI	48	24	
24-04 PF	11/10/2010	48	43	264	91	47%	5466	113	F	0	SI	48	24	
24-04 PF	11/9/2010	44	41	255	85	49%	5833	114	F	0	SI	48	24	

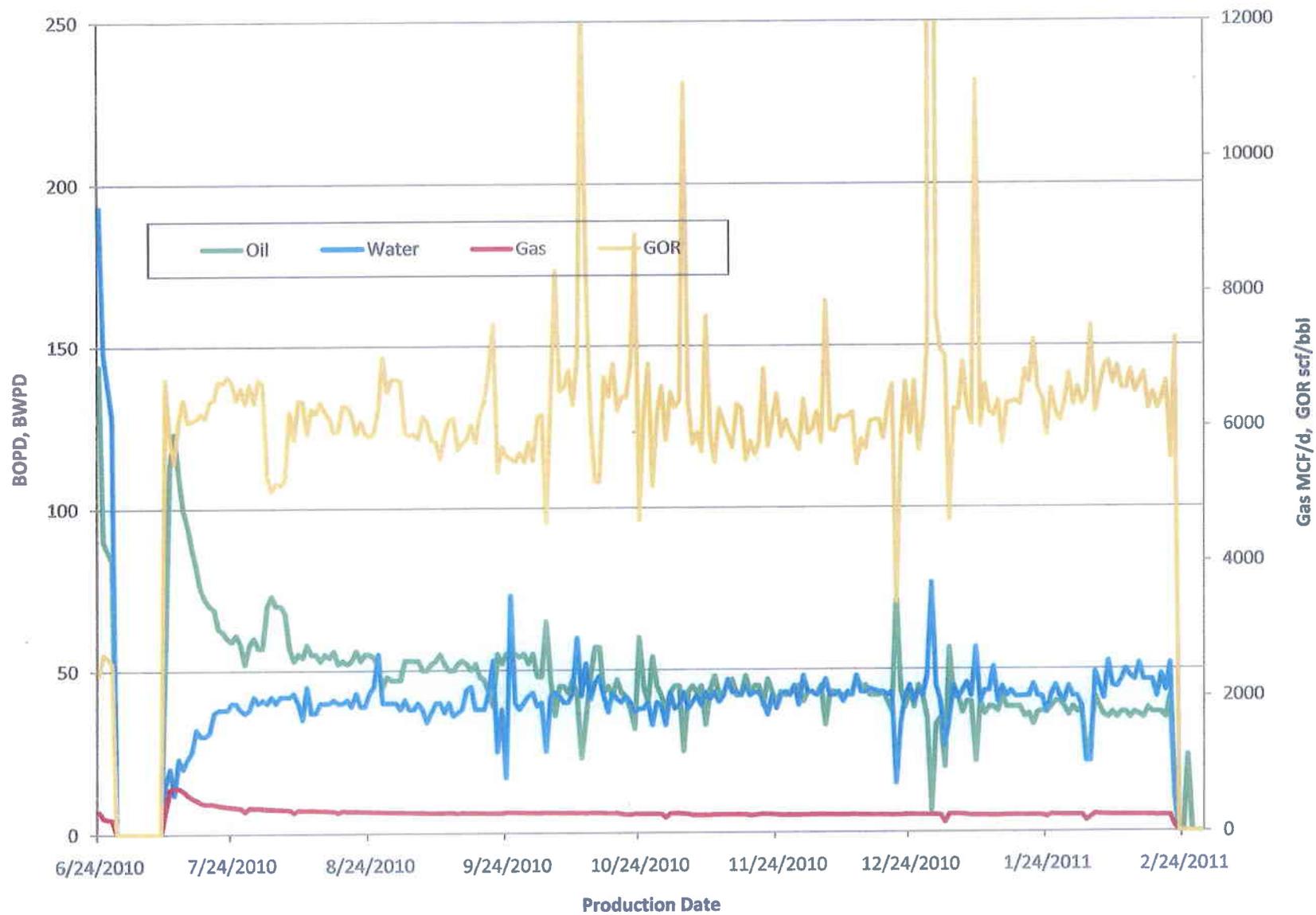
24-04 PF	11/8/2010	33	43	255	77	57%	7648	120	F	0	SI	48	24
24-04 PF	11/7/2010	45	39	253	84	46%	5625	124	F	0	SI	48	24
24-04 PF	11/6/2010	43	42	256	85	49%	5911	105	F	0	SI	48	24
24-04 PF	11/5/2010	45	40	256	85	47%	5746	111	F	0	SI	48	24
24-04 PF	11/4/2010	43	38	275	82	47%	6348	96	F	0	SI	48	24
24-04 PF	11/3/2010	25	43	277	68	63%	11089	112	F	0	SI	48	24
24-04 PF	11/2/2010	45	39	287	84	46%	6379	107	F	0	SI	48	24
24-04 PF	11/1/2010	45	38	283	83	46%	6287	111	F	0	SI	48	24
24-04 PF	10/31/2010	43	43	283	87	50%	6515	91	F	0	SI	48	21
24-04 PF	10/30/2010	38	33	222	72	47%	5793	109	F	0	SI	48	21
24-04 PF	10/29/2010	42	39	275	81	48%	6603	109	F	0	SI	48	24
24-04 PF	10/28/2010	45	40	277	85	47%	6161	109	F	0	SI	48	24
24-04 PF	10/27/2010	54	33	277	87	38%	5119	111	F	0	SI	48	24
24-04 PF	10/26/2010	40	40	277	80	50%	6935	114	F	0	SI	48	24
24-04 PF	10/25/2010	45	38	277	83	46%	6190	110	F	0	SI	48	24
24-04 PF	10/24/2010	60	38	277	98	39%	4619	108	F	0	SI	48	23
24-04 PF	10/23/2010	32	37	281	68	54%	8853	111	F	0	SI	48	24
24-04 PF	10/22/2010	38	40	266	78	51%	6925	132	F	0	SI	48	24
24-04 PF	10/21/2010	42	42	268	83	50%	6435	150	F	0	SI	48	24
24-04 PF	10/20/2010	43	40	279	83	48%	6442	110	F	0	SI	48	24
24-04 PF	10/19/2010	47	41	291	88	47%	6242	123	F	0	SI	48	24
24-04 PF	10/18/2010	42	43	289	85	51%	6940	86	F	0	SI	48	24
24-04 PF	10/17/2010	45	37	290	82	45%	6447	90	F	0	SI	48	24
24-04 PF	10/16/2010	43	42	292	85	49%	6737	90	F	0	SI	48	24
24-04 PF	10/15/2010	57	48	294	105	46%	5183	76	F	0	SI	48	24
24-04 PF	10/14/2010	57	46	294	103	45%	5192	79	F	0	SI	48	24
24-04 PF	10/13/2010	48	41	294	89	46%	6096	82	F	0	SI	48	24
24-04 PF	10/12/2010	35	52	292	87	60%	8350	93	F	0	SI	48	24
24-04 PF	10/11/2010	23	42	294	65	64%	12613	100	F	0	SI	48	24
24-04 PF	10/10/2010	42	60	293	102	59%	7031	76	P	0	SI	48	24
24-04 PF	10/9/2010	47	43	295	90	48%	6321	74	F	0	SI	48	24
24-04 PF	10/8/2010	43	40	297	83	48%	6843	91	F	0	SI	48	24
24-04 PF	10/7/2010	45	40	297	85	47%	6596	94	F	0	SI	48	24
24-04 PF	10/6/2010	45	42	294	87	48%	6533	74	F	0	SI	48	24
24-04 PF	10/5/2010	36	43	298	79	55%	8324	73	F	0	SI	48	24
24-04 PF	10/4/2010	47	42	302	88	47%	6477	78	F	0	SI	48	24
24-04 PF	10/3/2010	65	25	298	90	28%	4586	78	F	0	SI	48	24
24-04 PF	10/2/2010	48	40	299	88	45%	6184	83	F	0	SI	48	24
24-04 PF	10/1/2010	48	39	297	87	44%	6149	106	F	0	SI	48	24
24-04 PF	9/30/2010	55	43	300	98	44%	5499	81	F	0	SI	48	24
24-04 PF	9/29/2010	52	42	298	93	45%	5773	80	F	0	SI	48	24
24-04 PF	9/28/2010	55	40	301	95	42%	5476	80	P	0	SI	48	24

24-04 PF	9/27/2010	54	38	302	92	42%	5618	110	F	0	SI	48	24
24-04 PF	9/26/2010	55	40	302	95	42%	5486	82	F	0	SI	48	24
24-04 PF	9/25/2010	55	73	305	128	57%	5537	86	F	0	SI	48	24
24-04 PF	9/24/2010	55	17	306	72	23%	5566	93	F	0	SI	48	24
24-04 PF	9/23/2010	52	38	295	90	43%	5712	124	F	0	SI	48	24
24-04 PF	9/22/2010	55	25	293	80	31%	5331	122	F	0	SI	48	24
24-04 PF	9/21/2010	39	53	295	92	58%	7539	122	F	0	SI	48	24
24-04 PF	9/20/2010	43	43	297	87	50%	6854	124	F	0	SI	48	24
24-04 PF	9/19/2010	47	38	298	85	45%	6391	109	F	0	SI	48	24
24-04 PF	9/18/2010	48	38	300	87	44%	6212	112	F	0	SI	48	24
24-04 PF	9/17/2010	52	38	298	90	43%	5772	147	F	0	SI	48	24
24-04 PF	9/16/2010	50	45	302	95	47%	6039	114	F	0	SI	48	24
24-04 PF	9/15/2010	52	44	301	96	46%	5825	135	F	0	SI	48	24
24-04 PF	9/14/2010	53	38	303	91	42%	5766	135	P	0	SI	48	24
24-04 PF	9/13/2010	52	37	295	90	42%	5669	153	F	0	SI	48	24
24-04 PF	9/12/2010	50	36	304	85	42%	6136	115	F	0	SI	48	24
24-04 PF	9/11/2010	50	40	305	90	44%	6104	132	F	0	SI	48	24
24-04 PF	9/10/2010	52	37	304	88	41%	5886	119	F	0	SI	48	24
24-04 PF	9/9/2010	55	40	302	95	42%	5532	104	F	0	SI	48	24
24-04 PF	9/8/2010	53	40	304	93	43%	5783	102	F	0	SI	48	24
24-04 PF	9/7/2010	52	37	302	89	41%	5801	103	F	0	SI	48	24
24-04 PF	9/6/2010	50	34	304	84	41%	6082	117	F	0	SI	48	24
24-04 PF	9/5/2010	50	38	305	88	44%	6157	100	F	0	SI	48	24
24-04 PF	9/4/2010	53	40	308	93	43%	5823	110	F	0	SI	48	24
24-04 PF	9/3/2010	53	38	310	90	42%	5904	124	F	0	SI	48	24
24-04 PF	9/2/2010	53	38	309	90	42%	5882	112	F	0	SI	48	24
24-04 PF	9/1/2010	53	41	311	94	44%	5918	120	F	0	SI	48	24
24-04 PF	8/31/2010	47	38	312	85	45%	6688	110	F	0	SI	48	24
24-04 PF	8/30/2010	47	40	313	86	46%	6712	116	F	0	SI	48	24
24-04 PF	8/29/2010	47	40	313	87	46%	6712	115	F	0	SI	48	24
24-04 PF	8/28/2010	48	40	315	88	45%	6523	125	F	0	SI	48	24
24-04 PF	8/27/2010	45	40	317	85	47%	7044	188	F	0	SI	48	24
24-04 PF	8/26/2010	51	55	321	106	52%	6266	125	F	0	SI	48	24
24-04 PF	8/25/2010	54	45	318	99	46%	5920	134	F	0	SI	48	24
24-04 PF	8/24/2010	55	43	322	98	44%	5859	123	F	0	SI	48	24
24-04 PF	8/23/2010	55	39	325	94	42%	5913	138	F	0	SI	48	24
24-04 PF	8/22/2010	53	39	325	92	42%	6091	119	F	0	SI	48	24
24-04 PF	8/21/2010	56	43	330	99	43%	5902	121	F	0	SI	48	24
24-04 PF	8/20/2010	53	39	327	92	42%	6184	150	F	0	SI	48	24
24-04 PF	8/19/2010	52	41	331	93	44%	6310	150	F	0	SI	48	24
24-04 PF	8/18/2010	53	40	337	93	43%	6323	150	F	0	SI	48	24
24-04 PF	8/17/2010	52	40	309	92	43%	5938	125	F	0	SI	48	20

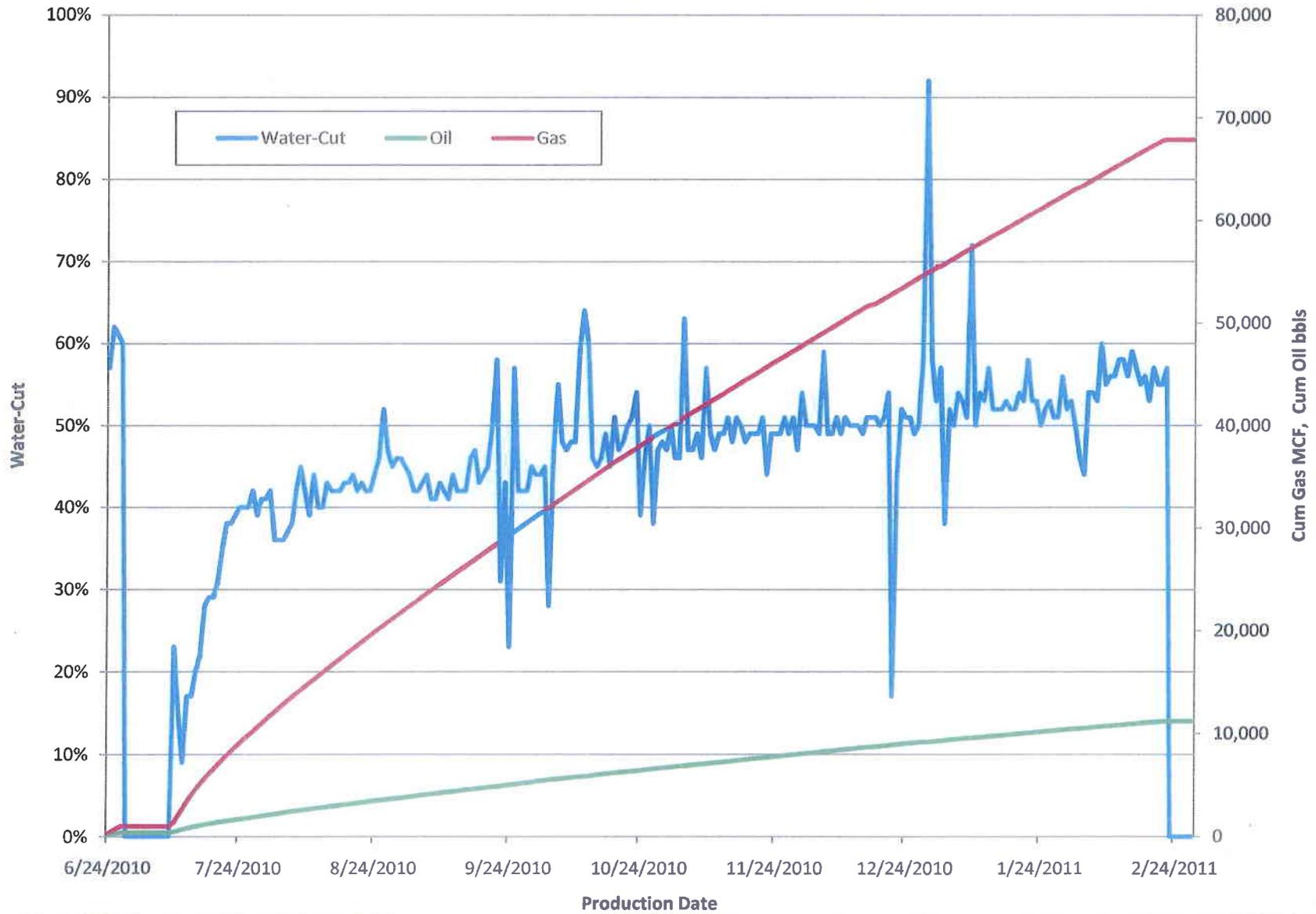
24-04 PF	8/16/2010	56	41	333	97	42%	5920	125	F	0	SI	48	24
24-04 PF	8/15/2010	54	40	333	94	42%	6145	150	F	0	SI	48	24
24-04 PF	8/14/2010	55	40	340	95	42%	6223	200	F	0	SI	48	24
24-04 PF	8/13/2010	53	40	340	93	43%	6377	120	F	0	SI	48	24
24-04 PF	8/12/2010	55	37	341	92	40%	6205	125	F	0	SI	48	24
24-04 PF	8/11/2010	55	37	345	92	40%	6275	100	F	0	SI	48	24
24-04 PF	8/10/2010	58	45	344	103	44%	5896	180	F	0	SI	48	24
24-04 PF	8/9/2010	54	35	346	89	39%	6386	150	F	0	SI	48	24
24-04 PF	8/8/2010	55	40	349	95	42%	6393	200	F	0	SI	48	24
24-04 PF	8/7/2010	53	43	310	97	45%	5817	120	F	0	SI	48	24
24-04 PF	8/6/2010	57	42	355	99	42%	6225	125	F	0	SI	48	24
24-04 PF	8/5/2010	68	42	357	110	38%	5226	192	F	0	SI	48	24
24-04 PF	8/4/2010	70	42	360	112	37%	5143	196	F	0	SI	48	24
24-04 PF	8/3/2010	70	40	362	110	36%	5174	125	F	0	SI	48	24
24-04 PF	8/2/2010	73	42	369	115	36%	5062	200	F	0	SI	48	24
24-04 PF	8/1/2010	70	40	369	110	36%	5271	130	F	0	SI	48	24
24-04 PF	7/31/2010	57	41	376	98	42%	6635	125	F	0	SI	48	24
24-04 PF	7/30/2010	57	40	381	97	41%	6715	188	F	0	SI	48	24
24-04 PF	7/29/2010	60	42	379	101	41%	6361	174	F	0	SI	48	24
24-04 PF	7/28/2010	58	38	387	96	39%	6638	166	F	0	SI	48	24
24-04 PF	7/27/2010	52	37	328	88	42%	6354	175	F	0	SI	48	18
24-04 PF	7/26/2010	58	38	384	97	40%	6588	175	F	0	SI	48	24
24-04 PF	7/25/2010	61	40	390	101	40%	6409	170	F	0	SI	48	24
24-04 PF	7/24/2010	59	40	395	99	40%	6671	175	F	0	SI	48	24
24-04 PF	7/23/2010	60	38	405	98	39%	6753	175	F	0	SI	48	24
24-04 PF	7/22/2010	62	38	413	100	38%	6657	175	F	0	SI	48	24
24-04 PF	7/21/2010	63	38	423	102	38%	6685	175	F	0	SI	48	24
24-04 PF	7/20/2010	69	37	441	106	35%	6413	190	F	0	SI	48	24
24-04 PF	7/19/2010	70	31	445	101	31%	6385	350	F	0	SI	19	24
24-04 PF	7/18/2010	72	30	445	102	29%	6141	350	F	0	SI	19	24
24-04 PF	7/17/2010	75	30	465	105	29%	6205	350	F	0	SI	19	24
24-04 PF	7/16/2010	82	32	500	113	28%	6124	380	F	0	SI	19	24
24-04 PF	7/15/2010	88	25	537	113	22%	6100	500	F	0	SI	19	24
24-04 PF	7/14/2010	95	23	577	118	20%	6077	520	F	0	SI	17	24
24-04 PF	7/13/2010	100	20	639	120	17%	6420	570	F	0	SI	17	24
24-04 PF	7/12/2010	111	23	674	134	17%	6094	625	F	0	SI	17	24
24-04 PF	7/11/2010	123	12	672	135	9%	5471	630	F	0	SI	17	24
24-04 PF	7/10/2010	113	20	660	133	15%	5826	625	F	0	SI	17	24
24-04 PF	7/9/2010	52	15	347	67	23%	6713	600	F	0	SI	17	12
24-04 PF	7/8/2010	0	0	0	0	0%	0		SI		SI	0	0
24-04 PF	7/7/2010	0	0	0	0	0%	0		SI		SI	0	0
24-04 PF	7/6/2010	0	0	0	0	0%	0		SI		SI	0	0

24-04 PF	7/5/2010	0	0	0	0	0%	0	SI	SI	0	0
24-04 PF	7/4/2010	0	0	0	0	0%	0	SI	SI	0	0
24-04 PF	7/3/2010	0	0	0	0	0%	0	SI	SI	0	0
24-04 PF	7/2/2010	0	0	0	0	0%	0	SI	SI	0	0
24-04 PF	7/1/2010	0	0	0	0	0%	0	SI	SI	0	0
24-04 PF	6/30/2010	0	0	0	0	0%	0	SI	SI	0	0
24-04 PF	6/29/2010	0	0	0	0	0%	0	SI	SI	0	0
24-04 PF	6/28/2010	0	0	0	0	0%	0	SI	SI	0	0
24-04 PF	6/27/2010	84	128	212	212	60%	2516	525	F 60	SI 18	24
24-04 PF	6/26/2010	87	138	225	225	61%	2593	575	F 60	SI 18	24
24-04 PF	6/25/2010	90	148	238	238	62%	2648	510	F 60	SI 18	24
24-04 PF	6/24/2010	144	193	336	336	57%	2342	500	F 60	SI 18	24

Providence Federal 24-4



Providence Federal 24-4



UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

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

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

SUBMIT IN TRIPLICATE- Other instructions on reverse side.

1. Type of Well
 Oil Well Gas Well Other

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

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

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

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)
975' FSL, 41' FWL, Sec. 24, T20S, R1E, SLB&M

5. Lease Serial No.
UTU-80907

6. If Indian, Allottee or Tribe Name
NA

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

8. Well Name and No.
Providence Federal 24-4

9. API Well No.
43-039-30040

10. Field and Pool, or Exploratory Area
Wildcat

11. County or Parish, State
Sanpete County, Utah

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

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

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

The Providence Federal 24-4 was shut-in for a pressure build up analysis on February 22, 2011 concluding 232 days of testing while producing 11,228 BO and 68 MMCF of gas. Two pressure bombs were lowered into the well prior to shut-in and will be removed from the well after 450 hours of shut-in time. The well will remain shut-in indefinitely until Wolverine completes its analysis of the testing and build up data and presents it to the Board of Oil, Gas and Mining. At this point the Board will make its determination regarding the associated oil well gas. Attached is the production data covering the duration of the permitted testing period.

RECEIVED

MAR 14 2011

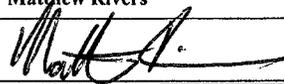
Richfield BLM Field Office

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

Matthew Rivers

Title **Production Engineer**

Signature



Date

03/10/2011

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved by

Title

Date

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

Office

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

(Instructions on page 2)

Sundry # 115LA00365

RECEIVED
MAR 24 2011

DIV. OF OIL, GAS & MINING

Accepted For Record Purposes

GENERAL INSTRUCTIONS

This form is designed for submitting proposals to perform certain well operations, and reports of such operations when completed, as indicated on Federal and Indian lands pursuant to applicable Federal law and regulations. Any necessary special instructions concerning the use of this

form and the number of copies to be submitted, particularly with regard to local area, or regional procedures and practices, either are shown below or will be issued by, or may be obtained from the local Federal office.

SPECIFIC INSTRUCTIONS

Item 4 - Locations on Federal or Indian land should be described in accordance with Federal requirements. Consult the local Federal office for specific instructions.

Item 13 - Proposals to abandon a well and subsequent reports of abandonment should include such special information as is required by the local Federal office. In addition, such proposals and reports should include reasons for the abandonment; data on any former or

present productive zones, or other zones with present significant fluid contents not sealed off by cement or otherwise; depths (top and bottom) and method of placement of cement plugs; mud or other material placed below, between and above plugs; amount, size, method of parting of any casing, liner or tubing pulled and the depth to top of any left in the hole; method of closing top of well and date well site conditioned for final inspection looking to approval of the abandonment.

NOTICE

The Privacy Act of 1974 and the regulation in 43 CFR 2.48(d) provide that you be furnished the following information in connection with information required by this application.

AUTHORITY: 30 U.S.C. 181 et seq., 351 et seq., 25 U.S.C. 396; 43 CFR 3160.

PRINCIPAL PURPOSE: The information is used to: (1) Evaluate, when appropriate, approve applications, and report completion of subsequent well operations, on a Federal or Indian lease; and (2) document for administrative use, information for the management, disposal and use of National Resource lands and resources, such as: (a) evaluating the equipment and procedures to be used during a proposed subsequent well operation and reviewing the completed well operations for compliance with the approved plan; (b) requesting and granting approval to perform those actions covered by 43 CFR 3162.3-2, 3162.3-3, and 3162.3-4; (c) reporting the beginning or resumption of production, as required by 43 CFR 3162.4-1(c) and (d) analyzing future applications to drill or modify operations in light of data obtained and methods used.

ROUTINE USES: Information from the record and/or the record will be transferred to appropriate Federal, State, local or foreign agencies, when relevant to civil, criminal or regulatory investigations or prosecutions in connection with congressional inquiries or to consumer reporting agencies to facilitate collection of debts owed the Government.

EFFECT OF NOT PROVIDING THE INFORMATION: Filing of this notice and report and disclosure of the information is mandatory for those subsequent well operations specified in 43 CFR 3162.3-2, 3162.3-3, 3162.3-4.

The Paperwork Reduction Act of 1995 requires us to inform you that:

This information is being collected to evaluate proposed and/or completed subsequent well operations on Federal or Indian oil and gas leases.

Response to this request is mandatory.

BLM would like you to know that you do not have to respond to this or any other Federal agency-sponsored information collection unless it displays a currently valid OMB control number.

BURDEN HOURS STATEMENT

Public reporting burden for this form is estimated to average 25 minutes per response, including the time for reviewing instructions, gathering and maintaining data, and completing and reviewing the form. Direct comments regarding the burden estimate or any other aspect of this form to U.S. Department of the Interior, Bureau of Land Management (1004-0137), Bureau Information Collection Clearance Officer, (WO-630), Mail Stop 401 LS, 1849 C St., N.W., Washington D.C. 20240

Providence Federal 24-4

FieldName	Date	Oil	Water	Gas	Total Fluid	Water-Cut	GOR	TP	TS	CP	CS	Choke	Run Time	Comments	Cum Oil	Cum Water	Cum Gas
24-04 PF	2/28/2011	0	0	0	0	0%	0	1079	SI	0	SI	0	0	SI for PBU	11,228	9,851	67,880
24-04 PF	2/27/2011	0	0	0	0	0%	0	1076	SI	0	SI	0	0	SI for PBU	11,228	9,851	67,880
24-04 PF	2/26/2011	0	0	0	0	0%	0	1073	SI	0	SI	0	0	SI for PBU	11,228	9,851	67,880
24-04 PF	2/25/2011	23.52	0	0	24	0%	0	1069	SI	0	SI	0	0	SI for PBU	11,228	9,851	67,880
24-04 PF	2/24/2011	0	0	0	0	0%	0	1063	SI	0	SI	48	0		11,204	9,851	67,880
24-04 PF	2/23/2011	0	0	0	0	0%	0	1051	SI	0	SI	0	0	SI for PBU	11,204	9,851	67,880
24-04 PF	2/22/2011	9.99	13.32	73	23	57%	7307	1028	F	0	SI	48	6	SI for PBU	11,204	9,851	67,880
24-04 PF	2/21/2011	41.66	51.73	230	93	55%	5521	112	F	0	SI	48	21		11,194	9,837	67,807
24-04 PF	2/20/2011	34.98	43.3	233	78	55%	6661	111	F	0	SI	48	24		11,153	9,786	67,577
24-04 PF	2/19/2011	36.63	48.35	235	85	57%	6416	110	F	0	SI	48	24		11,118	9,742	67,344
24-04 PF	2/18/2011	36.64	41.36	229	78	53%	6250	114	F	0	SI	48	21		11,081	9,694	67,109
24-04 PF	2/17/2011	36.63	46.63	238	83	56%	6497	107	F	0	SI	48	24		11,044	9,653	66,880
24-04 PF	2/16/2011	37.92	46.63	237	85	55%	6250	112	F	0	SI	48	24		11,008	9,606	66,642
24-04 PF	2/15/2011	35.01	46.64	238	82	57%	6798	112	F	0	SI	48	24		10,970	9,559	66,405
24-04 PF	2/14/2011	35.87	51.73	238	88	59%	6635	112	F	0	SI	48	24		10,935	9,513	66,167
24-04 PF	2/13/2011	36.66	46.62	238	83	56%	6492	107	F	0	SI	48	24		10,899	9,461	65,929
24-04 PF	2/12/2011	34.98	47.75	239	83	58%	6832	109	F	0	SI	48	24		10,862	9,414	65,691
24-04 PF	2/11/2011	36.64	49.96	240	87	58%	6550	112	F	0	SI	48	24		10,827	9,367	65,452
24-04 PF	2/10/2011	36.64	46.63	240	83	56%	6550	109	F	0	SI	48	24		10,791	9,317	65,212
24-04 PF	2/9/2011	34.97	44.41	241	79	56%	6892	112	F	0	SI	48	24		10,754	9,270	64,972
24-04 PF	2/8/2011	36.65	44.97	243	82	55%	6630	109	F	0	SI	48	24		10,719	9,226	64,731
24-04 PF	2/7/2011	35.01	52.45	244	87	60%	6969	109	F	0	SI	48	24		10,682	9,181	64,488
24-04 PF	2/6/2011	35.83	40.81	246	77	53%	6866	108	F	0	SI	48	24		10,647	9,128	64,244
24-04 PF	2/5/2011	38.32	45.01	251	83	54%	6550	108	F	0	SI	48	24		10,612	9,087	63,998
24-04 PF	2/4/2011	41.6	49	258	91	54%	6202	108	F	0	SI	48	24		10,573	9,042	63,747
24-04 PF	2/3/2011	27.89	21.65	209	50	44%	7494	113	F	0	SI	48	16		10,532	8,993	63,489
24-04 PF	2/2/2011	25.08	21.65	162	47	46%	6459	134	F	0	SI	48	16		10,504	8,972	63,280
24-04 PF	2/1/2011	38.3	38.7	242	77	50%	6319	112	F	0	SI	48	24		10,479	8,950	63,118
24-04 PF	1/31/2011	36.65	41.64	241	78	53%	6576	113	F	0	SI	48	24		10,440	8,911	62,876
24-04 PF	1/30/2011	38.34	41.64	242	80	52%	6312	113	F	0	SI	48	24		10,404	8,870	62,635
24-04 PF	1/29/2011	35.84	44.73	243	81	56%	6780	113	F	0	SI	48	24		10,365	8,828	62,393
24-04 PF	1/28/2011	38.32	39.97	243	78	51%	6341	113	F	0	SI	48	24		10,330	8,783	62,150
24-04 PF	1/27/2011	39.98	41.63	243	82	51%	6078	117	F	0	SI	48	24		10,291	8,743	61,907
24-04 PF	1/26/2011	39.97	45.01	248	85	53%	6205	110	F	0	SI	48	24		10,251	8,702	61,664
24-04 PF	1/25/2011	38.3	41.76	251	80	52%	6554	108	F	0	SI	48	24		10,211	8,657	61,416
24-04 PF	1/24/2011	36.63	36.64	215	73	50%	5870	177	F	0	SI	48	20		10,173	8,615	61,165
24-04 PF	1/23/2011	37.1	41.63	238	79	53%	6415	124	F	0	SI	48	24		10,136	8,578	60,950
24-04 PF	1/22/2011	36.67	41.63	240	78	53%	6545	121	F	0	SI	48	24		10,099	8,537	60,712
24-04 PF	1/21/2011	32.95	45.4	240	78	58%	7284	119	F	0	SI	48	24		10,063	8,495	60,472
24-04 PF	1/20/2011	36.24	41.63	241	78	53%	6650	118	F	0	SI	48	24		10,030	8,450	60,232
24-04 PF	1/19/2011	35.41	41.64	242	77	54%	6834	116	F	0	SI	48	24		9,993	8,408	59,991
24-04 PF	1/18/2011	38.31	41.51	242	80	52%	6317	115	F	0	SI	48	24		9,958	8,366	59,749
24-04 PF	1/17/2011	38.3	41.63	244	80	52%	6371	107	F	0	SI	48	24		9,920	8,325	59,507
24-04 PF	1/16/2011	38.3	43.32	243	82	53%	6345	117	F	0	SI	48	24		9,881	8,283	59,263
24-04 PF	1/15/2011	38.3	41.68	243	80	52%	6345	120	F	0	SI	48	24		9,843	8,240	59,020
24-04 PF	1/14/2011	41.67	44.67	239	86	52%	5736	100	F	0	SI	48	24		9,805	8,198	58,777
24-04 PF	1/13/2011	37.01	39.96	236	77	52%	6377	134	F	0	SI	48	24		9,763	8,154	58,538
24-04 PF	1/12/2011	38.32	50.74	236	89	57%	6159	130	F	0	SI	48	24		9,726	8,114	58,302
24-04 PF	1/11/2011	38.31	43.3	238	82	53%	6212	162	F	0	SI	48	24		9,688	8,063	58,066
24-04 PF	1/10/2011	36.22	43.29	240	80	54%	6626	122	F	0	SI	48	24		9,649	8,020	57,828
24-04 PF	1/9/2011	39.97	39.97	240	80	50%	6005	129	F	0	SI	48	24		9,613	7,976	57,588
24-04 PF	1/8/2011	21.66	56.68	241	78	72%	11127	126	F	0	SI	48	24		9,573	7,936	57,348

24-04 PF	1/7/2011	39.98	41.71	241	82	51%	6028	131	F	0	SI	48	23		9,552	7,880	57,107
24-04 PF	1/6/2011	40.01	45.82	252	86	53%	6298	121	F	0	SI	48	24		9,512	7,838	56,866
24-04 PF	1/5/2011	36.67	43.38	255	80	54%	6954	110	F	0	SI	48	24		9,472	7,792	56,614
24-04 PF	1/4/2011	41.65	40.99	260	83	50%	6243	113	F	0	SI	48	23		9,435	7,749	56,359
24-04 PF	1/3/2011	41.23	44.97	258	86	52%	6258	143	F	0	SI	48	24		9,393	7,708	56,099
24-04 PF	1/2/2011	56.62	34.98	261	92	38%	4610	122	F	0	SI	48	22		9,352	7,663	55,841
24-04 PF	1/1/2011	19.98	26.67	141	47	57%	7057	115	F	0	SI	48	14	Down due to mechanical problems	9,295	7,628	55,580
24-04 PF	12/31/2010	34.97	40.01	249	75	53%	7120	115	F	0	SI	48	24		9,275	7,601	55,439
24-04 PF	12/30/2010	32.91	45.11	251	78	58%	7627	110	F	0	SI	48	24		9,241	7,561	55,190
24-04 PF	12/29/2010	6.66	76.65	254	83	92%	38138	109	F	0	SI	48	24		9,208	7,516	54,939
24-04 PF	12/28/2010	35.01	48.34	254	83	58%	7255	110	F	0	SI	48	24		9,201	7,439	54,685
24-04 PF	12/27/2010	41.67	41.74	254	83	50%	6096	113	F	0	SI	48	24		9,166	7,391	54,431
24-04 PF	12/26/2010	44.98	43.3	254	88	49%	5647	110	F	0	SI	48	24	Mechanical problems	9,124	7,349	54,177
24-04 PF	12/25/2010	38.32	39.96	256	78	51%	6681	113	F	0	SI	48	24	Mechanical problems	9,079	7,306	53,923
24-04 PF	12/24/2010	43.3	45	255	88	51%	5889	100	F	0	SI	48	24		9,041	7,266	53,667
24-04 PF	12/23/2010	38.3	41.66	255	80	52%	6658	100	F	0	SI	48	24		8,998	7,221	53,412
24-04 PF	12/22/2010	43.29	33.35	250	77	44%	5775	100	F	0	SI	48	24		8,959	7,179	53,157
24-04 PF	12/21/2010	72.94	15	247	88	17%	3386	107	F	0	SI	48	23		8,916	7,146	52,907
24-04 PF	12/20/2010	37.12	43.06	246	80	54%	6627	107	F	0	SI	48	24		8,843	7,131	52,660
24-04 PF	12/19/2010	40	42	252	82	51%	6302	120	F	0	SI	48	24	SI for PBU	8,806	7,088	52,414
24-04 PF	12/18/2010	43	43	252	87	50%	5817	117	F	0	SI	48	24	SI for PBU	8,766	7,046	52,162
24-04 PF	12/17/2010	42	43	254	85	51%	6101	122	F	0	SI	48	24	SI for PBU	8,723	7,003	51,910
24-04 PF	12/15/2010	42	44	253	85	51%	6077	91	F	0	SI	48	24	SI for PBU	8,681	6,960	51,656
24-04 PF	12/14/2010	45	43	255	88	49%	5667	93	F	0	SI	48	24		8,639	6,916	51,403
24-04 PF	12/13/2010	44	43	254	87	50%	5806	110	F	0	SI	48	24		8,594	6,873	51,148
24-04 PF	12/12/2010	48	48	258	96	50%	5428	108	F	0	SI	48	24	SI for PBU	8,550	6,830	50,894
24-04 PF	12/11/2010	42	42	259	83	50%	6217	110	F	0	SI	48	24	SI for PBU	8,502	6,782	50,636
24-04 PF	12/10/2010	42	43	256	85	51%	6148	105	F	0	SI	48	24		8,460	6,740	50,377
24-04 PF	12/9/2010	42	40	255	82	49%	6125	98	F	0	SI	48	24		8,418	6,697	50,121
24-04 PF	12/8/2010	42	43	256	85	51%	6149	112	F	0	SI	48	24	SI for service	8,376	6,657	49,866
24-04 PF	12/7/2010	43	42	257	85	49%	5930	109	F	0	SI	48	24		8,334	6,614	49,610
24-04 PF	12/6/2010	43	42	258	86	49%	5953	112	F	0	SI	48	24		8,291	6,572	49,353
24-04 PF	12/5/2010	33	47	259	80	59%	7865	111	F	0	SI	48	24		8,248	6,530	49,095
24-04 PF	12/4/2010	45	43	259	88	49%	5757	115	F	0	SI	48	24		8,215	6,483	48,836
24-04 PF	12/3/2010	42	42	259	83	50%	6220	116	F	0	SI	48	24		8,170	6,440	48,577
24-04 PF	12/2/2010	43	43	258	87	50%	5963	111	F	0	SI	48	24		8,128	6,398	48,318
24-04 PF	12/1/2010	43	43	255	87	50%	5886	112	F	0	SI	48	24		8,085	6,355	48,060
24-04 PF	11/30/2010	40	48	256	88	54%	6403	109	F	0	SI	48	24		8,042	6,312	47,805
24-04 PF	11/29/2010	45	39	254	84	47%	5644	102	F	0	SI	48	24		8,002	6,264	47,549
24-04 PF	11/28/2010	43	45	251	88	51%	5791	108	F	0	SI	48	24		7,957	6,225	47,295
24-04 PF	11/27/2010	43	42	256	85	49%	5907	107	F	0	SI	48	24		7,914	6,180	47,044
24-04 PF	11/26/2010	42	43	254	85	51%	6098	101	F	0	SI	48	24		7,871	6,138	46,788
24-04 PF	11/25/2010	43	42	253	85	49%	5844	105	F	0	SI	48	24		7,829	6,095	46,534
24-04 PF	11/24/2010	40	38	259	78	49%	6480	114	F	0	SI	48	24		7,786	6,053	46,281
24-04 PF	11/23/2010	43	42	265	85	49%	6120	118	F	0	SI	48	24	Shut in due to cold weather	7,746	6,015	46,022
24-04 PF	11/22/2010	47	36	266	83	44%	5698	114	F	0	SI	48	24	Shut in due to cold weather	7,703	5,973	45,757
24-04 PF	11/21/2010	39	40	269	79	51%	6864	106	F	0	SI	48	24		7,656	5,937	45,491
24-04 PF	11/20/2010	45	43	262	89	49%	5765	114	F	0	SI	48	24		7,617	5,897	45,222
24-04 PF	11/19/2010	45	43	251	88	49%	5579	101	F	0	SI	48	24		7,572	5,854	44,960
24-04 PF	11/18/2010	43	42	250	85	49%	5775	130	F	0	SI	48	24		7,527	5,811	44,709
24-04 PF	11/17/2010	48	45	263	93	48%	5492	102	F	0	SI	48	24		7,484	5,769	44,459
24-04 PF	11/16/2010	42	42	261	83	50%	6270	121	F	0	SI	48	24		7,436	5,724	44,196
24-04 PF	11/15/2010	42	43	264	85	51%	6337	108	F	0	SI	48	24		7,394	5,682	43,935
24-04 PF	11/14/2010	47	43	265	90	48%	5678	116	F	0	SI	48	24		7,352	5,639	43,671
24-04 PF	11/13/2010	45	47	262	91	51%	5874	110	F	0	SI	48	24	Down due to maintenance	7,305	5,596	43,406

24-04 PF	11/12/2010	43	42	262	85	49%	6049	110	F	0	SI	48	24	7,260	5,549	43,144
24-04 PF	11/11/2010	42	40	261	82	49%	6270	111	F	0	SI	48	24	7,217	5,507	42,882
24-04 PF	11/10/2010	48	43	264	91	47%	5466	113	F	0	SI	48	24	7,175	5,467	42,621
24-04 PF	11/9/2010	44	41	255	85	49%	5833	114	F	0	SI	48	24	7,127	5,424	42,357
24-04 PF	11/8/2010	33	43	255	77	57%	7648	120	F	0	SI	48	24	7,083	5,383	42,102
24-04 PF	11/7/2010	45	39	253	84	46%	5625	124	F	0	SI	48	24	7,050	5,340	41,847
24-04 PF	11/6/2010	43	42	256	85	49%	5911	105	F	0	SI	48	24	7,005	5,301	41,594
24-04 PF	11/5/2010	45	40	256	85	47%	5746	111	F	0	SI	48	24	6,962	5,259	41,338
24-04 PF	11/4/2010	43	38	275	82	47%	6348	96	F	0	SI	48	24	6,917	5,219	41,082
24-04 PF	11/3/2010	25	43	277	68	63%	11089	112	F	0	SI	48	24	6,874	5,181	40,807
24-04 PF	11/2/2010	45	39	287	84	46%	6379	107	F	0	SI	48	24	6,849	5,138	40,530
24-04 PF	11/1/2010	45	38	283	83	46%	6287	111	F	0	SI	48	24	6,804	5,099	40,243
24-04 PF	10/31/2010	43	43	283	87	50%	6515	91	F	0	SI	48	21	6,759	5,061	39,960
24-04 PF	10/30/2010	38	33	222	72	47%	5793	109	F	0	SI	48	21	6,716	5,018	39,677
24-04 PF	10/29/2010	42	39	275	81	48%	6603	109	F	0	SI	48	24	6,678	4,985	39,455
24-04 PF	10/28/2010	45	40	277	85	47%	6161	109	F	0	SI	48	24	6,636	4,946	39,180
24-04 PF	10/27/2010	54	33	277	87	38%	5119	111	F	0	SI	48	24	6,591	4,906	38,903
24-04 PF	10/26/2010	40	40	277	80	50%	6935	114	F	0	SI	48	24	6,537	4,873	38,626
24-04 PF	10/25/2010	45	38	277	83	46%	6190	110	F	0	SI	48	24	6,497	4,833	38,349
24-04 PF	10/24/2010	60	38	277	98	39%	4619	108	F	0	SI	48	23	6,452	4,795	38,072
24-04 PF	10/23/2010	32	37	281	68	54%	8853	111	F	0	SI	48	24	6,392	4,757	37,795
24-04 PF	10/22/2010	38	40	266	78	51%	6925	132	F	0	SI	48	24	6,360	4,720	37,514
24-04 PF	10/21/2010	42	42	268	83	50%	6435	150	F	0	SI	48	24	6,322	4,680	37,248
24-04 PF	10/20/2010	43	40	279	83	48%	6442	110	F	0	SI	48	24	6,280	4,638	36,980
24-04 PF	10/19/2010	47	41	291	88	47%	6242	123	F	0	SI	48	24	6,237	4,598	36,701
24-04 PF	10/18/2010	42	43	289	85	51%	6940	86	F	0	SI	48	24	6,190	4,557	36,410
24-04 PF	10/17/2010	45	37	290	82	45%	6447	90	F	0	SI	48	24	6,148	4,514	36,121
24-04 PF	10/16/2010	43	42	292	85	49%	6737	90	F	0	SI	48	24	6,103	4,477	35,831
24-04 PF	10/15/2010	57	48	294	105	46%	5183	76	F	0	SI	48	24	6,060	4,435	35,539
24-04 PF	10/14/2010	57	46	294	103	45%	5192	79	F	0	SI	48	24	6,003	4,387	35,245
24-04 PF	10/13/2010	48	41	294	89	46%	6096	82	F	0	SI	48	24	5,946	4,341	34,951
24-04 PF	10/12/2010	35	52	292	87	60%	8350	93	F	0	SI	48	24	5,898	4,300	34,657
24-04 PF	10/11/2010	23	42	294	65	64%	12613	100	F	0	SI	48	24	5,863	4,248	34,365
24-04 PF	10/10/2010	42	60	293	102	59%	7031	76	P	0	SI	48	24	5,840	4,206	34,071
24-04 PF	10/9/2010	47	43	295	90	48%	6321	74	F	0	SI	48	24	5,798	4,146	33,778
24-04 PF	10/8/2010	43	40	297	83	48%	6843	91	F	0	SI	48	24	5,751	4,103	33,483
24-04 PF	10/7/2010	45	40	297	85	47%	6596	94	F	0	SI	48	24	5,708	4,063	33,186
24-04 PF	10/6/2010	45	42	294	87	48%	6533	74	F	0	SI	48	24	5,663	4,023	32,889
24-04 PF	10/5/2010	36	43	298	79	55%	8324	73	F	0	SI	48	24	5,618	3,981	32,595
24-04 PF	10/4/2010	47	42	302	88	47%	6477	78	F	0	SI	48	24	5,582	3,938	32,297
24-04 PF	10/3/2010	65	25	298	90	28%	4586	78	F	0	SI	48	24	5,535	3,896	31,995
24-04 PF	10/2/2010	48	40	299	88	45%	6184	83	F	0	SI	48	24	5,470	3,871	31,697
24-04 PF	10/1/2010	48	39	297	87	44%	6149	106	F	0	SI	48	24	5,422	3,831	31,398
24-04 PF	9/30/2010	55	43	300	98	44%	5499	81	F	0	SI	48	24	5,374	3,792	31,101
24-04 PF	9/29/2010	52	42	298	93	45%	5773	80	F	0	SI	48	24	5,319	3,749	30,801
24-04 PF	9/28/2010	55	40	301	95	42%	5476	80	P	0	SI	48	24	5,267	3,707	30,503
24-04 PF	9/27/2010	54	38	302	92	42%	5618	110	F	0	SI	48	24	5,212	3,667	30,202
24-04 PF	9/26/2010	55	40	302	95	42%	5486	82	F	0	SI	48	24	5,158	3,629	29,900
24-04 PF	9/25/2010	55	73	305	128	57%	5537	86	F	0	SI	48	24	5,103	3,589	29,598
24-04 PF	9/24/2010	55	17	306	72	23%	5566	93	F	0	SI	48	24	5,048	3,516	29,293
24-04 PF	9/23/2010	52	38	295	90	43%	5712	124	F	0	SI	48	24	4,993	3,499	28,987
24-04 PF	9/22/2010	55	25	293	80	31%	5331	122	F	0	SI	48	24	4,941	3,461	28,692
24-04 PF	9/21/2010	39	53	295	92	58%	7539	122	F	0	SI	48	24	4,886	3,436	28,399
24-04 PF	9/20/2010	43	43	297	87	50%	6854	124	F	0	SI	48	24	4,847	3,383	28,104
24-04 PF	9/19/2010	47	38	298	85	45%	6391	109	F	0	SI	48	24	4,804	3,340	27,807

Down to maintenance

Due to mechanical problems

Down due to mechanical problems

Down due to mechanical problems

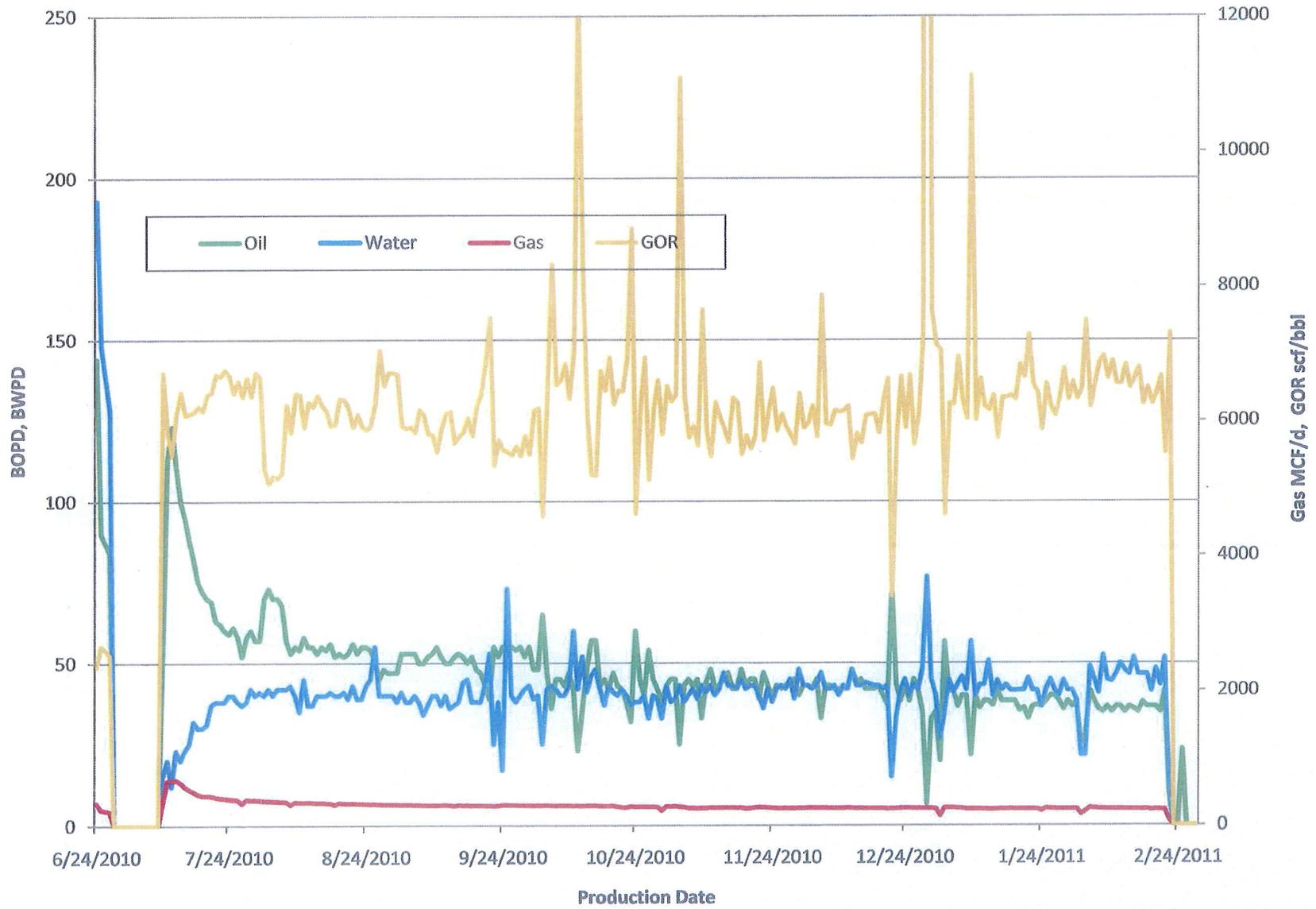
Water Draw

Down for scada test

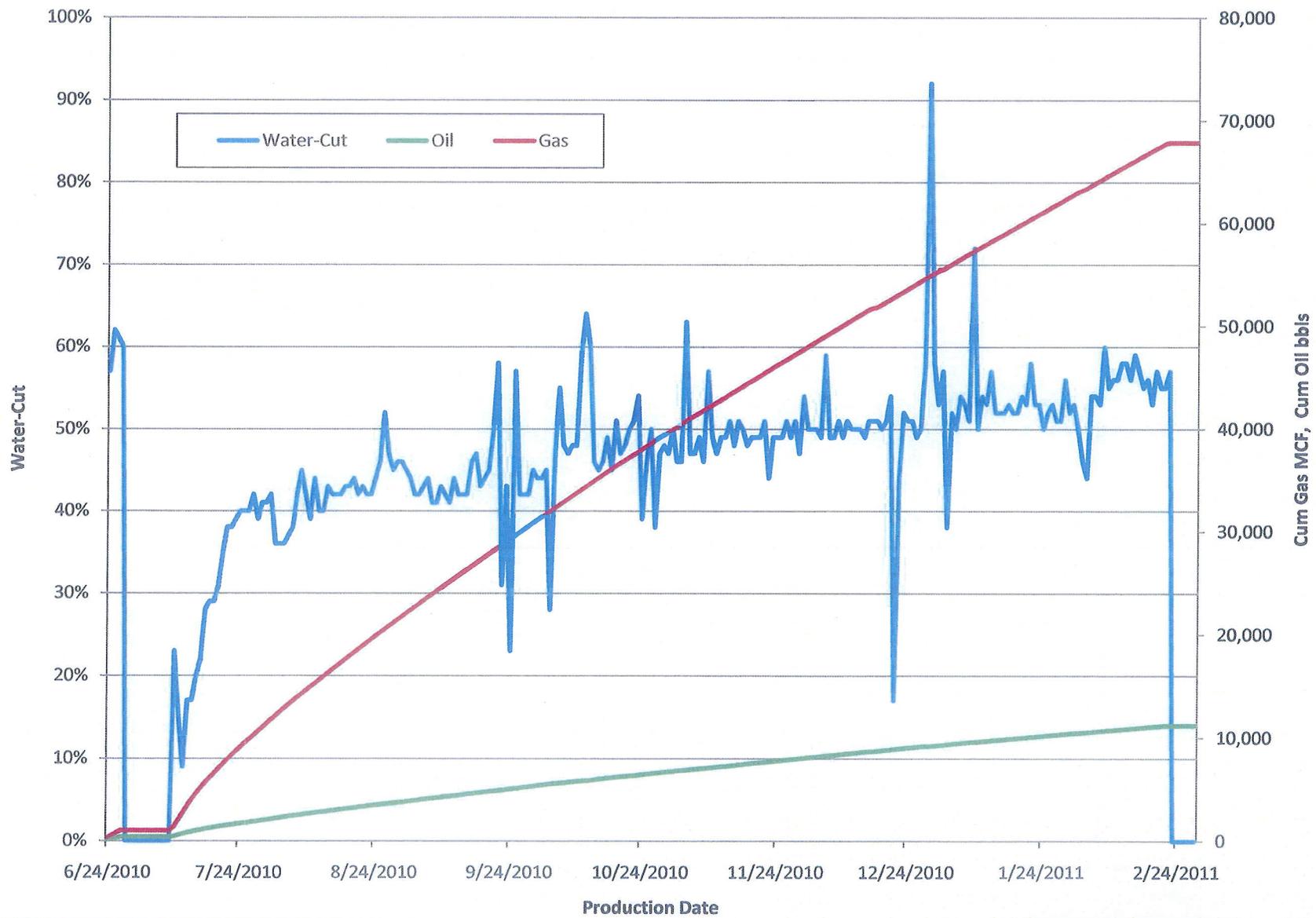
24-04 PF	9/18/2010	48	38	300	87	44%	6212	112	F	0	SI	48	24	4,757	3,302	27,509
24-04 PF	9/17/2010	52	38	298	90	43%	5772	147	F	0	SI	48	24	4,709	3,264	27,209
24-04 PF	9/16/2010	50	45	302	95	47%	6039	114	F	0	SI	48	24	4,657	3,226	26,911
24-04 PF	9/15/2010	52	44	301	96	46%	5825	135	F	0	SI	48	24	4,607	3,181	26,609
24-04 PF	9/14/2010	53	38	303	91	42%	5766	135	P	0	SI	48	24	4,555	3,137	26,308
24-04 PF	9/13/2010	52	37	295	90	42%	5669	153	F	0	SI	48	24	4,502	3,099	26,005
24-04 PF	9/12/2010	50	36	304	85	42%	6136	115	F	0	SI	48	24	4,450	3,062	25,710
24-04 PF	9/11/2010	50	40	305	90	44%	6104	132	F	0	SI	48	24	4,400	3,026	25,406
24-04 PF	9/10/2010	52	37	304	88	41%	5886	119	F	0	SI	48	24	4,350	2,986	25,101
24-04 PF	9/9/2010	55	40	302	95	42%	5532	104	F	0	SI	48	24	4,298	2,949	24,797
24-04 PF	9/8/2010	53	40	304	93	43%	5783	102	F	0	SI	48	24	4,243	2,909	24,495
24-04 PF	9/7/2010	52	37	302	89	41%	5801	103	F	0	SI	48	24	4,190	2,869	24,191
24-04 PF	9/6/2010	50	34	304	84	41%	6082	117	F	0	SI	48	24	4,138	2,832	23,889
24-04 PF	9/5/2010	50	38	305	88	44%	6157	100	F	0	SI	48	24	4,088	2,798	23,585
24-04 PF	9/4/2010	53	40	308	93	43%	5823	110	F	0	SI	48	24	4,038	2,760	23,280
24-04 PF	9/3/2010	53	38	310	90	42%	5904	124	F	0	SI	48	24	3,985	2,720	22,972
24-04 PF	9/2/2010	53	38	309	90	42%	5882	112	F	0	SI	48	24	3,932	2,682	22,662
24-04 PF	9/1/2010	53	41	311	94	44%	5918	120	F	0	SI	48	24	3,879	2,644	22,353
24-04 PF	8/31/2010	47	38	312	85	45%	6688	110	F	0	SI	48	24	3,826	2,603	22,042
24-04 PF	8/30/2010	47	40	313	86	46%	6712	116	F	0	SI	48	24	3,779	2,565	21,730
24-04 PF	8/29/2010	47	40	313	87	46%	6712	115	F	0	SI	48	24	3,732	2,525	21,417
24-04 PF	8/28/2010	48	40	315	88	45%	6523	125	F	0	SI	48	24	3,685	2,485	21,104
24-04 PF	8/27/2010	45	40	317	85	47%	7044	188	F	0	SI	48	24	3,637	2,445	20,789
24-04 PF	8/26/2010	51	55	321	106	52%	6266	125	F	0	SI	48	24	3,592	2,405	20,472
24-04 PF	8/25/2010	54	45	318	99	46%	5920	134	F	0	SI	48	24	3,541	2,350	20,151
24-04 PF	8/24/2010	55	43	322	98	44%	5859	123	F	0	SI	48	24	3,487	2,305	19,833
24-04 PF	8/23/2010	55	39	325	94	42%	5913	138	F	0	SI	48	24	3,432	2,262	19,511
24-04 PF	8/22/2010	53	39	325	92	42%	6091	119	F	0	SI	48	24	3,377	2,223	19,186
24-04 PF	8/21/2010	56	43	330	99	43%	5902	121	F	0	SI	48	24	3,324	2,184	18,861
24-04 PF	8/20/2010	53	39	327	92	42%	6184	150	F	0	SI	48	24	3,268	2,141	18,531
24-04 PF	8/19/2010	52	41	331	93	44%	6310	150	F	0	SI	48	24	3,215	2,102	18,204
24-04 PF	8/18/2010	53	40	337	93	43%	6323	150	F	0	SI	48	24	3,163	2,061	17,873
24-04 PF	8/17/2010	52	40	309	92	43%	5938	125	F	0	SI	48	20	3,110	2,021	17,536
24-04 PF	8/16/2010	56	41	333	97	42%	5920	125	F	0	SI	48	24	3,058	1,981	17,227
24-04 PF	8/15/2010	54	40	333	94	42%	6145	150	F	0	SI	48	24	3,002	1,940	16,894
24-04 PF	8/14/2010	55	40	340	95	42%	6223	200	F	0	SI	48	24	2,948	1,900	16,561
24-04 PF	8/13/2010	53	40	340	93	43%	6377	120	F	0	SI	48	24	2,893	1,860	16,221
24-04 PF	8/12/2010	55	37	341	92	40%	6205	125	F	0	SI	48	24	2,840	1,820	15,881
24-04 PF	8/11/2010	55	37	345	92	40%	6275	100	F	0	SI	48	24	2,785	1,783	15,540
24-04 PF	8/10/2010	58	45	344	103	44%	5896	180	F	0	SI	48	24	2,730	1,746	15,195
24-04 PF	8/9/2010	54	35	346	89	39%	6386	150	F	0	SI	48	24	2,672	1,701	14,851
24-04 PF	8/8/2010	55	40	349	95	42%	6393	200	F	0	SI	48	24	2,618	1,666	14,505
24-04 PF	8/7/2010	53	43	310	97	45%	5817	120	F	0	SI	48	24	2,563	1,626	14,156
24-04 PF	8/6/2010	57	42	355	99	42%	6225	125	F	0	SI	48	24	2,510	1,583	13,846
24-04 PF	8/5/2010	68	42	357	110	38%	5226	192	F	0	SI	48	24	2,453	1,541	13,491
24-04 PF	8/4/2010	70	42	360	112	37%	5143	196	F	0	SI	48	24	2,385	1,499	13,134
24-04 PF	8/3/2010	70	40	362	110	36%	5174	125	F	0	SI	48	24	2,315	1,457	12,774
24-04 PF	8/2/2010	73	42	369	115	36%	5062	200	F	0	SI	48	24	2,245	1,417	12,412
24-04 PF	8/1/2010	70	40	369	110	36%	5271	130	F	0	SI	48	24	2,172	1,375	12,043
24-04 PF	7/31/2010	57	41	376	98	42%	6635	125	F	0	SI	48	24	2,102	1,335	11,674
24-04 PF	7/30/2010	57	40	381	97	41%	6715	188	F	0	SI	48	24	2,045	1,294	11,298
24-04 PF	7/29/2010	60	42	379	101	41%	6361	174	F	0	SI	48	24	1,988	1,254	10,917
24-04 PF	7/28/2010	58	38	387	96	39%	6638	166	F	0	SI	48	24	1,928	1,212	10,538
24-04 PF	7/27/2010	52	37	328	88	42%	6354	175	F	0	SI	48	18	1,870	1,174	10,151
24-04 PF	7/26/2010	58	38	384	97	40%	6588	175	F	0	SI	48	24	1,818	1,137	9,823

24-04 PF	7/25/2010	61	40	390	101	40%	6409	170	F	0	SI	48	24	1,760	1,099	9,439
24-04 PF	7/24/2010	59	40	395	99	40%	6671	175	F	0	SI	48	24	1,699	1,059	9,049
24-04 PF	7/23/2010	60	38	405	98	39%	6753	175	F	0	SI	48	24	1,640	1,019	8,654
24-04 PF	7/22/2010	62	38	413	100	38%	6657	175	F	0	SI	48	24	1,580	981	8,249
24-04 PF	7/21/2010	63	38	423	102	38%	6685	175	F	0	SI	48	24	1,518	943	7,836
24-04 PF	7/20/2010	69	37	441	106	35%	6413	190	F	0	SI	48	24	1,455	905	7,413
24-04 PF	7/19/2010	70	31	445	101	31%	6385	350	F	0	SI	19	24	1,386	868	6,972
24-04 PF	7/18/2010	72	30	445	102	29%	6141	350	F	0	SI	19	24	1,316	837	6,527
24-04 PF	7/17/2010	75	30	465	105	29%	6205	350	F	0	SI	19	24	1,244	807	6,082
24-04 PF	7/16/2010	82	32	500	113	28%	6124	380	F	0	SI	19	24	1,169	777	5,617
24-04 PF	7/15/2010	88	25	537	113	22%	6100	500	F	0	SI	19	24	1,087	745	5,117
24-04 PF	7/14/2010	95	23	577	118	20%	6077	520	F	0	SI	17	24	999	720	4,580
24-04 PF	7/13/2010	100	20	639	120	17%	6420	570	F	0	SI	17	24	904	697	4,003
24-04 PF	7/12/2010	111	23	674	134	17%	6094	625	F	0	SI	17	24	804	677	3,364
24-04 PF	7/11/2010	123	12	672	135	9%	5471	630	F	0	SI	17	24	693	654	2,690
24-04 PF	7/10/2010	113	20	660	133	15%	5826	625	F	0	SI	17	24	570	642	2,018
24-04 PF	7/9/2010	52	15	347	67	23%	6713	600	F	0	SI	17	12	457	622	1,358
24-04 PF	7/8/2010	0	0	0	0	0%	0		SI		SI	0	0	405	607	1,011
24-04 PF	7/7/2010	0	0	0	0	0%	0		SI		SI	0	0	405	607	1,011
24-04 PF	7/6/2010	0	0	0	0	0%	0		SI		SI	0	0	405	607	1,011
24-04 PF	7/5/2010	0	0	0	0	0%	0		SI		SI	0	0	405	607	1,011
24-04 PF	7/4/2010	0	0	0	0	0%	0		SI		SI	0	0	405	607	1,011
24-04 PF	7/3/2010	0	0	0	0	0%	0		SI		SI	0	0	405	607	1,011
24-04 PF	7/2/2010	0	0	0	0	0%	0		SI		SI	0	0	405	607	1,011
24-04 PF	7/1/2010	0	0	0	0	0%	0		SI		SI	0	0	405	607	1,011
24-04 PF	6/30/2010	0	0	0	0	0%	0		SI		SI	0	0	405	607	1,011
24-04 PF	6/29/2010	0	0	0	0	0%	0		SI		SI	0	0	405	607	1,011
24-04 PF	6/28/2010	0	0	0	0	0%	0		SI		SI	0	0	405	607	1,011
24-04 PF	6/27/2010	84	128	212	212	60%	2516	525	F	60	SI	18	24	405	607	1,011
24-04 PF	6/26/2010	87	138	225	225	61%	2593	575	F	60	SI	18	24	321	479	799
24-04 PF	6/25/2010	90	148	238	238	62%	2648	510	F	60	SI	18	24	234	341	574
24-04 PF	6/24/2010	144	193	336	336	57%	2342	500	F	60	SI	18	24	144	193	336

Providence Federal 24-4



Providence Federal 24-4



STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING	FORM 9 5. LEASE DESIGNATION AND SERIAL NUMBER: UTU-80907
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: PROVIDENCE FED 24-4
2. NAME OF OPERATOR: WOLVERINE GAS & OIL COMPANY OF UTAH, LLC	9. API NUMBER: 43039300400000
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: 0975 FSL 0041 FWL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: SWSW Section: 24 Township: 20.0S Range: 01.0E Meridian: S	9. FIELD and POOL or WILDCAT: PROVIDENCE COUNTY: SANPETE 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: 4/2/2012 <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 style="width: 100px;" type="text" value="Injection Test"/>

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

Wolverine Gas & Oil Co. of Utah, LLC plans to perform a short term injectivity test on the Providence Federal 24-4 with liquid CO2 for up to 8 hours. The existing tubing string and packer will be left in place for the test with the CO2 being injected into the Navajo through the existing perf set at 9014'-9039'. Halliburton will be rigging up to the wellhead and pumping the job. The purpose of the test will be to determine the injectivity index of the well and to size future compression equipment for the project moving forward.

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

Date: March 22, 2012

By: *Derek Quist*

NAME (PLEASE PRINT) Matthew Rivers	PHONE NUMBER 616 458-1150	TITLE Production Engineer
SIGNATURE N/A	DATE 3/21/2012	

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
4303930030	Wolverine Federal Arapien Valley 24-1		SWNW	24	20S	1E	Sanpete
Action Code	Current Entity Number	New Entity Number	Spud Date			Entity Assignment Effective Date	
C	16417	18479	10/3/2007			6/10/2008	
Comments: <u>Approved Providence PA</u> <u>nava</u> <u>4/30/2012</u>							

Well 2

API Number	Well Name		QQ	Sec	Twp	Rng	County
4303930040	Providence Federal 24-4		SWSW	24	20S	1E	Sanpete
Action Code	Current Entity Number	New Entity Number	Spud Date			Entity Assignment Effective Date	
C	17248	18479	12/1/2008			6/10/2008	
Comments: <u>Approved Providence PA</u> <u>nava</u> <u>4/30/2012</u>							

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)

Jennifer Van Woerkom

Name (Please Print)

Signature

Accountant

Title

4/30/2012

Date

RECEIVED
APR 30 2012

Div. of Oil, Gas & Mining

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		FORM 9
		5. LEASE DESIGNATION AND SERIAL NUMBER: UTU-80907
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
1. TYPE OF WELL Oil Well		8. WELL NAME and NUMBER: PROVIDENCE FED 24-4
2. NAME OF OPERATOR: WOLVERINE GAS & OIL COMPANY OF UTAH, LLC		9. API NUMBER: 43039300400000
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: PROVIDENCE
4. LOCATION OF WELL FOOTAGES AT SURFACE: 0975 FSL 0041 FWL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: SWSW Section: 24 Township: 20.0S Range: 01.0E Meridian: S		COUNTY: SANPETE
		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 checked="" type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion: 5/17/2012 <input type="checkbox"/> SPUD REPORT Date of Spud: <input type="checkbox"/> DRILLING REPORT Report Date:	<input type="checkbox"/> ACIDIZE <input type="checkbox"/> ALTER CASING <input type="checkbox"/> CHANGE TO PREVIOUS PLANS <input type="checkbox"/> CHANGE TUBING <input type="checkbox"/> CHANGE WELL STATUS <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS <input type="checkbox"/> DEEPEN <input type="checkbox"/> FRACTURE TREAT <input type="checkbox"/> OPERATOR CHANGE <input type="checkbox"/> PLUG AND ABANDON <input type="checkbox"/> PRODUCTION START OR RESUME <input type="checkbox"/> RECLAMATION OF WELL SITE <input type="checkbox"/> REPERFORATE CURRENT FORMATION <input type="checkbox"/> SIDETRACK TO REPAIR WELL <input type="checkbox"/> TUBING REPAIR <input type="checkbox"/> VENT OR FLARE <input type="checkbox"/> WATER SHUTOFF <input type="checkbox"/> SI TA STATUS EXTENSION <input type="checkbox"/> WILDCAT WELL DETERMINATION <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="Injection Test"/>	
12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.		
<p>A short term, 8 hour, CO2 injection test was pumped into the Providence Federal 24-4 well through existing perforations at 9014' - 9039' on May 16, 2012. Subsequent to the injection test a 24 hour fall-off was recorded for additional reservoir analysis. Please see attached summary for additional details.</p>		<p>Accepted by the Utah Division of Oil, Gas and Mining FOR RECORD ONLY June 28, 2012</p>
NAME (PLEASE PRINT) Matthew Rivers	PHONE NUMBER 616 458-1150	TITLE Production Engineer
SIGNATURE N/A		DATE 6/26/2012

Wolverine Gas & Oil Company of Utah, LLC Completion Procedure

Providence Federal 24-4

Purpose: Test Navajo 1 injectivity index for 8 hours with dry CO₂ at 0.6 BPM (2 MMscf/d)

PERTINENT INFORMATION

Location: 975' FSL, 41' FWL (SW-SW)
Section 24, Township 20 South, Range 1 East
Sanpete County, Utah

Elevation: 5491' GL, 5517' KB

TD: 14,250'

PBTD: 9,445' (CICR)

API No.: 43-039-30040

Casing: 13-3/8", 68.0# @ 2001', cemented to surface
9-5/8", 53.5#, T-95/HCL-110/L-80 @ 9400', cemented to ~2000'
7-5/8", 33.7#, P-110 @ 9174' – 13,315', cemented from 13,315' to ~9400'.
5-1/2", 20.0#, L-80, LTC @ 12,830', cemented with 465 sks 65:35 Poz mix

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

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

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

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

Capacities: 5-1/2", 20.0#: 0.0221 Bbls/ft, 0.1245 ft³/ft
2-7/8", 6.5#: 0.00579 Bbls/ft, 0.0325 ft³/ft
5-1/2" x 2-7/8" Annulus: 0.0141 Bbls/ft, 0.0794 ft³/ft

BH Temperature: 199°F @ 9100'

Current Navajo1 Perforations:

9014' – 9039' MD/TVD, 25', 75 holes

All depths are referenced to Halliburton SDL-DSN-GR log dated 02/23/2009.

Summary and Results

1. Removed wellhead fence and RU Praxair pumping services.
2. Tied-in to 7-1/16" tubing head flange and RU Praxair wireline unit and lubricator.
3. Ran in Praxair bottom-hole gauge on wireline and left gauge hanging in tubing at 7964' KB-WLM. (Praxair wireline had only 8000' of cable with e-line to connect bottom-hole gauge to surface readout)
4. Hooked up surface readout to record bottom-hole pressure and temperature every 2 seconds. Rate, surface pressure and surface temperature were recorded every 1 minute with a separately configured computer system. Was unable to re-program surface settings on location.
5. Held safety meeting and pressure tested surface lines to 3000 psi.
6. Started up Praxair heat exchanger to pump at a designed 100° F injection temperature.
7. Began injecting down tubing and gradually ramped up rate to 0.6 BPM (2 MMscf/d) with a surface pressure of ~2100 psi and displaced tubing volume into formation. Tubing volume plus casing volume to top of perfs: ~53 bbls.
8. Presumably, the tubing was initially full of reservoir gas with liquids at the bottom of the well. Did not notice a fluid level when running the gauge down to 7964'.
9. Encountered pump problem at 1012 hrs and shut down pump 21 bbls into job.
10. Repaired pump, restarted and successfully pumped remainder of job after 21 minutes of downtime.
11. Injection CO2 reached top of perfs with no noticeable pressure response.
12. Completed job with a total injection volume of 300 bbls (247 bbls of dry CO2 pumped into formation) and shut-in well to record a 24 hour bottom-hole fall-off. Shut down pumps and RD pumping service.
13. Final pumping pressure at 0.6 BPM was 2040 psi at surface and 4960 psi at 7964' KB-WLM. Total pumping time: 8 hrs 57 min. Total pumping time with CO2 at sand face: 7 hrs 7 min.
14. Tubing in well is currently full of CO2 and the well is shut-in. Packer held during job. Casing pressure quickly increased from 150 to 180 psi at the beginning of the job due to tubing expansion and remained at 180 psi for duration of the job. Backside was previously filled with 4% KCL.

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

RECEIVED

NOV 25 2013

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. **24107-050**

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

7. If Unit or CA/Agreement, Name and/or No.
PA is: UTU-80800B

8. Well Name and No.
Providence Federal 24-4

9. API Well No.
43-039-30040

10. Field and Pool, or Exploratory Area
Providence Field

11. County or Parish, State
Sanpete County, Utah

SUBMIT IN TRIPLICATE- Other instructions on reverse side.

1. Type of Well
 Oil Well Gas Well Other

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

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

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

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)
SHL: 975' FSL, 41' FWL, SW SW Sec 24, T20S, R1E
BHL: (Same)

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 checked="" type="checkbox"/> Acidize	<input checked="" 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 checked="" 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 checked="" type="checkbox"/> Recomplete	<input type="checkbox"/> Other	
	<input type="checkbox"/> Change Plans	<input type="checkbox"/> Plug and Abandon	<input type="checkbox"/> Temporarily Abandon		
	<input checked="" 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 is planning to workover the Providence Federal 24-4 (PF 24-4) and convert it to a produced gas injection well, for purposes of pressure maintenance and Enhanced Oil Recovery at Providence Field. All production and re-injection will occur within the Navajo 1 Formation. In accordance with UDOGM regulations, a Request for Agency Action has been filed and a formal hearing with the Board of Oil, Gas and Mining has been scheduled for 12/4/13.

Wolverine intends to begin producing the Providence Field with one producer (the Wolverine Federal Arapien Valley 24-1) and re-inject all produced gas into the PF 24-4. PF 24-4 is currently completed in just one interval of the Navajo 1 (9014'-9039'), so to ensure that all produced gas can be re-injected under acceptable operating conditions, Wolverine will add perforations and stimulate. Two cement retainers (at 9046' and 9074') will be drilled out and an existing CIBP at 9114' will become the new PBTD. Another 14' of Navajo 1 perforations will be added, as follows: 9060'-9062'; 9064'-9066'; 9081'-9084'; 9091'-9093'; and 9099'-9104'. Subsequently, all perforations (9014'-9104') will be acidized and fracture stimulated. After installing tubing and a packer (designed for high CO2 gas), the well will be MIT'd. Then upon receiving approval to commence injection, Wolverine will then start production and gas re-injection activities at Providence Field.

Attached is a copy of PF24-4's current and proposed WBD's, an areal map of the Providence Field, and a copy of the filed UDOGM Petition for PF 24-4's conversion to a gas injection well. Well work is expected to begin in March or April of 2014 and take approximately 2 weeks to finish, subject to frac crew availability. No surface disturbance should be required in the well's planned conversion work.

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

Ron Meredith

Title Sr. Production Engineer

Signature

Ron Meredith

Date

10/31/2013

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

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

Title **SNRS** Date **20 Nov. 2013**
Office **RICHFIELD**

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

(Instructions on page 2)

Sundry #

145LA00425

COA

ATTACHED

RECEIVED

NOV 07 2013

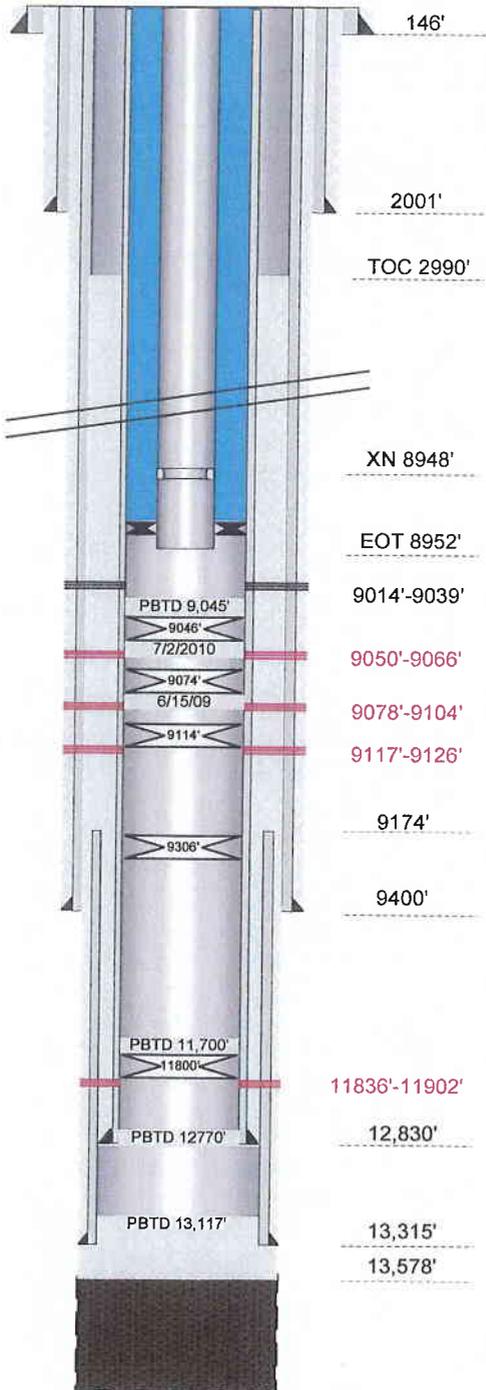
Richfield BLM Field Office



Current WBD

Providence Federal 24-4
Providence Field
API # 43-039-30040
Section 24, T20S, R1E
Sanpete County, Utah

Ground Elevation: 5491'
 KB Elevation: 5517'



TD = 14250' KB

(Not to Scale)

Vertical Well

Surface and BHL: 975' FSL 41' FWL, SW SW, 24-20S-1E

Conductor Casing (12/1/08)

Size: 24", 0.25" wall in 30" hole
 Depth Landed: 146' KB
 Cement Data: Cemented to surface with 11 yds redi-mix

Surface Casing (1/22/09)

Size/Wt/Grade: 13 3/8", 68#, K-55, BTC in 17-1/2" hole
 Depth Landed: 2001' KB
 Cement Data: 400 sks VeriCem (10.4 ppg, 4.33 cf/sk), 490 sks Class G (15.8 ppg, 1.16 cf/sk), Cemented to surface

Intermediate Casing (2/28/09)

Size/Wt/Grade: 9-5/8", 53.5#, T-95/Mav. HCL-110/L-80, LTC/SLX in 12-1/4" hole
 Depth Landed: 9400' KB
 Cement Data: Stg. 1 – 225 sks 50/50 Poz (14.35 ppg, 1.50 cf/sk)
 Stg. 2 lead – 600 sks Class G (11.5 ppg, 2.58 cf/sk)
 Stg. 2 tail – 965 sks Class G (15.80 ppg, 1.70 cf/sk)

Drilling Liner (4/12/09)

Size/Wt/Grade: 7-5/8", 33.7#, P-110, Vam FJL w/ 9.75' Tie-back
 Length: 4253'
 Depth: 9174'-13,315' KB
 Cement Data: 310 sks BondCem (14.5 ppg, 1.45 cf/sk)

Production Casing (5/09/09)

Size/Wt/Grade: 5-1/2", 20#, L-80, LTC, 8rd
 Properties: 9190 psi burst, 4.653" drift, 4.778" ID, 0.0221 Bbl/ft Capacity
 Depth Landed: 12,830' KB,
 Cement Data: 465 sks 65:35 Poz-Premium (11.5 ppg, 3.30 cf/sk)

Navajo1 Perforations

9014' – 9039' MD/TVD, 25', 75 holes (7/06/10)
 9050' – 9066' MD/TVD, 16', 48 holes (7/02/10) - squeezed
 9078' – 9084' MD/TVD, 6', 18 holes (6/15/09) - squeezed
 9092' – 9104' MD/TVD, 12', 36 holes (6/15/09) - squeezed
 9117' – 9126' MD/TVD, 9', 27 holes (6/12/09) – below plugs

Mid-Perf = 9026.5' MD/TVD, 25' TV, 75 holes

Moenkopi Perforations

11,836' – 11,902' MD/TVD, 32', 96 holes (5/30/09)

Tubing (7/09/10)

2-7/8", 6.5#, L-80, EUE, 8rd to 8931' KB MD/TVD, 2.31" XN nipple @ 8937' KB, Arrowset 1X packer at 8945' KB.

PBTD

(7/02/10) 9046' – CICR with 32 sacks cement squeezed below
 (6/29/09) 9074' – CICR with 25 sacks cement squeezed below
 (6/15/09) 9114' – CIBP
 (6/11/09) 9306' – CIBP
 (6/10/09) 11,500' – CIBP @ 11,800' w/ 25 sacks on top
 (5/7/09) 13,117' (Estimated) – Added 200' to first cement plug

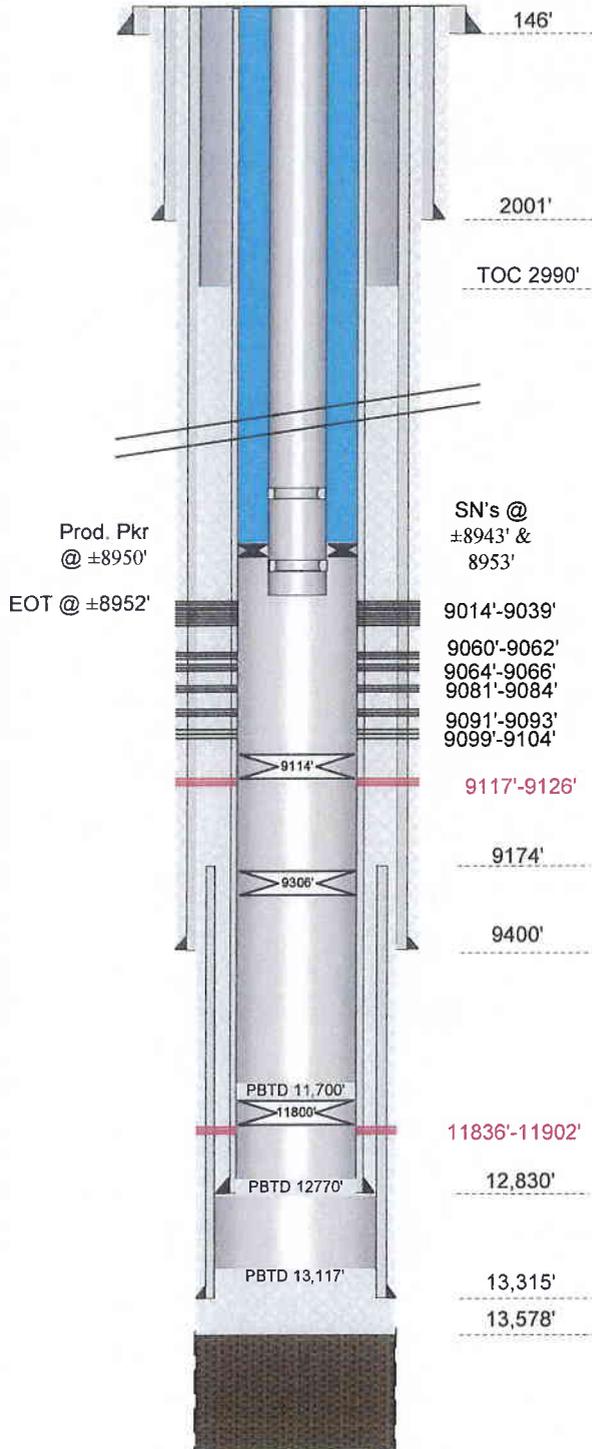


Tentative "Post-Workover" WBD

**Providence Federal 24-4
Providence Field
API # 43-039-30040
Section 24, T20S, R1E
Sanpete County, Utah**

(Not to Scale)

Ground Elevation: 5491'
KB Elevation: 5517'



TD = 14250' KB

Vertical Well

Surface and BHL: 975' FSL 41' FWL, SW SW, 24-20S-1E

Conductor Casing (12/1/08)

Size: 24", 0.25" wall in 30" hole
Depth Landed: 146' KB
Cement Data: Cemented to surface with 11 yds redi-mix

Surface Casing (1/22/09)

Size/Wt/Grade: 13 3/8", 68#, K-55, BTC in 17-1/2" hole
Depth Landed: 2001' KB
Cement Data: 400 sks VeriCem (10.4 ppg, 4.33 cf/sk), 490 sks Class G (15.8 ppg, 1.16 cf/sk), Cemented to surface

Intermediate Casing (2/28/09)

Size/Wt/Grade: 9-5/8", 53.5#, T-95/Mav. HCL-110/L-80, LTC/SLX in 12-1/4" hole
Depth Landed: 9400' KB
Cement Data: Stg. 1 – 225 sks 50/50 Poz (14.35 ppg, 1.50 cf/sk)
Stg. 2 lead – 600 sks Class G (11.5 ppg, 2.58 cf/sk)
Stg. 2 tail – 965 sks Class G (15.80 ppg, 1.70 cf/sk)

Drilling Liner (4/12/09)

Size/Wt/Grade: 7-5/8", 33.7#, P-110, Vam FJL w/ 9.75' Tie-back
Length: 4253'
Depth: 9174'-13,315' KB
Cement Data: 310 sks BondCem (14.5 ppg, 1.45 cf/sk)

Production Casing (5/09/09)

Size/Wt/Grade: 5-1/2", 20#, L-80, LTC, 8rd
Properties: 9190 psi burst, 4.653" drift, 4.778" ID, 0.0221 Bbl/ft Capacity
Depth Landed: 12,830' KB
Cement Data: 465 sks 65:35 Poz-Premium (11.5 ppg, 3.30 cf/sk)

Navajo1 Perforations

9014' – 9039' MD/TVD, 25', 75 holes
9060' – 9062' MD/TVD, 2', 12 holes
9064' – 9066' MD/TVD, 2', 12 holes
9081' – 9084' MD/TVD, 3', 18 holes
9091' – 9093' MD/TVD, 2', 12 holes
9099' – 9104' MD/TVD, 5', 30 holes
9117' – 9126' MD/TVD, 9', 27 holes - PB'd

Mid-Perf = 9059' MD/TVD, 39' Perf'd, 109 holes

Moenkopi Perforations

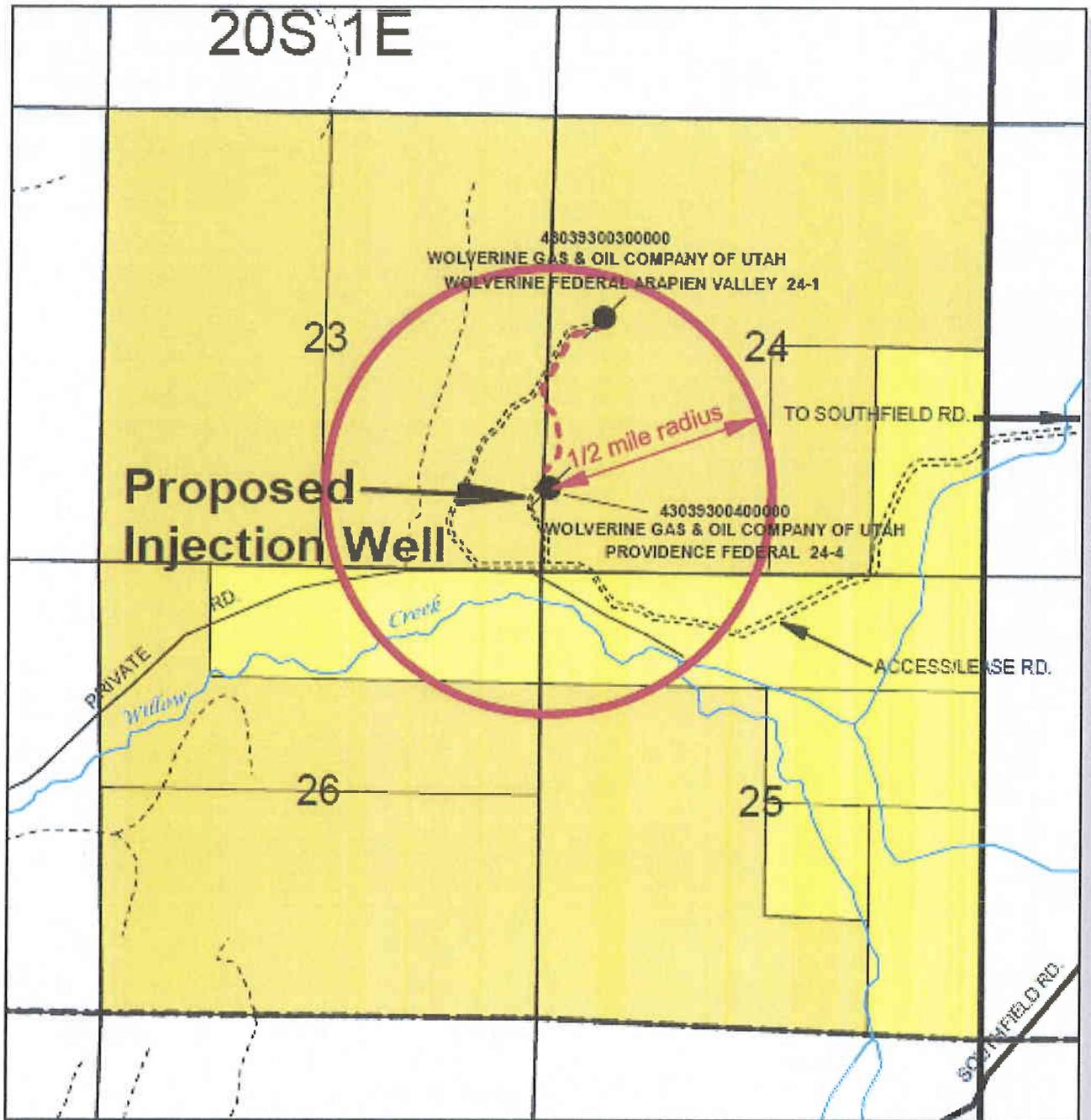
11,836' – 11,902' MD/TVD, 32', 96 holes (5/30/09) PB'd

Anticipated Tubing String (Approx. 4/15/14)

2-7/8", 7#, L-80, 8rd EUE, Fiberglass-lined tubing to Packer @ ±8950' KB MD/TVD, 2.31" X nipple Above and XN nipple Below Pkr

PBTD

(6/15/09) 9114' – CIBP
(6/11/09) 9306' – CIBP
(6/10/09) 11,500' – CIBP @ 11,800' w/ 25 sacks on top
(5/7/09) 13,117' (Estimated) – Added 200' to first cement plug



WGO LEASES

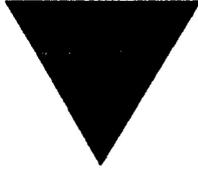
- Access/Lease Rd.
- County Rd.
- Private Rd.
- Unimproved
- Proposed Pipeline
- FEE/PRIVATE
- BLM

Well Status
 INA-OIL

1:24000



	<p>Wolverine Gas & Oil Company of Utah, LLC 10000 Southfield Rd. Suite 100 Southfield, MI 48075 (313) 486-1100</p>
	<p>ATTACHMENT #1 PROPOSED PROVIDENCE FEDERAL 24-4 CONVERSION TO INJECTION WELL</p> <p>SEC. 24, T20S, R1E Salt Lake Co., UT</p>
<p>Date: 8/21/2012</p>	<p>Author: Elizabeth Deaneau or Francisco Rego (igw@wgo.com)</p>



WOLVERINE GAS AND OIL COMPANY

OF UTAH, LLC

Energy Exploration in Partnership with the Environment

September 24, 2013

Mr. Brad Hill
Oil & Gas Permitting Manager
Utah Division of Oil, Gas and Mining
P.O. Box 145801
Salt Lake City, Utah 84114-5801

**Re: Petition to Convert the Providence Federal #24-4 (API # 43-039-30040) to
Produced Gas Injection, for Enhanced Oil Recovery**

Dear Mr. Hill:

Wolverine Gas and Oil Co. of Utah, LLC (Wolverine) hereby submits a petition to convert the Providence Federal (PF) #24-4, located in the Providence Field (T20S, R1E) of Sanpete County, to a produced gas injection well. This well is low on structure and production tests have confirmed its lack of economically viable production potential. A second well, the Wolverine Federal Arapien Valley (WFAV) #24-1, is higher on structure and tested at rates exceeding 200 BOPD, but its associated gas production was high (GOR's ranged from 10,000-12,000 scf/bbl) and approximately 80% CO₂. Wolverine thus proposes to start production at Providence with WFAV #24-1 as the lone producer and re-inject all produced gas back into the same Navajo formation at PF #24-4, so as to enhance oil recovery through pressure maintenance and oil sweeping.

The attached pages address the informational requirements of Utah Administrative Code R649-5-1, et seq. Wolverine respectfully requests your consideration of this material and the approval of our petition to convert PF #24-4 to a produced gas injection well. Please direct any related questions you might have to me. I can be reached during normal business hours (8:00 am to 4:30 pm, EST) at 616/929-1932, or by e-mail at rmeredith@wolvgas.com.

Sincerely,

Ron Meredith
Senior Production Engineer,
Wolverine Gas & Oil Corporation

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

UIC FORM 1

APPLICATION FOR INJECTION WELL

Name of Operator Wolverine Gas and Oil Company of Utah, LLC		Utah Account Number N 1655	Well Name and Number Providence Federal 24-4
Address of Operator 55 Campau NW CITY Grand Rapids STATE MI ZIP 49503		Phone Number (616) 458-1150	API Number 4303930040
Location of Well Footage : 975' FSL, 41' FWL County : Sanpete		Field or Unit Name Providence	
QQ, Section, Township, Range: SWSW 24 20S 1E State : UTAH		Lease Designation and Number UTU-80907	

Is this application for expansion of an existing project? Yes No

Will the proposed well be used for:	Enhanced Recovery?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>
	Disposal?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>
	Storage?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>

Is this application for a new well to be drilled? Yes No

If this application is for an existing well, has a casing test been performed? Yes No
Date of test: _____

Proposed injection interval: from 8,990 to 9,139

Proposed maximum injection: rate 3,000 bpd pressure 3,000 psig

Proposed injection zone contains oil , gas , and / or fresh water within 1/2 mile of the well.

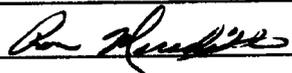
List of attachments: GAS INJECTION LIMIT - 3.0 MMscf/d. Attach s - Petition to Covert well to Produced Gas Inj. w/ 2 Plat Maps, Affidavit of Notices, 2 WBD's, and 4 Fluid (Gas, Oil, and Water) Analyses

**ATTACH ADDITIONAL INFORMATION AS REQUIRED BY CURRENT
UTAH OIL AND GAS CONSERVATION GENERAL RULES**

I hereby certify that this report is true and complete to the best of my knowledge.

Name (Please Print) Ron Meredith

Title Sr. Production Engineer

Signature 

Date 9/24/13

Petition to Convert Providence Federal #24-4 (API # 43-039-30040) to a Gas Injection Well, Providence Field, Sanpete County, Utah

R649-5-1. Requirements for Injection of Fluids Into Reservoirs.

2. A petition for authority for injection shall contain:

2.1. The name and address of the operator of the project.

The proposed Providence Field Gas Injection project and both of the associated wells will be operated by:

**Wolverine Gas and Oil Co. of Utah, LLC
One Riverfront Plaza,
55 Campau NW
Grand Rapids, MI 49503-2616**

2.2. A plat showing the area involved and identifying all wells, including all proposed injection wells, in the project area and within one-half mile radius of the project area.

Attachment #1 is a plat map, illustrating two existing wells in the Providence Field project area. One well is the Providence Federal (PF) #24-4, the proposed gas injector, and the second is the Wolverine Federal Arapien Valley (WFAV) #24-1, which would be the field's only existing producer.

2.3. A full description of the particular operation for which approval is requested.

Referring to Attachment #1, Wolverine will begin operating Providence Field with WFAV #24-1 as the lone producer. Approximately 2,200' of Fiberspar flowline will be routed through the field (per provisions of a previous Sundry, approved by BLM on 11/8/11) and all produced fluid/gas volumes will flow directly to the PF #24-4 well site. All surface equipment, including a high pressure separator and heater treater for separating oil/gas/water, will be at the PF #24-4 location. Oil and water volumes will go to separate on-site holding tanks, with oil to be trucked to refineries and water to be hauled to the evaporation pit at Wolverine's Covenant Field production facility (located approximately 20 miles southwest). Based upon previous WFAV #24-1 production tests, water production is expected to amount to only about 10 BPD and should be easily managed, from the standpoint of storage and trucking.

Providence gas contains less than 15% hydrocarbons and has very high (~80%) CO₂ content. Consequently no gas treatment/extraction activities will occur before separated gas is routed through a compressor and re-injected at PF #24-4, in the same Navajo Formation from which it was produced. Providence wells and surface equipment were designed with appropriate consideration for high CO₂ gas.

2.4. A description of the pools from which the identified wells are producing or have produced.

The PF #24-4 is completed in the Navajo 1 pool of Providence Field. The Navajo is sandstone of Jurassic age. In the PF #24-4, the Navajo 1 pool has a gross pay interval thickness of 148.5' occurring from 8,990' to 9,138.5' MD. Using pay criteria of a minimum of 7% porosity and a maximum of 60% water saturation, the Navajo 1 in the PF #24-4 well has 122.5' of net pay with an average net porosity of 11.7% and average net water saturation of 43.2%. In the WFAV #24-1, the Navajo 1 pool has a gross pay interval thickness of 261.5' occurring from 8930' to 9191.5' MD, 134' of net pay with an average net porosity of 12.1% and average net water saturation of 49.12%. Routine core analysis of sidewall cores from the PF #24-4 and WFAV #24-1 show the Navajo 1 has an average core porosity of 10.7% and permeability of 8 md.

The Navajo 1 pool at Providence field is a structural accumulation within the Central Utah Thrust Belt. Initial reservoir temperature was 193° F at 8,940' TVD and initial reservoir pressure was 3545 psi. The Navajo 1 pool contains a highly volatile oil system; produced hydrocarbons include ~45° API reddish brown crude oil and gas that is largely inert (80.7% CO₂). From PVT analysis, the solution gas-oil ratio is over 4000 scf/stb and the formation volume factor is 2.657.

2.5. The names, description and depth of the pool or pools to be affected.

The conversion of PF #24-4 to a produced gas re-injection well will only affect the Navajo 1 pool at Providence Field. The top Navajo 1 is located at a depth of 8990' in PF#24-4.

2.6. A copy of a log of a representative well completed in the pool.

Copies of open-hole logs for both of the field's wells were submitted with the filing of each well's Completion Report. Per subsequent instructions (R649-5-2.2.4), additional log copies are not included with this filing, but a summary of well log copies previously provided to UDOGM follows:

<u>Well</u>	<u>O.H. Logs Submitted</u>	<u>Submittal Date</u>
PF 24-4	ERMI, BCS, DLL, SD-DSN	1/5/10
WFAV 24-1	HRLLA, FMI, CN/LDL, BCS	5/5/09

2.7. *A statement as to the type of fluid to be used for injection, its source and the estimated amounts to be injected daily.*

The proposed injection fluid at PF #24-4 will consist exclusively of produced gas from WFAV #24-1. Both wells are completed in the same Navajo 1 Formation. Aside from liquids separation no other gas treatment/extraction operations will take place, and all produced gas volumes are to be re-injected. Based on previous WFAV #24-1 well tests, PF #24-4's injection volumes are expected to range from 2.0 to 2.5 MMscf/d. Maximum injection rates cannot exceed 3.0 MMscf/d, without upgrades to the facility.

2.8. *A list of all operators or owners and surface owners within a one-half mile radius of the proposed project.*

As Attachment #2 illustrates, Wolverine is the only operator in the project area and there are just two surface owners within a ½-mile radius of the proposed gas injection well:

Operator: Wolverine Gas and Oil Co. of Utah, LLC
One Riverfront Plaza,
55 Campau NW
Grand Rapids, MI 49503-2616

Surface Owner: Farmland Reserve, Inc.
139 E. South Temple, Suite 110
Salt Lake City, UT 84111-1175

Surface Owner: Federal Government
Bureau of Land Management
Richfield Field Office
150 East 900 North
Richfield, UT 84701

2.9. *An affidavit certifying that said operators or owners and surface owners within a one-half mile radius have been provided a copy of the petition for injection.*

Again, Wolverine Gas and Oil Co. of Utah, LLC is the only operator of record in the project area, but both of the Surface owners listed immediately above (in ... 2.8) have been noticed and provided with a copy of the petition for injection. An affidavit attesting to those notifications is included as Attachment #3.

2.10. *Any additional information the board may determine is necessary to adequately review the petition.*

R649-5-2. Requirements for Class II Injection Wells Including Water Disposal, Storage and Enhanced Recovery Wells.

2. The application for an injection well shall include a properly completed UIC Form 1 and the following:

A completed UIC Form 1 immediately follows these responses to Petition inquiries. (Note that the "Proposed maximum injection rate", shown on Form 1 as "3,000 bpd", is actually "3,000 Mscf/d". Form 1 does not provide for the input of Gas injection volumes).

2.1. *A plat showing the location of the injection well, all abandoned or active wells within a one-half mile radius of the proposed well, and the surface owner and the operator of any lands or producing leases, respectively, within a one-half mile radius of the proposed injection well.*

The subject plat map requirements are provided for in Attachment #2. This map illustrates that there are just two wells in the project area, both of which are operated by Wolverine. The two wells are the proposed PF #24-4 gas injection well and the WFAV #24-1, which would become the field's lone producing well. As the plat map also shows, there are also just two landowners in the project area. The majority of land in the project area, including the land at both well locations, is federally owned but approximately 110 acres of land within the half-mile radius is privately owned.

2.2. *Copies of electrical or radioactive logs, including gamma ray logs, for the proposed well run prior to the installation of casing and indicating resistivity, spontaneous potential, caliper, and porosity.*

As noted previously, copies of open-hole logs for the proposed PF #24-4 injector conversion were submitted with the well's Completion Report. No additional log copy is included with this filing, per R649-5-2.2.4. However, a list of the O.H. logs previously provided to UDOGM for PF 24-4 follows:

<u>O.H. Logs Submitted</u>	<u>Submittal Date</u>
ERMI, BCS, DLL, SD-DSN	1/5/10

2.3. *A copy of a cement bond or comparable log run for the proposed injection well after casing was set and cemented.*

Copies of cement bond logs for the PF 24-4 were included with the Completion Report that was submitted for the well on 1/5/10. Per R649-5-2.2.4, no additional CBL copy is included with this filing.

2.4. *Copies of logs already on file with the division should be referenced, but need not be refiled.*

2.5. *A description of the casing or proposed casing program of the injection well and of the proposed method for testing the casing before use of the well.*

A wellbore diagram for the proposed PF #24-4 injection well is included as Attachment #4 (with pages a and b). As illustrated in that diagram, mechanical integrity will be safeguarded by a tubing and packer, and three cemented casing strings inside the well's conductor pipe.

Originally drilled as a Providence Field producer in 2009, #24-4 has fully cemented 13³/₈" surface casing set to 2001'. The 9⁵/₈" intermediate casing is set at 9400' and was cemented with 1790 sx (a CBL found the TOC at 2,200'). The 5¹/₂" production casing was set inside a 7⁵/₈" liner (the well was originally drilled as a deep test) and cemented to 2990' (TOC) with 465 sx. Tubing is 2⁷/₈", to a (nickel coated) packer set at 8947'. All tubulars inside of the 13³/₈" surface casing are Grade 'L'.

Casing has been tested at the PF #24-4, but Wolverine plans to add perforations and stimulate the Navajo formation prior to commencing gas injection (a related workover Sundry will be filed separately). Since that work will require tubing/packer manipulation, a post-work casing re-test will be necessary. Following recompletion, the tubing x production casing annulus will be refilled with ±8.5 ppg inhibited 4% KCl and pressure tested to at least 1,000 psi, for 30 minutes to verify wellbore integrity. The post-work casing test will be coordinated so that a UDOGM official representative can be on-site to witness the test. Wolverine understands that a successful casing test is required in order to receive approval to commence injection.

2.6. *A statement as to the type of fluid to be used for injection, its source and estimated amounts to be injected daily.*

The proposed injection fluid at PF #24-4 will consist entirely and exclusively of gas, produced from the same Providence Field / Navajo formation where it will be re-injected. Based on previous WFAV #24-1 production tests, injection volumes at PF #24-4 are expected to range from 2.0 to 3.0 MMscf/d, and cannot exceed 3 MMscf/d due to facility constraints.

2.7. *Standard laboratory analyses of:*

2.7.1. *The fluid to be injected.*

A copy of a Gas Sample Analysis, from produced gas at the WFAV #24-1 well, is provided as Attachment #5.

2.7.2. *The fluid in the formation into which the fluid is being injected, and*

Copies of Oil, Water and Gas Sample Analyses from PF #24-4 well are provided as Attachments #6, #7 and #8, respectively.

2.7.3. The compatibility of the fluids.

The proposed injection gas for PF #24-4 is native to the Navajo formation and coexists naturally with that formation's oil and water. Since gas will be injected into the same Navajo Formation from which it will be produced (at the WFAV #24-1 well) and no gas processing will take place between production and re-injection, fluid compatibility issues do not present a concern.

2.8. The proposed average and maximum injection pressures.

The anticipated average injection pressure will be 2200 psi and the proposed maximum injection pressure is 3000 psi.

2.9. Evidence and data to support a finding that the proposed injection well will not initiate fractures through the overlying strata or a confining interval that could enable the injected fluid or formation fluid to enter any fresh water strata.

The proposed maximum WHP will ensure that bottom hole pressures remain below the well's frac gradient at all times during gas injection operations. The basis for the proposed WHP limit is an 8-hour CO₂ injection test conducted in 2012 on the PF#24-4 and subsequent wellbore performance simulations and reservoir modeling studies using data from that test.

As pressure falloff data from the PF#24-4's CO₂ injection test confirmed, that well has never been frac'd. However, a frac gradient of 0.62 psi/ft was established from DFIT analysis at WFAV #24-1 and used to determine a limiting BHP of 5597 psi (0.62 psi/ft and 9027', mid-perfs) at PF#24-4. Flow correlations (Beggs & Brill and Cullendar & Smith) for CO₂-rich gas behavior and friction inside 2⁷/₈" tubing were validated with data from PF#24-4's CO₂ injection test and then used to calculate a maximum WHP and gas flow rate, corresponding to the 5597 psi BHP limitation. Using this methodology and conservatively reducing the "calculated limits", Wolverine proposes a maximum rate of 3,000 Mscfpd and a corresponding maximum wellhead injection pressure of 3,000 psi.

Wolverine's consulting reservoir engineer (Mr. Tom Zadick) performed the above-referenced modeling and simulation work and determined the maximum BHP and corresponding injection rate for this fluid system. His work concluded that an injection rate of 3.4 MMscfpd could occur at 3139 psi wellhead pressure (after successful addition of new perfs and reduction of current wellbore damage) without reaching the well's frac gradient. Therefore, Wolverine conservatively proposes a maximum wellhead surface pressure of 3000 psi, which is also the design limit of the injection compressor.

2.10. Appropriate geological data on the injection interval with confining beds clearly labeled,

References Cited in Sections 2.10.1 to 2.10.3

- Lambert, P.M., Mason, J.L., and Puchta, R.W. 1995. *Hydrology of the Sevier-Sigurd Ground-Water Basins and Other Ground-Water Basins, Central Sevier Valley, Utah*. State of Utah Department of Natural Resources Technical Publication No. 103. 193 p.
- Willis, G.C. 1986. *Geologic Map of the Salina Quadrangle, Sevier County, Utah*. Utah Geological and Mineral Survey Map 83. 20 p., 2 pl.
- Witkind, I.J., Weiss, M.P., and Brown, T.L. 1987. *Geologic Map of the Manti 30' x 60' Quadrangle, Carbon, Emery, Juab, Sanpete, and Sevier Counties, Utah*. U.S. Geological Survey Map I-1631. 3 pl.

2.10.1. Nearby Underground Sources of Drinking Water, including the geologic formation name,

Providence field lies within the Redmond-Gunnison groundwater basin in the Central Sevier Valley drainage area (Fig 1). The closest underground source of drinking water to the Providence Field is in confined and unconfined aquifers within the unconsolidated Quaternary basin fill sediments. These sediments of Quaternary (occasionally Tertiary) age are referred to as alluvium and fan deposits (Qal, QTcf, Qf, Qaf), basin fill, or Sevier Valley fill, and are generally confined to the Sevier River valley (Fig. 1, 2, Lambert et al, 1995).

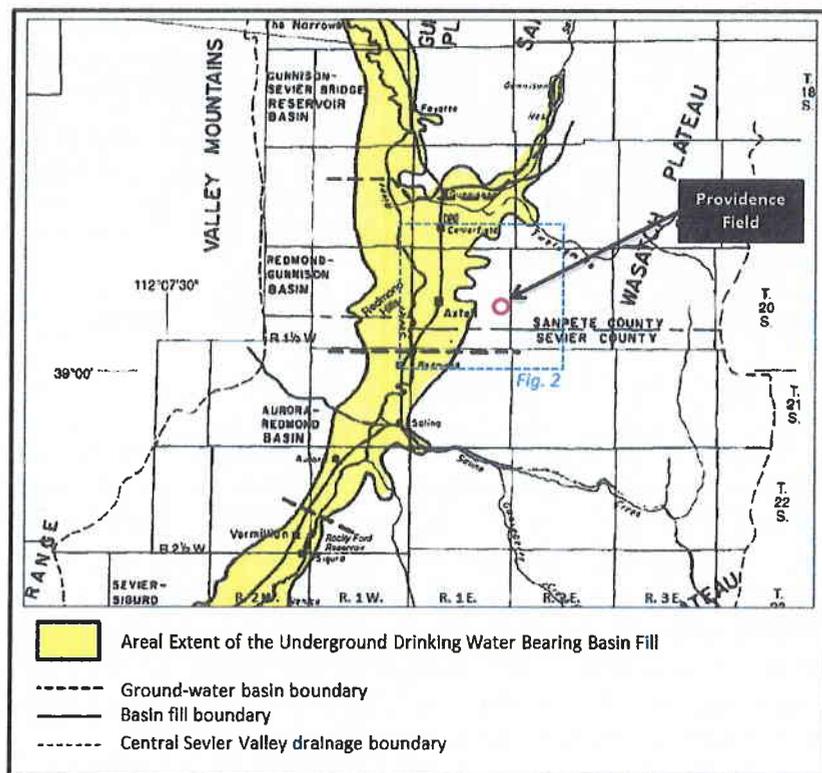


Figure 1: Location of the underground drinking water bearing basin fill relative to Providence Field. (modified from Lambert et al, 2005)

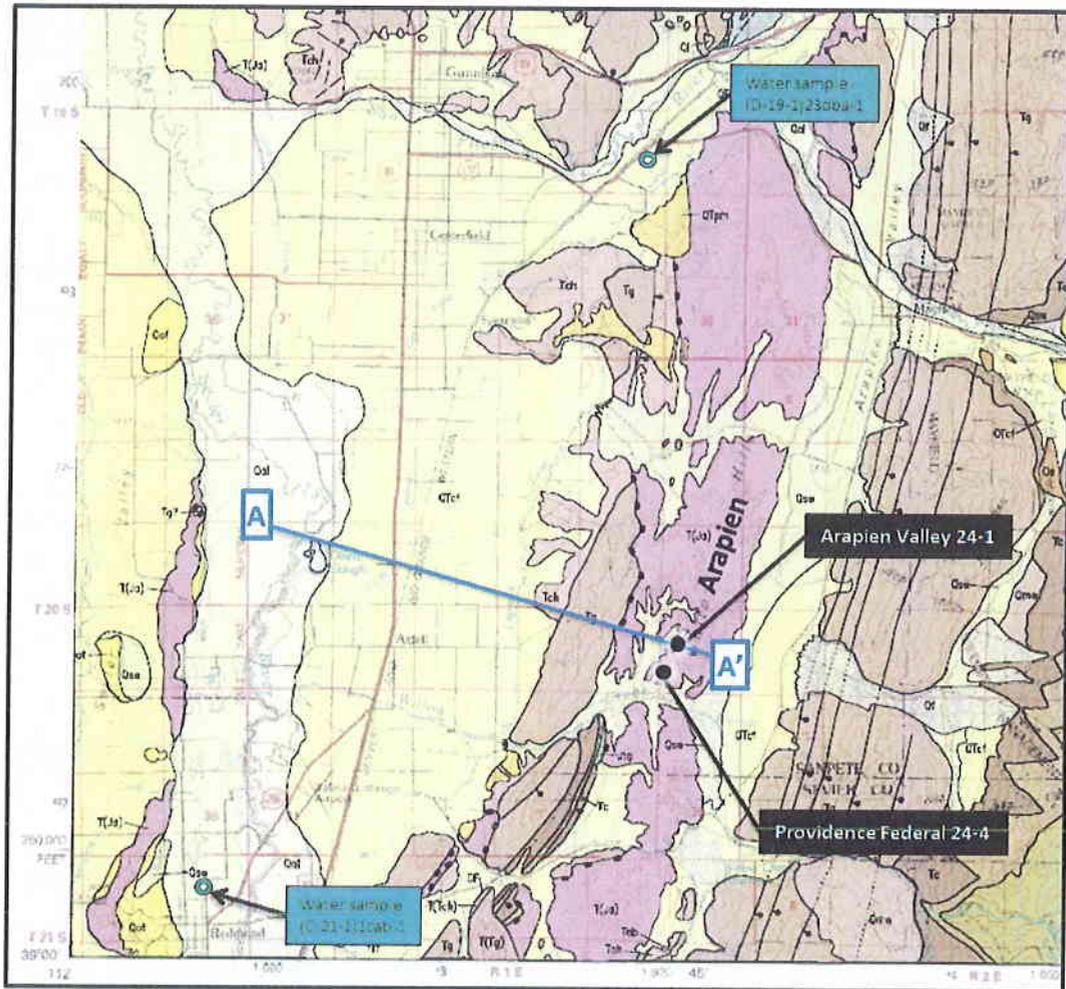


Figure 2: Geologic map of the area around Providence Field. Cross section A-A' is shown in Figure 3A-B. Water sample analyses are shown in Table 1. (modified from Witkind et al, 1987).

2.10.2. Lithologic descriptions, thicknesses, depths, water quality, and lateral extent;

The unconsolidated basin fill sediments are composed of interbedded layers of clay, silt, sand, and gravel. Generally, on the west margin of the Sevier River Valley the aquifer is unconfined due to lesser amounts of clay rich layers (Lambert et al, 1995). Groundwater aquifers become more confined towards the east margin of the valley where more clay rich layers are present (Lambert et al, 1995). Based on correlations by Lambert et al (1995), the aquifers exist from a range of depths of approximately 50' down to 700' depending on the thickness of the alluvium. Thickness of the alluvium ranges from approximately 300' to 700' (Lambert et al 1995). Water quality analyses from wells sampled near the Providence field are presented in Table 1.

	Location	Date measured	Specific conductance (µS/cm)	pH (standard units)	Temperature, water (°C)	Hardness, total (mg/L as CaCO ₃)	Hardness, noncarbonate (mg/L as CaCO ₃)	Alkalinity, field (mg/L as CaCO ₃)	Solids, dissolved (mg/L)
	North of Redmond (C-21-1) 1cab-1	06-30-89	1,900	7.4	13.5	330	0	367	1,190
	East of Gunnison (D-19-1) 23dba-1	06-13-89	2,480	7.2	15.5	590	270	322	1,500

Table 1: Chemical analysis for groundwater samples near Providence Field (from Lambert et al, 1995)

2.10.3. Information relative to geologic structure near the proposed well that may effect the conveyance and/or storage of the injected fluids.

As proposed, the Providence Federal 24-4 would inject into the Navajo 1 pool. The Navajo 1 pool is located within a fault-bend fold (Fig 3A). Top seal is provided by the overlying tight Twin Creek limestone and evaporate-rich Arapien formation.

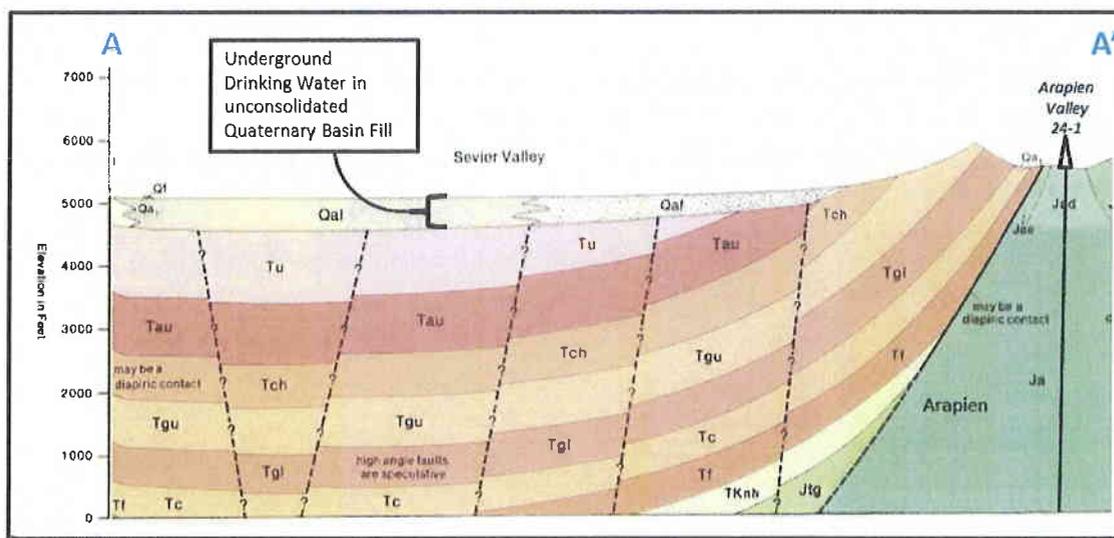


Figure 3A (Left): Cartoon cross section through Providence Field illustrating the fault-bend-fold structure, location of Navajo 1 pool, and the Twin Creek limestone and Arapien evaporate-rich shale that provide confining beds. (after cross section prepared by D. Schelling, 2010, not published)

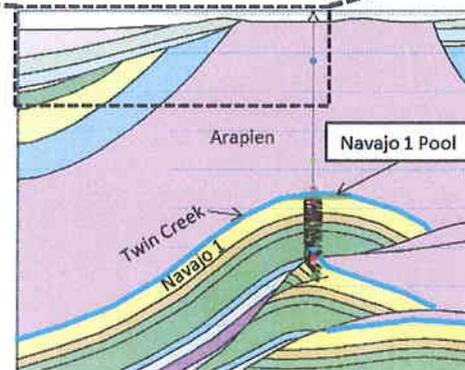


Figure 3B (Above): Cross section illustrating the shallow geology at Providence field and relationship to the ground-water bearing Quaternary basin fill in the Sevier River valley. (modified from Willis, 1986)

- 2.11. *A review of the mechanical condition of each well within a one-half mile radius of the proposed injection well to assure that no conduit exists that could enable fluids to migrate up or down the wellbore and enter improper intervals.*

The mechanical condition of the proposed PF #24-4 CO₂ injection well is addressed in responses to R649-5-2.3 & -2.5, above.

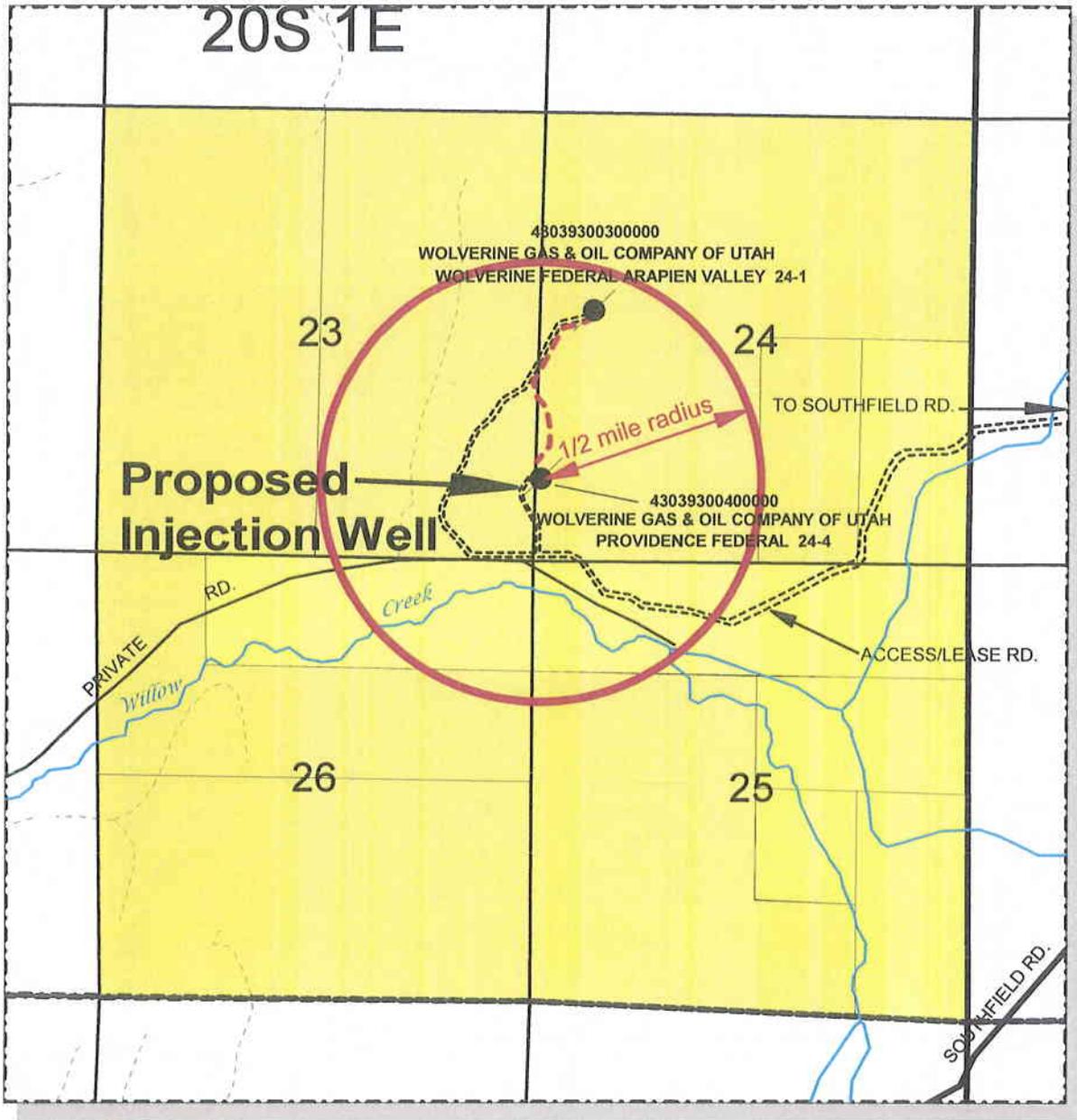
WFAV #24-1 is the only other well in the project area and will be the source of injection gas for the PF #24-4. WFAV #24-1 was drilled in 2008 and a copy of its wellbore diagram is included as Attachment #9 (with pages a and b). Like the PF #24-4, mechanical integrity at WFAV #24-1 will be safeguarded by three cemented casing strings inside of the well's conductor pipe. Surface casing is 13 $\frac{3}{8}$ " and fully cemented, from a depth of 2,017'. Intermediate casing is 9 $\frac{5}{8}$ ", and set at 10,373'. It was cemented with 2850 sx and saw partial cement returns to surface. Production casing is 5 $\frac{1}{2}$ " to a depth of 12,755' (PBSD is at 9235'), and has its TOC at 2990'. Copies of cement bond logs for the WFAV #24-1 were included with the Completion Report submitted 5/5/09 and, per R649-5-2.2.4, no additional logs are included with this filing.

- 2.12. *An affidavit certifying that a copy of the application has been provided to all operators, owners, and surface owners within a one-half mile radius of the proposed injection well.*

As noted previously (in response to R649-5-1.2.9), Wolverine Gas and Oil Co. of Utah, LLC is the only operator of record in the project area and both of the Surface owners (listed in response to R649-5-1.2.8) have been noticed and provided with a copy of the petition for injection (per the Attachment #3 Affidavit).

- 2.13. *Any other additional information that the board or division may determine is necessary to adequately review the application.*

ATTACHMENT #1



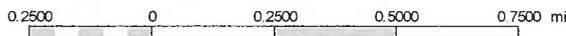
WGO LEASES

- ==== Access/Lease Rd.
- County Rd.
- Private Rd.
- Unimproved
- Proposed Pipeline

- FEE/PRIVATE
- BLM

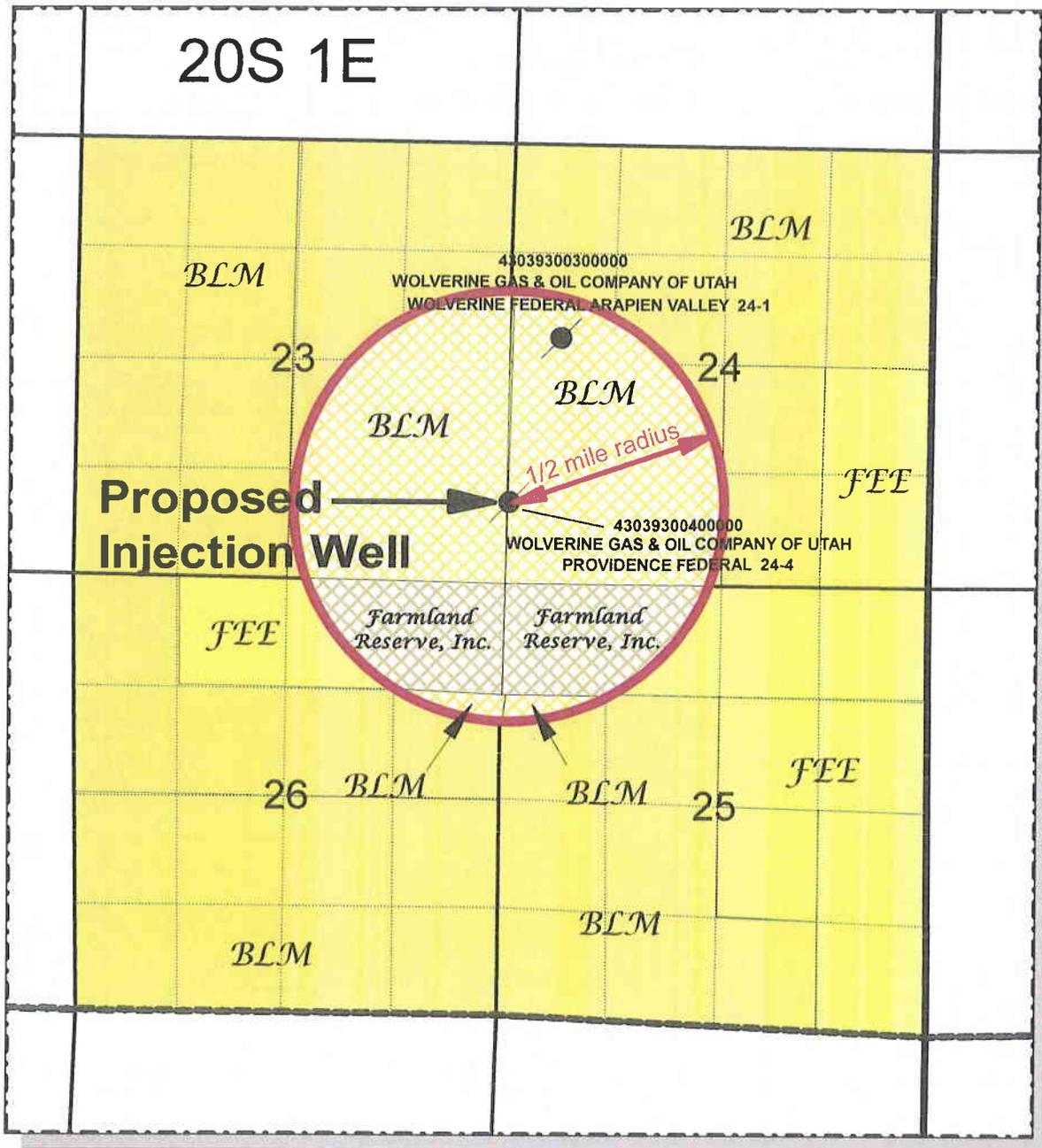
Well Status
 INA-OIL

1:24000



	<p>WOLVERINE GAS & OIL Company of Utah, LLC (Operator) <i>Energy Exploration in Partnership with the Environment</i> ONE RIVERFRONT PLAZA 55 CAMPANUS NW GRAND RAPIDS, MI 49503-2616 (616) 452-1150</p>
<p>ATTACHMENT #1 PROPOSED PROVIDENCE FEDERAL 24-4 CONVERSION TO INJECTION WELL</p> <p>SEC 24, T20S, R1E Sanpete Co., UT</p>	
<p>Date: 9/22/2013</p>	<p>Author: P:\Information Document in Providence Map 1 Inj Well App 062913.gwp</p>

ATTACHMENT #2



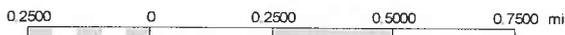
SURFACE OWNERSHIP

-  BLM
-  FARMLAND RESERVE, INC.

WGO LEASES

-  FEE
-  BLM

1:24000



	WOLVERINE GAS & OIL Company of Utah, LLC (Operator) <i>Energy Exploration in Partnership with the Environment</i> ONE RIVERFRONT PLAZA SE CAMPBELL NW GRAND RAPIDS, MI 49503-2616 (616) 455-1150
	ATTACHMENT #2 PROPOSED PROVIDENCE FEDERAL 24-4 CONVERSION TO INJECTION WELL SEC. 24, T20S, R1E Sanpete Co., UT
Date: 8/22/2013	Author: Filename: Document in Providence Map 2 Surface Owner Inj well App

ATTACHMENT #3

Affidavit

I certify that a copy of the petition to convert the Providence Federal #24-4 to a produced gas injection well has been sent by US Mail (certified mail) to all operators, owners and surface owners of record, located within one-half mile of the subject well. The well's location is described as the SW/SW/SW, Section 24, T20S-R1E, Sanpete County, Utah. Wolverine Gas and Oil Co. of Utah, LLC is the only recorded operator in the area and there are only two landowners on record:

Farmland Reserve, Inc.
139 E. South Temple, Suite 110
Salt Lake City, UT 84111-1175

Federal Government
Bureau of Land Management
Richfield Field Office
150 East 900 North
Richfield, UT 84701

By:  9/24/13
Ron Meredith

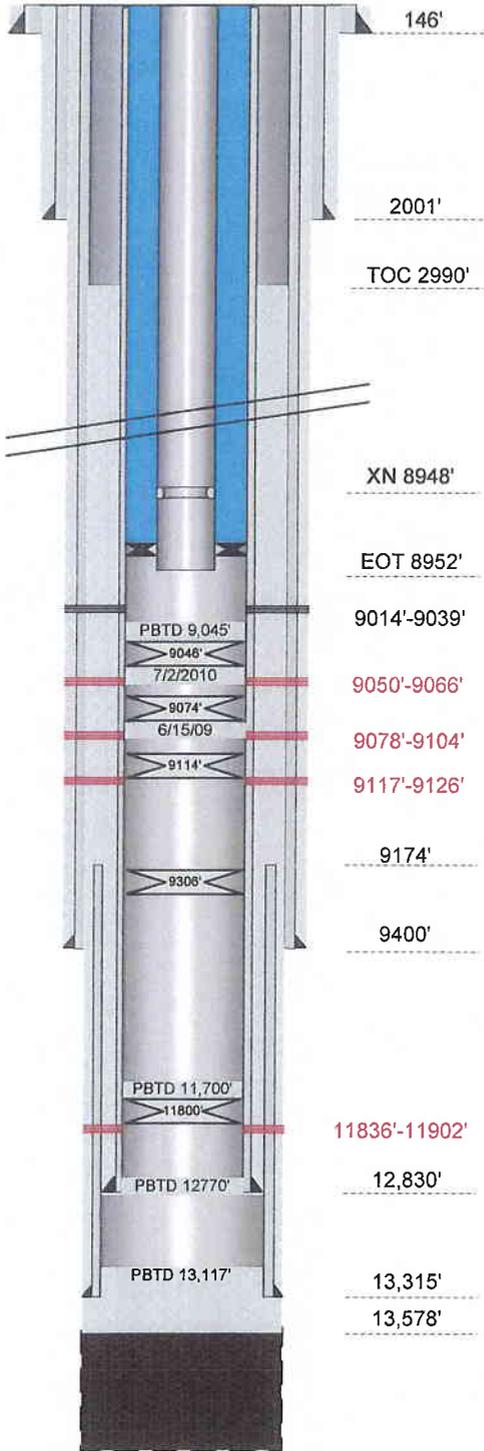
Title: Senior Production Engineer



ATTACHMENT #4 (a)

Providence Federal 24-4
 Providence Field
 API # 43-039-30040
 Section 24, T20S, R1E
 Sanpete County, Utah

Ground Elevation: 5491'
 KB Elevation: 5517'



TD = 14250' KB

(Not to Scale)

Vertical Well

Surface and BHL: 975' FSL 41' FWL, SW SW, 24-20S-1E

Conductor Casing (12/1/08)

Size: 24", 0.25" wall in 30" hole

Depth Landed: 146' KB

Cement Data: Cemented to surface with 11 yds redi-mix

Surface Casing (1/22/09)

Size/Wt/Grade: 13 3/8", 68#, K-55, BTC in 17-1/2" hole

Depth Landed: 2001' KB

Cement Data: 400 sks VeriCem (10.4 ppg, 4.33 cf/sk), 490 sks Class G (15.8 ppg, 1.16 cf/sk), Cemented to surface

Intermediate Casing (2/28/09)

Size/Wt/Grade: 9-5/8", 53.5#, T-95/Mav. HCL-110/L-80, LTC/SLX in 12-1/4" hole

Depth Landed: 9400' KB

Cement Data: Stg. 1 – 225 sks 50/50 Poz (14.35 ppg, 1.50 cf/sk)
 Stg. 2 lead – 600 sks Class G (11.5 ppg, 2.58 cf/sk)
 Stg. 2 tail – 965 sks Class G (15.80 ppg, 1.70 cf/sk)

Drilling Liner (4/12/09)

Size/Wt/Grade: 7-5/8", 33.7#, P-110, Vam FJL w/ 9.75' Tie-back
 Length: 4253'

Depth: 9174'-13,315' KB

Cement Data: 310 sks BondCem (14.5 ppg, 1.45 cf/sk)

Production Casing (5/09/09)

Size/Wt/Grade: 5-1/2", 20#, L-80, LTC, 8rd

Properties: 9190 psi burst, 4.653" drift, 4.778" ID, 0.0221 Bbl/ft Capacity

Depth Landed: 12,830' KB,

Cement Data: 465 sks 65:35 Poz-Premium (11.5 ppg, 3.30 cf/sk)

Navajo1 Perforations

9014' – 9039' MD/TVD, 25', 75 holes (7/06/10)

9050' – 9066' MD/TVD, 16', 48 holes (7/02/10) - squeezed

9078' – 9084' MD/TVD, 6', 18 holes (6/15/09) - squeezed

9092' – 9104' MD/TVD, 12', 36 holes (6/15/09) - squeezed

9117' – 9126' MD/TVD, 9', 27 holes (6/12/09) – below plugs

Mid-Perf = 9026.5' MD/TVD, 25' TV, 75 holes

Moenkopi Perforations

11,836' – 11,902' MD/TVD, 32', 96 holes (5/30/09)

Tubing (7/09/10)

2-7/8", 6.5#, L-80, EUE, 8rd to 8931' KB MD/TVD, 2.31" XN nipple @ 8937' KB, Arrowset 1X packer at 8945' KB.

PBTD

(7/02/10) 9046' – CIBC with 32 sacks cement squeezed below

(6/29/09) 9074' – CIBC with 25 sacks cement squeezed below

(6/15/09) 9114' – CIBC

(6/11/09) 9306' – CIBC

(6/10/09) 11,500' – CIBC @ 11,800' w/ 25 sacks on top

(5/7/09) 13,117' (Estimated) – Added 200' to first cement plug



ATTACHMENT #4 (b)

Providence Federal 24-4
Providence Field
API # 43-039-30040
Section 24, T20S, R1E
Sanpete County, Utah

Tubing Detail (7/9/2010)

	26.00	KB
	5.00	Tension on pkr
	-2.00	Landed above GL
283	8904.37	Tubing - 2-7/8", 6.5#, L-80, EUE, 8rd
1	6.04	Tubing sub - 2-7/8", 6.5#, N-80, EUE, 8rd Ni Coated
1	1.38	XN Profile Nipple 2.313 ID
1	6.04	Tubing sub - 2-7/8", 6.5#, N-80, EUE, 8rd Ni Coated
1	7.42	Packer - Weatherford, Arrowset 1-X, Ni Coated 5.5" x 2.5
<hr/>		
	8954.25'	EOT (8952.25' KB WLM w/ -2' wireline correction)

Note: Tubing capacity = 0.00579 Bbl/ft, Burst = 10570 psi, Joint Yield = 144960 lbs

Wellhead Information

- Tubing head flange is 7-1/16", 5k with a 2-7/8" EUE 8rd top connection.

Stimulation

- 7/7/2010, Pumped 2002 gallons of 15% FE Acid with balls.

Notes

Surface Location: Latitude = 39.05033878, Longitude = -111.75993789 (NAD 83)

(3/27/08): Available Logs: Schlumberger- HRLLA, FMI, CN/LDL, BCS, GR Correlation (in 9-5/8"), ISCE, Selman- mud log, CBL

ATTACHMENT #5



(Injection Gas Sample Analysis)

Applied Technology Services

1210 D Street, Rock Springs, WY 82901 (307) 352-7292

Meter Name: Federal 24-1
Field Name: COVENANT FIELD
Analyst: MCMILLAN

Meter Location #: W241
Cylinder Pressure: 0
Line Pressure: 40
Report Date: 08/25/2010 08:41
Sample Date(s): 08/25/2010 to 08/25/2010
Flowing Temp: 93

Gas Analysis by Chromatograph @14.73

NAME	MOLE%	BTU	SG	GPM
Nitrogen	6.2391	0.0000	0.0603	0.0000
Methane	6.2749	63.5231	0.0348	0.0000
CO2	82.2004	0.0000	1.2490	0.0000
Ethane	1.7453	30.9580	0.0181	0.4666
H2S	0.0000	0.0000	0.0000	0.0000
Propane	1.5431	38.9158	0.0235	0.4250
i-Butane	0.3437	11.2026	0.0069	0.1124
n-Butane	0.7982	26.0999	0.0160	0.2516
i-Pentane	0.2590	10.3863	0.0065	0.0947
n-Pentane	0.2716	10.9128	0.0068	0.0984
Hexanes	0.2006	9.5624	0.0060	0.0825
Heptanes	0.0964	5.3168	0.0033	0.0445
Octanes	0.0277	1.7350	0.0011	0.0142
Nonanes	0.0000	0.0000	0.0000	0.0000
Ideal Total	100.0000	208.6128	1.4323	1.5899

Gross BTU/Real Cu Ft. @ 60 deg F

Pressure Base =	14.73	14.65	15.025
Dry =	209.7401	208.5949	213.9638
Saturated =	207.0680	205.9223	211.2933
Actual BTU =	209.7401	208.5949	213.9638
Real S.G. =	1.439444	1.439402	1.439600
Compressibility =	0.994625	0.994654	0.994517

Gasoline Content

Pressure Base =	14.73
Propane GPM =	0.4250
Butane GPM =	0.3640
14# Gasoline GPM =	0.3545
26# Gasoline GPM =	0.5012
Total GPM =	1.5899

Sulfur Content

Mercaptans ppm = N/A
H2S ppm = N/A

Dewpoints

H2O #/mmcf = N/A
Hydrocarbon = N/A
@ psig = N/A

Comments

ATTACHMENT #6

(Native Oil Analysis)

QUESTAR APPLIED TECHNOLOGY

1210 D. Street, Rock Springs, Wyoming 82901
(307) 352-7292

LIMS ID:	N/A	Description:	Providence Fed. 24-4
Analysis Date/Time:	7/9/2009	Field:	Providence
Analyst Initials:	AST	ML#:	Wolverine
Sample Temperature:	60	GC Method:	Quesliq1.M
Sample Pressure:	50	Data File:	QPC07.D
Date Sampled:	6/30/2009	Instrument ID:	1

Component	Mol%	Wt%	LV%
Methane	0.0000	0.0000	0.0000
Ethane	0.0968	0.0250	0.0510
Propane	0.5753	0.2183	0.3117
Isobutane	1.9151	0.9576	1.2317
n-Butane	4.3560	2.1781	2.7000
Neopentane	0.0474	0.0294	0.0357
Isopentane	4.7233	2.9317	3.3990
n-Pentane	4.8073	2.9839	3.4231
2,2-Dimethylbutane	0.2673	0.1982	0.2194
2,3-Dimethylbutane	0.7971	0.5909	0.6421
2-Methylpentane	3.2020	2.3738	2.6122
3-Methylpentane	1.9850	1.4716	1.5923
n-Hexane	4.8751	3.6142	3.9403
Heptanes	17.2921	14.3964	14.3966
Octanes	12.5353	11.7606	11.5305
Nonanes	11.3074	11.5888	10.8883
Decanes plus	30.6986	44.4841	42.8504
Nitrogen	0.0000	0.0000	0.0000
Carbon Dioxide	0.5198	0.1968	0.1742
Total	100.0000	100.0000	100.0000

Global Properties	Units
Avg Molecular Weight	116.2439 gm/mole
Pseudocritical Pressure	401.02 psia
Pseudocritical Temperature	558.12 degF
Specific Gravity	0.72394 gm/ml
Liquid Density	6.0355 lb/gal
Liquid Density	253.49 lb/bbl
Specific Gravity	2.8849 air=1
SCF/bbl	828.97 SCF/bbl
SCF/gal	19.7373 SCF/gal

ATTACHMENT #7 (Native Water Analysis)



4619 N. Santa Fe, OKC, OK 73118 - (405) 488-2400 - (405) 488-2404 fax

Analytical Report

Report Date: 07/31/2009
Order #: 2009070049

Laboratory Certificate # 7211

Client: **David Wavrek**
Petroleum System International
461 E 200 South # 103
Salt Lake City, OK 84111

Project: Wolverine Gas and Oil, Inc.

Analytical Results

Client Sample ID: Providence Federal 24-4

ETI ID: 1

Sample Collected: 06/29/2009

Matrix: Aqueous

<u>Parameter</u>	<u>Result</u>	<u>Units</u>	<u>Analyzed On</u>	<u>Analyst</u>	<u>Method</u>
Aluminum	<1.00	mg/L	07/08/2009 05:08:13 PM	JS	200.7
Barium	0.903	mg/L	07/08/2009 05:08:13 PM	JS	200.7
Baron	12.7	mg/L	07/08/2009 05:08:13 PM	JS	200.7
Calcium	763	mg/L	07/09/2009 09:25:56 AM	JS	200.7
Chromium	0.054	mg/L	07/08/2009 05:08:13 PM	JS	200.7
Copper	0.256	mg/L	07/08/2009 05:08:13 PM	JS	200.7
Iron	90.1	mg/L	07/08/2009 05:08:13 PM	JS	200.7
Magnesium	102	mg/L	07/09/2009 09:25:56 AM	JS	200.7
Manganese	1.74	mg/L	07/08/2009 05:08:13 PM	JS	200.7
Nickel	0.010	mg/L	07/08/2009 05:08:13 PM	JS	200.7
Potassium	1760	mg/L	07/09/2009 09:25:56 AM	JS	200.7
Sodium	21400	mg/L	07/09/2009 09:24:15 AM	JS	200.7
Strontium	44.3	mg/L	07/28/2009 03:30:00 PM	*RR	200.7
Silica	62.6	mg/L	07/08/2009 05:08:13 PM	JS	200.7
Phosphate-P, Ortho	<0.10	mg/L	07/08/2009 02:10:00 PM	LH	4500-P E
Chloride	31100	mg/L	07/07/2009 05:01:33 PM	LH	300.0
Sulfate	1620	mg/L	07/09/2009 09:47:44 AM	LH	300.0
Total Dissolved Solids	80200	mg/L	07/08/2009 03:00:00 PM	LH	2540 C
Bicarbonate	2480	mg/L	07/08/2009 10:30:00 AM	LH	2320 B
Carbonate	0	mg/L	07/08/2009 10:30:00 AM	LH	2320B
Density	1.04	g/ml	07/30/2009 03:20:00 PM	LH	Hydrometer
Resistivity	0.0815	ohms-m	07/30/2009 03:20:00 PM	LH	2510 B
<small>Resistivity Measured At 22.3 Celsius.</small>					
pH	6.42	S.U.	07/08/2009 10:30:00 AM	LH	4500 H+ B

Respectfully Submitted:


Russell Britten
President

ATTACHMENT #8 Native (#24-4) Gas Analysis



Applied Technology Services

1210 D Street, Rock Springs, WY 82901 (307) 352-7292

Meter Name: Providence Federal 24-4
 Field Name: COVENANT FIELD
 Analyst: MCMILLAN

Meter Location #: W244 Report Date: 08/25/2010 09:03
 Cylinder Pressure: 0 Sample Dates(s): 08/25/2010 to 08/25/2010
 Line Pressure: 10 Flowing Temp: 71

Gas Analysis by Chromatograph @14.73

NAME	MOLE%	BTU	SG	GPM
Nitrogen	6.0608	0.0000	0.0586	0.0000
Methane	6.3346	64.1275	0.0351	0.0000
CO2	81.0730	0.0000	1.2319	0.0000
Ethane	1.8362	32.5704	0.0191	0.4909
H2S	0.0000	0.0000	0.0000	0.0000
Propane	1.6817	42.4111	0.0256	0.4632
i-Butane	0.4092	13.3376	0.0082	0.1339
n-Butane	1.0306	33.6990	0.0207	0.3248
i-Pentane	0.4291	17.2076	0.0107	0.1569
n-Pentane	0.4815	19.3465	0.0120	0.1745
Hexanes	0.3953	18.8436	0.0118	0.1625
Heptanes	0.1935	10.6722	0.0067	0.0893
Octanes	0.0745	4.6663	0.0029	0.0382
Nonanes	0.0000	0.0000	0.0000	0.0000
Ideal Total	100.0000	256.8818	1.4433	2.0341

Gross BTU/Real Cu Ft. @ 60 deg F
 Pressure Base = 14.73 14.65 15.025
 Dry = 258.3453 256.9343 263.5493
 Saturated = 254.8514 253.4398 260.0573
 Actual BTU = 258.3453 256.9343 263.5493
 Real S.G. = 1.450894 1.450849 1.451059
 Compressibility = 0.994335 0.994366 0.994221

Gasoline Content
 Pressure Base = 14.73
 Propane GPM = 0.4632
 Butane GPM = 0.4587
 14# Gasoline GPM = 0.6681
 26# Gasoline GPM = 0.9426
 Total GPM = 2.0341

Sulfur Content
 Mercaptans ppm = N/A
 H2S ppm = N/A

Dewpoints
 H2O #/mmcf = N/A
 Hydrocarbon = N/A
 @ psig = N/A

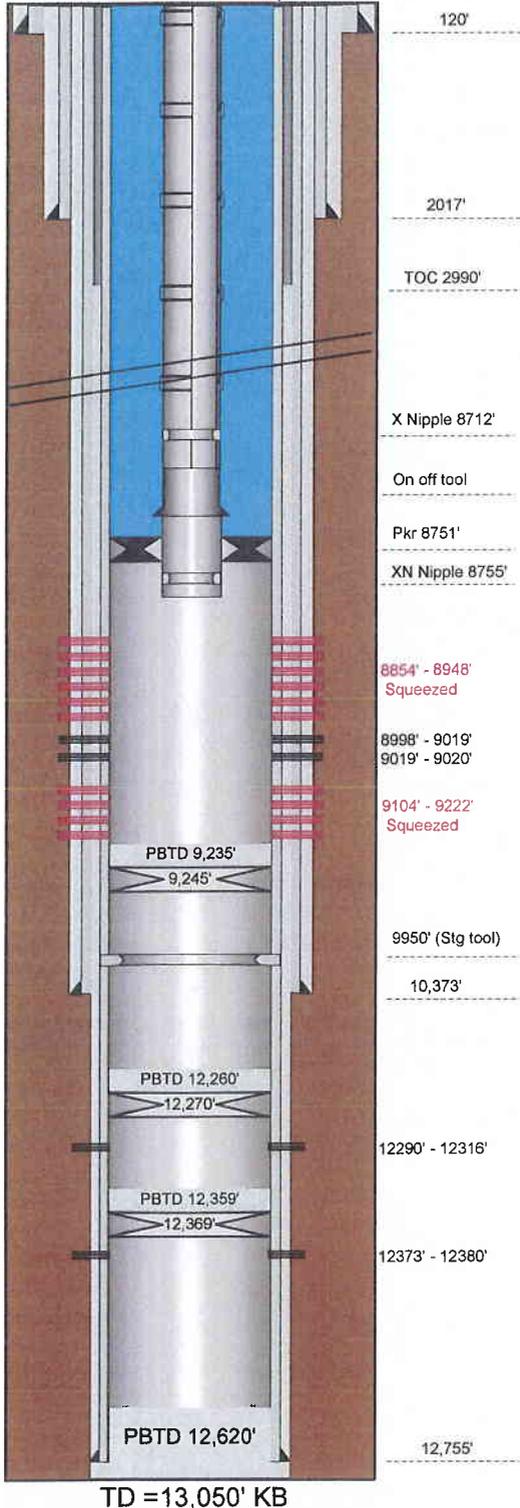
Comments

ATTACHMENT 9 (a)



Wolverine Federal Arapien Valley 24-1
Providence Field
API # 43-039-30030
Section 24, T20S, R1E
Sanpete County, Utah

Ground Elevation: 5,554'
 KB Elevation: 5,580'



(Not to Scale)

Vertical Well

Surface: 2331' FNL 549' FWL, SW NW, 24-20S-1E
 Total Depth (Estimated): 2383' FNL 617' FWL, SW NW, 24-20S-1E

Conductor Casing (10/3/07)

Size: 24", 0.25" wall in 32" hole
 Depth Landed: 120' KB
 Cement Data: Cemented to surface with 8 yds redi-mix

Surface Casing (11/14/07)

Size/Wt/Grade: 13 3/8", 68#, J-55, BTC, in 17.5" hole
 Depth Landed: 2017' KB
 Cement Data: 405 sks CBM Light (10.5 ppg, 4.14 cf/sk), 410 sks Type III (14.8 ppg, 1.33 cf/sk), Cemented to surface

Intermediate Casing (1/21/08)

Size/Wt/Grade: 9-5/8", 4737' of 53# HCP-110 and 5636' of 47# HCL-80, LTC, 8rd in 12.5" hole
 Depth Landed: 10,373' KB
 Cement Data: 2620 sks foamed Elastiseal (14.3 ppg, 1.48 cf/sk)
 630 sks non-foamed Elastiseal (14.3 ppg, 1.48 cf/sk)
 Note: N2 break-through and foamed cement to surface.

Production Casing (2/27/08)

Size/Wt/Grade: 5-1/2", 20#, P-110, LTC, 8rd
 Properties: 12,640 psi burst, 4.653" drift, 4.778" ID, 0.0221 Bbl/ft Capacity
 Depth Landed: 12,755' KB,
 Stage tool @ 9950' KB, Marker Joint @ 12,110' - 12,125.5'
 Cement Data: Stage 1 - 735 sks 50:50 Poz-Premium (12.5 ppg, 1.85 cf/sk)
 Stage 2 - 1635 sks Class G (15.5 ppg, 1.20 cf/sk)

Navajo1 Perforations

8998' - 9019' MD (8997' - 9018' TVD), 21'	126	holes	
9019' - 9020' MD (9018' - 9020' TVD), 1'	6	holes	
8854' - 8860' MD (8853' - 8859' TVD), 6'	18	holes	(squeezed)
8865' - 8871' MD (8864' - 8870' TVD), 6'	18	holes	(squeezed)
8881' - 8883' MD (8880' - 8882' TVD), 2'	6	holes	(squeezed)
8904' - 8914' MD (8903' - 8913' TVD), 10'	30	holes	(squeezed)
8920' - 8922' MD (8919' - 8921' TVD), 2'	6	holes	(squeezed)
8942' - 8948' MD (8941' - 8947' TVD), 6'	18	holes	(squeezed)
9104' - 9131' MD (9103' - 9130' TVD), 27'	162	holes	(squeezed)
9145' - 9154' MD (9144' - 9153' TVD), 9'	54	holes	(squeezed)
9160' - 9166' MD (9159' - 9165' TVD), 6'	36	holes	(squeezed)
9217' - 9222' MD (9216' - 9221' TVD), 5'	30	holes	(squeezed)

Navajo2 Perforations

12,290' - 12,316' MD (12,287' - 12,313' TVD), 26' 156 holes (below CIBP)
 12,373' - 12,380' MD (12,370' - 12,377' TVD), 7' 42 holes (below CIBP)

Tubing 9/18/2011

X-Nipple 8712' KB (2.313" ID)
 Arrowset 1X 8748' KB
 XN Nipple 8755' KB (2.313" ID)
 End of BHA 8759' KB

PBTD

(4/29/08) 12,359' - 2 sacks cement on CIBP @ 12,369'
 (4/12/08) 12,620' - CBL tag

ATTACHMENT 9 (b)



**Wolverine Federal Arapien Valley 24-1
 Providence Field
 API # 43-039-30030
 Section 24, T20S, R1E
 Sanpete County, Utah**

Tubing Detail (9/18/2011)

	26.00	KB
	-3	Landed above GL
	-3	Compression
266	8622.91	Tubing - 2-7/8", 6.5#, L-80, EUE, 8rd
	4.08	Tubing - 2-7/8", 6.5#, L-80, EUE, 8rd
2	65.25	Tubing - 2-7/8", 6.5#, L-80, EUE, 8rd
1	1.16	X Nipple - 2-7/8", EUE, 8rd, xxxx" ID (xxxx' MD-WLM)
1	32.38	Tubing - 2-7/8", 6.5#, L-80, EUE, 8rd
1	1.41	On/off tool
1	0.78	Seal nipple
1	6.88	Packer - Weatherford, Arrowset 1-X, 5.5" x 2.875, Ni coated (xxxx' MD-WLM)
1	1.25	XN Nipple - 2-7/8", EUE, 8rd, xxxx" ID (xxxx' MD-WLM)
1	2.15	Tubing - 2-7/8", 6.5#, L-80, EUE, 8rd
1	0.44	2 7/8" Re-entry collar
<hr/>		
	8758.69'	KB WLM

Note: Tubing capacity = 0.00579 Bbl/ft, Burst = 10570 psi, Joint Yield = 144960 lbs

MD	TVD	Incl	MD	TVD	Incl
2000	2000	<1	10000	999	.1
4000	4000	<1	11000	10999	.7
6000	6000	<1	11250	11249	3.0
8000	8000	<1	11500	11498	1.1
8086	Sidetrack tie-in		11750	11748	4.1
8250	8249	6.0	12000	11997	5.9
8500	8499	2.6	12250	12247	.7
8750	8749	.2	12500	12497	.5
9000	8999	1.0			

Stimulation

6/23/08 - Perforation breakdowns using ball sealers and 4% KCl were performed on initial Navajo 1 completions.

1/13/09 - Fracture stimulated Navajo 2 (12,290' - 12,316')

7/26/10 - Fracture stimulated Navajo 1 (8998' - 9020')

Notes

Surface Location: Latitude = 39.05594222, Longitude = -111.75812931 (NAD 83)

(2/27/08) Design top of Cement behind 5-1/2" casing @ 4000'

(3/27/08): Available Logs: Schlumberger- HRLLA, FMI, CN/LDL, BCS, GR Correlation (in9-5/8"), ISCE Selman- mud log



WOLVERINE GAS AND OIL COMPANY

OF UTAH, LLC

Energy Exploration in Partnership with the Environment

September 24, 2013

Bureau of Land Management
Richfield Field Office
Attn: Mr. Wayne Wetzel
150 East 900 North
Richfield, UT 84701

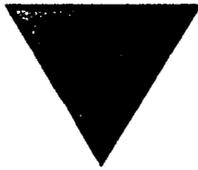
**Re: Copy of the Wolverine Gas and Oil Company of Utah, LLC
Petition to Convert Providence Federal #24-4 to a Produced Gas Injection Well**

Dear Mr. Wetzel:

Please find enclosed a copy of a revised petition to convert this well to a produced gas injection well. Because the federal government owns much of the land near the Providence Federal #24-4 well, Wolverine Gas and Oil Company of Utah, LLC is providing a copy of this filing to the BLM. Please note that no changes have been made to the originally planned scope of work and the only changes in this revised petition were made for purposes of descriptive clarity.

Sincerely,

Ron Meredith
Senior Production Engineer
Wolverine Gas and Oil Corporation



WOLVERINE GAS AND OIL COMPANY

OF UTAH, LLC

Energy Exploration in Partnership with the Environment

September 24, 2013

Farmland Reserve, Inc.
139 E. South Temple, Suite 110
Salt Lake City, UT 84111-1175

**Re: Copy of the Wolverine Gas and Oil Company of Utah, LLC
Petition to Convert Providence Federal #24-4 to a Produced Gas Injection Well**

Farmland Reserve, Inc. Administrators:

As a landowner near the Providence Federal #24-4 well, please find enclosed a copy of the revised petition to convert this well to a produced gas injection well. Again, this notice is provided by the well's operator, Wolverine Gas and Oil Company of Utah, LLC in order to comply with Utah Division of Oil, Gas and Mining (UDOGM) regulations. Please note that no has been no change to the originally planned scope of work and the only changes in this revised petition were made for purposes of descriptive clarity.

Sincerely,

Ron Meredith
Senior Production Engineer
Wolverine Gas and Oil Corporation

CONDITIONS OF APPROVAL

Company: Wolverine Operating Company of Utah, LLC
Well No: Providence Federal 24-4
Location: SWSW Sec 24, T20S, R1E SLB&M
Sanpete County, Utah
Lease No: UTU-80907

Condition of Approval attached to Sundry #14SLA00425 approved November 20, 2013.

1. Wolverine shall submit a Subsequent Sundry to this office within 30 days of well conversion.

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT
OFFICE OF OIL, GAS & MINING

RECEIVED
NOV 05 2014

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

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

SUBMIT IN TRIPLICATE- Other instructions on reverse side.

<p>1. Type of Well <input checked="" type="checkbox"/> Oil Well <input type="checkbox"/> Gas Well <input type="checkbox"/> Other</p> <p>2. Name of Operator Wolverine Gas and Oil Company of Utah, LLC</p> <p>3a. Address 55 Campau NW, Grand Rapids, Michigan 49503-2616</p> <p>3b. Phone No. (include area code) 616-458-1150</p> <p>4. Location of Well (Footage, Sec., T., R., M., or Survey Description) 975' FSL, 41' FWL, Sec. 24, T20S, R1E, SLB&M</p>	<p>5. Lease Serial No. UTU-80907</p> <p>6. If Indian, Allottee or Tribe Name NA</p> <p>7. If Unit or CA/Agreement, Name and/or No. Wolverine Unit</p> <p>8. Well Name and No. Providence Federal 24-4</p> <p>9. API Well No. 43-039-30040</p> <p>10. Field and Pool, or Exploratory Area Providence</p> <p>11. County or Parish, State Sanpete County, Utah</p>
---	--

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

TYPE OF SUBMISSION	TYPE OF ACTION			
<input type="checkbox"/> Notice of Intent	<input type="checkbox"/> Acidize	<input checked="" 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 checked="" 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 checked="" type="checkbox"/> Recomplete	<input type="checkbox"/> Other _____
	<input type="checkbox"/> Change Plans	<input type="checkbox"/> Plug and Abandon	<input type="checkbox"/> Temporarily Abandon	
	<input checked="" type="checkbox"/> Convert to Injection	<input type="checkbox"/> Plug Back	<input type="checkbox"/> Water Disposal	

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

Wolverine Gas and Oil Company of Utah, LLC completed a workover on the Providence Federal 24-4 on October 7, 2014. Two cement retainers (at 9046' and 9074') and old squeeze cement were drilled out and the well's new PBSD is 9114' (a CIBP set on 6/15/09). New perms were added as follows: 9060'-9062', 9064'-9066', 9081'-9084', 9091'-9093', and 9099'-9104' (14' total new perms, @ 6 SPF). The new perms were acidized and fracture stimulated together with existing perforations (9014'-9039'), so that the overall treatment interval was from 9014'-9104'. Pumped volumes included 1500 gals of acid, 75,978 gals of slickwater and cross-linked gel, and 56,000 lbs of Frac Sand. The average pump rate during the Frac was 30 BPM. Approximately 285 bbls of fluid was flowed back before coiled tubing was used to clean out frac sand (unable to determine the sand top in casing with C.T.) to an old, existing CIBP at 9114' (PBSD).

Subsequently, a packer was (wireline) set at 8903'. Inhibited fluid was placed in the tubing x casing annulus before stinging into the packer, blowing the pump-out plug, and rigging down. The well was successfully MIT'd on 10/17/14.

(Refer to the attached WBD and Daily Reports for more details about the workover, and additional fracture stimulation details were provided through the FracFocus system, filed 10/24/14.)

RECEIVED

OCT 31 2014

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

Name (Printed/Typed) Ron Meredith	Title Sr. Production Engineer Richfield BLM Field Office
Signature 	Date 10/27/2014

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

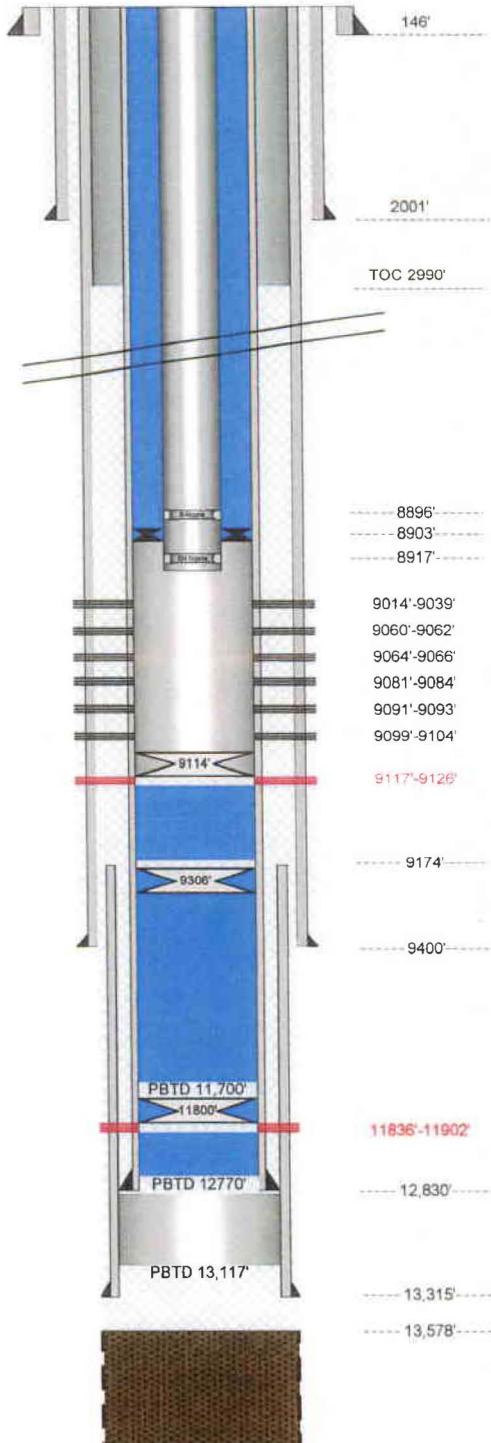
Approved by 	Supervisory NRS Date 11/3/2014
Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.	
Office Richfield Field 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.



**Providence Federal 24-4
Providence Field
API # 43-039-30040
Section 24, T20S, R1E
Sanpete County, Utah**

Ground Elevation: 5491'
KB Elevation: 5517'



TD = 14250' KB

(Not to Scale)

Vertical Well

Surface and BHL: 975' FSL 41' FWL, SW SW, 24-20S-1E

Conductor Casing (12/1/08)

Size: 24", 0.25" wall in 30" hole

Depth Landed: 146' KB

Cement Data: Cemented to surface with 11 yds redi-mix

Surface Casing (1/22/09)

Size/Wt/Grade: 13 3/8", 68#, K-55, BTC in 17-1/2" hole

Depth Landed: 2001' KB

Cement Data: 400 sks VeriCem (10.4 ppg, 4.33 cf/sk), 490 sks Class G (15.8 ppg, 1.16 cf/sk), Cemented to surface

Intermediate Casing (2/28/09)

Size/Wt/Grade: 9-5/8", 53.5#, T-95/Mav. HCL-110/L-80, LTC/SLX in 12-1/4" hole

Depth Landed: 9400' KB

Cement Data: Stg. 1 – 225 sks 50/50 Poz (14.35 ppg, 1.50 cf/sk)
Stg. 2 lead – 600 sks Class G (11.5 ppg, 2.58 cf/sk)
Stg. 2 tail – 965 sks Class G (15.80 ppg, 1.70 cf/sk)

Drilling Liner (4/12/09)

Size/Wt/Grade: 7-5/8", 33.7#, P-110, Vam FJL w/ 9.75' Tie-back

Length: 4253'

Depth: 9174'-13,315' KB

Cement Data: 310 sks BondCem (14.5 ppg, 1.45 cf/sk)

Production Casing (5/09/09)

Size/Wt/Grade: 5-1/2", 20#, L-80, LTC, 8rd

Properties: 9190 psi burst, 4.653" drift, 4.778" ID, 0.0221 Bbl/ft Capacity

Depth Landed: 12,830' KB,

Cement Data: 465 sks 65:35 Poz-Premium (11.5 ppg, 3.30 cf/sk)

Navajo1 Perforations

9014' - 9039' MD/TVD, 25', 75 holes (7/06/10)

9060' - 9062' MD/TVD, 02', 12 holes (9/24/14)

9064' - 9066' MD/TVD, 02', 12 holes (9/24/14)

9081' - 9084' MD/TVD, 03', 18 holes (9/24/14)

9091' - 9093' MD/TVD, 02', 12 holes (9/24/14)

9099' - 9104' MD/TVD, 05', 30 holes (9/24/14)

9117' - 9126' MD/TVD, 9', 27 holes (6/12/09) – below plugs

Mid-Perf = 9059' MD/TVD, 39' TV, 159 holes

Moenkopi Perforations

11,836' - 11,902' MD/TVD, 32', 96 holes (5/30/09)

Tubing (10/06/2014)

X-Profile Nipple 8896' WLM (8896' TVD)

On/Off Skirt 8903' WLM (8903' TVD)

Arrowset Packer 8908' WLM (8908' TVD)

XN-Profile Nipple 8916' WLM (8916' TVD)

EOT 8917' WLM (8917' TVD)



Providence Field
Federal 24-4
API# 43-039-30040

Section 24, T20S, R1E
Sanpete County, Utah

- 9/16/2014 Move in and spot frac tanks
- 9/17/2014 Move in and spot flow back tank. Started hauling KCL and fresh water for well frac.
- 9/18/2014 MIRUSU, hauled the BOP equipment, flow back piping, generator, filter trailer and rig baskets to location. Hooked up the flow back piping from the well to the flow back tank. Hooked up the generator and filter trailer to the frac tanks to filter the frac water.
- 9/19/2014 Opened well (Tbg - 980 psi, Csg - 980). Rigged up pump lines and circulated 185 bbls of Completion Fluid (CF) down tubing with returns up casing to kill the well. ND pump lines. ND wellhead. NU BOP's. Pulled out of the hole with 149 joints of tubing and found a parted tubing pin. Run in the hole with kill string and shut well in for the night.
- 9/20/2014 Opened well (590 psi). Blew well down and circulated 50 bbls of CF to kill the well. Pulled out of the hole with kill string. Picked up 4½" overshot, sub, and 150 joints of tubing and TIH. Latched onto fish, released packer, and pulled out of hole with tubing and packer. Picked up and tripped in the hole with 4½" rock bit, bit sub, 3½ drill collars, sub and 220 joints of 2⅞" tubing. SWIFN.
- 9/21/2014 Opened well (Tbg - 200 psi, Csg - 160 psi). Blew well down and finished tripping in hole. Tagged cement top at 9045'. Rigged up power swivel and drilled out cement retainer at 9046' and squeeze cement from 9050'-9066'. Rigged down power swivel and pulled out of the hole with bit to 8900'. SWIFN.
- 9/22/2014 Opened well (Tbg & Csg both 0 psi). Tripped in hole and drilled out cement retainer at 9074'. Circulated bottoms up and tripped out of the hole for a bit change. Found one of the cones missing from the bit. Tripped in the hole with drill collars and 2 stands. SWIFN.
- 9/23/2014 Opened well (Tbg & Csg both 0 psi). Rigged up Braided Line unit with 1-11/16" magnet. Made 3 runs and recovered broken bit cone and several pieces of the CICR. Rigged down and released the Braided Line unit. Tripped in the hole with new 4½" rock bit and finished drilling out the cement retainer at 9074', as well as cement squeeze from 9078' - 9104'. Circulated bottoms up and TOH with 140 joints. SWIFN. Note: The new PBSD is 9104' (previously existing CIBP).
- 9/24/2014 Opened well (Tbg & Csg both 0 psi). Finished TOH laying down drill collars. Picked up 5½" casing scraper and TIH to PBSD. Rigged up pump lines and reverse circulated 75 bbls of CF. Rigged down pump lines and pulled out of the hole laying down the casing scraper. Rigged up wireline unit and perforated 9,060'-9,062', 9,064'-9,066', 9,081'-9,084', 9,091'-9,093' and 9,099'-9,104' (6 SPF 60° Phasing). RD and released wireline unit. SWIFN.
- 9/25/2014 Opened well (Tbg & Csg both 0 psi). Picked up and TIH with 1 joint, XN Nipple, 1 joint, 5½" HD packer, X Nipple, and 287 joints to surface. Rigged up Halliburton acid equipment and spotted 750 gallons of acid across the new perforations (9060'-9104'). Set packer and displaced acid with 35.7 bbls CF. Note: Pumped at 0.6 bpm and 2100 psi. Had communication behind casing to old perms at 9014'-9039'. Re-set packer at 8985', with EOT at 9048', opened bypass on the packer and spotted 750 gals acid. Closed packer by-pass and pumped 34 bbls CF. Note: Pump pressure was 0.4 bpm @ 1620 psi. Rigged down and released Halliburton acid equipment. Released packer and pulled out of the hole laying down 150 joints. SWIFN.
- 9/26/2014 Opened well (Tbg & Csg both 0 psi). Finished pulling out of the hole, laying down tubing and packer. Rigged up wellhead isolation equipment with 3-1/16", 3-way frac head. SWIFN.

9/27/2014

Spot frac equipment on location.

9/28/2014

Rigged up Halliburton equipment. Performed QC tests for chemical injection pumps. Pressure tested lines, then opened well and loaded hole (± 23 bbls). Verified seals on WIT, and pumped 9000 gals 40# linear gel. Stepped rate up at ± 5 BPM increments to gauge pressure increases (finished at 30 BPM and ± 3625 psi WHP). S/D to wait on frac sand. Off-loaded add 'l sand and started frac. Pumped Frac as outlined below, then flushed w/ 198 bbls CF.

Fluid Treatment Volume - 1789 bbls

Sand Volume Pumped - 56,000#

Average Pump Rate - 30 BPM

Max. Pump Rate - 32.2 BPM

Avg. WHP - 3905 psi

Max WHP - 4674 psi

Sand Concentrations - 1/2 to 3.8 ppg.

ISIP - 1920 psi

WHP fell to 0 psi, no flowback.

9/29/2014

Halliburton moved equipment off location. Rig crew on standby, waiting for a coil tubing unit.

9/30/2014

Shut down waiting on Coil Tubing Unit.

10/1/2014

Shut down waiting on Coil Tubing Unit.

10/2/2014

Shut down waiting on Coil Tubing Unit.

10/3/2014

WHP - 380 psi. Flowed back 87 bbls water, with skim of oil. SWIFN, waiting on Coil Tubing Unit.

10/4/2014

WHP - 620 psi. Flowed back 195 bbls of water, with skim of oil, while waiting on Coil Tubing Unit. Rigged up Coil Unit and cleaned out sand frac sand to PBDT at 9114'. Rigged down and released Coil unit.

Note: There was not a definitive sand top found during the clean out.

10/5/2014

Opened well with 1,020 psi WHP. Rigged up wireline unit and set a nickel-coated Arrowset 1X packer with a pump-out plug at 8903'. Rigged down and released wireline unit. Hooked up pump lines and filled the casing with CF. SWIFN.

Note: The Arrowset 1X packer, 6' sub and XN nipple are nickel coated.

XN Nipple ID is 1.875", with a 1.791" No-Go.

10/6/2014

Opened well, with 700 psi WHP. Blew well down and tripped in hole with Ni-coated On/Off Skirt, 6' sub, Ni-coated X-Nipple, 274 Jts 2 $\frac{7}{8}$ " L-80 (GRE-fiberglass lined) tubing, 4' x 2 $\frac{7}{8}$ " L-80 (GRE) Sub, 6' x 2 $\frac{7}{8}$ " L-80 (GRE) Sub, 8' x 2 $\frac{7}{8}$ " L-80 (GRE) Sub, 10' x 2 $\frac{7}{8}$ " L-80 (GRE) Sub and 1 Jt 2 $\frac{7}{8}$ " L-80 (GRE) tubing. Rigged up pump lines and circ'd 180 bbls of inhibited packer fluid. Rigged down pump lines, ND BOP, NU Wellhead. SWIFN.

10/7/2014

Rigged up pump lines. Pressure tested annulus to 2100 psi - OK. Rigged up pump line to the tubing and pumped the pump-out plug from the end of the tubing. RDMOSU.

10/8-9/2014

Hauled water and rig equipment off location

Supervisor:

Tony E. Cook

Rig Operator:



GARY R. HERBERT
Governor

SPENCER J. COX
Lieutenant Governor

State of Utah

DEPARTMENT OF NATURAL RESOURCES

MICHAEL R. STYLER
Executive Director

Division of Oil, Gas and Mining

JOHN R. BAZA
Division Director

UNDERGROUND INJECTION CONTROL PERMIT Cause No. UIC-417.1

Operator: Wolverine Gas & Oil Company
Well: Providence Federal #24-4
Location: Section 24, Township 20 South, Range 1 East, SLM
County: Sanpete
API No.: 43-039-30040
Well Type: Enhanced Recovery Well

Stipulations of Permit Approval

1. Approval for conversion to Injection Well issued on December 4, 2013.
2. Maximum Allowable Injection Pressure: 3,000 psig
3. Maximum Allowable Injection Rate: (restricted by pressure limitation)
4. Injection Interval: Navajo Sandstone (8,990' – 9,139')
5. A Monthly Injection Report shall be filed as required by R649-8-20.

Approved by:


John Rogers
Associate Director

Date

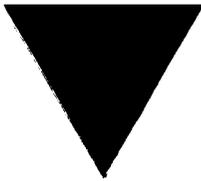
2/3/2015

JR/AM/js

cc: Bruce Suchomel, Environmental Protection Agency
Sevier County
BLM
Well File

N:\O&G Permits\Injection Permits\Wolverine Gas & Oil Co.





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

Energy Exploration in Partnership with the Environment

October 27, 2014

Mr. Stan Anderson
Fluid Minerals Group, BLM
Richfield Field Office
150 East 900 North
Richfield, UT 84701

RECEIVED
OCT 30 2014
DIV. OF OIL, GAS & MINING

Mr. Brad Hill
Utah Division of Oil, Gas & Mining
1594 West North Temple, Suite 1210
Salt Lake City, UT 84116

**Re: Subsequent Report Sundry Notice for Providence Federal 24-4
(API No. 43-039-30040 Providence Field, Sanpete County, Utah)**

Gentlemen:

Enclosed is a required Sundry Notice for recently completed well work at the Providence Federal 24-4, along with appropriate additional copies. This well is operated by Wolverine Gas & Oil Company of Utah, LLC and was recently reworked and converted to an injection well in accordance with the Utah Board of Oil, Gas and Mining Order dated 12/31/13 (Docket No. 2013-037, Cause No. 269-02). Following the workover, a successful MIT was conducted on October 17, 2014. Wolverine therefore hopes to commence production operations at Providence, which will include beginning gas injection at PF 24-4, in mid- to late-November of this year.

If you have questions or concerns about the PF 24-4 workover or this filing, please don't hesitate to contact me. I can be reached at my office on weekdays, from 8:00 AM to 4:30 PM (EST) at 616-929-1932.

Sincerely,

Ron Meredith,
Sr. Production Engineer
Wolverine Gas & Oil Corporation

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

RECEIVED

OCT 30 2014

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

SUNDRY NOTICES AND REPORTS ON OIL, GAS & MINING
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, Michigan 49503-2616

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

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)
975' FSL, 41' FWL, Sec. 24, T20S, R1E, SLB&M

5. Lease Serial No.

UTU-80907

6. If Indian, Allottee or Tribe Name

NA

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

Wolverine Unit

8. Well Name and No.

Providence Federal 24-4

9. API Well No.

43-039-30040

10. Field and Pool, or Exploratory Area

Providence

11. County or Parish, State

Sanpete County, Utah

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

TYPE OF SUBMISSION	TYPE OF ACTION			
<input type="checkbox"/> Notice of Intent	<input type="checkbox"/> Acidize	<input checked="" 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 checked="" 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 checked="" type="checkbox"/> Recomplete	<input type="checkbox"/> Other _____
	<input type="checkbox"/> Change Plans	<input type="checkbox"/> Plug and Abandon	<input type="checkbox"/> Temporarily Abandon	
	<input checked="" type="checkbox"/> Convert to Injection	<input type="checkbox"/> Plug Back	<input type="checkbox"/> Water Disposal	

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

Wolverine Gas and Oil Company of Utah, LLC completed a workover on the Providence Federal 24-4 on October 7, 2014. Two cement retainers (at 9046' and 9074') and old squeeze cement were drilled out and the well's new PBD is 9114' (a CIBP set on 6/15/09). New perfs were added as follows: 9060'-9062', 9064'-9066', 9081'-9084', 9091'-9093', and 9099'-9104' (14' total new perfs, @ 6 SPF). The new perfs were acidized and fracture stimulated together with existing perforations (9014'-9039'), so that the overall treatment interval was from 9014'-9104'. Pumped volumes included 1500 gals of acid, 75,978 gals of slickwater and cross-linked gel, and 56,000 lbs of Frac Sand. The average pump rate during the Frac was 30 BPM. Approximately 285 bbls of fluid was flowed back before coiled tubing was used to clean out frac sand (unable to determine the sand top in casing with C.T.) to an old, existing CIBP at 9114' (PBD).

Subsequently, a packer was (wireline) set at 8903'. Inhibited fluid was placed in the tubing x casing annulus before stinging into the packer, blowing the pump-out plug, and rigging down. The well was successfully MIT'd on 10/17/14.

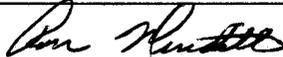
(Refer to the attached WBD and Daily Reports for more details about the workover, and additional fracture stimulation details were provided through the FracFocus system, filed 10/24/14.)

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

Ron Meredith

Title **Sr. Production Engineer**

Signature



Date

10/27/2014

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved by _____

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

Title

Date

Office

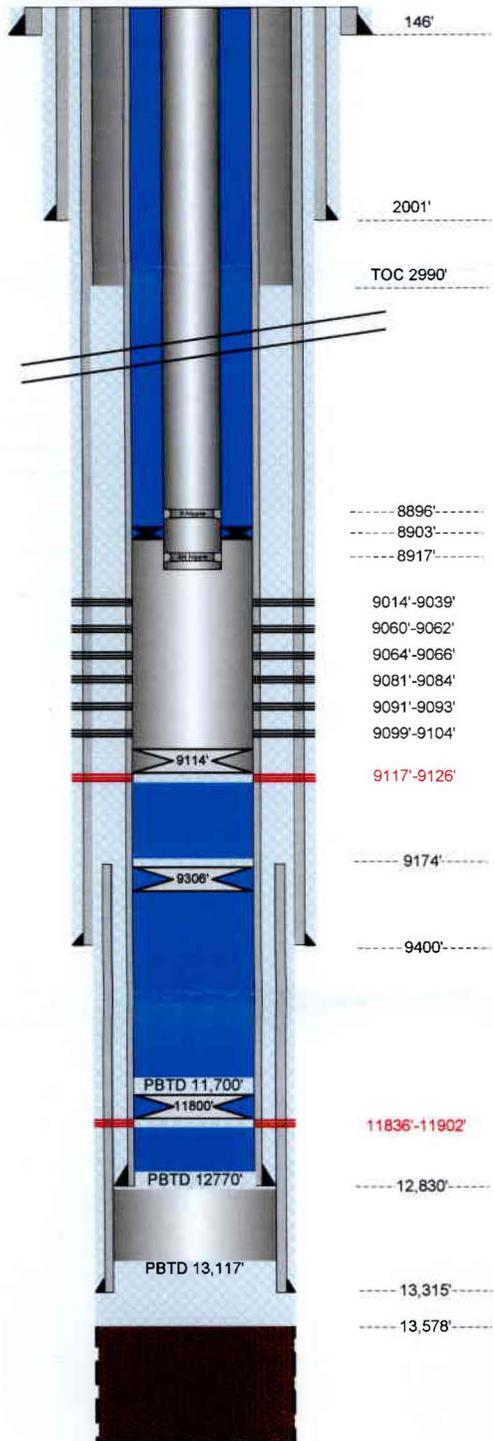
Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

(Instructions on page 2)



**Providence Federal 24-4
Providence Field
API # 43-039-30040
Section 24, T20S, R1E
Sanpete County, Utah**

Ground Elevation: 5491'
KB Elevation: 5517'



TD = 14250' KB

(Not to Scale)

Vertical Well

Surface and BHL: 975' FSL 41' FWL, SW SW, 24-20S-1E

Conductor Casing (12/1/08)

Size: 24", 0.25" wall in 30" hole

Depth Landed: 146' KB

Cement Data: Cemented to surface with 11 yds redi-mix

Surface Casing (1/22/09)

Size/Wt/Grade: 13 3/8", 68#, K-55, BTC in 17-1/2" hole

Depth Landed: 2001' KB

Cement Data: 400 sks VeriCem (10.4 ppg, 4.33 cf/sk), 490 sks Class G (15.8 ppg, 1.16 cf/sk), Cemented to surface

Intermediate Casing (2/28/09)

Size/Wt/Grade: 9-5/8", 53.5#, T-95/Mav. HCL-110/L-80, LTC/SLX in 12-1/4" hole

Depth Landed: 9400' KB

Cement Data: Stg. 1 – 225 sks 50/50 Poz (14.35 ppg, 1.50 cf/sk)
Stg. 2 lead – 600 sks Class G (11.5 ppg, 2.58 cf/sk)
Stg. 2 tail – 965 sks Class G (15.80 ppg, 1.70 cf/sk)

Drilling Liner (4/12/09)

Size/Wt/Grade: 7-5/8", 33.7#, P-110, Vam FJL w/ 9.75' Tie-back

Length: 4253'

Depth: 9174'-13,315' KB

Cement Data: 310 sks BondCem (14.5 ppg, 1.45 cf/sk)

Production Casing (5/09/09)

Size/Wt/Grade: 5-1/2", 20#, L-80, LTC, 8rd

Properties: 9190 psi burst, 4.653" drift, 4.778" ID, 0.0221 Bbl/ft Capacity

Depth Landed: 12,830' KB,

Cement Data: 465 sks 65.35 Poz-Premium (11.5 ppg, 3.30 cf/sk)

Navajo1 Perforations

9014' - 9039' MD/TVD, 25', 75 holes (7/06/10)

9060' - 9062' MD/TVD, 02', 12 holes (9/24/14)

9064' - 9066' MD/TVD, 02', 12 holes (9/24/14)

9081' - 9084' MD/TVD, 03', 18 holes (9/24/14)

9091' - 9093' MD/TVD, 02', 12 holes (9/24/14)

9099' - 9104' MD/TVD, 05', 30 holes (9/24/14)

9117' - 9126' MD/TVD, 9', 27 holes (6/12/09) – below plugs

Mid-Perf = 9059' MD/TVD, 39' TV, 159 holes

Moenkopi Perforations

11,836' - 11,902' MD/TVD, 32', 96 holes (5/30/09)

Tubing (10/06/2014)

X-Profile Nipple	8896' WLM (8896' TVD)
On/Off Skirt	8903' WLM (8903' TVD)
Arrowset Packer	8908' WLM (8908' TVD)
XN-Profile Nipple	8916' WLM (8916' TVD)
EOT	8917' WLM (8917' TVD)



Providence Field
Federal 24-4
API# 43-039-30040

Section 24, T20S, R1E
Sanpete County, Utah

- 9/16/2014 Move in and spot frac tanks
- 9/17/2014 Move in and spot flow back tank. Started hauling KCL and fresh water for well frac.
- 9/18/2014 MIRUSU, hauled the BOP equipment, flow back piping, generator, filter trailer and rig baskets to location. Hooked up the flow back piping from the well to the flow back tank. Hooked up the generator and filter trailer to the frac tanks to filter the frac water.
- 9/19/2014 Opened well (Tbg - 980 psi, Csg - 980). Rigged up pump lines and circulated 185 bbls of Completion Fluid (CF) down tubing with returns up casing to kill the well. ND pump lines. ND wellhead. NU BOP's. Pulled out of the hole with 149 joints of tubing and found a parted tubing pin. Run in the hole with kill string and shut well in for the night.
- 9/20/2014 Opened well (590 psi). Blew well down and circulated 50 bbls of CF to kill the well. Pulled out of the hole with kill string. Picked up 4½" overshot, sub, and 150 joints of tubing and TIH. Latched onto fish, released packer, and pulled out of hole with tubing and packer. Picked up and tripped in the hole with 4½" rock bit, bit sub, 3½ drill collars, sub and 220 joints of 2⅞" tubing. SWIFN.
- 9/21/2014 Opened well (Tbg - 200 psi, Csg - 160 psi). Blew well down and finished tripping in hole. Tagged cement top at 9045'. Rigged up power swivel and drilled out cement retainer at 9046' and squeeze cement from 9050'-9066'. Rigged down power swivel and pulled out of the hole with bit to 8900'. SWIFN.
- 9/22/2014 Opened well (Tbg & Csg both 0 psi). Tripped in hole and drilled out cement retainer at 9074'. Circulated bottoms up and tripped out of the hole for a bit change. Found one of the cones missing from the bit. Tripped in the hole with drill collars and 2 stands. SWIFN.
- 9/23/2014 Opened well (Tbg & Csg both 0 psi). Rigged up Braided Line unit with 1-11/16" magnet. Made 3 runs and recovered broken bit cone and several pieces of the CICR. Rigged down and released the Braided Line unit. Tripped in the hole with new 4½" rock bit and finished drilling out the cement retainer at 9074', as well as cement squeeze from 9078' - 9104'. Circulated bottoms up and TOH with 140 joints. SWIFN. Note: The new PBSD is 9104' (previously existing CIBP).
- 9/24/2014 Opened well (Tbg & Csg both 0 psi). Finished TOH laying down drill collars. Picked up 5½" casing scraper and TIH to PBSD. Rigged up pump lines and reverse circulated 75 bbls of CF. Rigged down pump lines and pulled out of the hole laying down the casing scraper. Rigged up wireline unit and perforated 9,060' 9,062', 9,064'-9,066', 9,081'-9,084', 9,091'-9,093' and 9,099'-9,104' (6 SPF 60° Phasing). RD and released wireline unit. SWIFN.
- 9/25/2014 Opened well (Tbg & Csg both 0 psi). Picked up and TIH with 1 joint, XN Nipple, 1 joint, 5½" HD packer, X Nipple, and 287 joints to surface. Rigged up Halliburton acid equipment and spotted 750 gallons of acid across the new perforations (9060'-9104'). Set packer and displaced acid with 35.7 bbls CF. Note: Pumped at 0.6 bpm and 2100 psi. Had communication behind casing to old perfs at 9014'-9039'. Re-set packer at 8985', with EOT at 9048', opened bypass on the packer and spotted 750 gals acid. Closed packer by-pass and pumped 34 bbls CF. Note: Pump pressure was 0.4 bpm @ 1620 psi. Rigged down and released Halliburton acid equipment. Released packer and pulled out of the hole laying down 150 joints. SWIFN.
- 9/26/2014 Opened well (Tbg & Csg both 0 psi). Finished pulling out of the hole, laying down tubing and packer. Rigged up wellhead isolation equipment with 3-1/16", 3-way frac head. SWIFN.

9/27/2014

Spot frac equipment on location.

9/28/2014

Rigged up Halliburton equipment. Performed QC tests for chemical injection pumps. Pressure tested lines, then opened well and loaded hole (± 23 bbls). Verified seals on WIT, and pumped 9000 gals 40# linear gel. Stepped rate up at ± 5 BPM increments to gauge pressure increases (finished at 30 BPM and ± 3625 psi WHP). S/D to wait on frac sand. Off-loaded add 'l sand and started frac. Pumped Frac as outlined below, then flushed w/ 198 bbls CF.

Fluid Treatment Volume - 1789 bbls

Sand Volume Pumped - 56,000#

Average Pump Rate - 30 BPM

Max. Pump Rate - 32.2 BPM

Avg. WHP - 3905 psi

Max WHP - 4674 psi

Sand Concentrations - 1/2 to 3.8 ppg.

ISIP - 1920 psi

WHP fell to 0 psi, no flowback.

9/29/2014

Halliburton moved equipment off location. Rig crew on standby, waiting for a coil tubing unit.

9/30/2014

Shut down waiting on Coil Tubing Unit.

10/1/2014

Shut down waiting on Coil Tubing Unit.

10/2/2014

Shut down waiting on Coil Tubing Unit.

10/3/2014

WHP - 380 psi. Flowed back 87 bbls water, with skim of oil. SWIFN, waiting on Coil Tubing Unit.

10/4/2014

WHP - 620 psi. Flowed back 195 bbls of water, with skim of oil, while waiting on Coil Tubing Unit. Rigged up Coil Unit and cleaned out sand frac sand to PBTD at 9114'. Rigged down and released Coil unit.

Note: There was not a definitive sand top found during the clean out.

10/5/2014

Opened well with 1,020 psi WHP. Rigged up wireline unit and set a nickel-coated Arrowset 1X packer with a pump-out plug at 8903'. Rigged down and released wireline unit. Hooked up pump lines and filled the casing with CF. SWIFN.

Note: The Arrowset 1X packer, 6' sub and XN nipple are nickel coated.

XN Nipple ID is 1.875", with a 1.791" No-Go.

10/6/2014

Opened well, with 700 psi WHP. Blew well down and tripped in hole with Ni-coated On/Off Skirt, 6' sub, Ni-coated X-Nipple, 274 Jts 2 $\frac{7}{8}$ " L-80 (GRE-fiberglass lined) tubing, 4' x 2 $\frac{7}{8}$ " L-80 (GRE) Sub, 6' x 2 $\frac{7}{8}$ " L-80 (GRE) Sub, 8' x 2 $\frac{7}{8}$ " L-80 (GRE) Sub, 10' x 2 $\frac{7}{8}$ " L-80 (GRE) Sub and 1 Jt 2 $\frac{7}{8}$ " L-80 (GRE) tubing. Rigged up pump lines and circ'd 180 bbls of inhibited packer fluid. Rigged down pump lines, ND BOP, NU Wellhead. SWIFN.

10/7/2014

Rigged up pump lines. Pressure tested annulus to 2100 psi - OK. Rigged up pump line to the tubing and pumped the pump-out plug from the end of the tubing. RDMOSU.

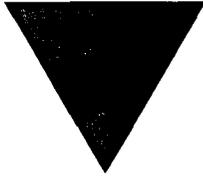
10/8-9/2014

Hauled water and rig equipment off location

Supervisor:

Tony E. Cook

Rig Operator:



WOLVERINE GAS AND OIL COMPANY

OF UTAH, LLC

Energy Exploration in Partnership with the Environment

September 24, 2013

Mr. Brad Hill
Oil & Gas Permitting Manager
Utah Division of Oil, Gas and Mining
P.O. Box 145801
Salt Lake City, Utah 84114-5801

RECEIVED
OCT 01 2013
DIV. OF OIL, GAS & MINING

**Re: Petition to Convert the Providence Federal #24-4 (API # 43-039-30040) to
Produced Gas Injection, for Enhanced Oil Recovery**

Dear Mr. Hill:

Wolverine Gas and Oil Co. of Utah, LLC (Wolverine) hereby submits a petition to convert the Providence Federal (PF) #24-4, located in the Providence Field (T20S, R1E) of Sanpete County, to a produced gas injection well. This well is low on structure and production tests have confirmed its lack of economically viable production potential. A second well, the Wolverine Federal Arapien Valley (WFAV) #24-1, is higher on structure and tested at rates exceeding 200 BOPD, but its associated gas production was high (GOR's ranged from 10,000-12,000 scf/bbl) and approximately 80% CO₂. Wolverine thus proposes to start production at Providence with WFAV #24-1 as the lone producer and re-inject all produced gas back into the same Navajo formation at PF #24-4, so as to enhance oil recovery through pressure maintenance and oil sweeping.

The attached pages address the informational requirements of Utah Administrative Code R649-5-1, et seq. Wolverine respectfully requests your consideration of this material and the approval of our petition to convert PF #24-4 to a produced gas injection well. Please direct any related questions you might have to me. I can be reached during normal business hours (8:00 am to 4:30 pm, EST) at 616/929-1932, or by e-mail at rmeredith@wolvgas.com.

Sincerely,

Ron Meredith
Senior Production Engineer,
Wolverine Gas & Oil Corporation

UIC #417.1

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

UIC FORM 1

APPLICATION FOR INJECTION WELL

Name of Operator Wolverine Gas and Oil Company of Utah, LLC	Utah Account Number N 1655	Well Name and Number Providence Federal 24-4
Address of Operator 55 Campau NW CITY Grand Rapids STATE MI ZIP 49503	Phone Number (616) 458-1150	API Number 4303930040
Location of Well Footage : 975' FSL, 41' FWL County : Sanpete QQ, Section, Township, Range: SWSW 24 20S 1E State : UTAH		Field or Unit Name Providence Lease Designation and Number UTU-80907

Is this application for expansion of an existing project? Yes No

Will the proposed well be used for:	Enhanced Recovery?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>
	Disposal?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>
	Storage?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>

Is this application for a new well to be drilled? Yes No

If this application is for an existing well, has a casing test been performed? Yes No
Date of test: _____

Proposed injection interval: from 8,990 to 9,139

Proposed maximum injection: rate 3,000 bpd pressure 3,000 psig

Proposed injection zone contains oil , gas , and / or fresh water within 1/2 mile of the well.

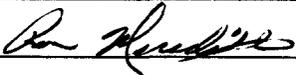
List of attachments: GAS INJECTION LIMIT - 3.0 MMscf/d. Attach.s - Petition to Covert well to Produced Gas Inj. w/ 2 Plat
Maps, Affidavit of Notices, 2 WBD's, and 4 Fluid (Gas, Oil, and Water) Analyses

**ATTACH ADDITIONAL INFORMATION AS REQUIRED BY CURRENT
UTAH OIL AND GAS CONSERVATION GENERAL RULES**

I hereby certify that this report is true and complete to the best of my knowledge.

Name (Please Print) Ron Meredith

Title Sr. Production Engineer

Signature 

Date 9/24/13

Petition to Convert Providence Federal #24-4 (API # 43-039-30040) to a Gas Injection Well, Providence Field, Sanpete County, Utah

R649-5-1. Requirements for Injection of Fluids Into Reservoirs.

2. A petition for authority for injection shall contain:

2.1. The name and address of the operator of the project.

The proposed Providence Field Gas Injection project and both of the associated wells will be operated by:

**Wolverine Gas and Oil Co. of Utah, LLC
One Riverfront Plaza,
55 Campau NW
Grand Rapids, MI 49503-2616**

2.2. A plat showing the area involved and identifying all wells, including all proposed injection wells, in the project area and within one-half mile radius of the project area.

Attachment #1 is a plat map, illustrating two existing wells in the Providence Field project area. One well is the Providence Federal (PF) #24-4, the proposed gas injector, and the second is the Wolverine Federal Arapien Valley (WFAV) #24-1, which would be the field's only existing producer.

2.3. A full description of the particular operation for which approval is requested.

Referring to Attachment #1, Wolverine will begin operating Providence Field with WFAV #24-1 as the lone producer. Approximately 2,200' of Fiberspar flowline will be routed through the field (per provisions of a previous Sundry, approved by BLM on 11/8/11) and all produced fluid/gas volumes will flow directly to the PF #24-4 well site. All surface equipment, including a high pressure separator and heater treater for separating oil/gas/water, will be at the PF #24-4 location. Oil and water volumes will go to separate on-site holding tanks, with oil to be trucked to refineries and water to be hauled to the evaporation pit at Wolverine's Covenant Field production facility (located approximately 20 miles southwest). Based upon previous WFAV #24-1 production tests, water production is expected to amount to only about 10 BPD and should be easily managed, from the standpoint of storage and trucking.

Providence gas contains less than 15% hydrocarbons and has very high (~80%) CO₂ content. Consequently no gas treatment/extraction activities will occur before separated gas is routed through a compressor and re-injected at PF #24-4, in the same Navajo Formation from which it was produced. Providence wells and surface equipment were designed with appropriate consideration for high CO₂ gas.

2.4. A description of the pools from which the identified wells are producing or have produced.

The PF #24-4 is completed in the Navajo 1 pool of Providence Field. The Navajo is sandstone of Jurassic age. In the PF #24-4, the Navajo 1 pool has a gross pay interval thickness of 148.5' occurring from 8,990' to 9,138.5' MD. Using pay criteria of a minimum of 7% porosity and a maximum of 60% water saturation, the Navajo 1 in the PF #24-4 well has 122.5' of net pay with an average net porosity of 11.7% and average net water saturation of 43.2%. In the WFAV #24-1, the Navajo 1 pool has a gross pay interval thickness of 261.5' occurring from 8930' to 9191.5' MD, 134' of net pay with an average net porosity of 12.1% and average net water saturation of 49.12%. Routine core analysis of sidewall cores from the PF #24-4 and WFAV #24-1 show the Navajo 1 has an average core porosity of 10.7% and permeability of 8 md.

The Navajo 1 pool at Providence field is a structural accumulation within the Central Utah Thrust Belt. Initial reservoir temperature was 193° F at 8,940' TVD and initial reservoir pressure was 3545 psi. The Navajo 1 pool contains a highly volatile oil system; produced hydrocarbons include ~45° API reddish brown crude oil and gas that is largely inert (80.7% CO₂). From PVT analysis, the solution gas-oil ratio is over 4000 scf/stb and the formation volume factor is 2.657.

2.5. The names, description and depth of the pool or pools to be affected.

The conversion of PF #24-4 to a produced gas re-injection well will only affect the Navajo 1 pool at Providence Field. The top Navajo 1 is located at a depth of 8990' in PF#24-4.

2.6. A copy of a log of a representative well completed in the pool.

Copies of open-hole logs for both of the field's wells were submitted with the filing of each well's Completion Report. Per subsequent instructions (R649-5-2.2.4), additional log copies are not included with this filing, but a summary of well log copies previously provided to UDOGM follows:

<u>Well</u>	<u>O.H. Logs Submitted</u>	<u>Submittal Date</u>
PF 24-4	ERMI, BCS, DLL, SD-DSN	1/5/10
WFAV 24-1	HRLLA, FMI, CN/LDL, BCS	5/5/09

2.7. *A statement as to the type of fluid to be used for injection, its source and the estimated amounts to be injected daily.*

The proposed injection fluid at PF #24-4 will consist exclusively of produced gas from WFAV #24-1. Both wells are completed in the same Navajo 1 Formation. Aside from liquids separation no other gas treatment/extraction operations will take place, and all produced gas volumes are to be re-injected. Based on previous WFAV #24-1 well tests, PF #24-4's injection volumes are expected to range from 2.0 to 2.5 MMscf/d. Maximum injection rates cannot exceed 3.0 MMscf/d, without upgrades to the facility.

2.8. *A list of all operators or owners and surface owners within a one-half mile radius of the proposed project.*

As Attachment #2 illustrates, Wolverine is the only operator in the project area and there are just two surface owners within a ½-mile radius of the proposed gas injection well:

Operator: Wolverine Gas and Oil Co. of Utah, LLC
One Riverfront Plaza,
55 Campau NW
Grand Rapids, MI 49503-2616

Surface Owner: Farmland Reserve, Inc.
139 E. South Temple, Suite 110
Salt Lake City, UT 84111-1175

Surface Owner: Federal Government
Bureau of Land Management
Richfield Field Office
150 East 900 North
Richfield, UT 84701

2.9. *An affidavit certifying that said operators or owners and surface owners within a one-half mile radius have been provided a copy of the petition for injection.*

Again, Wolverine Gas and Oil Co. of Utah, LLC is the only operator of record in the project area, but both of the Surface owners listed immediately above (in ... 2.8) have been noticed and provided with a copy of the petition for injection. An affidavit attesting to those notifications is included as Attachment #3.

2.10. *Any additional information the board may determine is necessary to adequately review the petition.*

R649-5-2. Requirements for Class II Injection Wells Including Water Disposal, Storage and Enhanced Recovery Wells.

2. The application for an injection well shall include a properly completed UIC Form 1 and the following:

A completed UIC Form 1 immediately follows these responses to Petition inquiries. (Note that the "Proposed maximum injection rate", shown on Form 1 as "3,000 bpd", is actually "3,000 Mscf/d". Form 1 does not provide for the input of Gas injection volumes).

2.1. *A plat showing the location of the injection well, all abandoned or active wells within a one-half mile radius of the proposed well, and the surface owner and the operator of any lands or producing leases, respectively, within a one-half mile radius of the proposed injection well.*

The subject plat map requirements are provided for in Attachment #2. This map illustrates that there are just two wells in the project area, both of which are operated by Wolverine. The two wells are the proposed PF #24-4 gas injection well and the WFAV #24-1, which would become the field's lone producing well. As the plat map also shows, there are also just two landowners in the project area. The majority of land in the project area, including the land at both well locations, is federally owned but approximately 110 acres of land within the half-mile radius is privately owned.

2.2. *Copies of electrical or radioactive logs, including gamma ray logs, for the proposed well run prior to the installation of casing and indicating resistivity, spontaneous potential, caliper, and porosity.*

As noted previously, copies of open-hole logs for the proposed PF #24-4 injector conversion were submitted with the well's Completion Report. No additional log copy is included with this filing, per R649-5-2.2.4. However, a list of the O.H. logs previously provided to UDOGM for PF 24-4 follows:

<u>O.H. Logs Submitted</u>	<u>Submittal Date</u>
ERMI, BCS, DLL, SD-DSN	1/5/10

2.3. *A copy of a cement bond or comparable log run for the proposed injection well after casing was set and cemented.*

Copies of cement bond logs for the PF 24-4 were included with the Completion Report that was submitted for the well on 1/5/10. Per R649-5-2.2.4, no additional CBL copy is included with this filing.

2.4. *Copies of logs already on file with the division should be referenced, but need not be refiled.*

2.5. *A description of the casing or proposed casing program of the injection well and of the proposed method for testing the casing before use of the well.*

A wellbore diagram for the proposed PF #24-4 injection well is included as Attachment #4 (with pages a and b). As illustrated in that diagram, mechanical integrity will be safeguarded by a tubing and packer, and three cemented casing strings inside the well's conductor pipe.

Originally drilled as a Providence Field producer in 2009, #24-4 has fully cemented 13 $\frac{3}{8}$ " surface casing set to 2001'. The 9 $\frac{5}{8}$ " intermediate casing is set at 9400' and was cemented with 1790 sx (a CBL found the TOC at 2,200'). The 5 $\frac{1}{2}$ " production casing was set inside a 7 $\frac{5}{8}$ " liner (the well was originally drilled as a deep test) and cemented to 2990' (TOC) with 465 sx. Tubing is 2 $\frac{7}{8}$ ", to a (nickel coated) packer set at 8947'. All tubulars inside of the 13 $\frac{3}{8}$ " surface casing are Grade 'L'.

Casing has been tested at the PF #24-4, but Wolverine plans to add perforations and stimulate the Navajo formation prior to commencing gas injection (a related workover Sundry will be filed separately). Since that work will require tubing/packer manipulation, a post-work casing re-test will be necessary. Following recompletion, the tubing x production casing annulus will be refilled with \pm 8.5 ppg inhibited 4% KCl and pressure tested to at least 1,000 psi, for 30 minutes to verify wellbore integrity. The post-work casing test will be coordinated so that a UDOGM official representative can be on-site to witness the test. Wolverine understands that a successful casing test is required in order to receive approval to commence injection.

2.6. *A statement as to the type of fluid to be used for injection, its source and estimated amounts to be injected daily.*

The proposed injection fluid at PF #24-4 will consist entirely and exclusively of gas, produced from the same Providence Field / Navajo formation where it will be re-injected. Based on previous WFAV #24-1 production tests, injection volumes at PF #24-4 are expected to range from 2.0 to 3.0 MMscf/d, and cannot exceed 3 MMscf/d due to facility constraints.

2.7. *Standard laboratory analyses of:*

2.7.1. *The fluid to be injected.*

A copy of a Gas Sample Analysis, from produced gas at the WFAV #24-1 well, is provided as Attachment #5.

2.7.2. *The fluid in the formation into which the fluid is being injected, and*

Copies of Oil, Water and Gas Sample Analyses from PF #24-4 well are provided as Attachments #6, #7 and #8, respectively.

2.7.3. The compatibility of the fluids.

The proposed injection gas for PF #24-4 is native to the Navajo formation and coexists naturally with that formation's oil and water. Since gas will be injected into the same Navajo Formation from which it will be produced (at the WFAV #24-1 well) and no gas processing will take place between production and re-injection, fluid compatibility issues do not present a concern.

2.8. The proposed average and maximum injection pressures.

The anticipated average injection pressure will be 2200 psi and the proposed maximum injection pressure is 3000 psi.

2.9. Evidence and data to support a finding that the proposed injection well will not initiate fractures through the overlying strata or a confining interval that could enable the injected fluid or formation fluid to enter any fresh water strata.

The proposed maximum WHP will ensure that bottom hole pressures remain below the well's frac gradient at all times during gas injection operations. The basis for the proposed WHP limit is an 8-hour CO₂ injection test conducted in 2012 on the PF#24-4 and subsequent wellbore performance simulations and reservoir modeling studies using data from that test.

As pressure falloff data from the PF#24-4's CO₂ injection test confirmed, that well has never been frac'd. However, a frac gradient of 0.62 psi/ft was established from DFIT analysis at WFAV #24-1 and used to determine a limiting BHP of 5597 psi (0.62 psi/ft and 9027', mid-perfs) at PF#24-4. Flow correlations (Beggs & Brill and Cullendar & Smith) for CO₂-rich gas behavior and friction inside 2½" tubing were validated with data from PF#24-4's CO₂ injection test and then used to calculate a maximum WHP and gas flow rate, corresponding to the 5597 psi BHP limitation. Using this methodology and conservatively reducing the "calculated limits", Wolverine proposes a maximum rate of 3,000 Mscf/d and a corresponding maximum wellhead injection pressure of 3,000 psi.

Wolverine's consulting reservoir engineer (Mr. Tom Zadick) performed the above-referenced modeling and simulation work and determined the maximum BHP and corresponding injection rate for this fluid system. His work concluded that an injection rate of 3.4 MMscf/d could occur at 3139 psi wellhead pressure (after successful addition of new perfs and reduction of current wellbore damage) without reaching the well's frac gradient. Therefore, Wolverine conservatively proposes a maximum wellhead surface pressure of 3000 psi, which is also the design limit of the injection compressor.

2.10. Appropriate geological data on the injection interval with confining beds clearly labeled,

References Cited in Sections 2.10.1 to 2.10.3

- Lambert, P.M., Mason, J.L., and Puchta, R.W. 1995. Hydrology of the Sevier-Sigurd Ground-Water Basins and Other Ground-Water Basins, Central Sevier Valley, Utah. State of Utah Department of Natural Resources Technical Publication No. 103. 193 p.**
- Willis, G.C. 1986. Geologic Map of the Salina Quadrangle, Sevier County, Utah. Utah Geological and Mineral Survey Map 83. 20 p., 2 pl.**
- Witkind, I.J., Weiss, M.P., and Brown, T.L. 1987. Geologic Map of the Manti 30' x 60' Quadrangle, Carbon, Emery, Juab, Sanpete, and Sevier Counties, Utah. U.S. Geological Survey Map I-1631. 3 pl.**

2.10.1. Nearby Underground Sources of Drinking Water, including the geologic formation name,

Providence field lies within the Redmond-Gunnison groundwater basin in the Central Sevier Valley drainage area (Fig 1). The closest underground source of drinking water to the Providence Field is in confined and unconfined aquifers within the unconsolidated Quaternary basin fill sediments. These sediments of Quaternary (occasionally Tertiary) age are referred to as alluvium and fan deposits (Qal, QTcf, Qf, Qaf), basin fill, or Sevier Valley fill, and are generally confined to the Sevier River valley (Fig. 1, 2, Lambert et al, 1995).

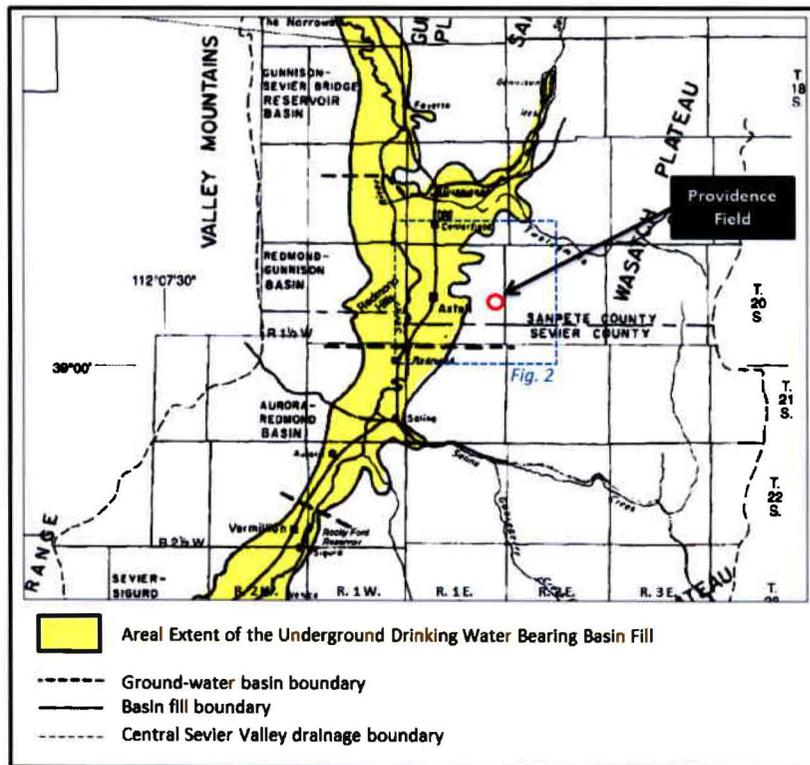


Figure 1: Location of the underground drinking water bearing basin fill relative to Providence Field. (modified from Lambert et al, 2005)

	Location	Date measured	Specific conductance (µS/cm)	pH (standard units)	Temperature, water (°C)	Hardness, total (mg/L as CaCO ₃)	Hardness, noncarbonate (mg/L as CaCO ₃)	Alkalinity, field (mg/L as CaCO ₃)	Solids, dissolved (mg/L)
North of Redmond	(C-21-1) 1cab-1	06-30-89	1,900	7.4	13.5	330	0	367	1,190
East of Gunnison	(D-19-1) 23dba-1	06-13-89	2,480	7.2	15.5	590	270	322	1,500

Table 1: Chemical analysis for groundwater samples near Providence Field (from Lambert et al, 1995)

2.10.3. Information relative to geologic structure near the proposed well that may effect the conveyance and/or storage of the injected fluids.

As proposed, the Providence Federal 24-4 would inject into the Navajo 1 pool. The Navajo 1 pool is located within a fault-bend fold (Fig 3A). Top seal is provided by the overlying tight Twin Creek limestone and evaporate-rich Arapien formation.

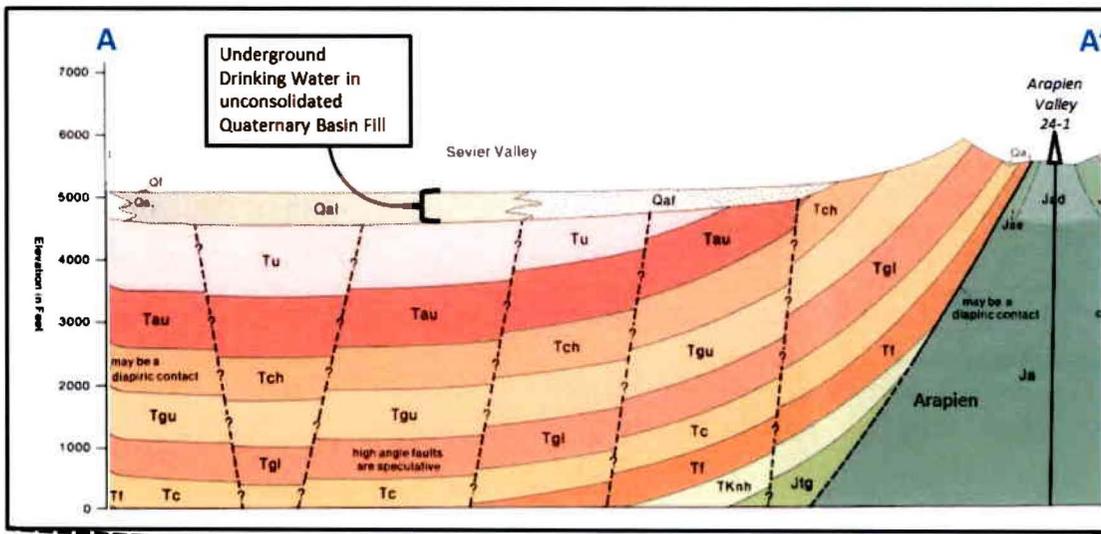


Figure 3A (Left): Cartoon cross section through Providence Field illustrating the fault-bend-fold structure, location of Navajo 1 pool, and the Twin Creek limestone and Arapien evaporate-rich shale that provide confining beds. (after cross section prepared by D. Schelling, 2010, not published)

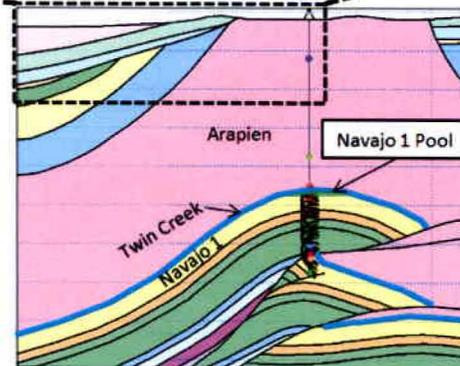


Figure 3B (Above): Cross section illustrating the shallow geology at Providence field and relationship to the ground-water bearing Quaternary basin fill in the Sevier River valley. (modified from Willis, 1986)

- 2.11. *A review of the mechanical condition of each well within a one-half mile radius of the proposed injection well to assure that no conduit exists that could enable fluids to migrate up or down the wellbore and enter improper intervals.*

The mechanical condition of the proposed PF #24-4 CO₂ injection well is addressed in responses to R649-5-2.3 & -2.5, above.

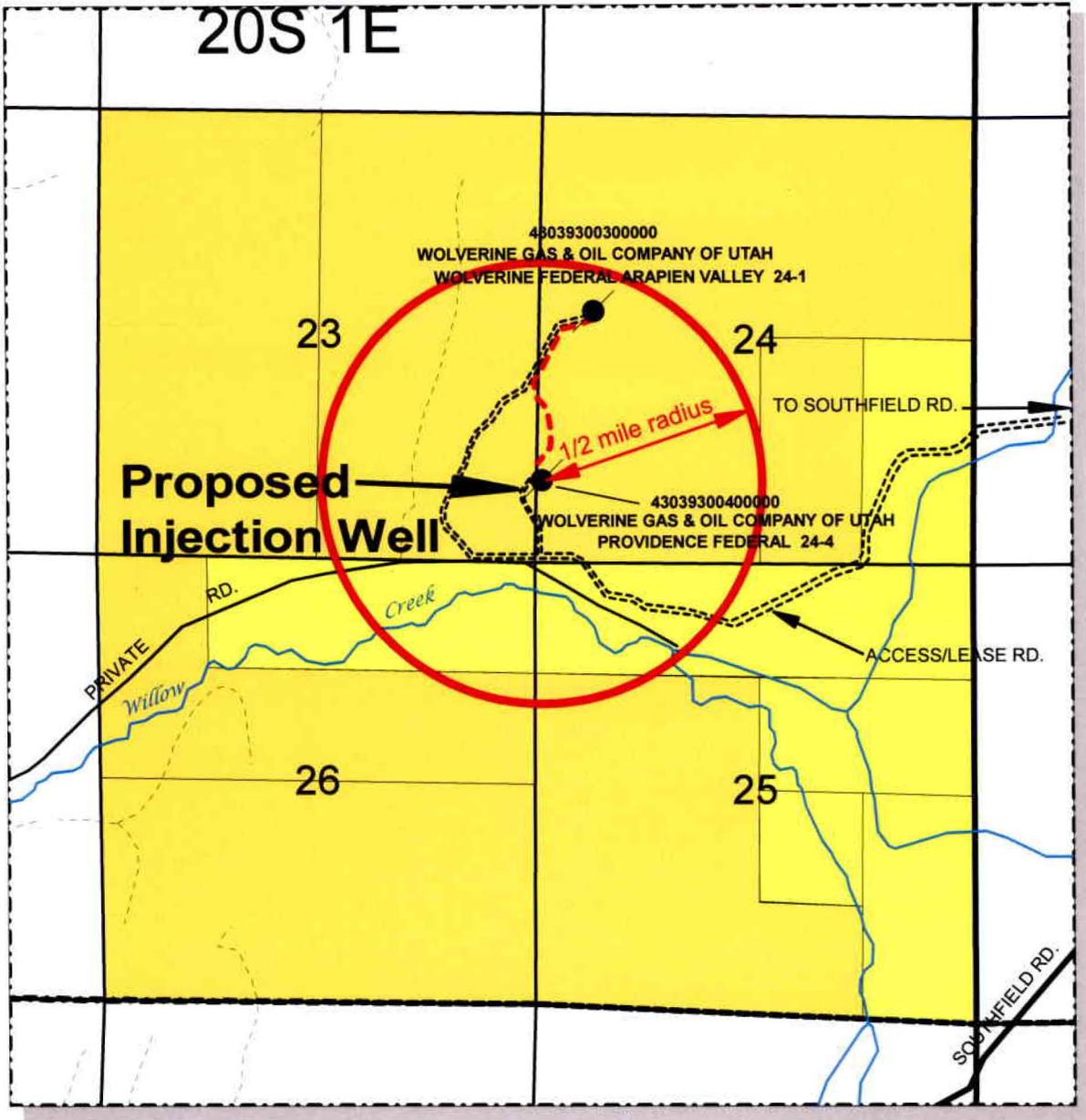
WFAV #24-1 is the only other well in the project area and will be the source of injection gas for the PF #24-4. WFAV #24-1 was drilled in 2008 and a copy of its wellbore diagram is included as Attachment #9 (with pages a and b). Like the PF #24-4, mechanical integrity at WFAV #24-1 will be safeguarded by three cemented casing strings inside of the well's conductor pipe. Surface casing is 13^{3/8}" and fully cemented, from a depth of 2,017'. Intermediate casing is 9^{5/8}", and set at 10,373'. It was cemented with 2850 sx and saw partial cement returns to surface. Production casing is 5^{1/2}" to a depth of 12,755' (PBSD is at 9235'), and has its TOC at 2990'. Copies of cement bond logs for the WFAV #24-1 were included with the Completion Report submitted 5/5/09 and, per R649-5-2.2.4, no additional logs are included with this filing.

- 2.12. *An affidavit certifying that a copy of the application has been provided to all operators, owners, and surface owners within a one-half mile radius of the proposed injection well.*

As noted previously (in response to R649-5-1.2.9), Wolverine Gas and Oil Co. of Utah, LLC is the only operator of record in the project area and both of the Surface owners (listed in response to R649-5-1.2.8) have been noticed and provided with a copy of the petition for injection (per the Attachment #3 Affidavit).

- 2.13. *Any other additional information that the board or division may determine is necessary to adequately review the application.*

ATTACHMENT #1



WGO LEASES

- ==== Access/Lease Rd.
- County Rd.
- Private Rd.
- Unimproved
- Proposed Pipeline

- FEE/PRIVATE
- BLM

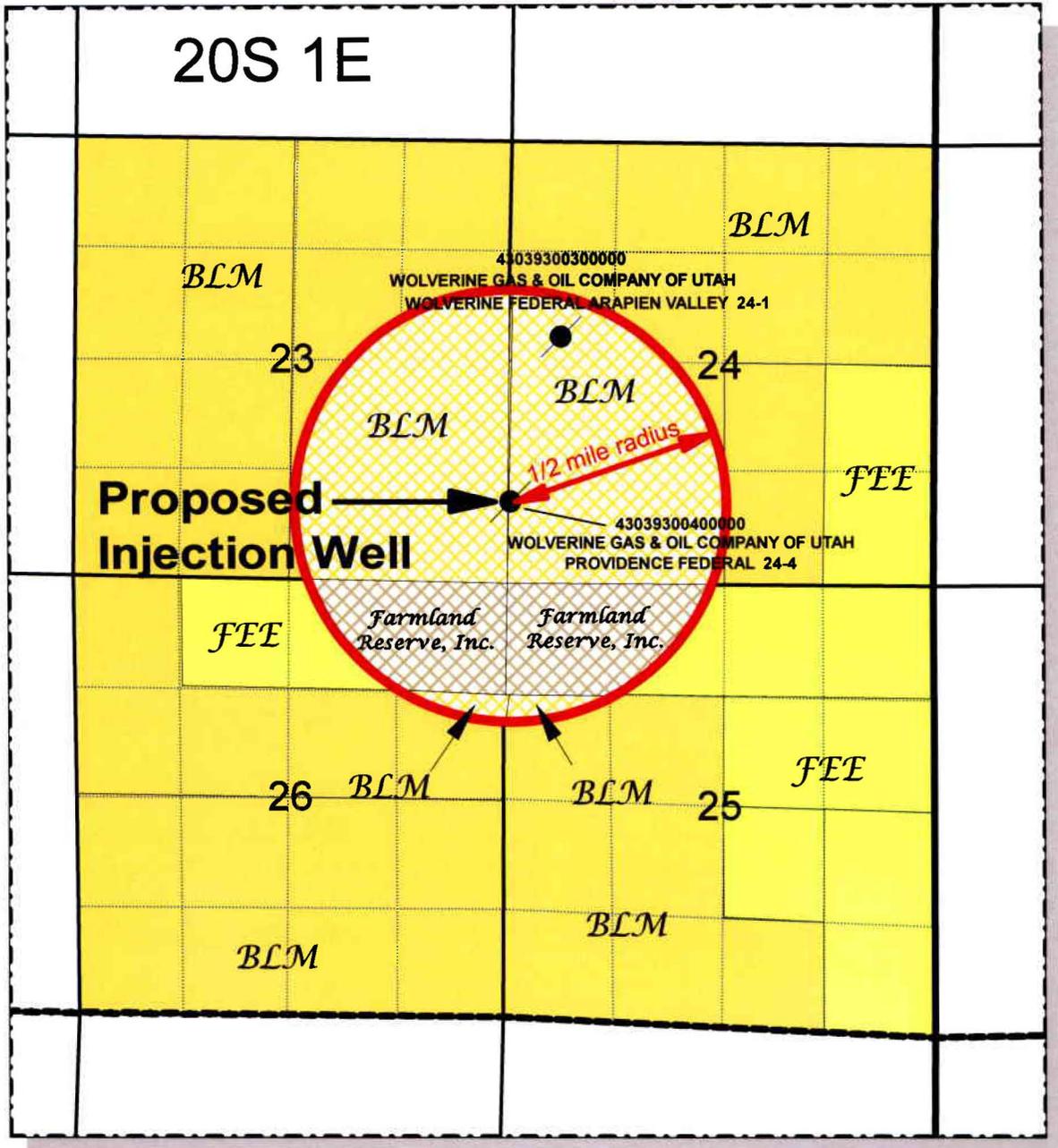
Well Status
● INA-OIL

1:24000

0.2500 0 0.2500 0.5000 0.7500 mi

	WOLVERINE GAS & OIL Company of Utah, LLC <small>(Operator)</small> <i>Energy Exploration in Partnership with the Environment</i> ONE RIVERFRONT PLAZA 55 CAMPAL N.W. GRAND RAPIDS, MI 49503-2616 (616) 458-1150
	ATTACHMENT #1 PROPOSED PROVIDENCE FEDERAL 24-4 CONVERSION TO INJECTION WELL SEC. 24, T20S, R1E Sanpete Co., UT
Date: 9/22/2013	Author: Filename: Document in Providence Map 1 (aj) well App 942813.gmp

ATTACHMENT #2



SURFACE OWNERSHIP

-  BLM
-  FARMLAND RESERVE, INC.

WGO LEASES

-  FEE
-  BLM



	WOLVERINE Gas & Oil Company of Utah, LLC (Operator) <i>Energy Exploration in Partnership with the Environment</i> ONE RIVERFRONT PLAZA 55 CAMP PAU, N.W. GRAND RAPIDS, MI 49503-2616 (616) 458-1150
	ATTACHMENT #2 PROPOSED PROVIDENCE FEDERAL 24-4 CONVERSION TO INJECTION WELL SEC. 24, T20S, R1E Sanpete Co., UT
Date: 8/22/2013	Author: Filename: Document in Providence Map 2 Surface Owner Isj well App

ATTACHMENT #3

Affidavit

I certify that a copy of the petition to convert the Providence Federal #24-4 to a produced gas injection well has been sent by US Mail (certified mail) to all operators, owners and surface owners of record, located within one-half mile of the subject well. The well's location is described as the SW/SW/SW, Section 24, T20S-R1E, Sanpete County, Utah. Wolverine Gas and Oil Co. of Utah, LLC is the only recorded operator in the area and there are only two landowners on record:

Farmland Reserve, Inc.
139 E. South Temple, Suite 110
Salt Lake City, UT 84111-1175

Federal Government
Bureau of Land Management
Richfield Field Office
150 East 900 North
Richfield, UT 84701

By:  9/24/13
Ron Meredith

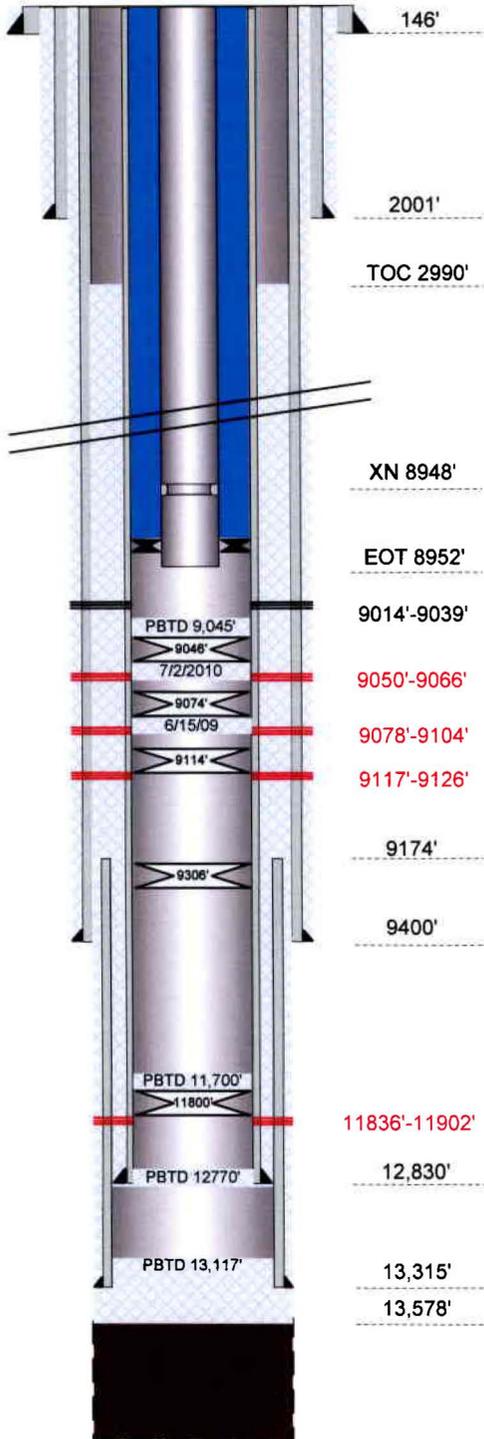
Title: Senior Production Engineer



ATTACHMENT #4 (a)

Providence Federal 24-4
 Providence Field
 API # 43-039-30040
 Section 24, T20S, R1E
 Sanpete County, Utah

Ground Elevation: 5491'
 KB Elevation: 5517'



TD = 14250' KB

(Not to Scale)

Vertical Well

Surface and BHL: 975' FSL 41' FWL, SW SW, 24-20S-1E

Conductor Casing (12/1/08)

Size/Wt/Grade: 24", 0.25" wall in 30" hole

Depth Landed: 146' KB

Cement Data: Cemented to surface with 11 yds redi-mix

Surface Casing (1/22/09)

Size/Wt/Grade: 13 3/8", 68#, K-55, BTC in 17-1/2" hole

Depth Landed: 2001' KB

Cement Data: 400 sks VeriCem (10.4 ppg, 4.33 cf/sk), 490 sks Class G (15.8 ppg, 1.16 cf/sk), Cemented to surface

Intermediate Casing (2/28/09)

Size/Wt/Grade: 9-5/8", 53.5#, T-95/Mav. HCL-110/L-80, LTC/SLX in 12-1/4" hole

Depth Landed: 9400' KB

Cement Data: Stg. 1 – 225 sks 50/50 Poz (14.35 ppg, 1.50 cf/sk)

Stg. 2 lead – 600 sks Class G (11.5 ppg, 2.58 cf/sk)

Stg. 2 tail – 965 sks Class G (15.80 ppg, 1.70 cf/sk)

Drilling Liner (4/12/09)

Size/Wt/Grade: 7-5/8", 33.7#, P-110, Vam FJL w/ 9.75' Tie-back

Length: 4253'

Depth: 9174'-13,315' KB

Cement Data: 310 sks BondCem (14.5 ppg, 1.45 cf/sk)

Production Casing (5/09/09)

Size/Wt/Grade: 5-1/2", 20#, L-80, LTC, 8rd

Properties: 9190 psi burst, 4.653" drift, 4.778" ID, 0.0221 Bbl/ft Capacity

Depth Landed: 12,830' KB,

Cement Data: 465 sks 65:35 Poz-Premium (11.5 ppg, 3.30 cf/sk)

Navajo1 Perforations

9014' – 9039' MD/TVD, 25', 75 holes (7/06/10)

9050' – 9066' MD/TVD, 16', 48 holes (7/02/10) - squeezed

9078' – 9084' MD/TVD, 6', 18 holes (6/15/09) - squeezed

9092' – 9104' MD/TVD, 12', 36 holes (6/15/09) - squeezed

9117' – 9126' MD/TVD, 9', 27 holes (6/12/09) – below plugs

Mid-Perf = 9026.5' MD/TVD, 25' TV, 75 holes

Moenkopi Perforations

11,836' – 11,902' MD/TVD, 32', 96 holes (5/30/09)

Tubing (7/09/10)

2-7/8", 6.5#, L-80, EUE, 8rd to 8931' KB MD/TVD, 2.31" XN nipple

@ 8937' KB, Arrowset 1X packer at 8945' KB.

PBTD

(7/02/10) 9046' – CICR with 32 sacks cement squeezed below

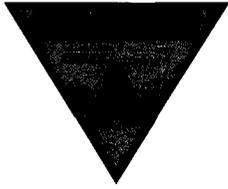
(6/29/09) 9074' – CICR with 25 sacks cement squeezed below

(6/15/09) 9114' – CIBP

(6/11/09) 9306' – CIBP

(6/10/09) 11,500' – CIBP @ 11,800' w/ 25 sacks on top

(5/7/09) 13,117' (Estimated) – Added 200' to first cement plug



ATTACHMENT #4 (b)

Providence Federal 24-4
Providence Field
API # 43-039-30040
Section 24, T20S, R1E
Sanpete County, Utah

Tubing Detail (7/9/2010)

	26.00	KB
	5.00	Tension on pkr
	-2.00	Landed above GL
283	8904.37	Tubing - 2-7/8", 6.5#, L-80, EUE, 8rd
1	6.04	Tubing sub - 2-7/8", 6.5#, N-80, EUE, 8rd Ni Coated
1	1.38	XN Profile Nipple 2.313 ID
1	6.04	Tubing sub - 2-7/8", 6.5#, N-80, EUE, 8rd Ni Coated
1	7.42	Packer - Weatherford, Arrowset 1-X, Ni Coated 5.5" x 2.5
	<hr/>	
	8954.25'	EOT (8952.25' KB WLM w/ -2' wireline correction)

Note: Tubing capacity = 0.00579 Bbl/ft, Burst = 10570 psi, Joint Yield = 144960 lbs

Wellhead Information

- Tubing head flange is 7-1/16", 5k with a 2-7/8" EUE 8rd top connection.

Stimulation

- 7/7/2010, Pumped 2002 gallons of 15% FE Acid with balls.

Notes

Surface Location: Latitude = 39.05033878, Longitude = -111.75993789 (NAD 83)

(3/27/08): Available Logs: Schlumberger- HRLLA, FMI, CN/LDL, BCS, GR Correlation (in 9-5/8"), ISCE, Selman- mud log, CBL

ATTACHMENT #5



(Injection Gas Sample Analysis)

Applied Technology Services

1210 D Street, Rock Springs, WY 82901 (307) 352-7292

Meter Name: Federal 24-1
Field Name: COVENANT FIELD
Analyst: MCMILLAN

Meter Location #: W241
Cylinder Pressure: 0
Line Pressure: 40
Report Date: 08/25/2010 08:41
Sample Dates(s): 08/25/2010 to 08/25/2010
Flowing Temp: 93

Gas Analysis by Chromatograph @14.73

NAME	MOLE%	BTU	SG	GPM
Nitrogen	6.2391	0.0000	0.0603	0.0000
Methane	6.2749	63.5231	0.0348	0.0000
CO2	82.2004	0.0000	1.2490	0.0000
Ethane	1.7453	30.9580	0.0181	0.4666
H2S	0.0000	0.0000	0.0000	0.0000
Propane	1.5431	38.9158	0.0235	0.4250
i-Butane	0.3437	11.2026	0.0069	0.1124
n-Butane	0.7982	26.0999	0.0160	0.2516
i-Pentane	0.2590	10.3863	0.0065	0.0947
n-Pentane	0.2716	10.9128	0.0068	0.0984
Hexanes	0.2006	9.5624	0.0060	0.0825
Heptanes	0.0964	5.3168	0.0033	0.0445
Octanes	0.0277	1.7350	0.0011	0.0142
Nonanes	0.0000	0.0000	0.0000	0.0000
Ideal Total	100.0000	208.6128	1.4323	1.5899

Gross BTU/Real Cu Ft. @ 60 deg F

Pressure Base = 14.73 14.65 15.025
Dry = 209.7401 208.5949 213.9638
Saturated = 207.0680 205.9223 211.2933
Actual BTU = 209.7401 208.5949 213.9638
Real S.G. = 1.439444 1.439402 1.439600
Compressibility = 0.994625 0.994654 0.994517

Gasoline Content

Pressure Base = 14.73
Propane GPM = 0.4250
Butane GPM = 0.3640
14# Gasoline GPM = 0.3545
26# Gasoline GPM = 0.5012
Total GPM = 1.5899

Sulfur Content

Mercaptans ppm = N/A
H2S ppm = N/A

Dewpoints

H2O #/mmcf = N/A
Hydrocarbon = N/A
@ psig = N/A

Comments

ATTACHMENT #6

(Native Oil Analysis)

QUESTAR APPLIED TECHNOLOGY

1210 D. Street, Rock Springs, Wyoming 82901
(307) 352-7292

LIMS ID:	N/A	Description:	Providence Fed. 24-4
Analysis Date/Time:	7/9/2009	Field:	Providence
Analyst Initials:	AST	ML#:	Wolverine
Sample Temperature:	60	GC Method:	Quesliq1.M
Sample Pressure:	50	Data File:	QPC07.D
Date Sampled:	6/30/2009	Instrument ID:	1

Component	Mol%	Wt%	LV%
Methane	0.0000	0.0000	0.0000
Ethane	0.0968	0.0250	0.0510
Propane	0.5753	0.2183	0.3117
Isobutane	1.9151	0.9576	1.2317
n-Butane	4.3560	2.1781	2.7000
Neopentane	0.0474	0.0294	0.0357
Isopentane	4.7233	2.9317	3.3990
n-Pentane	4.8073	2.9839	3.4231
2,2-Dimethylbutane	0.2673	0.1982	0.2194
2,3-Dimethylbutane	0.7971	0.5909	0.6421
2-Methylpentane	3.2020	2.3738	2.6122
3-Methylpentane	1.9850	1.4716	1.5923
n-Hexane	4.8751	3.6142	3.9403
Heptanes	17.2921	14.3964	14.3966
Octanes	12.5353	11.7606	11.5305
Nonanes	11.3074	11.5888	10.8883
Decanes plus	30.6986	44.4841	42.8504
Nitrogen	0.0000	0.0000	0.0000
Carbon Dioxide	0.5198	0.1968	0.1742
Total	100.0000	100.0000	100.0000

Global Properties Units

Avg Molecular Weight	116.2439 gm/mole
Pseudocritical Pressure	401.02 psia
Pseudocritical Temperature	558.12 degF
Specific Gravity	0.72394 gm/ml
Liquid Density	6.0355 lb/gal
Liquid Density	253.49 lb/bbl
Specific Gravity	2.8849 air=1
SCF/bbl	828.97 SCF/bbl
SCF/gal	19.7373 SCF/gal

ATTACHMENT #7 (Native Water Analysis)



4619 N. Santa Fe, OKC, OK 73118 - (405) 488-2400 - (405) 488-2404 fax

Analytical Report

Report Date: 07/31/2009
Order #: 2009070049

Laboratory Certificate # 7211

Client: **David Wavrek**
Petroleum System International
461 E 200 South # 103
Salt Lake City, OK 84111

Project: **Wolverine Gas and Oil, Inc.**

Analytical Results

Client Sample ID: **Providence Federal 24-4**

ETI ID: **1**

Sample Collected: **06/29/2009**

Matrix: **Aqueous**

<u>Parameter</u>	<u>Result</u>	<u>Units</u>	<u>Analyzed On</u>	<u>Analyst</u>	<u>Method</u>
Aluminum	<1.00	mg/L	07/08/2009 05:08:13 PM	JS	200.7
Barium	0.903	mg/L	07/08/2009 05:08:13 PM	JS	200.7
Boron	12.7	mg/L	07/08/2009 05:08:13 PM	JS	200.7
Calcium	763	mg/L	07/09/2009 09:25:56 AM	JS	200.7
Chromium	0.054	mg/L	07/08/2009 05:08:13 PM	JS	200.7
Copper	0.256	mg/L	07/08/2009 05:08:13 PM	JS	200.7
Iron	90.1	mg/L	07/08/2009 05:08:13 PM	JS	200.7
Magnesium	102	mg/L	07/09/2009 09:25:56 AM	JS	200.7
Manganese	1.74	mg/L	07/08/2009 05:08:13 PM	JS	200.7
Nickel	0.010	mg/L	07/08/2009 05:08:13 PM	JS	200.7
Potassium	1790	mg/L	07/09/2009 09:25:56 AM	JS	200.7
Sodium	21400	mg/L	07/09/2009 09:24:15 AM	JS	200.7
Strontium	44.3	mg/L	07/28/2009 03:30:00 PM	*RR	200.7
Silica	62.6	mg/L	07/08/2009 05:08:13 PM	JS	200.7
Phosphate-P, Ortho	<0.10	mg/L	07/08/2009 02:10:00 PM	LH	4500-P E
Chloride	31100	mg/L	07/07/2009 05:01:33 PM	LH	300.0
Sulfate	1620	mg/L	07/09/2009 09:47:44 AM	LH	300.0
Total Dissolved Solids	60200	mg/L	07/08/2009 03:00:00 PM	LH	2540 C
Bicarbonate	2480	mg/L	07/08/2009 10:30:00 AM	LH	2320 B
Carbonate	0	mg/L	07/08/2009 10:30:00 AM	LH	2320B
Density	1.04	g/ml	07/30/2009 03:20:00 PM	LH	Hydrometer
Resistivity	0.0815	ohms-m	07/30/2009 03:20:00 PM	LH	2510 B
Resistivity Measured At 22.3 Celsius.					
pH	6.42	S.U.	07/08/2009 10:30:00 AM	LH	4500 H+ B

Respectfully Submitted:


Russell Britten
President

ATTACHMENT #8 Native (#24-4) Gas Analysis



Applied Technology Services

1210 D Street, Rock Springs, WY 82901 (307) 352-7292

Meter Name: Providence Federal 24-4
 Field Name: COVENANT FIELD
 Analyst: MCMILLAN

Meter Location #: W244 Report Date: 08/25/2010 09:03
 Cylinder Pressure: 0 Sample Dates(s): 08/25/2010 to 08/25/2010
 Line Pressure: 10 Flowing Temp: 71

Gas Analysis by Chromatograph @14.73

NAME	MOLE%	BTU	SG	GPM
Nitrogen	6.0608	0.0000	0.0586	0.0000
Methane	6.3346	64.1275	0.0351	0.0000
CO2	81.0730	0.0000	1.2319	0.0000
Ethane	1.8362	32.5704	0.0191	0.4909
H2S	0.0000	0.0000	0.0000	0.0000
Propane	1.6817	42.4111	0.0256	0.4632
i-Butane	0.4092	13.3376	0.0082	0.1339
n-Butane	1.0306	33.6990	0.0207	0.3248
i-Pentane	0.4291	17.2076	0.0107	0.1569
n-Pentane	0.4815	19.3465	0.0120	0.1745
Hexanes	0.3953	18.8436	0.0118	0.1625
Heptanes	0.1935	10.6722	0.0067	0.0893
Octanes	0.0745	4.6663	0.0029	0.0382
Nonanes	0.0000	0.0000	0.0000	0.0000
Ideal Total	100.0000	256.8818	1.4433	2.0341

Gross BTU/Real Cu Ft. @ 60 deg F

Pressure Base = 14.73 14.65 15.025
 Dry = 258.3453 256.9343 263.5493
 Saturated = 254.8514 253.4398 260.0573
 Actual BTU = 258.3453 256.9343 263.5493
 Real S.G. = 1.450894 1.450849 1.451059
 Compressibility = 0.994335 0.994366 0.994221

Gasoline Content

Pressure Base = 14.73
 Propane GPM = 0.4632
 Butane GPM = 0.4587
 14# Gasoline GPM = 0.6681
 26# Gasoline GPM = 0.9426
 Total GPM = 2.0341

Sulfur Content

Mercaptans ppm = N/A
 H2S ppm = N/A

Dewpoints

H2O #/mmcf = N/A
 Hydrocarbon = N/A
 @ psig = N/A

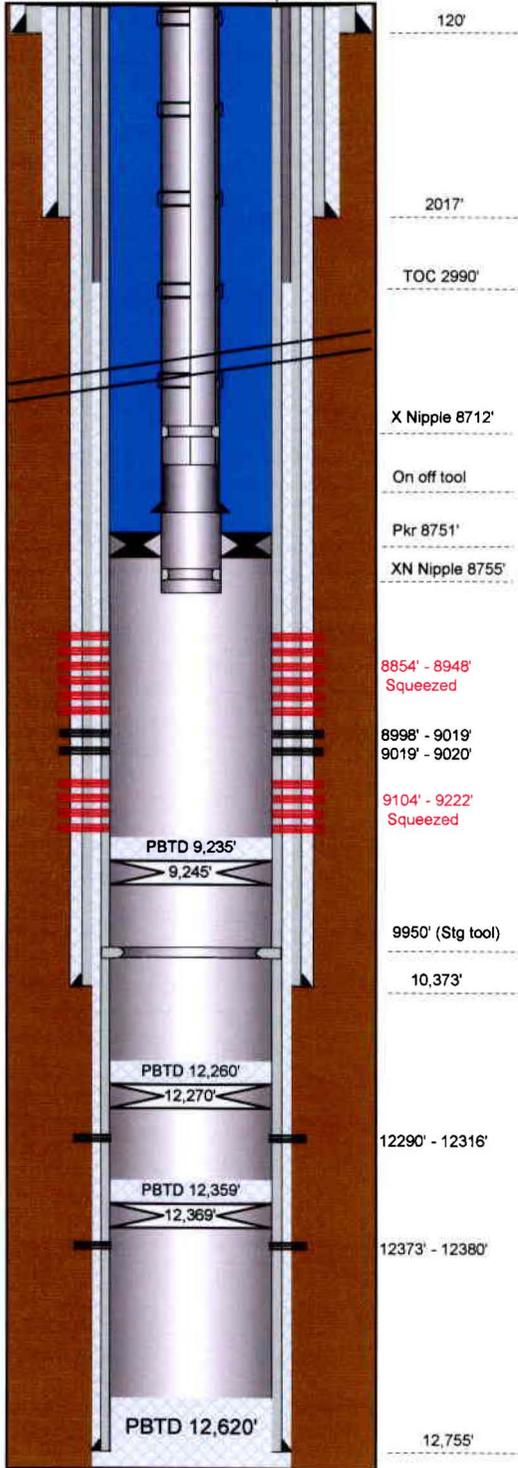
Comments

ATTACHMENT 9 (a)



Wolverine Federal Arapien Valley 24-1
Providence Field
API # 43-039-30030
Section 24, T20S, R1E
Sanpete County, Utah

Ground Elevation: 5,554'
 KB Elevation: 5,580'



(Not to Scale)

Vertical Well

Surface: 2331' FNL 549' FWL, SW NW, 24-20S-1E
 Total Depth (Estimated): 2383' FNL 617' FWL, SW NW, 24-20S-1E

Conductor Casing (10/3/07)

Size: 24", 0.25" wall in 32' hole
 Depth Landed: 120' KB
 Cement Data: Cemented to surface with 8 yds redi-mix

Surface Casing (11/14/07)

Size/Wt/Grade: 13 3/8", 68#, J-55, BTC, in 17.5" hole
 Depth Landed: 2017' KB
 Cement Data: 405 sks CBM Light (10.5 ppg, 4.14 cf/sk), 410 sks Type III (14.8 ppg, 1.33 cf/sk), Cemented to surface

Intermediate Casing (1/21/08)

Size/Wt/Grade: 9-5/8", 4737' of 53# HCP-110 and 5636' of 47# HCL-80, LTC, 8rd in 12.5" hole
 Depth Landed: 10,373' KB
 Cement Data: 2620 sks foamed Elastiseal (14.3 ppg, 1.48 cf/sk)
 630 sks non-foamed Elastiseal (14.3 ppg, 1.48 cf/sk)
 Note: N2 break-through and foamed cement to surface.

Production Casing (2/27/08)

Size/Wt/Grade: 5-1/2", 20#, P-110, LTC, 8rd
 Properties: 12,640 psi burst, 4.653" drift, 4.778" ID, 0.0221 Bbl/ft Capacity
 Depth Landed: 12,755' KB,
 Stage tool @ 9950' KB, Marker Joint @ 12,110'- 12,125.5'
 Cement Data: Stage 1 - 735 sks 50:50 Poz-Premium (12.5 ppg, 1.85 cf/sk)
 Stage 2 - 1635 sks Class G (15.5 ppg, 1.20 cf/sk)

Navajo1 Perforations

8998' - 9019' MD (8997' - 9018' TVD)	21'	126	holes
9019' - 9020' MD (9018' - 9020' TVD)	1'	6	holes
8854' - 8860' MD (8853' - 8859' TVD), 6'	6'	18	holes (squeezed)
8865' - 8871' MD (8864' - 8870' TVD), 6'	6'	18	holes (squeezed)
8881' - 8883' MD (8880' - 8882' TVD), 2'	2'	6	holes (squeezed)
8904' - 8914' MD (8903' - 8913' TVD), 10'	10'	30	holes (squeezed)
8920' - 8922' MD (8919' - 8921' TVD), 2'	2'	6	holes (squeezed)
8942' - 8948' MD (8941' - 8947' TVD), 6'	6'	18	holes (squeezed)
9104' - 9131' MD (9103' - 9130' TVD), 27'	27'	162	holes (squeezed)
9145' - 9154' MD (9144' - 9153' TVD), 9'	9'	54	holes (squeezed)
9160' - 9166' MD (9159' - 9165' TVD), 6'	6'	36	holes (squeezed)
9217' - 9222' MD (9216' - 9221' TVD), 5'	5'	30	holes (squeezed)

Navajo2 Perforations

12,290' - 12,316' MD (12,287' - 12,313' TVD), 26'	156	holes (below CIBP)
12,373' - 12,380' MD (12,370' - 12,377' TVD), 7'	42	holes (below CIBP)

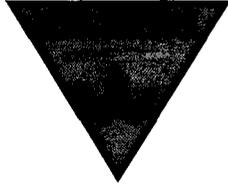
Tubing 9/18/2011

X-Nipple	8712' KB (2.313" ID)
Arrowset 1X	8748' KB
XN Nipple	8755' KB (2.313" ID)
End of BHA	8759' KB

PBTD

(4/29/08) 12,359' - 2 sacks cement on CIBP @ 12,369'
 (4/12/08) 12,620' - CBL tag

ATTACHMENT 9 (b)



Wolverine Federal Arapien Valley 24-1
Providence Field
API # 43-039-30030
Section 24, T20S, R1E
Sanpete County, Utah

Tubing Detail (9/18/2011)

	26.00	KB	
	-3	Landed above GL	
	-3	Compression	
266	8622.91	Tubing - 2-7/8", 6.5#, L-80, EUE, 8rd	
	4.08	Tubing - 2-7/8", 6.5#, L-80, EUE, 8rd	
2	65.25	Tubing - 2-7/8", 6.5#, L-80, EUE, 8rd	
1	1.16	X Nipple - 2-7/8", EUE, 8rd, xxxx" ID (xxxx' MD-WLM)	
1	32.38	Tubing - 2-7/8", 6.5#, L-80, EUE, 8rd	
1	1.41	On/off tool	
1	0.78	Seal nipple	
1	6.88	Packer - Weatherford, Arrowset 1-X, 5.5" x 2.875, Ni coated (xxxx' MD-WLM)	
1	1.25	XN Nipple - 2-7/8", EUE, 8rd, xxxx" ID (xxxx' MD-WLM)	
1	2.15	Tubing - 2-7/8", 6.5#, L-80, EUE, 8rd	
1	0.44	2 7/8" Re-entry collar	
<hr style="width: 100%;"/>			
	8758.69'	KB WLM	

Note: Tubing capacity = 0.00579 Bbl/ft, Burst = 10570 psi, Joint Yield = 144960 lbs

MD	TVD	Incl	MD	TVD	Incl
2000	2000	<1	10000	999	.1
4000	4000	<1	11000	10999	.7
6000	6000	<1	11250	11249	3.0
8000	8000	<1	11500	11498	1.1
8086	Sidetrack tie-in		11750	11748	4.1
8250	8249	6.0	12000	11997	5.9
8500	8499	2.6	12250	12247	.7
8750	8749	.2	12500	12497	.5
9000	8999	1.0			

Stimulation

6/23/08 - Perforation breakdowns using ball sealers and 4% KCl were performed on initial Navajo 1 completions.

1/13/09 - Fracture stimulated Navajo 2 (12,290' - 12,316')

7/26/10 - Fracture stimulated Navajo 1 (8998' - 9020')

Notes

Surface Location: Latitude = 39.05594222, Longitude = -111.75812931 (NAD 83)

(2/27/08) Design top of Cement behind 5-1/2" casing @ 4000'

(3/27/08): Available Logs: Schlumberger- HRLLA, FMI, CN/LDL, BCS, GR Correlation (in9-5/8"), ISCE Selman- mud log

DFIT Analysis

Arapien Valley 24-1; Providence Field

Upper Navajo; Perforations @ 9,019-to-9,020 TMD ft (9,018-
to-9,019 TVD ft)

Wolverine Gas & Oil Co.

Denver Technical Solutions Team, Halliburton

Summary

- The zone was shut-in and the gauges recorded good pressure falloff for approximately ~25 hours.
- BH-ISIP = 5,545 psi; FG = 0.62 psi/ft (based on a TVD of 9,000 ft)
- Pressure dependent type leakoff was observed during shut-in.
 - G-time to closure = 21.21
 - Fissure opening pressure was estimated to be 3,820 psi
 - PDL coefficient: 0.0031-to-0.007 1/psi (**High to Very High PDL**)
- Hydraulic fracture closure was observed during shut-in. It was estimated to be 3,700 psi. Closure Gradient ~ 0.41 psi/ft.
- High Process Zone Stress (PZS) was observed from the DFIT (~ 1,845 psi).
- After-closure pseudolinear flow was observed during shut-in. Pore pressure was determined from after-closure pseudolinear flow analysis.
- Pore Pressure ~ 3,428 psi (0.38 psi/ft)
- After-closure pseudoradial flow was NOT observed during shut-in. Thus, only an UPPER LIMIT for Kh could be provided
- **Kh < 8.77317** md-ft (based on an estimated water viscosity of 0.343 cp at 197 deg F and 3,428 psi)

West Coast Region
 5125 Boylan Street
 Bakersfield, CA 83308
 (661) 325-4138
 Lab Team Leader - Sheila Hernandez
 (432) 495-7240

Water Analysis Report by Baker Petrolite

Company:	WOLVERINE OIL & GAS COMPANY	Sales RDT:	31719
Region:	WESTERN REGION	Account Manager:	ADOLPH CORONA (970) 210-2124
Area:	VERNAL, UT	Sample #:	454308
Lease/Platform:	ARAPIEN VALLEY UNIT	Analysis ID #:	83323
Entity (or well #):	24-1	Analysis Cost:	\$80.00
Formation:	UNKNOWN Navajo 1		
Sample Point:	DEPTH 9,217' - 9,222' Sample taken from pressure vessel		

Summary		Analysis of Sample 454308 @ 75 °F					
Sampling Date:	05/30/08	Anions	mg/l	meq/l	Cations	mg/l	meq/l
Analysis Date:	06/27/08	Chloride:	45414.0	1280.96	Sodium:	28389.3	1234.87
Analyst:	STACEY SMITH	Bicarbonate:	2194.0	35.96	Magnesium:	138.0	11.35
TDS (mg/l or g/m3):	80036.9	Carbonate:	0.0	0.	Calcium:	1399.0	69.81
Density (g/cm3, tonne/m3):	1.06	Sulfate:	1367.0	28.46	Strontium:	45.0	1.03
Anion/Cation Ratio:	1	Phosphate:			Barium:	0.6	0.01
Carbon Dioxide:		Borate:			Iron:	41.0	1.48
Oxygen:		Silicate:			Potassium:	1048.0	26.8
Comments:		Hydrogen Sulfide:			Aluminum:		
RESISTIVITY 0.095 OHM-M @ 75°F		pH at time of sampling:			Chromium:		
		pH at time of analysis:		6.98	Copper:		
		pH used in Calculation:		6.98	Lead:		
					Manganese:	1.000	0.04
					Nickel:		

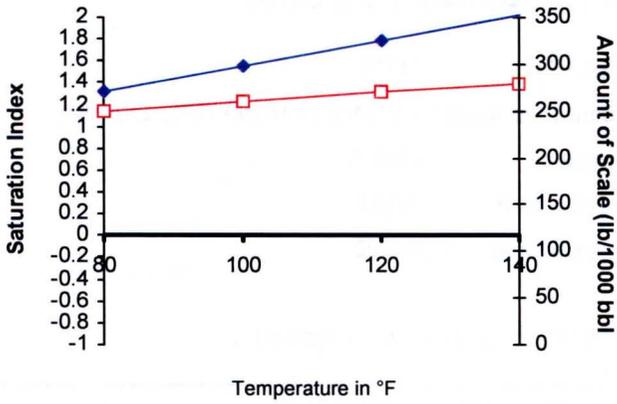
Conditions		Values Calculated at the Given Conditions - Amounts of Scale in lb/1000 bbl										
Temp	Gauge Press.	Calcite CaCO ₃		Gypsum CaSO ₄ *2H ₂ O		Anhydrite CaSO ₄		Celestite SrSO ₄		Barite BaSO ₄		CO ₂ Press
		Index	Amount	Index	Amount	Index	Amount	Index	Amount	Index	Amount	
°F	psi											psi
80	0	1.14	270.90	-0.58	0.00	-0.61	0.00	-0.28	0.00	0.96	0.32	1.94
100	0	1.23	297.15	-0.63	0.00	-0.60	0.00	-0.29	0.00	0.78	0.32	2.57
120	0	1.31	324.04	-0.67	0.00	-0.56	0.00	-0.30	0.00	0.62	0.32	3.33
140	0	1.39	351.26	-0.70	0.00	-0.49	0.00	-0.29	0.00	0.48	0.32	4.23

- Note 1: When assessing the severity of the scale problem, both the saturation index (SI) and amount of scale must be considered.
- Note 2: Precipitation of each scale is considered separately. Total scale will be less than the sum of the amounts of the five scales.
- Note 3: The reported CO₂ pressure is actually the calculated CO₂ fugacity. It is usually nearly the same as the CO₂ partial pressure.

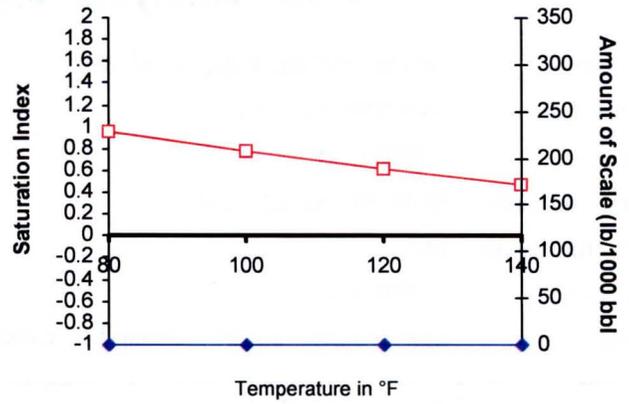
Scale Predictions from Baker Petrolite

Analysis of Sample 454308 @ 75 °F for WOLVERINE OIL & GAS COMPANY, 06/27/08

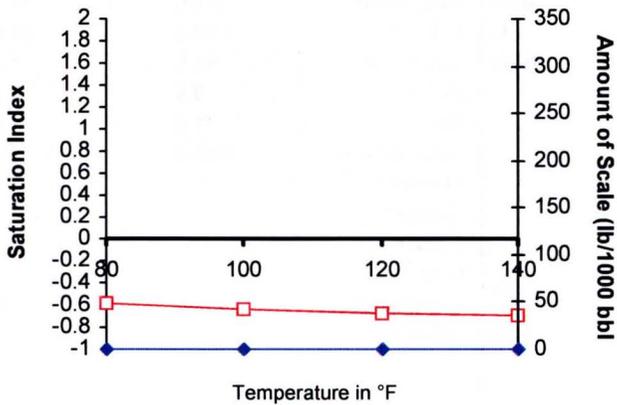
Calcite - CaCO₃



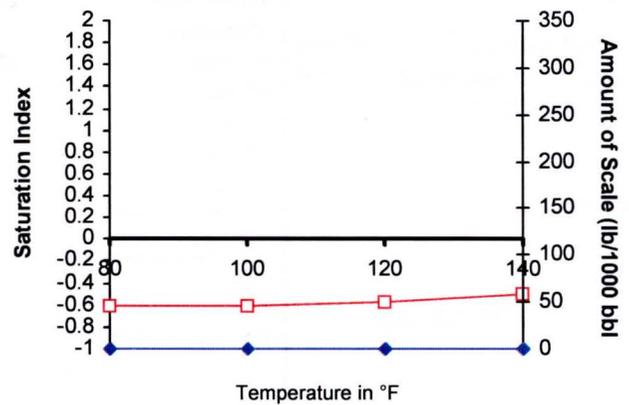
Barite - BaSO₄



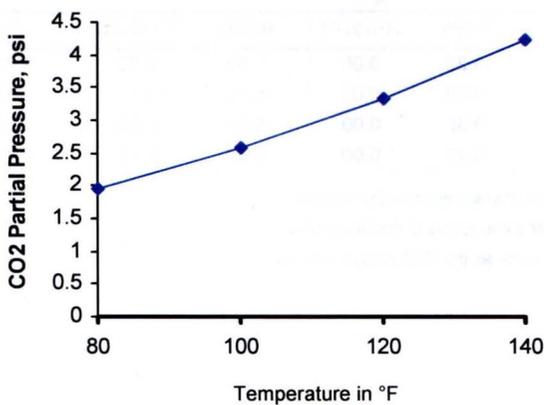
Gypsum - CaSO₄·2H₂O



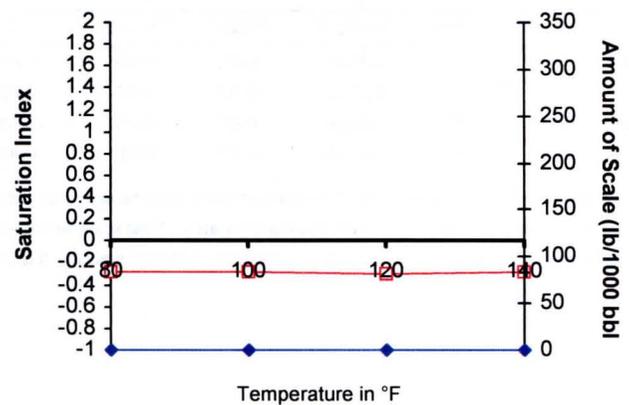
Anhydrite - CaSO₄



Carbon Dioxide Partial Pressure



Celestite - SrSO₄





WOLVERINE GAS AND OIL COMPANY

OF UTAH, LLC

Energy Exploration in Partnership with the Environment

September 24, 2013

Bureau of Land Management
Richfield Field Office
Attn: Mr. Wayne Wetzel
150 East 900 North
Richfield, UT 84701

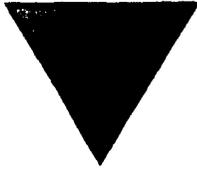
**Re: Copy of the Wolverine Gas and Oil Company of Utah, LLC
Petition to Convert Providence Federal #24-4 to a Produced Gas Injection Well**

Dear Mr. Wetzel:

Please find enclosed a copy of a revised petition to convert this well to a produced gas injection well. Because the federal government owns much of the land near the Providence Federal #24-4 well, Wolverine Gas and Oil Company of Utah, LLC is providing a copy of this filing to the BLM. Please note that no changes have been made to the originally planned scope of work and the only changes in this revised petition were made for purposes of descriptive clarity.

Sincerely,

Ron Meredith
Senior Production Engineer
Wolverine Gas and Oil Corporation



WOLVERINE GAS AND OIL COMPANY

OF UTAH, LLC

Energy Exploration in Partnership with the Environment

September 24, 2013

Farmland Reserve, Inc.
139 E. South Temple, Suite 110
Salt Lake City, UT 84111-1175

**Re: Copy of the Wolverine Gas and Oil Company of Utah, LLC
Petition to Convert Providence Federal #24-4 to a Produced Gas Injection Well**

Farmland Reserve, Inc. Administrators:

As a landowner near the Providence Federal #24-4 well, please find enclosed a copy of the revised petition to convert this well to a produced gas injection well. Again, this notice is provided by the well's operator, Wolverine Gas and Oil Company of Utah, LLC in order to comply with Utah Division of Oil, Gas and Mining (UDOGM) regulations. Please note that no has been no change to the originally planned scope of work and the only changes in this revised petition were made for purposes of descriptive clarity.

Sincerely,

Ron Meredith
Senior Production Engineer
Wolverine Gas and Oil Corporation

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

COPY

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

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

SUBMIT IN TRIPLICATE- Other instructions on reverse side.

1. Type of Well Oil Well Gas Well Other

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

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

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

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)
SHL: 975' FSL, 41' FWL, SW SW Sec 24, T20S, R1E
BHL: (Same)

5. Lease Serial No.
UTU-80907

6. If Indian, Allottee or Tribe Name
NA

7. If Unit or CA/Agreement, Name and/or No.
PA is: UTU-80800B

8. Well Name and No.
Providence Federal 24-4

9. API Well No.
43-039-30040

10. Field and Pool, or Exploratory Area
Providence Field

11. County or Parish, State
Sanpete County, Utah

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

TYPE OF SUBMISSION	TYPE OF ACTION			
<input checked="" type="checkbox"/> Notice of Intent	<input checked="" type="checkbox"/> Acidize	<input checked="" 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 checked="" 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 checked="" type="checkbox"/> Recomplete	<input type="checkbox"/> Other _____
	<input type="checkbox"/> Change Plans	<input type="checkbox"/> Plug and Abandon	<input type="checkbox"/> Temporarily Abandon	
	<input checked="" type="checkbox"/> Convert to Injection	<input type="checkbox"/> Plug Back	<input type="checkbox"/> Water Disposal	

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

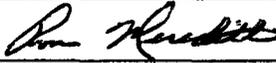
Wolverine Gas and Oil Company of Utah, LLC is planning to workover the Providence Federal 24-4 (PF 24-4) and convert it to a produced gas injection well, for purposes of pressure maintenance and Enhanced Oil Recovery at Providence Field. All production and re-injection will occur within the Navajo 1 Formation. In accordance with UDOGM regulations, a Request for Agency Action has been filed and a formal hearing with the Board of Oil, Gas and Mining has been scheduled for 12/4/13.

Wolverine intends to begin producing the Providence Field with one producer (the Wolverine Federal Arapien Valley 24-1) and re-inject all produced gas into the PF 24-4. PF 24-4 is currently completed in just one interval of the Navajo 1 (9014'-9039'), so to ensure that all produced gas can be re-injected under acceptable operating conditions, Wolverine will add perforations and stimulate. Two cement retainers (at 9046' and 9074') will be drilled out and an existing CIBP at 9114' will become the new PBTB. Another 14' of Navajo 1 perforations will be added, as follows: 9060'-9062'; 9064'-9066'; 9081'-9084'; 9091'-9093'; and 9099'-9104'. Subsequently, all perforations (9014'-9104') will be acidized and fracture stimulated. After installing tubing and a packer (designed for high CO2 gas), the well will be MIT'd. Then upon receiving approval to commence injection, Wolverine will then start production and gas re-injection activities at Providence Field.

Attached is a copy of PF24-4's current and proposed WBD's, an areal map of the Providence Field, and a copy of the filed UDOGM Petition for PF 24-4's conversion to a gas injection well. Well work is expected to begin in March or April of 2014 and take approximately 2 weeks to finish, subject to frac crew availability. No surface disturbance should be required in the well's planned conversion work.

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

Name (Printed/Typed) **Ron Meredith** Title **Sr. Production Engineer**

Signature  Date **10/31/2013**

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 page 2)

RECEIVED

NOV 06 2013

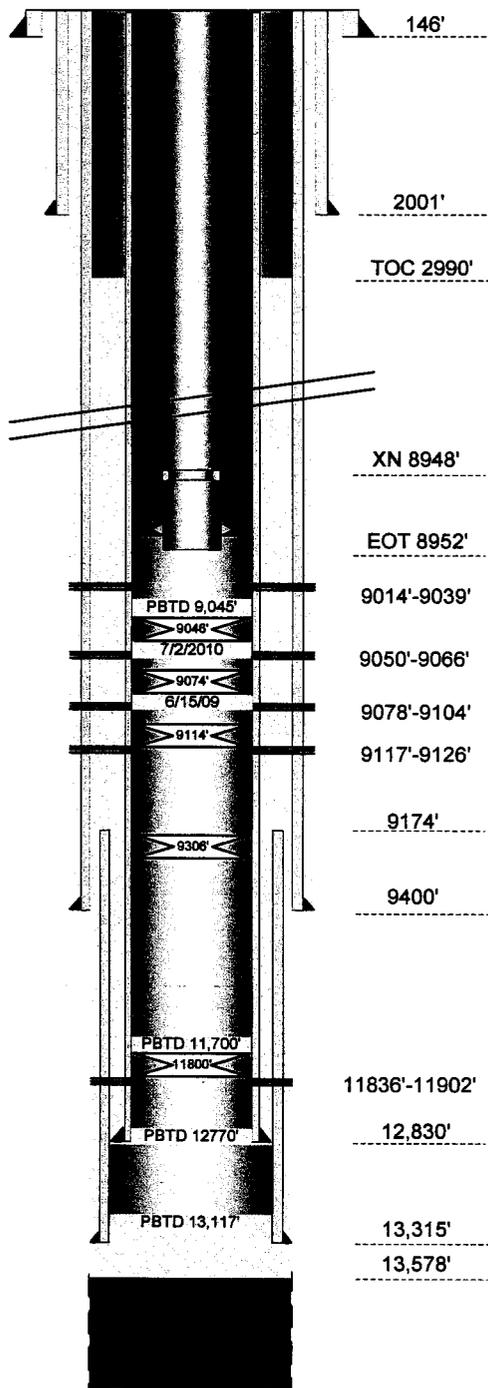
DIV. OF OIL, GAS & MINING



Current WBD

Providence Federal 24-4
 Providence Field
 API # 43-039-30040
 Section 24, T20S, R1E
 Sanpete County, Utah

Ground Elevation: 5491'
 KB Elevation: 5517'



TD = 14250' KB

(Not to Scale)

Vertical Well

Surface and BHL: 975' FSL 41' FWL, SW SW, 24-20S-1E

Conductor Casing (12/1/08)

Size: 24", 0.25" wall in 30" hole
 Depth Landed: 146' KB
 Cement Data: Cemented to surface with 11 yds redi-mix

Surface Casing (1/22/09)

Size/Wt/Grade: 13 3/8", 68#, K-55, BTC in 17-1/2" hole
 Depth Landed: 2001' KB
 Cement Data: 400 sks VeriCem (10.4 ppg, 4.33 cf/sk), 490 sks Class G (15.8 ppg, 1.16 cf/sk), Cemented to surface

Intermediate Casing (2/28/09)

Size/Wt/Grade: 9-5/8", 53.5#, T-95/Mav. HCL-110/L-80, LTC/SLX in 12-1/4" hole
 Depth Landed: 9400' KB
 Cement Data: Stg. 1 - 225 sks 50/50 Poz (14.35 ppg, 1.50 cf/sk)
 Stg. 2 lead - 600 sks Class G (11.5 ppg, 2.58 cf/sk)
 Stg. 2 tail - 965 sks Class G (15.80 ppg, 1.70 cf/sk)

Drilling Liner (4/12/09)

Size/Wt/Grade: 7-5/8", 33.7#, P-110, Vam FJL w/ 9.75' Tie-back
 Length: 4253'
 Depth: 9174'-13,315' KB
 Cement Data: 310 sks BondCem (14.5 ppg, 1.45 cf/sk)

Production Casing (5/09/09)

Size/Wt/Grade: 5-1/2", 20#, L-80, LTC, 8rd
 Properties: 9190 psi burst, 4.653" drift, 4.778" ID, 0.0221 Bbl/ft Capacity
 Depth Landed: 12,830' KB
 Cement Data: 465 sks 65:35 Poz-Premium (11.5 ppg, 3.30 cf/sk)

Navajo1 Perforations

9014' - 9039' MD/TVD, 25', 75 holes (7/06/10)
 9050' - 9066' MD/TVD, 16', 48 holes (7/02/10) - squeezed
 9078' - 9084' MD/TVD, 6', 18 holes (6/15/09) - squeezed
 9092' - 9104' MD/TVD, 12', 36 holes (6/15/09) - squeezed
 9117' - 9126' MD/TVD, 9', 27 holes (6/12/09) - below plugs

Mid-Perf = 9026.5' MD/TVD, 25' TV, 75 holes

Moenkopi Perforations

11,836' - 11,902' MD/TVD, 32', 96 holes (5/30/09)

Tubing (7/09/10)

2-7/8", 6.5#, L-80, EUE, 8rd to 8931' KB MD/TVD, 2.31" XN nipple @ 8937' KB, Arrowset 1X packer at 8945' KB.

PBTD

(7/02/10) 9046' - CIBR with 32 sacks cement squeezed below
 (6/29/09) 9074' - CIBR with 25 sacks cement squeezed below
 (6/15/09) 9114' - CIBP
 (6/11/09) 9306' - CIBP
 (6/10/09) 11,500' - CIBP @ 11,800' w/ 25 sacks on top
 (5/7/09) 13,117' (Estimated) - Added 200' to first cement plug

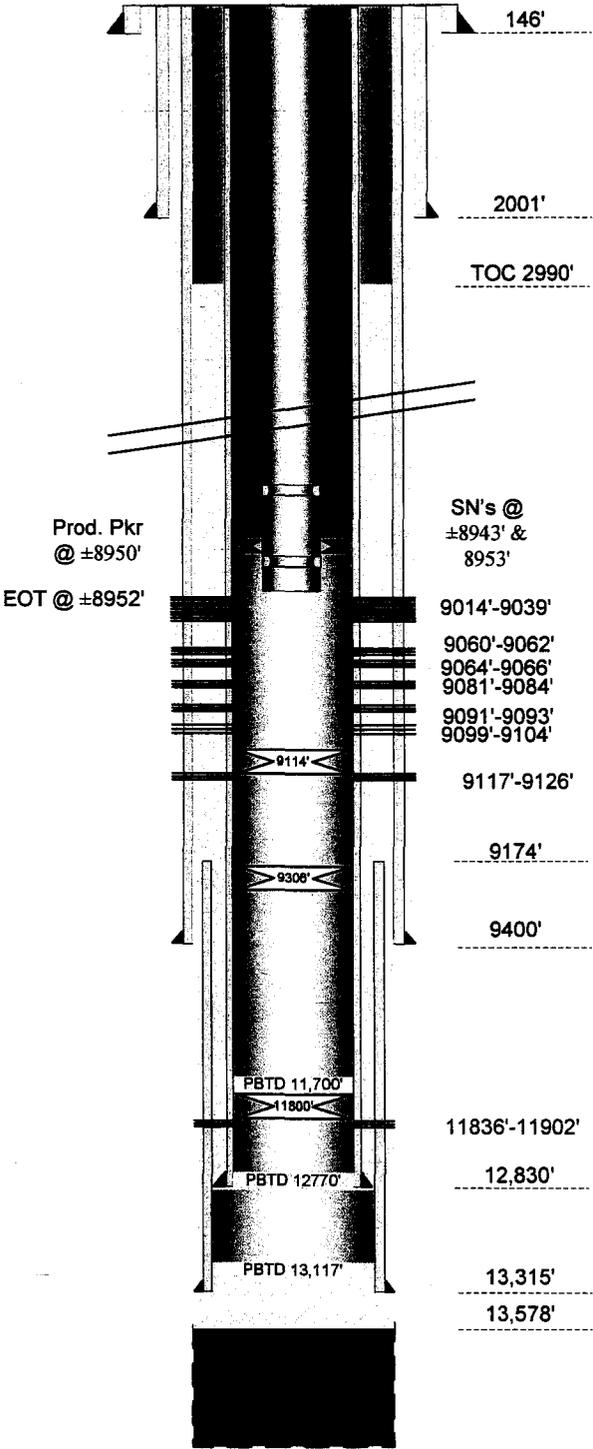


Tentative "Post-Workover" WBD

**Providence Federal 24-4
Providence Field
API # 43-039-30040
Section 24, T20S, R1E
Sanpete County, Utah**

(Not to Scale)

Ground Elevation: 5491'
KB Elevation: 5517'



TD = 14250' KB

Vertical Well

Surface and BHL: 975' FSL 41' FWL, SW SW, 24-20S-1E

Conductor Casing (12/1/08)

Size: 24", 0.25" wall in 30" hole
Depth Landed: 146' KB
Cement Data: Cemented to surface with 11 yds redi-mix

Surface Casing (1/22/09)

Size/Wt/Grade: 13 3/8", 68#, K-55, BTC in 17-1/2" hole
Depth Landed: 2001' KB
Cement Data: 400 sks VeriCem (10.4 ppg, 4.33 cf/sk), 490 sks Class G (15.8 ppg, 1.16 cf/sk), Cemented to surface

Intermediate Casing (2/28/09)

Size/Wt/Grade: 9-5/8", 53.5#, T-95/Mav. HCL-110/L-80, LTC/SLX in 12-1/4" hole
Depth Landed: 9400' KB
Cement Data: Stg. 1 – 225 sks 50/50 Poz (14.35 ppg, 1.50 cf/sk)
Stg. 2 lead – 600 sks Class G (11.5 ppg, 2.58 cf/sk)
Stg. 2 tail – 965 sks Class G (15.80 ppg, 1.70 cf/sk)

Drilling Liner (4/12/09)

Size/Wt/Grade: 7-5/8", 33.7#, P-110, Vam FJL w/ 9.75' Tie-back
Length: 4253'
Depth: 9174'-13,315' KB
Cement Data: 310 sks BondCem (14.5 ppg, 1.45 cf/sk)

Production Casing (5/09/09)

Size/Wt/Grade: 5-1/2", 20#, L-80, LTC, 8rd
Properties: 9190 psi burst, 4.653" drift, 4.778" ID, 0.0221 Bbl/ft Capacity
Depth Landed: 12,830' KB,
Cement Data: 465 sks 65:35 Poz-Premium (11.5 ppg, 3.30 cf/sk)

Navajo1 Perforations

- 9014' – 9039' MD/TVD, 25', 75 holes
- 9060' – 9062' MD/TVD, 2', 12 holes
- 9064' – 9066' MD/TVD, 2', 12 holes
- 9081' – 9084' MD/TVD, 3', 18 holes
- 9091' – 9093' MD/TVD, 2', 12 holes
- 9099' – 9104' MD/TVD, 5', 30 holes
- 9117' – 9126' MD/TVD, 9', 27 holes - PB'd

Mid-Perf = 9059' MD/TVD, 39' Perf'd, 109 holes

Moenkopi Perforations

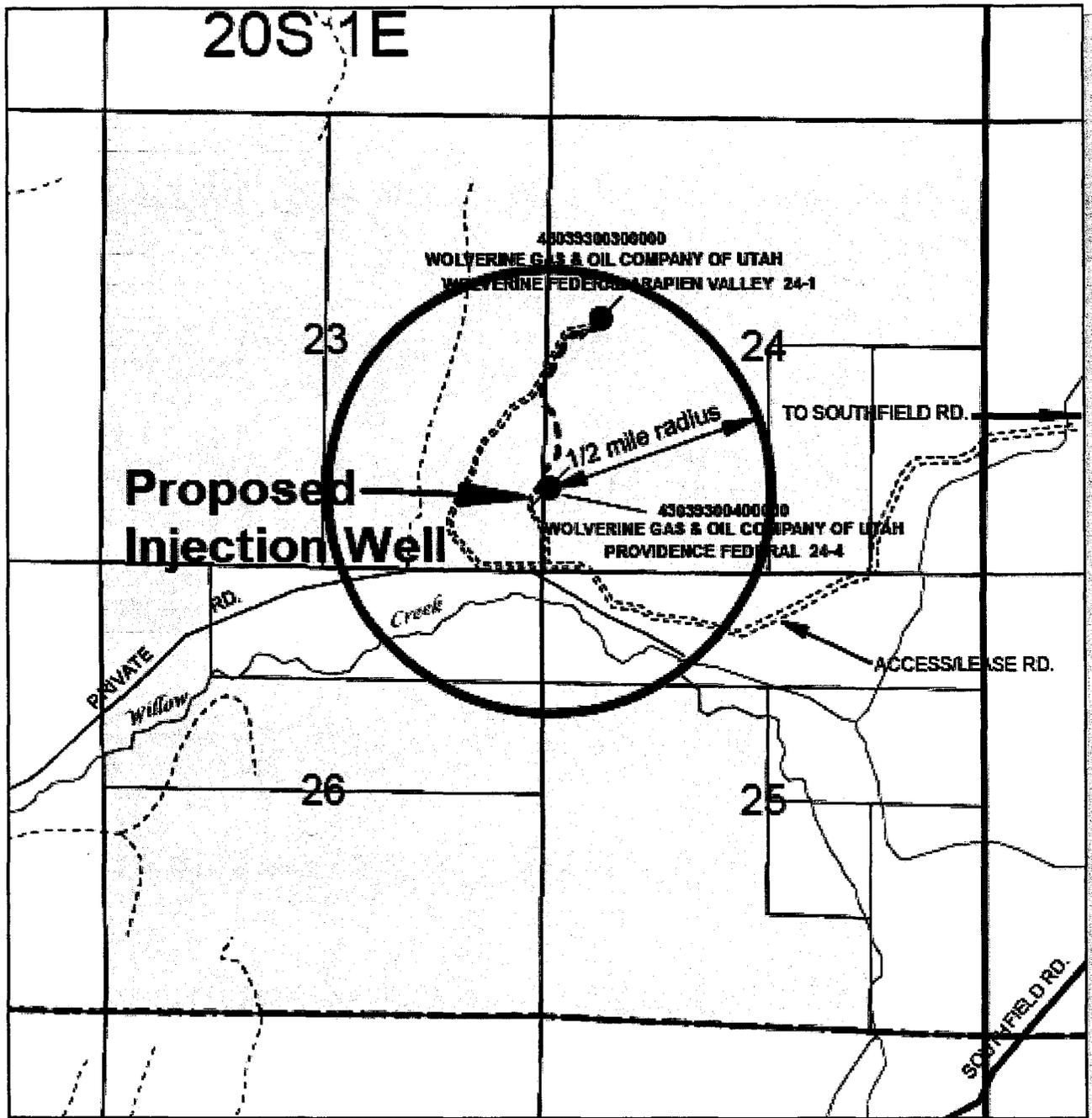
11,836' – 11,902' MD/TVD, 32', 96 holes (5/30/09) PB'd

Anticipated Tubing String (Approx. 4/15/14)

2-7/8", 7#, L-80, 8rd EUE, Fiberglass-lined tubing to Packer @ ±8950' KB MD/TVD, 2.31" X nipple Above and XN nipple Below Pkr

PBTD

- (6/15/09) 9114' – CIBP
- (6/11/09) 9306' – CIBP
- (6/10/09) 11,500' – CIBP @ 11,800' w/ 25 sacks on top
- (5/7/09) 13,117' (Estimated) – Added 200' to first cement plug



WGO LEASES

- Access/Lease Rd.
- County Rd.
- Private Rd.
- Unimproved
- Proposed Pipeline
- FEE/PRIVATE
- BLM

Well Status
 INA-OL

1:24000



	<p>WOLVERINE GAS & OIL Company of Utah LLC 10000000 Energy Department of Petroleum and Minerals 500 E. SOUTHFIELD BLVD SALT LAKE CITY, UTAH 84143-1148</p>
	<p>ATTACHMENT #1 PROPOSED PROVIDENCE FEDERAL 24-4 CONVERSION TO INJECTION WELL</p> <p>SEC. 24, T20S, R1E Wasatch Co., UT</p>
<p>Drawn: 01/14/12</p>	<p>Checked: 02/06/12 Reviewed: 02/06/12 Approved: 02/06/12</p>

FILED

DEC 31 2013

SECRETARY, BOARD OF
OIL, GAS & MINING

**BEFORE THE BOARD OF OIL, GAS AND MINING
DEPARTMENT OF NATURAL RESOURCES
STATE OF UTAH**

IN THE MATTER OF THE REQUEST FOR AGENCY ACTION OF WOLVERINE GAS AND OIL COMPANY OF UTAH, LLC FOR AN ORDER: (1) APPROVING THE CONVERSION OF THE PROVIDENCE FEDERAL 24-4 WELL, LOCATED IN THE SW¹/₄SW¹/₄ OF SECTION 24, TOWNSHIP 20 SOUTH, RANGE 1 EAST, SLM, SANPETE COUNTY, UTAH, TO A CLASS II INJECTION WELL FOR ENHANCED RECOVERY; AND (2) APPROVING AND CERTIFYING THE INITIAL PROVIDENCE PARTICIPATING AREA OF THE WOLVERINE UNIT, COMPRISED OF PORTIONS OF SECTIONS 13 AND 23-26 OF TOWNSHIP 20 SOUTH, RANGE 1 EAST, SLM, SANPETE COUNTY, UTAH, AS AN ENHANCED RECOVERY PROJECT

**FINDINGS OF FACT,
CONCLUSIONS OF LAW AND
ORDER**

Docket No. 2013-037

Cause No. 269-02

This Cause came on for hearing before the Utah Board of Oil, Gas and Mining (the "Board") on Wednesday, December 4, 2013, at approximately 2:35 p.m., in Room 210 of the East (Senate) Building of the Capitol Complex in Salt Lake City. The following Board members were present and participated at the hearing: Chairman Ruland J. Gill, Jr., Kelly L. Payne, Carl F. Kendell, Chris D. Hansen and Susan S. Davis. Board Member Michael R. Brown was unable to attend. The Board was represented by Michael S. Johnson, Esq., Assistant Attorney General.

Testifying on behalf of Petitioner Wolverine Gas and Oil Company of Utah, LLC ("Wolverine") were Sue A. Benson – Land Advisor, Wolverine Gas and Oil Corporation, Thomas W. Zadick – Consulting Reservoir Engineer, and Ronald W. Meredith – Senior

Production Engineer, Wolverine Gas and Oil Corporation. Mr. Zadick and Mr. Meredith were recognized as experts in reservoir engineering and petroleum engineering, respectively, for purposes of this Cause. Frederick M. MacDonald, Esq., of and for MacDonald & Miller Mineral Legal Services, PLLC, appeared as attorney for Wolverine.

The Division of Oil, Gas and Mining (the "Division") did not file a staff memorandum in this Cause but nevertheless participated in the hearing. Douglas Crapo, Esq., Assistant Attorney General, appeared as attorney for, and, with the Board's permission, Dustin Doucet, Petroleum Engineer, asked questions on behalf of the Division. At the conclusion of Wolverine's presentation in-chief, Mr. Crapo expressed that the Division supported the granting of Wolverine's Request for Agency Action dated October 15, 2013 (the "Request"), as conformed to the testimony and other evidence provided at the hearing.

The Utah State Office of the United States Bureau of Land Management ("BLM") filed a letter in support of the granting of the Request on November 25, 2013, but no BLM representative made an appearance at the hearing.

No other party filed a response to the Request and no other party appeared or participated at the hearing.

The Board, having considered the testimony presented and the exhibits received into evidence at the hearing, being fully advised, and for good cause, hereby makes the following findings of fact, conclusions of law and order in this Cause.

FINDINGS OF FACT

1. Wolverine is a Michigan limited liability company with its principal place of business in Grand Rapids, Michigan. Its sole member is Wolverine Gas and Oil Corporation. Wolverine is duly qualified to conduct business in the State of Utah, and is fully and appropriately bonded with all relevant Federal and State of Utah agencies.

2. Wolverine is the operator of the Wolverine Federal Unit. Currently, the Unit is comprised of two separate participating areas: (1) the Seventh Revised Navajo Participating Area, a/k/a the Covenant Participating Area, comprised of 1,100.48 acres in Sevier County; and (2) the Initial Navajo 1 Formation Participating Area, a/k/a Providence Participating Area, approved effective June 10, 2008, the date of first production from the Navajo 1 formation therefrom, comprised of the following lands in Sanpete County:

Township 20 South, Range 1 East, SLM

Section 13: SE¹/₄NE¹/₄SW¹/₄, SE¹/₄SW¹/₄,
SE¹/₄SW¹/₄SW¹/₄, W¹/₂SW¹/₄SE¹/₄
Section 23: E¹/₂SE¹/₄NE¹/₄, E¹/₂E¹/₂SE¹/₄

Section 24: SW¹/₄NW¹/₄NW¹/₄,
E¹/₂NW¹/₄NW¹/₄, SW¹/₄NW¹/₄,
E¹/₂NW¹/₄, W¹/₂NE¹/₄,
W¹/₂SE¹/₄NE¹/₄, SW¹/₄, NW¹/₄SE¹/₄,
NW¹/₄NE¹/₄SE¹/₄, NW¹/₄SW¹/₄SE¹/₄
Section 25: N¹/₂NW¹/₄NW¹/₄, NW¹/₄NE¹/₄NW¹/₄
Section 26: N¹/₂NE¹/₄NE¹/₄

(containing 660 acres).

The Providence Participating Area is hereinafter referred to as the "Project Area."

3. The Navajo 1 formation is defined, for purposes of this Cause, as:

The stratigraphic equivalent of the interval from 8,930 feet MD to 9,811 feet MD as reflected on the Duel Induction Log for the Wolverine Federal Arapien Valley 24-1 Well located in the SW¹/₄NW¹/₄ of Section 24, T20S, R1E, Sanpete County, Utah.

4. The oil and gas underlying the Project Area, as relevant to the Navajo 1 formation, is primarily owned by the United States of America, with the remainder owned in fee. All of the oil and gas is leased to Wolverine Gas and Oil Corporation and its partners, which have designated Wolverine Gas and Oil Corporation as their agent under the terms of the governing Unit Operating Agreement. All production interests within the Project Area are fully committed to the Wolverine Unit and governed by the terms of the Wolverine Unit Agreement, the main body of which was admitted into evidence as Exhibit "E." Operations between the working interest owners are governed by the Wolverine Unit Operating Agreement. Wolverine is the duly designated Operator

of the Wolverine Unit and, in particular, the Project Area. The terms and conditions of the Unit Agreement are deemed fair, reasonable, equitable and protective of correlative rights.

5. There currently are two oil wells located within the Project Area:
 - a) The Wolverine Federal Arapien Valley 24-1 Well (the "24-1 Well") located in the SW $\frac{1}{4}$ NW $\frac{1}{4}$ of subject Section 24 and with current perforated productive intervals between 8,998 feet and 9,020 feet in the Navajo 1 formation; and
 - b) The Providence Federal 24-4 Well (the "24-4" Well) located in the SW $\frac{1}{4}$ SW $\frac{1}{4}$ of subject Section 24 and with current perforated productive intervals between 9,014 feet and 9,039 feet in the Navajo 1 formation.

Both Wells are currently in shut-in status.

6. Wolverine is proposing to convert the 24-4 Well to a Class II injection well to reinject associated gas produced from the 24-1 Well back into the Navajo 1 formation for enhanced recovery purposes for the Project Area.

7. The surface owners within a one-half mile radius of the 24-4 Well are the United States of America and Farmland Reserve, Inc.

8. The mineral owners within a one-half mile radius of the 24-4 Well are the United States of America and certain of the fee owners also owning interests within the Project Area. All of the oil and gas within the one-half mile radius is under lease to

Wolverine Gas and Oil Corporation and its partners. Wolverine is the only operator within a one-half mile radius of the 24-4 Well.

9. There are no other wells, oil and gas, water or otherwise, within a one-half mile radius of the 24-4 Well.

10. Wolverine tested and conducted reservoir modeling analyses to better define the Navajo 1 formation characteristics in and around the Project Area. As supported by the exhibits and testimony received into evidence, the Navajo 1 formation: (1) appears to be a saturated oil reservoir with a small gas cap; (2) has a much lower permeability than originally assumed, indicating moderate depletion in the interior of the reservoir will occur as hydrocarbons are produced; and (3) has an active aquifer that cannot fully support hydrocarbon withdrawals.

11. Said analyses also resulted in Wolverine's conclusion that only two options for development of the Project Area were viable; namely, either: (1) flare an aggregate approximate 2-2.5 MMFCD and produce from both the 24-1 and 24-4 Wells for an approximate ultimate recovery of 702,000 bbls of oil, presuming the Board would authorize such flaring in the first instance; or (2) convert the 24-4 Well to an injection well and reinject the gas produced from the 24-1 Well back into the Navajo 1 formation as an enhanced recovery mechanism for an approximate ultimate recovery of 1,502,000

bbls. After factoring in economics, particularly with respect to facilities and infrastructure, and due to the Board's previously stated policy of disfavoring continuous flaring or venting, Wolverine has decided to pursue the latter.

12. On September 24, 2013, Wolverine submitted an application to convert the 24-4 Well to a Class II injection well for enhanced recovery purposes, with proposed injection intervals between 8,990 feet and 9,139 feet in the Navajo 1 formation, and with an anticipated maximum injection rate of 3 MMSCF/day at a maximum surface pressure of 3,000/psig (the "Application"). The Application was admitted into evidence as Exhibit "J." Other than submission of mechanical integrity test results for the 24-4 Well, the Application is deemed complete and technically sufficient in all respects.

13. The Navajo 1 formation has sufficient confining geologic barriers above and below to prevent migration of reinjected gas. It is not deemed an underground source of drinking water. The proposed pressures will not initiate fracture through overlying strata.

14. Exhibit "L" admitted into evidence and the testimony received with respect thereto reflect the value of the projected incremental production substantially exceeds the costs associated to conducting enhanced recovery operations.

15. The proposed enhanced recovery project is necessary to sustain the viability of the Project Area, is a proper conservation mechanism and can be accomplished without waste.

16. A copy of the Request was mailed, postage pre-paid, certified with return receipt requested, and properly addressed to all surface and mineral owners, "owners" as that term is defined in Utah Code Ann. §40-6-2(17) and Utah Admin. Code Rule R649-1, and operators within a one-half mile radius of the 24-4 Well, all mineral, leasehold and production interest owners in the Project Area, and to the Utah State Office of the BLM, as Wolverine Unit Administrator. The mailings were sent to said parties at their last addresses disclosed by the relevant BLM and Sanpete County realty records.

17. Notice of the filing of the Request and of the hearing thereon was duly published in the Salt Lake Tribune and the Deseret Morning News on November 10, 2013, and in the Sanpete Messenger on November 13, 2013.

18. The vote of the Board members present and participating in the hearing on this Cause was unanimous (5-0) in favor of granting the Request.

CONCLUSIONS OF LAW

1. Due and regular notice of the time, place and purpose of the hearing was properly given to all parties whose legally protected interests are affected by the Request

in the form and manner as required by law and the rules and regulations of the Board and Division.

2. The Board has jurisdiction over all matters covered by the Request and all interested parties therein, and has the power and authority to render the order herein set forth pursuant to Utah Code Ann. §§40-6-5(3)(c), 40-6-5(5), 40-6-7(1) and 59-5-102(7), and Utah Admin. Code Rules R649-3-37 and R649-5-1, *et seq.*

3. The Board takes judicial notice of the record, including the exhibits submitted and testimony received in the hearings held, in Cause No. 269-01 pursuant to Utah Admin. Code §63G-4-206(1)(b)(iv).

4. The Application, subject to submission to the Division of sufficient mechanical integrity test results for the 24-4 Well, is complete and technically sufficient in all respects and satisfies the requirements of Utah Admin. Code R649-5-1, *et seq.* for approval to convert the 24-4 Well to a Class II well for enhanced recovery purposes.

5. The terms and conditions of the Wolverine Unit Agreement are fair, just and equitable and protective of correlative rights. Operations conducted in accordance therewith are in the interest of conservation and will prevent waste.

6. Approval of the Project Area for enhanced recovery purposes is in the public interest, will promote conservation, and will increase ultimate recovery without waste and with protection of correlative rights.

7. The Project Area qualifies as an “Enhanced Recovery Project” for purposes of Utah Code Ann. §59-5-102(7).

8. Wolverine has sustained its burden of proof, demonstrated good cause, and satisfied all legal requirements for the granting of the Request.

ORDER

Based upon the Request, testimony and evidence submitted, and the findings of fact and conclusions of law stated above, the Board hereby orders:

1. The Request in this Cause is granted.
2. Subject to the submission to the Division of sufficient mechanical integrity test results for the 24-4 Well, the Application to convert the 24-4 Well to a Class II injection well for purposes of reinjecting gas for enhanced recovery purposes as submitted is approved. Upon receipt from Wolverine of sufficient mechanical integrity test results for the 24-4 Well, the Division will notify the Board’s secretary of its determination to that effect so that the record in this Cause will be complete, and the Division shall issue the permit to Wolverine without further Board action required.

3. The Project Area, by virtue of the reinjection of associated gas produced from the 24-1 Well from the Navajo 1 formation into the 24-4 Well back into the same formation as a pressure maintenance mechanism for enhanced recovery, is hereby approved and certified as an “Enhanced Recovery Project” in accordance with Utah Code §§40-6-7(1) and 59-5-102(7) and Utah Admin. Code Rule R649-3-37. Operations shall be conducted in accordance with the terms and conditions of the Wolverine Unit and Unit Operating Agreements.

4. Pursuant to Utah Admin. Code Rules R641 and Utah Code Ann. § 63G-4-204 to 208; the Board has considered and decided this matter as a formal adjudication.

5. This Order is based exclusively on evidence of record in the adjudicative proceeding or on facts officially noted as weighed and analyzed by the Board in the exercise of its expertise as set forth in Utah Code Ann. § 40-6-4(2)(a) through (3), and constitutes the signed written order stating the Board’s decision and the reasons for the decision, all as required by the Administrative Procedures Act, Utah Code Ann. § 63G-4-208 and Utah Administrative Code Rule R641-109.

6. Notice re: Right to Seek Judicial Review by the Utah Supreme Court or to Request Board Reconsideration: As required by Utah Code Ann. § 63G-4-208(e) – (g), the Board hereby notifies all parties in interest that they have the right to seek judicial

review of this final Board Order in this formal adjudication by filing a timely appeal with the Utah Supreme Court within 30 days after the date that this Order issued. Utah Code Ann. §§ 63G-4-401(3)(a) and 403. As an alternative to seeking immediate judicial review, and not as a prerequisite to seeking judicial review, the Board also hereby notifies parties that they may elect to request that the Board reconsider this Order, which constitutes a final agency action of the Board. Utah Code Ann. § 63G-4-302, entitled, “Agency Review – Reconsideration,” states:

- (1)(a) Within 20 days after the date that an order is issued for which review by the agency or by a superior agency under Section 63G-4-301 is unavailable, and if the order would otherwise constitute final agency action, any party may file a written request for reconsideration with the agency, stating the specific grounds upon which relief is requested.
- (b) Unless otherwise provided by statute, the filing of the request is not a prerequisite for seeking judicial review of the order.
- (2) The request for reconsideration shall be filed with the agency and one copy shall be sent by mail to each party by the person making the request.
- (3)(a) The agency head, or a person designated for that purpose, shall issue a written order granting the request or denying the request.
- (b) If the agency head or the person designated for that purpose does not issue an order within 20 days after the filing of the request, the request for reconsideration shall be considered to be denied.

Id. The Board also hereby notifies the parties that Utah Admin. Code Rule R641-110-100, which is part of a group of Board rules entitled, “Rehearing and Modification of Existing Orders,” states:

Any person affected by a final order or decision of the Board may file a petition for rehearing. Unless otherwise provided, a petition for rehearing must be filed no later than the 10th day of the month following the date of signing of the final order or decision for which the rehearing is sought. A copy of such petition will be served on each other party to the proceeding no later than the 15th day of the month.

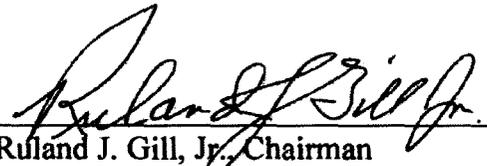
Id. See Utah Admin. Code Rule R641-110-200 for the required contents of a petition for Rehearing. If there is any conflict between the deadline in Utah Code Ann. § 63G-4-302 and the deadline in Utah Admin. Code Rule R641-110-100 for moving to rehear this matter, the Board hereby rules that the later of the two deadlines shall be available to any party moving to rehear this matter. If the Board later denies a timely petition for rehearing, the party may still seek judicial review of the Order by perfecting a timely appeal with the Utah Supreme Court within 30 days thereafter.

The Board retains continuing jurisdiction over all the parties and over the subject matter of this cause, except to the extent said jurisdiction may be divested by the filing of a timely appeal to seek judicial review of this order by the Utah Supreme Court.

For all purposes, the Chairman's signature on a faxed copy of this Order shall be deemed the equivalent of a signed original.

DATED this 31st day of December, 2013

**STATE OF UTAH
BOARD OF OIL, GAS AND MINING**

By: 
Ruland J. Gill, Jr., Chairman

1700.07

CERTIFICATE OF SERVICE

I hereby certify that I caused a true and correct copy of the foregoing **FINDINGS OF FACT, CONCLUSIONS OF LAW AND ORDER** for Docket No. 2013-037, Cause No. 269-02 to be mailed by Email or via First Class Mail with postage prepaid, this 2nd day of January, 2014, to the following:

MacDonald & Miller
Mineral Legal Services, PLLC
Attorneys for Petitioner Wolverine Gas and Oil
Company of Utah, LLC
Frederick M. MacDonald, Esq.
7090 S. Union Park Avenue, Suite 420
Salt Lake City, UT 84047

Newfield Production Company
Attention: Roxann Eveland, Land Lead
1001 17th Street, Suite 2000
Denver, CO 80202

Michael S. Johnson
Assistant Attorney General
Utah Board of Oil, Gas & Mining
1594 West North Temple, Suite 300
Salt Lake City, UT 84116
[Via Email]

Steven F. Alder
Assistant Attorneys General
Utah Division of Oil, Gas & Mining
1594 West North Temple, Suite 300
Salt Lake City, UT 84116
[Via Email]

United States Bureau of Land Management
Richfield Field Office
Attn: Wayne Wetzel, Manager
150 E. 900 North
Richfield, UT 84701

United States Bureau of Land Management
Utah State Office
Attn: Roger L. Bankert
Attn: Michael L. Coulthard
440 W 200 South, Suite 500
Salt Lake City, UT 84101

Chevron U.S.A. Inc.
Attn: Todd Krantz, Land Manager – Mid-
Continent
P.O. Box 2100
Houston, TX 77252-2100

Wolverine Gas and Oil Corporation
One Riverfront Plaza
55 Campau N.W.
Grand Rapids, MI 49503-2616

ORION Resources, LLC
One Riverfront Plaza
55 Campau N.W.
Grand Rapids, MI 49503-2616

Westshore Capital, LLC
One Riverfront Plaza
55 Campau N.W.
Grand Rapids, MI 49503-2616

Billingsley Interests, Ltd.
237 Cape Hatteras Drive
Corpus Christi, TX 78412

Western Land Services, Inc. (Pool A)
1100 Conrad Industrial Drive
Ludington, MI 49431

Susan D. Scott
5969 N. Grace Ave.
Ludington, MI 49431

Todd Stowe
c/o Western Land Services, Inc.
1100 Conrad Industrial Drive
Ludington, MI 49431

HCM Energy Holdings, LLC
2215 York Road, Suite 500
Oak Brook, IL 60523

MTL Energy, LLC
85 Campau N.W.
Grand Rapids, MI 49503

Miller and Miller, Inc.
P.O. Box 348
Traverse City, MI 49685-0348

Penneco Exploration Company, LLC
6608 Rt 22
Delmont, PA 15626-2408
[Address updated 11/8/2013]

John K. Wilson
1100 Conrad Industrial Drive
Ludington, MI 49431

Fred Cisler
PO Box 514
Pentwater, MI 49449
[Address updated 11/8/2013]

Donald Anderson
105 W Danaher St Apt 201
Ludington, MI 49431
[Address updated 11/8/2013]

Capelle Energy, LLC
10195 Hanna Lake Rd SE
Caledonia, MI 49316

Legacy Energy Company LLC
277 S. Rose Street, Suite 3300
Kalamazoo, MI 49007-4722

Jacob Mast
995 Monte Cristo Blvd.
Tierra Verde, FL 33715

Muskegon Development Co.
1425 S. Mission Road
Mt. Pleasant, MI 48858

RD Partners Texas II, LLC
2204 Timberloch Place, Suite 285
The Woodlands, TX 77380

RDP Salina Partners, LLC
2204 Timberloch Place, Suite 285
The Woodlands, TX 77380

Richard D. Verleger, Trustee, or his successor
in trust, under the Richard D. Verleger Living
Trust dated December 9, 1993, and any
amendments thereto
1521 Birch Lane
Weidman, MI 48893
[Undeliverable]

Rock Oil West, LLC
121 East Front Street, Suite 200
Traverse City, MI 49684-2570

Timmus Energy Partners, L.L.C.
P.O. Box 365
Mt. Pleasant, MI 48804-0365

Trendwell Energy Partners, L.L.C.
P.O. Box 560
Rockford, MI 49341

Winn Exploration Co., Inc.
19th Floor, North Tower, 800 N. Shoreline
Blvd.
Corpus Christi, TX 78401

Global Asset Management – Salina, LLC
P.O. Box 158
Grandville, MI 49468-0158

Global Asset Management – Salina 2, LLC
P.O. Box 158
Grandville, MI 49468-0158

Global Asset Management – Salina 3, LLC
P.O. Box 158
Grandville, MI 49468-0158

Global Asset Management – Salina 4, LLC
P.O. Box 158
Grandville, MI 49468-0158

RD Partners Texas III, LLC
2204 Timberloch Place, Suite 285
The Woodlands, TX 77380

Heritage Oil and Gas, LLC
One Riverfront Plaza, 55 Campau N.W.
Grand Rapids, MI 49503

Richard D. and Margaret M. Moritz,
husband and wife
One Riverfront Plaza, 55 Campau N.W.
Grand Rapids, MI 49503

North Ridge Capital, LLC
One Riverfront Plaza, 55 Campau N.W.
Grand Rapids, MI 49503

John P. Vrona
One Riverfront Plaza, 55 Campau N.W.
Grand Rapids, MI 49503

DLI Utah, LLC
1144 Idema S.E.
East Grand Rapids, MI 49506

Utah Salina – Phases II, III & IV, LLC
P.O. Box 85
Gaylord, MI 49734

OXY USA Inc.
Attn: Kent Woolley
5 Greenway Plaza
Houston, TX 77046-0504

Farmland Reserve, Inc.
79 South Main, Suite 1000
Salt Lake City, UT 84111

Nina E. Christiansen
1540 E. 1350 North
Heber City, UT 84032

Clair M. Whitlock, individually and together
with Betty V. Whitlock, as Co-Trustees of the
Clair & Betty Whitlock Trust under Trust
Agreement dated May 1, 1992, and their
substitutes and successors as Trustees thereunder
3250 S. Bridgeport Ln.
Boise, ID 83706-5200

Marilyn W. Crowell, individually and together
with Roscoe H. Crowell, as Trustees of the
Roscoe H. Crowell and Marilyn W. Crowell
Revocable Living Trust U/T/A dated July 6,
2000
1457 Angora Dr.
Gardnerville, NV 89460-8101

Lawrence M. Whitlock
402 Butler St.
Cottonwood, ID 83522

Darlene S. Whitlock, life estate
360 W. Valley View Circle
Woodland Hills, UT 84653

Clark Whitlock a/k/a Loyd Clark Whitlock
1105 E. 50 North
Springville, UT 84663

Parous Energy, LLC
P.O. Box 2547
Madison, MS 39130

Mavis W. Hill
275 San Rafael Place
St. George, UT 84790

Carl Herrin
2 Laurel Cove
Jackson, MS 39211

George C. Rasband
715 E. 1100 N.
Salem, UT 84653

Kenneth C. Whitlock
4241 N. Weston Ave.
Meridian, ID 83646

Kathryn A. Rogers
1329 W. 7200 South
West Jordan, UT 84084

William C. Van Buskirk, Sr.
1137 9th Street
New Orleans, LA 70115

Richard M. Keetch and M. Karen R. Keetch, as
Trustees of the 1993 Keetch Family Trust
dated December 6, 1993
9376 S. Heather Downs Drive
West Jordan, UT 84088

Patricia L. McManus
18938 Tree Top Lane
Flint, TX 75762

James M. Van Buskirk
11214 Decaur Plaza #213
Omaha, NE 68154
[Undeliverable]

Lillian E. Dupaix
887 Serpentine Way
Sandy, UT 84094

Larry H. Whitlock
13313 Nashi Lane
Draper, UT 84020

Lanor D. Whitlock
2661 West 510 North
Hurricane, UT 84737

Sherwood C. Whitlock
P.O. Box 1059
Lehi, UT 84043
[Undeliverable]

David C. Whitlock
1225 North Dixie Downs Road, Trlr # 164
St. George, UT 84770
[Undeliverable]

Melinda W. Sittre
146 Gardena Ave.
Salt Lake City, UT 84115-3816
[Undeliverable]

Anderson Exploration Company
P.O. Box 17397
Salt Lake City, UT 84117

Royalty Watch, Inc.
P.O. Box 486
Freeland, WA 98749
[Undeliverable]

International Petroleum, L.L.C.
4834 South Highland Dr., Suite 200
Salt Lake City, UT 84117

Fife Royalty Fund I, LLC
201 Rue Iberville, Suite 500
Lafayette, LA 70508

Mid South Land Service, Inc.
P.O. Box 766
Montrose, AL 36559-0766

Futura, L.L.C.
3400 Wellborn, Suite 105
Dallas, TX 75219
[Undeliverable]

Oasis Gold, L.L.C.
c/o Mike Houston
106 Hancock Bridge, #535
Cape Coral, FL 33991

Thomas E. Bournias
917 Tomawadee Drive
Park Ridge, IL 60068

The Barrett Family Trust dated July 28, 2000
Charles F. Barrett and Patricia L. Barrett,
Trustees & Trustors
15770 Horizon Way
Prunedale, CA 93907

Kendall Caputo and Rose Andrek
Joint Tenants
11 Crossgate Court West
Palm Coast, FL 32137

Kenneth W. Morris
2121 Haas Road
Apopka, FL 32712

Bernard Caputo
34 Woodcrest Road
Boxford, MA 01921

The Birch Living Trust dated October 25, 2002
15721 Bernardo Heights Parkway, B-409
San Diego, CA 92128
[Undeliverable]

John Paul Shaby
12103 Jefferson Blvd.
Culver City, CA 90230
[Address updated 11/8/2013]

Hongtao Chen Retirement Trust
21009 Seven Springs Parkway
Cupertino, CA 95014

The Howard B. Boreham Revocable Family
Trust
Howard B. Boreham, Trustee
2765 Wrondel Way #1A
Reno, NV 89502
[Undeliverable]

ELSR, L.P.
8080 N. Central Expressway, Suite 1420
Dallas, TX 75206

Red Star Resource Management, L.L.C.
14932 Turnbridge Dr.
Frisco, TX 75035

Adolph H. Smallfield
614 Corcoran Avenue
Vallejo, CA 94589-1840

Nancy B. Duley
40323 E. CR 1315
McCurtain, OK 74944
[Undeliverable]

Travis R. Bard
1535 E. Road 3 South
Chino Valley, AZ 86323

Don Rushing
1701 W. Garden St.
Pensacola, FL 32502

Matthew M. Johnson
24835 Hazelwood West Road
Geneseo, IL 61254

Russell S. Sampson
14534 Glendale Avenue
Prior Lake, MN 55372

Charles F. Road, III and Doris S. Roan Living
Trust dated 12-21-01
N. 1744 E. Valley Park Rd.
Lake Geneva, WI 53147-3900

Charles F. Road, IV Trust dated 07-09-01
Charles F. Roan, IV, Trustee
N. 1744 E. Valley Park Rd.
Lake Geneva, WI 53147-3900

Gary E. Warr
10870 Tahiti
Boise, IDE 83713

Jackson and Erma Hargis Revocable Living
Trust dated 02/09/1982
Jackson Hargis, Trustee
374 Cypress Ave
Sunnyvale, CA 94085
[Address updated 11/29/2013]

Robert E. Weber Irrevocable Trust dated
August 9th, 2004
Robert T. Weber, Trustee
6124 Denton Drive
Dallas, TX 75235

Richard T. Hale
6876 Casey Rd.
Mechanicsburg, OH 43044

Thesken Family Ltd. Partnership #5
Robert L. Thesken, General Partner
4771 Hamilton Rd.
Lebanon, OH 45036

Michael A. Dreifurst
457 Ravine Street
Port Byron, IL 61275

Equity Trust FBO Alan Cowgill IRA
225 Burns Rd.
Elyria, OH 44035

Frederick H.J. and Rita A. Wyen Living Trust
Agreement
2564 Middle Urbana Road
Springfield, OH 45502

George L. Black, Jr. Trust
George L. Black, Jr., Trustee
PO Box 568
Homosassa, FL 34487
[Address updated 11/8/2013]

Michael L. Meyer Living Trust
18101 Von Karman #1050
Irvine, CA 92612
[Undeliverable]

Prior Family Investment Partnership Ltd.
Nigel Prior Acting
4819 Laurel St.
Bellaire, TX 77401

Wescombe Living Trust dated 02/12/1995 by
Gary Wescombe
4100 Newport Place Drive, 3rd Floor
Newport Beach, CA 92705

Thomas E. Shows
150 Tom Shows Road
Seminary, MS 39479

Lawrence Faria and Sandra E. Faria
husband and wife
21527 Lawrence 1075
Monett, MO 65708
[Undeliverable]

Denis M. Desmond Living Trust dated
December 18, 1997
Denis M. Desmond, Trustee
Ellen S. Desmond, Trustee
111 Hidden Valley
Joplin, MO 64804

Barry D. Laughlin
5304 Morris Road
Springfield, OH 45502

James A. Hannon
1140 E. Home Rd.
Springfield, OH 45503

E. Jeffrey Horne
2100 Moorefield Rd.
Springfield, OH 45502

Stephen Lee Gill
860 Wakefield Drive
Houston, TX 77018

James S. Witherell Trust dated 06/17/1997
James S. Witherell, Trustee
701 Foxdale Avenue
Winnetka, IL 60093
[Undeliverable]

Todd Mullen and Jean S. Mullen
husband and wife
1414 Yellow Spring Street
Springfield, OH 45506

Robert G. Claussen
6704 Lone Oak Boulevard
Naples, FL 34109

Donald S. Willett and Andrea L. Willett,
husband and wife
367 Glendale Road
San Mateo, CA 94401

Haymer Morris Family Limited Partnership
Haymer D. Morris, General Partner
298 South Main Street
Cedar City, UT 84720
[Address updated 11/8/2013]

Leonard F. and Claire I. Griffin Trust dated
04/10/1997
P.O. Box 12566
Ft. Huachuca, AZ 85670
[Undeliverable]

Robert E. and Rosalie T. Dettle Living Trust
dated 04/10/1997
Robert E. Dettle, Trustee
1101 Water Street
Santa Cruz, CA 95062

Bernard J. Meinerz Trust #1
Bernard J. Meinerz, Trustee
8725 W. 14th Avenue, Suite 212
Lakewood, CO 80215

Dale N. Thorp
14 Autumn Way
Unionville, CT 06085
[Address updated 12/9/2013]

Ted N. Steffen, Trustee (or his successors)
Under a Trust dated 02/03/2003
2404 Barret Hill Road
Louisville, KY 40205

Gerald Hecker
22 Bennington Drive
East Windsor, NJ 08520

Harold L. Stevens
7900 Milton-Carlisle Rd.
New Carlisle, OH 45344

Rodney F. Svoboda
26101 12th Avenue W.
Illinois City, IL 61259
[Undeliverable]

Peter J. McDermott
1201 33rd Avenue
Moline, IL 61265
[Undeliverable]

J. Scott Aswege
15314 River Road
East Moline, IL 61244

RBC Dain Rauscher Custodian, FBO: Harry
Buehrle IRA, Acct: 1101-1456-6177-1
510 Marquette Ave. M08
Minneapolis, MN 55402

Claude M. Thompson, Jr. Revocable Living
Trust dated 05/21/1996
9122 Delano
Wichita, KS 67212

Nasar Y. (Nick) Khan
3618 Fern Valley Court
Dallas, TX 75287

Samuel E. Dreyfuss Revocable Trust
David Dreyfuss, Trustee
2637 1st Private Road
Flossmoor, IL 60422

Benjamin K. Dreyfuss Trust
David Dreyfuss, Trustee
2637 1st Private Road
Flossmoor, IL 60422

Thomas E. Fenlon
9520 Royal Lane, #104
Dallas, TX 75243
[Undeliverable]

Phillip W. Bowers
2164 Ridge Road
Springfield, OH 45502

John W. Clark
4149 Sintz Road
Springfield, OH 45504

Bambi Fernandez 2004 Trust
1637 Edmonton Avenue
Sunnyvale, CA 94087

Equity Trust Company Custodian FBO Steve
Temple IRA
225 Burns Rd.
Elyria, OH 44035

The Jerome Dreyfuss Living Trust dated
02/20/2001
20022 Tam O'Shanter
Olympia Field, IL 60461

Julie Ann Carter



GARY R. HERBERT
Governor

SPENCER J. COX
Lieutenant Governor

State of Utah

DEPARTMENT OF NATURAL RESOURCES

MICHAEL R. STYLER
Executive Director

Division of Oil, Gas and Mining

JOHN R. BAZA
Division Director

UNDERGROUND INJECTION CONTROL PERMIT Cause No. UIC-417.1

Operator: Wolverine Gas & Oil Company

Well: Providence Federal #24-4

Location: Section 24, Township 20 South, Range 1 East, SLM

County: Sanpete

API No.: 43-039-30040

Well Type: Enhanced Recovery Well

Stipulations of Permit Approval

1. Approval for conversion to Injection Well issued on December 4, 2013.
2. Maximum Allowable Injection Pressure: 3,000 psig
3. Maximum Allowable Injection Rate: (restricted by pressure limitation)
4. Injection Interval: Navajo Sandstone (8,990' – 9,139')
5. A Monthly Injection Report shall be filed as required by R649-8-20.

Approved by:


John Rogers
Associate Director

2/3/2015
Date

JR/AM/js

cc: Bruce Suchomel, Environmental Protection Agency
Sevier County
BLM
Well File

N:\O&G Permits\Injection Permits\Wolverine Gas & Oil Co.

