

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

FORM 3

AMENDED REPORT

APPLICATION FOR PERMIT TO DRILL				1. WELL NAME and NUMBER Kings Meadow Ranches 17-14			
2. TYPE OF WORK DRILL NEW WELL <input checked="" type="checkbox"/> REENTER P&A WELL <input type="checkbox"/> DEEPEN WELL <input type="checkbox"/>				3. FIELD OR WILDCAT COVENANT			
4. TYPE OF WELL Oil Well Coalbed Methane Well: NO				5. UNIT or COMMUNITIZATION AGREEMENT NAME WOLVERINE			
6. NAME OF OPERATOR WOLVERINE GAS & OIL COMPANY OF UTAH, LLC				7. OPERATOR PHONE 435 896-1943			
8. ADDRESS OF OPERATOR 1140 N. Centennial Park Dr., Richfield, UT, 84701				9. OPERATOR E-MAIL ciron@wolvgas.com			
10. MINERAL LEASE NUMBER (FEDERAL, INDIAN, OR STATE) Patented		11. MINERAL OWNERSHIP FEDERAL <input type="checkbox"/> INDIAN <input type="checkbox"/> STATE <input type="checkbox"/> FEE <input checked="" type="checkbox"/>		12. SURFACE OWNERSHIP FEDERAL <input type="checkbox"/> INDIAN <input type="checkbox"/> STATE <input type="checkbox"/> FEE <input checked="" type="checkbox"/>			
13. NAME OF SURFACE OWNER (if box 12 = 'fee') Wolverine Gas and Oil Corporation				14. SURFACE OWNER PHONE (if box 12 = 'fee') 435-896-1943			
15. ADDRESS OF SURFACE OWNER (if box 12 = 'fee') 1140 N Centennial Park Drive, Richfield, UT 84701				16. SURFACE OWNER E-MAIL (if box 12 = 'fee') ciron@wolvgas.com			
17. INDIAN ALLOTTEE OR TRIBE NAME (if box 12 = 'INDIAN')		18. INTEND TO COMMINGLE PRODUCTION FROM MULTIPLE FORMATIONS YES <input type="checkbox"/> (Submit Commingling Application) NO <input checked="" type="checkbox"/>		19. SLANT VERTICAL <input type="checkbox"/> DIRECTIONAL <input checked="" type="checkbox"/> HORIZONTAL <input type="checkbox"/>			
20. LOCATION OF WELL	FOOTAGES	QTR-QTR	SECTION	TOWNSHIP	RANGE	MERIDIAN	
LOCATION AT SURFACE	1851 FNL 1961 FWL	SENW	17	23.0 S	1.0 W	S	
Top of Uppermost Producing Zone	1300 FNL 2230 FWL	NENW	17	23.0 S	1.0 W	S	
At Total Depth	1300 FNL 2230 FWL	NENW	17	23.0 S	1.0 W	S	
21. COUNTY SEVIER		22. DISTANCE TO NEAREST LEASE LINE (Feet) 410		23. NUMBER OF ACRES IN DRILLING UNIT 40			
		25. DISTANCE TO NEAREST WELL IN SAME POOL (Applied For Drilling or Completed) 780		26. PROPOSED DEPTH MD: 6700 TVD: 6640			
27. ELEVATION - GROUND LEVEL 5727		28. BOND NUMBER B001849R		29. SOURCE OF DRILLING WATER / WATER RIGHTS APPROVAL NUMBER IF APPLICABLE 63-2529			

ATTACHMENTS

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

<input checked="" type="checkbox"/> WELL PLAT OR MAP PREPARED BY LICENSED SURVEYOR OR ENGINEER	<input checked="" type="checkbox"/> COMPLETE DRILLING PLAN
<input checked="" type="checkbox"/> AFFIDAVIT OF STATUS OF SURFACE OWNER AGREEMENT (IF FEE SURFACE)	<input type="checkbox"/> FORM 5. IF OPERATOR IS OTHER THAN THE LEASE OWNER
<input checked="" type="checkbox"/> DIRECTIONAL SURVEY PLAN (IF DIRECTIONALLY OR HORIZONTALLY DRILLED)	<input checked="" type="checkbox"/> TOPOGRAPHICAL MAP

NAME Charles Irons	TITLE Senior Landman	PHONE 435 896-1943
SIGNATURE	DATE 06/04/2010	EMAIL ciron@wolvgas.com
API NUMBER ASSIGNED 43041500030000	APPROVAL  Permit Manager	

Proposed Hole, Casing, and Cement						
String	Hole Size	Casing Size	Top (MD)	Bottom (MD)		
Surf	12.25	9.625	0	2000		
Pipe	Grade	Length	Weight			
	Grade J-55 ST&C	2000	36.0			

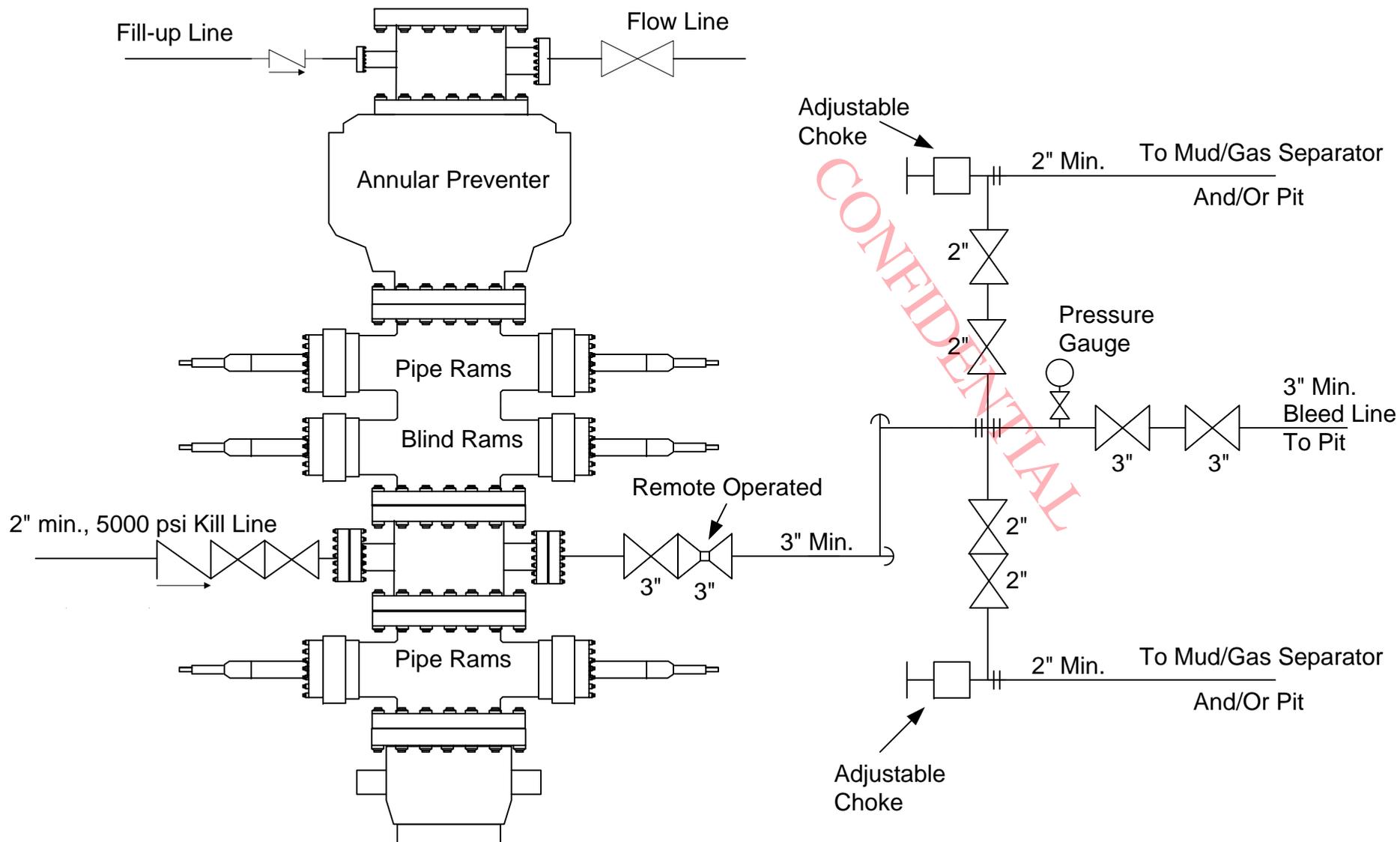
CONFIDENTIAL

Proposed Hole, Casing, and Cement						
String	Hole Size	Casing Size	Top (MD)	Bottom (MD)		
Prod	8.75	7	0	6700		
Pipe	Grade	Length	Weight			
	Grade L-80 LT&C	4000	26.0			
	Grade HCN-80 LT&C	1700	26.0			
	Grade L-80 LT&C	1000	26.0			

CONFIDENTIAL

5k BOPE Schematic

(Not to Scale)



WOLVERINE GAS AND OIL COMPANY OF UTAH, LLC

Energy Exploration in Partnership with the Environment



June 3, 2010

Diana Mason
Permitting—Petroleum Technician
Utah Division of Oil, Gas and Mining
P.O. Box 145801
Salt Lake City, Utah 84114-5801

Re: Application for Permit to Drill (Utah ePermit #2704)
Wolverine Gas and Oil Company of Utah, LLC
Kings Meadow Ranches 17-14
Exception location and directional drilling letter

Dear Mrs. Mason:

Wolverine Gas and Oil Company of Utah, LLC (Wolverine) hereby submits this letter with the following plats, as part of the *Application for Permit to Drill* (APD) for the referenced well:

- R649-3-2 Exception Plat showing proposed BHL in relation to 400'x400' window;
- R649-3-11 Directional Drilling Application Plat showing proposed SHL and BHL.

Kings Meadow Ranches, LLC (Water Right #63-2529) will be the source for water during drilling and completion operations on this proposed well. The surface at the planned drill site is owned in fee by Wolverine.

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.

This letter and the accompanying plats are also intended to serve as an application for directionally drilling the well per R649-3-11. Wolverine is the owner of all oil and gas within 460 feet from all points along the intended wellbore for the well. Information relating to R649-3-11 is as follows:

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

Operator: Wolverine Gas and Oil Company of Utah, LLC

Address: 1140 N Centennial Park Drive
Richfield, Utah 84701

Well: Kings Meadow Ranches 17-14

Field: Covenant Field

Reservoir: Navajo

County: Sevier

Reason: Restrictive topography and to minimize surface impact

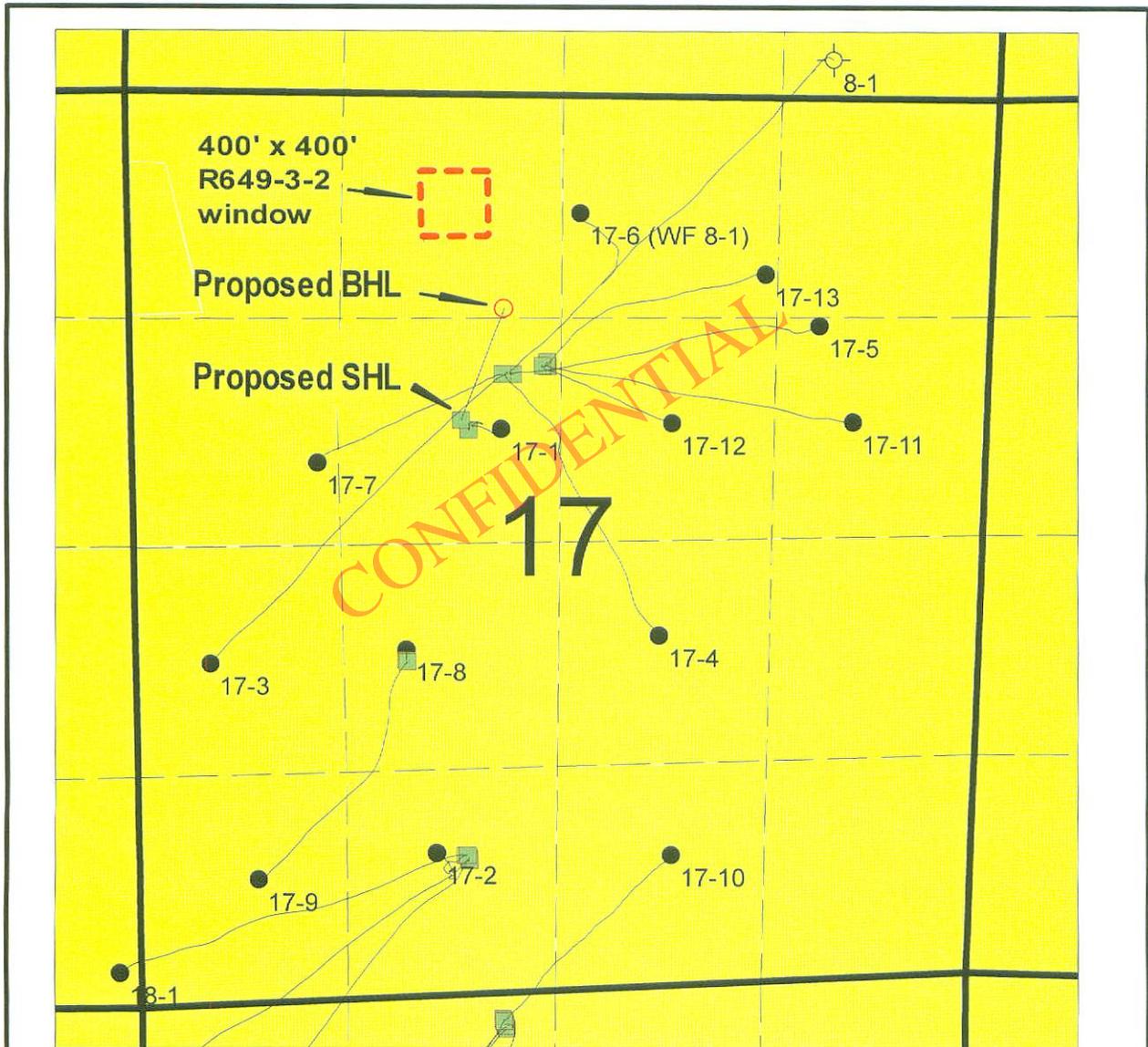
Please accept this letter as Wolverine's written request for confidential treatment of all information contained in and relating to this application and proposed well.

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,



Charlie Irons
Senior Landman

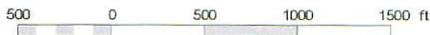


King's Meadow Ranches 17-14 Well Location

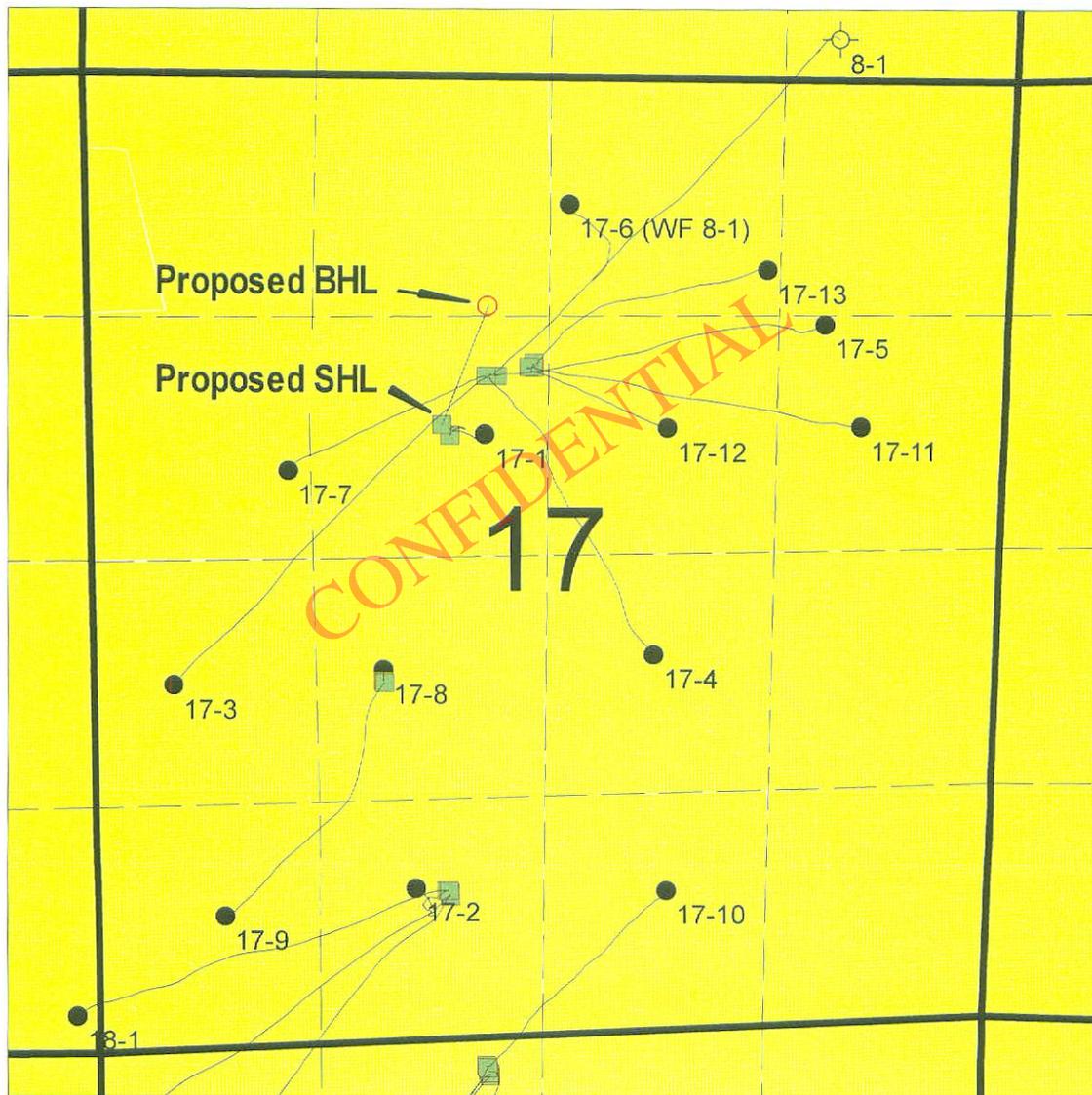
SHL: 1958' FWL, 1971' FNL, SE/4 NW/4, Sec. 17, T23S, R1W, Sevier Co., UT
 BHL: 2230' FWL, 1300' FNL, NE/4 NW/4, Sec. 17, T23S, R1W, Sevier Co., UT

- Wolverine Lease
- Proposed SHL
- Proposed BHL

1:12000
 1 inch = 1000 feet



	<p>WOLVERINE GAS & OIL CORPORATION <i>Energy Exploration in Partnership with the Environment</i></p> <p>ONE RIVERFRONT PLAZA 55 CAMPAU, N.W. GRAND RAPIDS, MI 49503-2616 (616) 458-1150</p>
<p>Exception Location and Ownership Plat (R649-3-2)</p>	
Date: 4/30/2010	Data Source: marks maps/cov/evmnt field development.gmp



King's Meadow Ranches 17-14 Well Location

SHL: 1958' FWL, 1971' FNL, SE/4 NW/4, Sec. 17, T23S, R1W, Sevier Co., UT
 BHL: 2230' FWL, 1300' FNL, NE/4 NW/4, Sec. 17, T23S, R1W, Sevier Co., UT

- Wolverine Lease
- Proposed SHL
- Proposed BHL

1:12000
 1 inch = 1000 feet



	<p>WOLVERINE GAS & OIL CORPORATION <i>Energy Exploration in Partnership with the Environment</i></p> <p>ONE RIVERFRONT PLAZA 55 CAMPAU, N.W. GRAND RAPIDS, MI 49503-2616 (616) 458-1150</p>
<p>Directional Drilling Application Plat (R649-3-11)</p>	
Date: 4/30/2010	Data Source: marks maps/sovemanat field development.gmp

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

Kings Meadow Ranches 17-14

Surface Well Location: 1971' FNL & 1958' FWL, being in SE4/NW4
 Section 17, T23S, R1W, SLB&M
 Sevier County, Utah

Bottom Hole Location: 1300' FNL and 2230' FWL, being in NE4/NW4
 Section 17, T23S, R1W, SLB&M
 Sevier County, Utah

Access Road Location: Across private land owned by Wolverine; previously constructed access to A1 Pad.

State surface use is not required for construction and drilling of the referenced well. Wolverine is the surface owner at the drill pad site and the access road. The bottom hole location is owned in fee by Kings Meadow Ranches, LLC. All subject lands are unitized under the Wolverine Federal Unit.

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

Existing Roads:

The vicinity map included with the APD shows the proposed well location and its proximity to the town of Sigurd, Utah. From Sigurd, travel south on SR 24 approximately 3.4 miles to the existing driveway that accesses Wolverine's property and facilities on the east side of highway. Follow existing access road onto A1 Pad to proposed well.

Access Roads to be Constructed and Reconstructed:

None

Location of Existing Wells within a one-mile radius :

All wells located within a one-mile radius of the proposed well are listed below:

Well	Type	Surface Location *	Bottom Hole Location *
KMR 17-1	Producer-oil	SE4NW4 Section 17	SE4NW4 Section 17
WF 17-2	Producer-oil	SE4SW4 Section 17	SE4SW4 Section 17
WF 17-3	Producer-oil	SE4NW4 Section 17	NW4SW4 Section 17
WF 17-4	Producer-oil	SE4NW4 Section 17	NW4SE4 Section 17
WF 17-5	Producer-oil	SE4NW4 Section 17	SE4NE4 Section 17
WF 17-6	Producer-oil	SE4NW4 Section 17	NW4NE4 Section 17
KMR 17-7	Producer-oil	SE4NW4 Section 17	SW4NW4 Section 17
WF 17-8	Producer-oil	NE4SW4 Section 17	NE4SW4 Section 17
WF 17-9	Producer-oil	NE4SW4 Section 17	SW4SW4 Section 17
WS 17-10	Producer-oil	NE4NW4 Section 20	SW4SE4 Section 17
WF 17-11	Producer-oil	SE4NW4 Section 17	SE4NE4 Section 17

WF 17-12	Producer-oil	SE4NW4 Section 17	SW4NE4 Section 17
WF 17-13	Producer-oil	SE4NW4 Section 17	NW4NE4 Section 17
WF 18-1	Producer-oil	SE4SW4 Section 17	SE4SE4 Section 18
WF 19-1	Producer-oil	SE4SW4 Section 17	NE4NE4 Section 19
WF 19-2	Producer-oil	NE4NW4 Section 20	NE4SE4 Section 19
WF 20-1	Producer-oil	SE4SW4 Section 17	NW4NW4 Section 20
WF 20-2	Producer-oil	NE4NW4 Section 20	SW4NW4 Section 20
WS 20-3	Producer-oil	NE4NW4 Section 20	SE4NW4 Section 20
WF 20-4	Producer-oil	NE4NW4 Section 20	NE4NW4 Section 20
WF 8-1	Dry Hole-plugged	SE4NW4 Section 17	SE4SE4 Section 8
SWD-1	Disposal-active	SW4SW4 Section 8	SW4SW4 Section 8
Water well	Culinary water supply	SW4NE4 Section 20	SW4NE4 Section 20

*All wells are located in T23S-R1W

Location of Planned Wells:

At present there are no planned wells that have approval to be drilled within a one-mile radius of the proposed well.

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

(a) *On well pad* – The existing infrastructure on this location will be utilized in the event drilling is successful. A downhole electric pump will be installed, with monitoring equipment and a chemical tank.

(b) *Off well pad* – In the event production is achieved, produced oil and water would be transported through the existing pipeline system to the nearby treater facility, thence through existing underground pipeline to the Central Production Facility on the west side of Highway 24 for further treatment and marketing.

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

The Operator intends to lease water rights from Kings Meadow Ranches, LLC (Water Right #63-2529), which was the supply for drilling the other Covenant Field wells. Source of water is Kings Meadow Reservoir. Water will be transported by temporary surface-laid poly pipe to the reserve pit from the nearest irrigation riser, as directed by Kings Meadow Ranches. Should additional water sources be pursued they will be properly permitted through the State of Utah – Division of Water Rights. UDOGM will be notified of any changes in water supply.

Construction Materials:

A rig foundation area (60' x 90' x 8') will be excavated, then filled with compacted granular borrow to support the drill rig. Additional gravel may be hauled in as a surface material. The reserve pit (65' x 180') will be excavated to a depth of 12 feet.

Methods for Handling Waste Disposal:

The reserve pit will be used for the disposal of waste mud and drill cuttings. All borehole fluids and salts will be contained in the reserve pit. It will be located in cut material and will be lined with 12 mil minimum thickness plastic nylon reinforced liner material. The liner will overlay a felt liner pad only if sharp rock edges result from excavation. The pit liner will overlap the top of the pit walls and be covered with dirt and/or rocks to hold it in place. No trash, scrap pipe, etc. that could puncture the liner will be disposed of in the pit. Pit walls will be sloped no greater than 2:1. A minimum 2-foot freeboard will be maintained in the pit at all times during the drilling and completion 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.

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.

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:

No ancillary facilities are anticipated at this time.

Well Site Layout:

Pad Location and Layout Drawings in the APD packet show the proposed well site layout including 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 the previously-drilled KMR 17-1 well. The reserve pit will be fenced on three sides during drilling operations and then the fourth side will be immediately fenced when the rig is moved off location.

The pad and road designs would be consistent with UDOGM specifications.

A pre-construction meeting with responsible company representative and contractors will be conducted at the project site prior to commencement of surface-disturbing activities. The pad will be construction-staked (centerline and exterior boundaries) prior to this meeting.

All surface disturbing activities will be supervised by a qualified, responsible company representative who is aware of the terms and conditions of approval from UDOGM under the APD.

Plans for Reclamation of the Surface:

Interim Reclamation: Regardless of the outcome of the well, after drilling the Operator will perform interim reclamation of the site. Interim reclamation will consist of reclamation of the reserve pit and restoration of the well pad to its condition prior to drilling this well. 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 gravel to render it a usable part of the well pad.

Final Reclamation: At such time that all production ceases and all wells located on the A1 Pad have been plugged and abandoned, the Operator will perform final reclamation of the site. Final reclamation will consist of removal of all above-ground equipment and purging all pipelines so as to abandon in place.

Road base material used in the construction of the access road and pad will be removed from the site and disposed in a proper manner. Subsoil from the portions of the well pad that are fill will be distributed in order to reestablish the original slope to the best extent possible. The portions that are cut will be filled to match the original slope of the land to the best extent possible. Any remaining topsoil will then be evenly distributed over the entire impacted area, scarified and seeded in late fall, using a dry land seed mix and methods of seeding described in conditions of approval for similar sites on public land. Final reclamation will take place within 180 days after plugging date of the last well on site, depending on weather, season and other extenuating circumstances.

Surface Ownership:

The surface of the proposed well site and the access road is private land, owned by the Wolverine Gas and Oil Corporation.

Other Information:

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 2006). Permanent structures are defined as being on location for six months or longer. Facilities required to comply with Occupational Safety and Health Act (OSHA) shall be excluded.

Fire suppression equipment will be available to suppress any wildfires caused by construction or drilling related activities. In the event of a wildfire the Richfield Interagency Fire Center (435) 896-8404 will be notified.

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 3rd day of June, 2010.

Signature:

Charlie Irons

Charlie Irons

Position Title:

Senior Landman

Address:

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

Telephone:

435-896-1943

Field representative: (Same as above signatory)

Address:

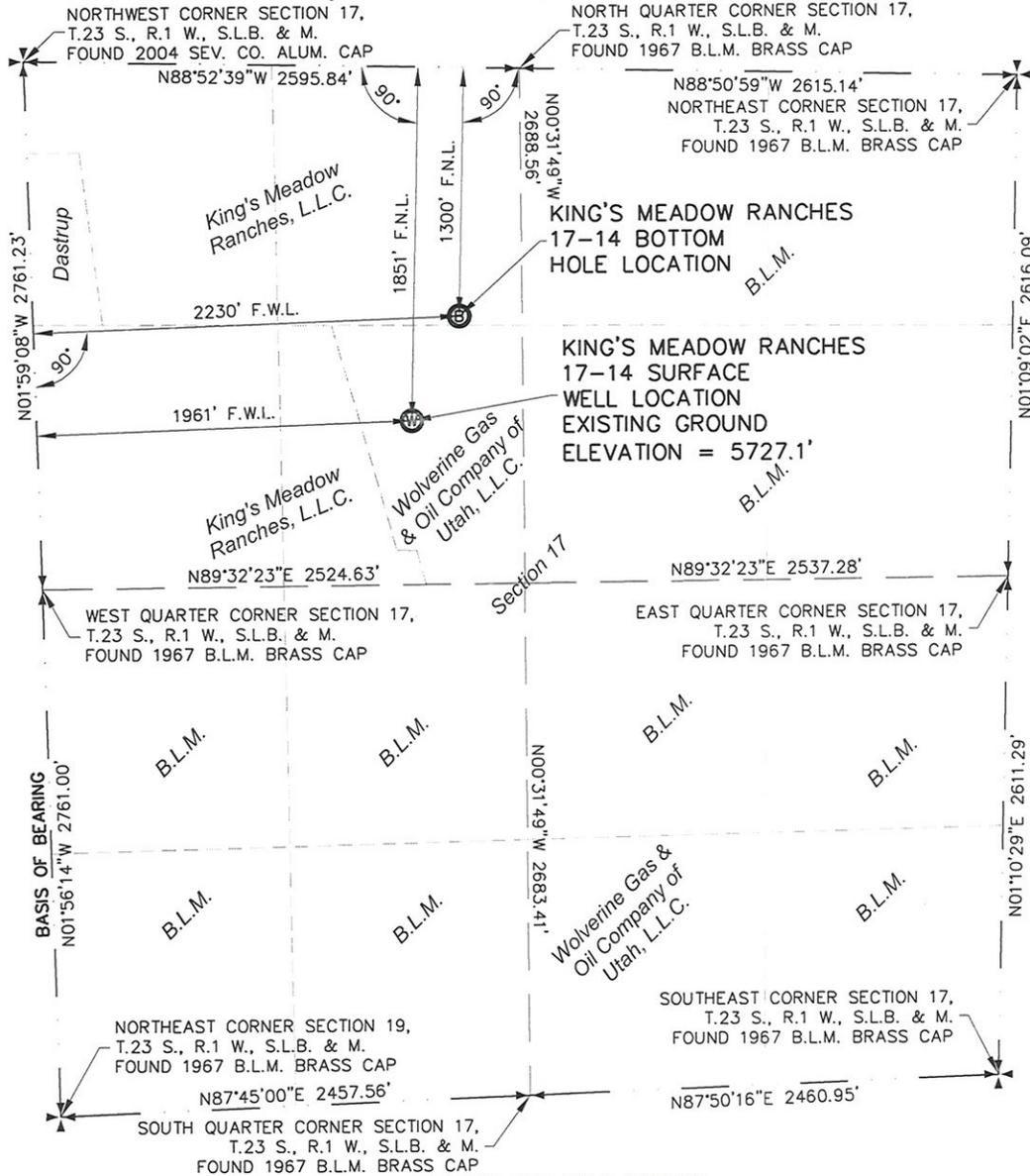
Wolverine Gas and Oil Company of Utah, LLC
1140 N Centennial Park Drive
Richfield, Utah 84701

Telephone:

435-896-1943

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.

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



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

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

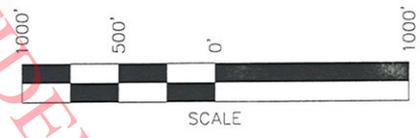
LEGEND

- = SECTION CORNERS (LOCATED)
- = QUARTER SECTION CORNERS (LOCATED)
- = PROPOSED WELL HEAD
- = PROPOSED BOTTOM HOLE LOCATION

NOTE: THE PURPOSE OF THIS SURVEY WAS TO PLAT THE KING'S MEADOW RANCHES 17-14 LOCATION, LOCATED IN THE S.E. 1/4 OF THE N.W. 1/4 OF SECTION 17, T.23 S., R.1 W., S.L.B. & M. SEVIER COUNTY, UTAH.

BASIS OF ELEVATION

ELEVATION BASED ON N.A.V.D. 1988



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.

[Signature]
 TREVOR R. GADD P.L.S. #345839
 08/30/10

Jones & DeMille Engineering, Inc.
 1535 South 100 West Richfield, Utah 84701
 Voice 435.896.8266 Fax 435.896.8268
 1675 South Hwy. 10 Price, Utah 84501
 Voice 435.637.8266 Fax 435.637.8268
 www.jonesanddemille.com

Well Location Plat for

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

DESIGNED -	SURVEYED J.G.C.	CHECKED T.R.G.	DRAWN T.W.G.	PROJECT NO. 0911-018	SHEET NO. 1
DATE 08/27/10		DWG NAME ORIG...	SCALE 1"=1000'		

BASIS OF BEARINGS

BASIS OF BEARING USED WAS N01°56'14"W BETWEEN THE SOUTHWEST CORNER AND THE WEST QUARTER CORNER OF SECTION 17, T.23 S., R.1 W., S.L.B. & M.
 S.H.L. LAT.: 38°48'17.9137" (38.804976028) NAD 83 - UTM ZONE 12N NAD27 N 14092312.879
 S.H.L. LONG.: -111°56'06.0066" (-111.935001833) NAD 83 - UTM ZONE 12N NAD27 E 1374267.93
 B.H.L. LAT.: 38°48'23.3216" (38.806478222) NAD 83- UTM ZONE 12N NAD27 N 14092857.266
 B.H.L. LONG.: -111°56'02.8803" (-111.934133417) NAD 83- UTM ZONE 12N NAD27 E 1374520.916

CONFIDENTIAL

AFFIDAVIT

STATE OF UTAH
COUNTY OF SEVIER

-In the matter of the proposed Kings Meadow Ranches 17-14 well, to be situated on the following described lands in Sevier County, Utah:

Township 23 South-Range 1 West, SLM
Section 17: All of the SE4NW4 lying East of Highway SR24 in Section 17.
Parcel Number 4-181-20.

I, Charlie Irons, a resident of Sevier County, Utah, and an employee of Wolverine Gas and Oil Corporation in its Richfield Field Office, do hereby depose and say that Wolverine Gas and Oil Corporation is the owner of the surface of the above described lands. The operator of the proposed well, Wolverine Gas and Oil Company of Utah, LLC, is wholly owned by Wolverine Gas and Oil Corporation and is authorized to act as operator on said land.

Subscribed and sworn this 30th day of April, 2010

Charlie Irons
Charlie Irons

STATE OF UTAH)
COUNTY OF SEVIER) ss: ACKNOWLEDGMENT

The foregoing instrument was acknowledged before me this 30th day of April, 2010, by Charlie Irons, known to me to be the person whose name is subscribed to the foregoing instrument and acknowledged to me that he executed the same for the purposes therein expressed.

Roy A. Moore, Jr.
Roy A. Moore, Jr., Notary Public





WOLVERINE GAS & OIL COMPANY

Location: UTAH Slot: Slot #09 Kings Meadow Ranches 17-14 1971'FNL & 1958'FWL
 Field: SEVIER COUNTY Well: Kings Meadow Ranches 17-14
 Facility: SEC.17-T23S-R1W Wellbore: Kings Meadow Ranches 17-14 PWB

Plot reference wellpath is Kings Meadow Ranches 17-14 PWP Rev-A.0	
True vertical depths are referenced to Patterson 304 (RT)	Grid System: NAD83 / Lambert Utah State Planes, Central Zone (4302), US feet
Measured depths are referenced to Patterson 304 (RT)	North Reference: True north
Patterson 304 (RT) to Mean Sea Level: 5749.5 feet	Scale: True distance
Mean Sea Level to Mud line (Facility: SEC.17-T23S-R1W): 0 feet	Depths are in feet
Coordinates are in feet referenced to Slot	Created by: thomsuzz on 5/11/2010

Location Information

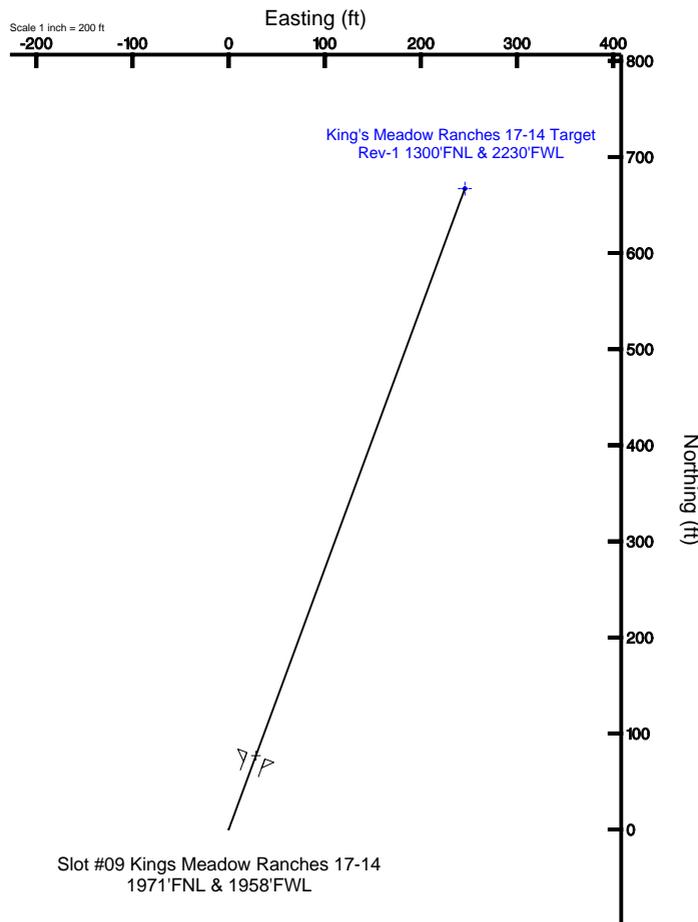
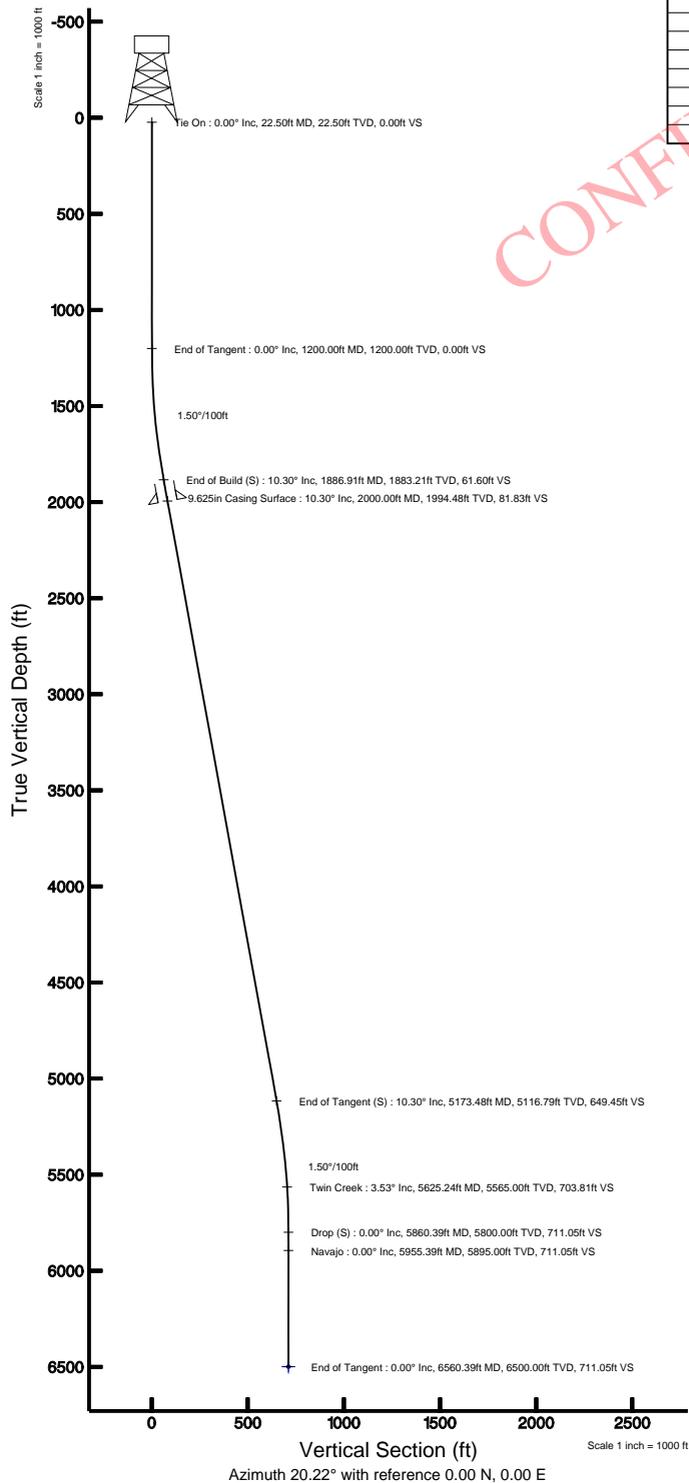
Facility Name	Grid East (USft)	Grid North (USft)	Latitude	Longitude		
SEC.17-T23S-R1W	1516134.368	6732217.324	38°48'02.619"N	111°56'09.781"W		
Slot	Local N (ft)	Local E (ft)	Grid East (USft)	Grid North (USft)	Latitude	Longitude
Slot #09 Kings Meadow Ranches 17-14 1971'FNL & 1958'FWL	1428.56	306.65	1516448.001	6733644.455	38°48'16.739"N	111°56'05.907"W
Patterson 304 (RT) to Mud line (Facility: SEC.17-T23S-R1W)				5749.5ft		
Mean Sea Level to Mud line (Facility: SEC.17-T23S-R1W)				0ft		
Patterson 304 (RT) to Mean Sea Level				5749.5ft		

Targets

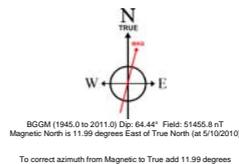
Name	MD (ft)	TVD (ft)	Local N (ft)	Local E (ft)	Grid East (USft)	Grid North (USft)	Latitude	Longitude
King's Meadow Ranches 17-14 Target Rev-1 1300'FNL & 2230'FWL	6500.00	667.22	245.79	1516697.04	6734310.51	38°48'23.335"N	111°56'02.802"W	

Well Profile Data

Design Comment	MD (ft)	Inc (°)	Az (°)	TVD (ft)	Local N (ft)	Local E (ft)	DLS (°/100ft)	VS (ft)
Tie On	22.50	0.000	20.223	22.50	0.00	0.00	0.00	0.00
End of Tangent	1200.00	0.000	20.223	1200.00	0.00	0.00	0.00	0.00
End of Build (S)	1886.91	10.304	20.223	1883.21	57.80	21.29	1.50	61.60
End of Tangent (S)	5173.48	10.304	20.223	5116.79	609.42	224.49	0.00	649.45
Drop (S)	5860.39	0.000	20.223	5800.00	667.22	245.79	1.50	711.05
End of Tangent	6560.39	0.000	20.223	6500.00	667.22	245.79	0.00	711.05



Slot #09 Kings Meadow Ranches 17-14
1971'FNL & 1958'FWL





Planned Wellpath Report

Kings Meadow Ranches 17-14 PWP Rev-A.0

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INTEQ

REFERENCE WELLPATH IDENTIFICATION

Operator	WOLVERINE GAS & OIL COMPANY	Slot	Slot #09 Kings Meadow Ranches 17-14 1971'FNL & 1958'FWL
Area	UTAH	Well	Kings Meadow Ranches 17-14
Field	SEVIER COUNTY	Wellbore	Kings Meadow Ranches 17-14 PWB
Facility	SEC.17-T23S-R1W		

REPORT SETUP INFORMATION

Projection System	NAD83 / Lambert Utah State Planes, Central Zone (4302), US feet	Software System	WellArchitect® 2.0
North Reference	True	User	Thomsuzc
Scale	1.00006	Report Generated	5/11/2010 at 2:18:04 PM
Convergence at slot	0.28° West	Database/Source file	Denver/King_s_Meadow_Ranches_17-14_PWB.xml

WELLPATH LOCATION

	Local coordinates		Grid coordinates		Geographic coordinates	
	North[ft]	East[ft]	Easting[USft]	Northing[USft]	Latitude	Longitude
Slot Location	1428.56	306.65	1516448.00	6733644.46	38°48'16.739"N	111°56'05.907"W
Facility Reference Pt			1516134.37	6732217.32	38°48'02.619"N	111°56'09.781"W
Field Reference Pt			1537057.64	6764184.26	38°53'19.496"N	111°51'47.146"W

WELLPATH DATUM

Calculation method	Minimum curvature	Patterson 304 (RT) to Facility Vertical Datum	5749.50ft
Horizontal Reference Pt	Slot	Patterson 304 (RT) to Mean Sea Level	5749.50ft
Vertical Reference Pt	Patterson 304 (RT)	Facility Vertical Datum to Mud Line (Facility)	0.00ft
MD Reference Pt	Patterson 304 (RT)	Section Origin	N 0.00, E 0.00 ft
Field Vertical Reference	Mean Sea Level	Section Azimuth	20.22°



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REFERENCE WELLPATH IDENTIFICATION			
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Field	SEVIER COUNTY	Wellbore	Kings Meadow Ranches 17-14 PWB
Facility	SEC.17-T23S-R1W		

WELLPATH DATA (72 stations) † = interpolated/extrapolated station

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	DLS [°/100ft]
0.00†	0.000	20.223	0.00	0.00	0.00	0.00	0.00
22.50	0.000	20.223	22.50	0.00	0.00	0.00	0.00
122.50†	0.000	20.223	122.50	0.00	0.00	0.00	0.00
222.50†	0.000	20.223	222.50	0.00	0.00	0.00	0.00
322.50†	0.000	20.223	322.50	0.00	0.00	0.00	0.00
422.50†	0.000	20.223	422.50	0.00	0.00	0.00	0.00
522.50†	0.000	20.223	522.50	0.00	0.00	0.00	0.00
622.50†	0.000	20.223	622.50	0.00	0.00	0.00	0.00
722.50†	0.000	20.223	722.50	0.00	0.00	0.00	0.00
822.50†	0.000	20.223	822.50	0.00	0.00	0.00	0.00
922.50†	0.000	20.223	922.50	0.00	0.00	0.00	0.00
1022.50†	0.000	20.223	1022.50	0.00	0.00	0.00	0.00
1122.50†	0.000	20.223	1122.50	0.00	0.00	0.00	0.00
1200.00	0.000	20.223	1200.00	0.00	0.00	0.00	0.00
1222.50†	0.337	20.223	1222.50	0.07	0.06	0.02	1.50
1322.50†	1.837	20.223	1322.48	1.96	1.84	0.68	1.50
1422.50†	3.337	20.223	1422.37	6.48	6.08	2.24	1.50
1522.50†	4.837	20.223	1522.12	13.61	12.77	4.70	1.50
1622.50†	6.337	20.223	1621.64	23.34	21.90	8.07	1.50
1722.50†	7.837	20.223	1720.87	35.68	33.48	12.33	1.50
1822.50†	9.337	20.223	1819.75	50.61	47.49	17.50	1.50
1886.91	10.304	20.223	1883.21	61.60	57.80	21.29	1.50
1922.50†	10.304	20.223	1918.23	67.96	63.77	23.49	0.00
2022.50†	10.304	20.223	2016.62	85.85	80.56	29.68	0.00
2122.50†	10.304	20.223	2115.00	103.74	97.34	35.86	0.00
2222.50†	10.304	20.223	2213.39	121.62	114.13	42.04	0.00
2322.50†	10.304	20.223	2311.78	139.51	130.91	48.22	0.00
2422.50†	10.304	20.223	2410.17	157.40	147.69	54.41	0.00
2522.50†	10.304	20.223	2508.55	175.28	164.48	60.59	0.00
2622.50†	10.304	20.223	2606.94	193.17	181.26	66.77	0.00
2722.50†	10.304	20.223	2705.33	211.06	198.05	72.96	0.00
2822.50†	10.304	20.223	2803.72	228.94	214.83	79.14	0.00
2922.50†	10.304	20.223	2902.10	246.83	231.61	85.32	0.00
3022.50†	10.304	20.223	3000.49	264.72	248.40	91.50	0.00
3122.50†	10.304	20.223	3098.88	282.60	265.18	97.69	0.00
3222.50†	10.304	20.223	3197.27	300.49	281.96	103.87	0.00
3322.50†	10.304	20.223	3295.65	318.37	298.75	110.05	0.00
3422.50†	10.304	20.223	3394.04	336.26	315.53	116.23	0.00
3522.50†	10.304	20.223	3492.43	354.15	332.32	122.42	0.00
3622.50†	10.304	20.223	3590.81	372.03	349.10	128.60	0.00
3722.50†	10.304	20.223	3689.20	389.92	365.88	134.78	0.00
3822.50†	10.304	20.223	3787.59	407.81	382.67	140.97	0.00
3922.50†	10.304	20.223	3885.98	425.69	399.45	147.15	0.00
4022.50†	10.304	20.223	3984.36	443.58	416.24	153.33	0.00
4122.50†	10.304	20.223	4082.75	461.47	433.02	159.51	0.00



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REFERENCE WELLPATH IDENTIFICATION

Operator	WOLVERINE GAS & OIL COMPANY	Slot	Slot #09 Kings Meadow Ranches 17-14 1971'FNL & 1958'FWL
Area	UTAH	Well	Kings Meadow Ranches 17-14
Field	SEVIER COUNTY	Wellbore	Kings Meadow Ranches 17-14 PWB
Facility	SEC.17-T23S-R1W		

WELLPATH DATA (72 stations) † = interpolated/extrapolated station

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	DLS [°/100ft]
4222.50†	10.304	20.223	4181.14	479.35	449.80	165.70	0.00
4322.50†	10.304	20.223	4279.53	497.24	466.59	171.88	0.00
4422.50†	10.304	20.223	4377.91	515.13	483.37	178.06	0.00
4522.50†	10.304	20.223	4476.30	533.01	500.16	184.25	0.00
4622.50†	10.304	20.223	4574.69	550.90	516.94	190.43	0.00
4722.50†	10.304	20.223	4673.08	568.79	533.72	196.61	0.00
4822.50†	10.304	20.223	4771.46	586.67	550.51	202.79	0.00
4922.50†	10.304	20.223	4869.85	604.56	567.29	208.98	0.00
5022.50†	10.304	20.223	4968.24	622.44	584.08	215.16	0.00
5122.50†	10.304	20.223	5066.63	640.33	600.86	221.34	0.00
5173.48	10.304	20.223	5116.79	649.45	609.42	224.49	0.00
5222.50†	9.568	20.223	5165.07	657.91	617.35	227.42	1.50
5322.50†	8.068	20.223	5263.88	673.24	631.74	232.72	1.50
5422.50†	6.568	20.223	5363.07	685.98	643.69	237.12	1.50
5522.50†	5.068	20.223	5462.55	696.11	653.20	240.62	1.50
5622.50†	3.568	20.223	5562.26	703.64	660.27	243.23	1.50
5722.50†	2.068	20.223	5662.14	708.56	664.88	244.93	1.50
5822.50†	0.568	20.223	5762.11	710.86	667.04	245.72	1.50
5860.39	0.000	20.223	5800.00 ¹	711.05	667.22	245.79	1.50
5922.50†	0.000	20.223	5862.11	711.05	667.22	245.79	0.00
6022.50†	0.000	20.223	5962.11	711.05	667.22	245.79	0.00
6122.50†	0.000	20.223	6062.11	711.05	667.22	245.79	0.00
6222.50†	0.000	20.223	6162.11	711.05	667.22	245.79	0.00
6322.50†	0.000	20.223	6262.11	711.05	667.22	245.79	0.00
6422.50†	0.000	20.223	6362.11	711.05	667.22	245.79	0.00
6522.50†	0.000	20.223	6462.11	711.05	667.22	245.79	0.00
6560.39	0.000	20.223	6500.00	711.05	667.22	245.79	0.00

HOLE & CASING SECTIONS

Ref Wellbore: Kings Meadow Ranches 17-14 PWB Ref Wellpath: Kings Meadow Ranches 17-14 PWP Rev-A.0

String/Diameter	Start MD [ft]	End MD [ft]	Interval [ft]	Start TVD [ft]	End TVD [ft]	Start N/S [ft]	Start E/W [ft]	End N/S [ft]	End E/W [ft]
12.25in Open Hole	22.50	2000.00	1977.50	22.50	1994.48	0.00	0.00	76.78	28.28
9.625in Casing Surface	22.50	2000.00	1977.50	22.50	1994.48	0.00	0.00	76.78	28.28



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REFERENCE WELLPATH IDENTIFICATION

Operator	WOLVERINE GAS & OIL COMPANY	Slot	Slot #09 Kings Meadow Ranches 17-14 1971'FNL & 1958'FWL
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Facility	SEC.17-T23S-R1W		

TARGETS

Name	MD [ft]	TVD [ft]	North [ft]	East [ft]	Grid East [srv ft]	Grid North [srv ft]	Latitude	Longitude	Shape
1) King's Meadow Ranches 17-14 Target Rev-1 1300'FNL & 2230'FWL		6500.00	667.22	245.79	1516697.04	6734310.51	38°48'23.335"N	111°56'02.802"W	point

SURVEY PROGRAM

Ref Wellbore: Kings Meadow Ranches 17-14 PWB		Ref Wellpath: Kings Meadow Ranches 17-14 PWP Rev-A.0		
Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore
22.50	6560.39	NaviTrak (Standard)		Kings Meadow Ranches 17-14 PWB



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REFERENCE WELLPATH IDENTIFICATION			
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Field	SEVIER COUNTY	Wellbore	Kings Meadow Ranches 17-14 PWB
Facility	SEC.17-T23S-R1W		

WELLPATH COMMENTS				
MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Comment
5625.24	3.527	20.223	5565.00	Twin Creek
5955.39	0.000	20.223	5895.00	Navajo

CONFIDENTIAL

WOLVERINE GAS AND OIL COMPANY OF UTAH, LLC

DRILLING PLAN

Kings Meadow Ranches 17-14

SHL: SE/4, NW/4 Section 17, Township 23 South, Range 1 West, S.L.B & M.
BHL: NE/4, NW/4 Section 17, Township 23 South, Range 1 West, S.L.B & M.
Sevier County, Utah

Plan Summary:

It is planned to drill this confidential development well as a directional bore hole due to surface topography constraints and in accordance with the enclosed directional drilling plan. The well will be drilled to a measured depth of 6700' MD (~ 6640' TVD) to encounter the Twin Creek and Navajo formations. Well path deviation caused by subsurface geologic irregularities is expected to be the primary drilling concern in this area. No abnormal pressure is anticipated.

The planned location is as follows:

Surface Location:	1971' FNL, 1958' FWL, Section 17, T23S, R1W, S.L.B. & M.
Bottom Hole Location @ total depth	1300' FNL, 2230' FWL, Section 17, T23S, R1W, S.L.B. & M.

Conductor casing will be set at approximately 120 feet GL and cemented to surface. A 12-1/4" hole will be drilled to approximately 2000' where 9-5/8" casing will be set and cemented to surface. An 8-3/4" hole will be drilled to a projected total depth of 6700' MD, at which the well will be logged and 7" casing will be set and cemented to 1500' (500' inside 9-5/8" casing). The well will be drilled vertically to 1200' kick-off point, build angle at 1.5 deg/100' to a maximum angle of 10.3 degrees. At the ~5173' MD, the wellbore angle will drop to vertical as the well approaches the Twin Creek and Navajo formations.

Drilling activities will commence as soon as possible.

Wolverine Gas and Oil Company of Utah, LLC
 Drilling Program
 Kings Meadow Ranches 17-14

Well Name: Kings Meadow Ranches 17-14

Surface Location: 1971' FNL, 1958' FWL
 SE/4, NW/4 Section 17, T23S, R1W, S.L.B. & M.
 Sevier County, Utah

TD Bottom-Hole Location: 1300' FNL, 2230' FWL
 NE/4, NW/4 Sec. 17 T23S, R1W, Sevier County, UT

Elevations (est): 5727' GL, 5749' KB

I. Geology:

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

<u>Formation</u>	<u>TVD (KB)</u>	<u>MD (KB)</u>	<u>Contents</u>	<u>Pressure Gradient</u>
Arapien	22'	22'		
Twin Creek	5565'	5625'	Oil & water	0.44 psi/ft
Navajo	5895'	5955'	Oil & water	0.44 psi/ft
Total Depth	6640'	6700'		

II. Well Control:

The contracted drilling rig will have a minimum 5M BOP system. BOPE will be in place and tested as a 5M system prior to drilling out the surface casing shoe. See attached schematic of BOPE.

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

Wellhead Equipment (5M Min.):

<u>BOPE Item</u>	<u>Flange Size and Rating</u>
Annular Preventer	11" 2.5M
Double Rams (5" Pipe - top, Blind - bottom)	11" 5M
Drilling Spool w/ 2 side outlets (4" Choke Line, 4" Kill Line)	11 5M x 11" 5M
Single Ram (Pipe)	11" 5M
DSA	
Casing Head (9-5/8" SOW w/ two 2-1/16" SSO's)	11" 5M

Auxiliary Equipment (5M Min.):

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

B. **Choke manifold** will be functionally equipped and sized at a minimum as shown on the attached diagram. All choke lines will be straight lines unless turns have tee blocks or are targeted with running

tees, and all choke lines will be anchored. All valves (except chokes) in the kill line choke manifold and choke line will be full opening and allow straight through flow.

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

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

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

Wolverine Gas and Oil Company of Utah, LLC
 Drilling Program
 Kings Meadow Ranches 17-14

III. Casing and Cementing:

A. Casing Program (all new casing):

Hole Size	Casing Size	Weight	Grade	Connection	Coupling Diameter	Setting Depth
30"	20"		Conductor			120' GL
12.25"	9.625"	36	J-55	STC	10.625"	0' – 2000' DF
8.75"	7.0"	26	L-80	LTC	7.656"	4000' - surf' DF
8.75"	7.0"	26	HCL80	LTC	7.656"	4000' – 5700' DF
8.75"	7.0"	26	L-80	LTC	7.656"	5700' -6700' DF

Casing String Design

1. 16 inch conductor set at 120' G.L.

The 16" casing is used to allow drilling fluid to be diverted into the hole or into the tanks as needed. No design is conducted on the pipe.

2. 9-5/8 inch casing – set at 2000' DF.

Burst: Worst case burst load occurs if the well experiences an influx of gas from 6620 feet TVD. Assume the casing is filled with gas. In that case, assuming a fresh water pore pressure gradient to 6620 ft and a gas gradient equal to 0.1 psi/ft, maximum burst differential pressure would occur at the surface:

$P = 0.433 \times 6620 - 0.1 \times 6620 = 2204$ psi. The selected casing, 9.625" 36#/ft J-55 STC has burst strength of 3520 psi. The burst design factor is: $DF_b = \frac{3520}{2204} = 1.59$; $1.59 > 1.1$, therefore OK.

Collapse: Worst case collapse load occurs if the casing is fully evacuated. Collapse pressure attributed to fresh water pore pressure gradient is: $P = 0.433 \times 2000 = 866$ psi. The selected casing has collapse strength of 2020 psi. The collapse design factor is: $DF_c = \frac{2020}{866} = 2.33 > 1.125$, therefore OK.

Tension: String weight in air is: $T = 36 \times 2000 = 72,000$ lb. Joint strength is 394 kips. The tension design factor in air is: $DF_t = \frac{394000}{72000} = 5.47 > 1.8$, therefore OK.

3. 7- inch casing set at 6700' MD D.F. (6620'TVD)

Burst: Worst case burst load occurs if the well experiences an influx of gas from 6620' TVD. Assume the casing is filled with gas. In that case, assuming a fresh water pore pressure gradient to 6620' TVD ft and a gas gradient equal to 0.1 psi/ft, maximum burst differential pressure would occur at the surface:

$P = 0.433 \times 6620 - 0.1 \times 6620 = 2204$ psi. The selected casing, 7, 26#/ft L-80 LTC has burst strength of 7240 psi. The burst design factor is: $DF_b = \frac{7240}{2204} = 3.28 > 1.1$, therefore OK.

Collapse, fluid considerations: Worst case collapse load occurs if the casing is evacuated. Collapse pressure attributed to fresh water pore pressure gradient is: $P = 0.433 \times 6700 = 2901$ psi. The selected casing has collapse strength of 5410 psi. The collapse design factor is:

$DF_c = \frac{5410}{2901} = 1.86 > 1.125$, therefore OK.

Collapse, salt considerations: The Arapien formation contains salt stringers throughout. The salt stringers, due to creep, can apply unusually high collapse loads to the casing. Wolverine standard design for this area is to design for 1 psi/ft of depth external pressure across the salt sections and with a minimum design factor of 1.00. The maximum salt load would be at the base of the Arapien at ~ 5565' TVD.

- a. Maximum potential salt induced pressure applied to the 26# L-80 occurs at 4000 ft:
 $P = 4000 \times 1 = 4000 \text{ psi}$ (assumes pumped-off condition so no fluid back up inside casing). 7" 26# L-80 has collapse strength of 5410 psi. The collapse design factor across from salts in the L-80 casing is: $DF_c = \frac{5410}{4000} = 1.35 > 1.000$, therefore OK.
- b. Maximum potential salt induced pressure applied to 26# HCL-80 occurs at base of Arapien at ~ 5565' TVD: $P = 5565 \times 1 = 5565 \text{ psi}$ (assumes pumped-off condition so no fluid back up inside casing). 7" 26# HCL-80 has collapse strength of 7800 psi. The collapse design factor across from salts in the HCL-80 casing is: $DF_c = \frac{7800}{5565} = 1.40 > 1.000$, therefore OK.

Tension: String weight in air is: $T = 26 \times 6600 = 171,600 \text{ lb}$. Joint strength is 519 kips. The tension design factor in air is: $DF_T = \frac{519000}{171600} = 3.02 > 1.8$, therefore OK.

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.

Wolverine Gas and Oil Company of Utah, LLC
 Drilling Program
 Kings Meadow Ranches 17-14

B. Cementing Program

<u>Casing Size</u>	<u>Cement Slurry</u>	<u>Quantity (sks)</u>	<u>Density (ppg)</u>	<u>Yield (ft³/sk)</u>
9.625"	Lead: Lite System	200	10.0	3.39
	Tail: Premium Plus	210	15.6	1.19
7.00"	Lead: Light Standard	650	14.4	1.26
	Tail: Class G Blend	220	15.8	1.53

9-5/8" Surface Casing:

9-5/8" casing will be cemented from setting depth (2000' MD DF) to surface in a single stage using the following mix. 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. Cement volumes are based on 50% excess in the openhole, 1500 feet of 10 ppg lead cement from surface to 1500 feet and 500 feet of 15.6 ppg tail cement from 1500 to 2000 feet.

Cement: Lead: 200 sacks Light System, 10 ppg, 3.39 cf/sx Yield

Tail: 210 sacks Premium, 15.6 ppg, 1.19 cf/sx Yield

7" Production Casing:

7" casing will be cemented from setting depth (6700 MD) to surface in a single stage using the following mix. Hardware will include a guide shoe, two shoe joints, float collar, top plug, and a minimum of one centralizer per joint on the bottom three (3) casing joints. Water or other pre-flush fluid pumped ahead of the slurry will separate cement from the drilling fluids. Cement volumes are based on 25% excess in the openhole, 5000 feet of 14.4 ppg lead cement from surface to 5000 and 1700 feet of 15.8 ppg tail cement from 6700 to 5000 feet.

Cement: Lead 650 Light Standard, 14.4 ppg, 1.26 cf/sx Yield

Tail: 220 sacks Class G neat cement blend, 15.8 ppg, 1.53 cf/sx Yield

Notes:

- a. Final casing cement volumes will be adjusted when open-hole caliper logs obtained.
- b. Expected static BHT at 6700' MD (6640' TVD) is ~ 190 deg. F.
- c. Final cement slurry mix could be adjusted based vendor recommendation or vendor actually used for job. Cementing company has not been selected yet for this well.

Wolverine Gas and Oil Company of Utah, LLC
Drilling Program
Kings Meadow Ranches 17-14

- d. The BLM will be notified at least twenty-four hours prior to running and cementing the surface and production casing strings.
- e. 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.
- f. Adequate time will be allowed before drilling out for the cement at the casing shoe to achieve a minimum 500-psi compressive strength.
- g. All casing strings will be tested to 1500 psi, but not exceeding 80% of burst, before drilling out and if pressure declines by more than 10 percent in 30 minutes, corrective action will be taken.
- h. 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.

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 Drilling Program
 Kings Meadow Ranches 17-14

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 – 9.2	Fresh Water	26 – 50	N/C to 12 cc
2000' - 6700	10.2 – 10.5	Salt Mud	36 – 50	< 8 cc

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

V. Evaluation:

- A. Mud Log: A mud logging unit will be in operation from a depth of approximately 1000 feet to TD. Samples will be caught, cleaned, bagged, and marked as required.
- B. Drill Stem Tests: There is no DST planned.
- C. Coring: There are no whole cores planned. Sidewall cores may be taken in conjunction with 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 include, at a minimum, resistivity, gamma ray, neutron/density log and caliper.

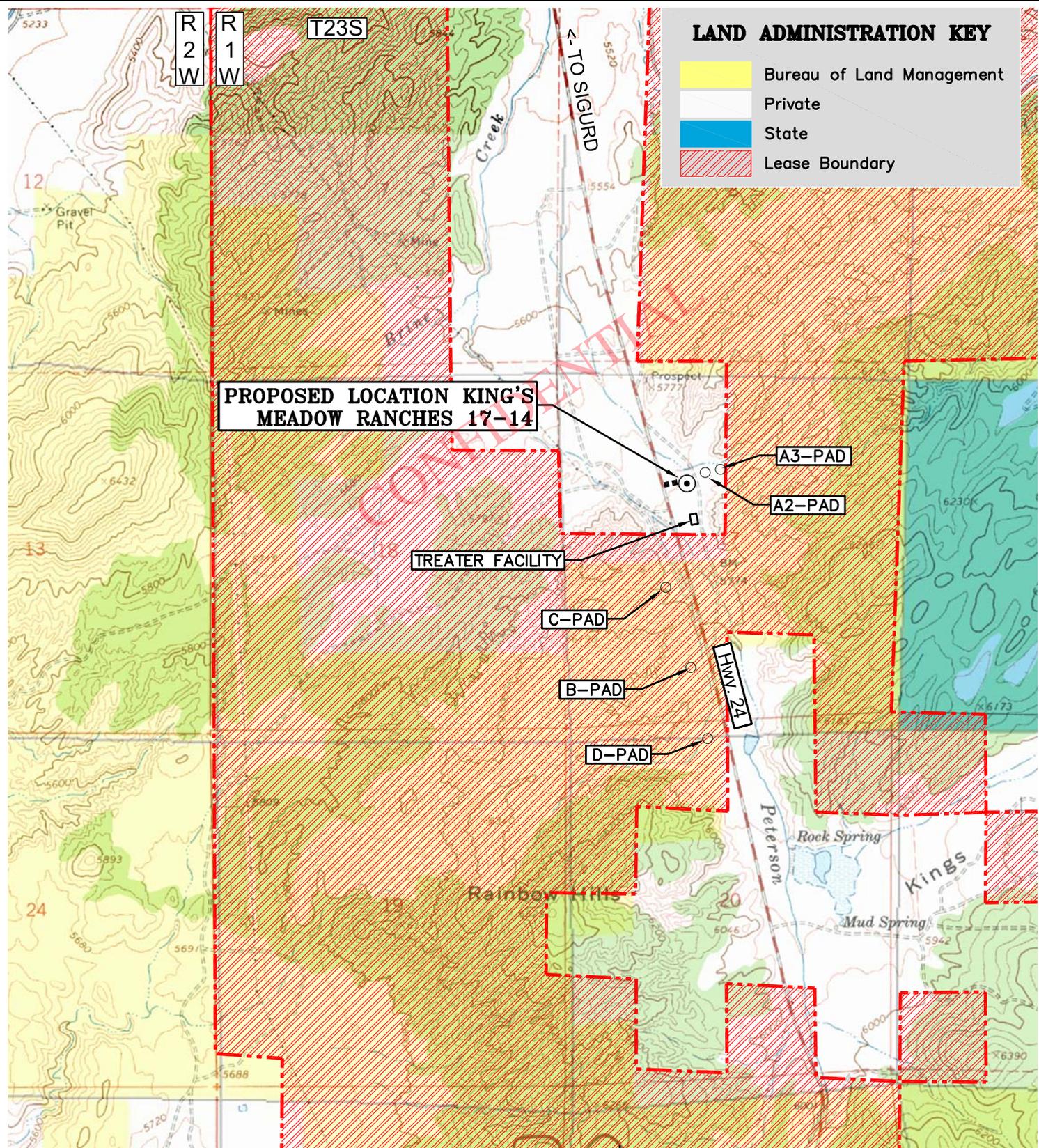
VI. Expected Bottom-Hole Pressure and Abnormal Conditions:

- A. Hydrogen Sulfide: Hydrogen Sulfide (H₂S) gas is not expected in the geologic formations to be penetrated by this well.
- B. Pressure: No abnormally pressured zones are expected in this well. The pressure gradient for all potentially productive formations is expected to be approximately 0.44psi/ft.
- C. Temperature: Bottom-hole temperature at TD is expected to be approximately 190 deg. F.

Wolverine Gas and Oil Company of Utah, LLC
Drilling Program
Kings Meadow Ranches 17-14

end

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PROPOSED LOCATION KING'S MEADOW RANCHES 17-14

LAND ADMINISTRATION KEY

- Bureau of Land Management
- Private
- State
- Lease Boundary

LEGEND

- PROPOSED LOCATION
- EXISTING ROAD

King's Meadow Ranches 17-14
Section 17, T.23 S., R.1 W., S.L.B. & M.
1961' FWL 1851' FNL

Wolverine Gas & Oil Co. of Utah, LLC

King's Meadow Ranches 17-14

Vicinity Map



Jones & DeMille Engineering, Inc.

1535 South 100 West 248 East Main
 Richfield, Utah 84701 Price, Utah 84501
 Voice 435.896.8266 Voice 435.637.8266
 Fax 435.896.8268 Fax 435.637.8268

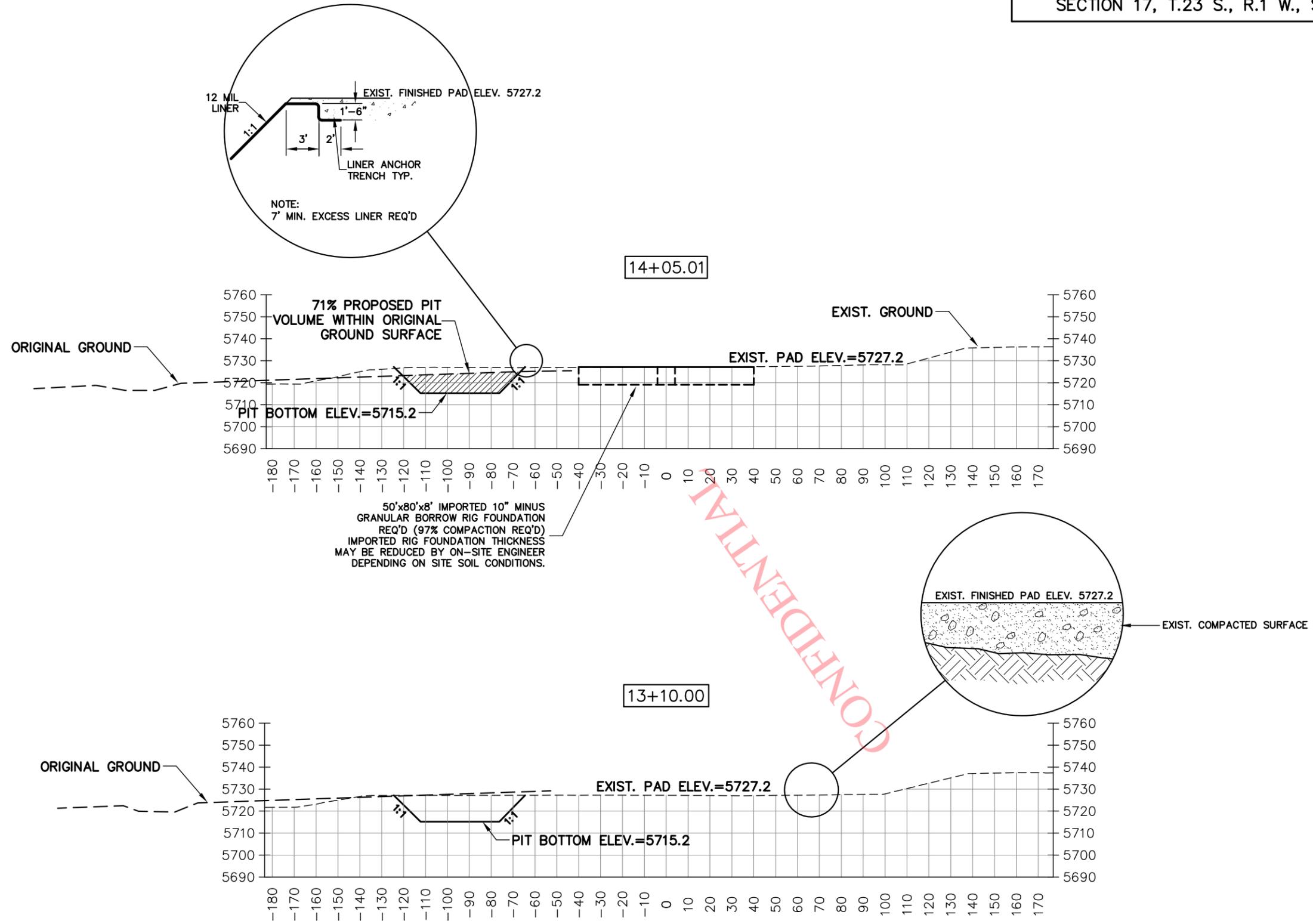
www.jonesanddemille.com



SCALE: 1"=2000'

DRAWN: L.G. 04-2010	PEN TBL: _1stndrd-hp2600.ctb	PROJECT: 0911-018	SHEET: 1
CHECK: D.R. 04-2010	FILE: VICINITY	LAST UPDATE: 8/23/2010	

Wolverine Gas & Oil Co. of Utah, L.L.C.
CROSS SECTIONS FOR
KING'S MEADOW RANCHES 17-14
SECTION 17, T.23 S., R.1 W., S.L.B.& M.



NO.	DATE	REVISIONS

DESIGN:	CHECK:	REVIEW:
DRAWN: L.G. 04-10	CHECK:	DATE:
QUANT:	CHECK:	BY:

APPROVAL RECOMM:	DATE:	PROJECT DESIGN ENGINEER
APPROVED:	DATE:	

Wolverine Gas & Oil Co. of Utah, LLC
 KING'S MEADOW RANCHES 17-14
 CROSS SECTIONS
 PROJECT NUMBER: 0911-018
 COUNTY: SEVIER
 SHEET NO. CS-01

Jones & DeMille Engineering, Inc.
 CIVIL ENGINEERING-SURVEYING-TESTING
 Richfield & Price Utah
 www.jonesanddemille.com

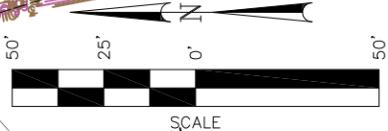
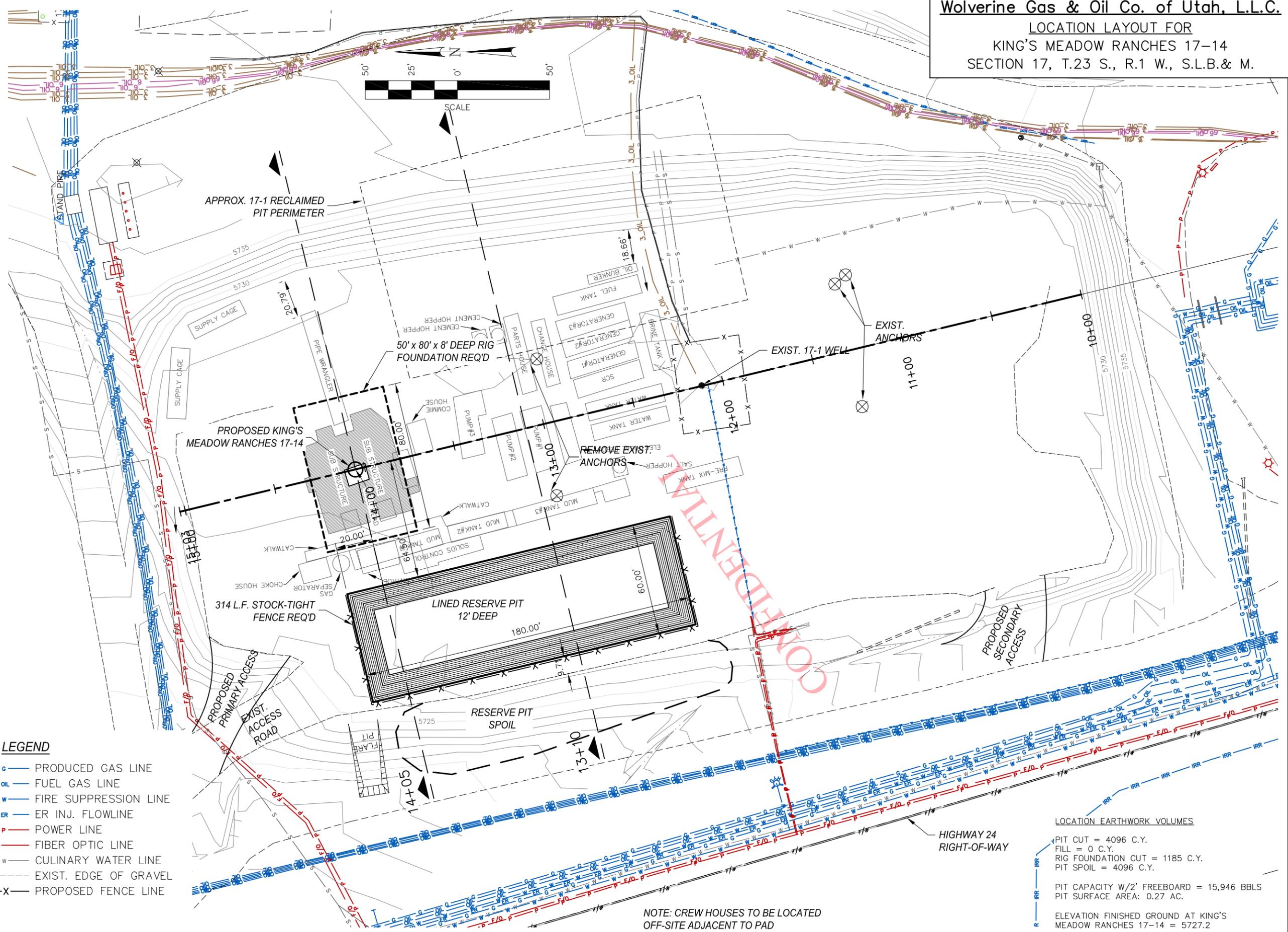
SCALE: 1"=50'
 DWG NAME: APAD
 SHF SET: KING'S MEADOW
 DWG CREATED: 04/23/2010
 PEN TBL: _14nrcdr2800.cdb
 LAST UPDATE: 8/26/2010

'APIWellNo:43041500030000'

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'APIWellNo:43041500030000'

Wolverine Gas & Oil Co. of Utah, L.L.C. LOCATION LAYOUT FOR KING'S MEADOW RANCHES 17-14 SECTION 17, T.23 S., R.1 W., S.L.B.& M.



- LEGEND**
- G — G — PRODUCED GAS LINE
 - OF — OF — FUEL GAS LINE
 - W — W — FIRE SUPPRESSION LINE
 - ER — ER — ER INJ. FLOWLINE
 - P — P — POWER LINE
 - F/O — F/O — FIBER OPTIC LINE
 - w — CULINARY WATER LINE
 - - - - - EXIST. EDGE OF GRAVEL
 - X — X — PROPOSED FENCE LINE

LOCATION EARTHWORK VOLUMES

PIT CUT = 4096 C.Y.
 FILL = 0 C.Y.
 RIG FOUNDATION CUT = 1185 C.Y.
 PIT SPOIL = 4096 C.Y.

PIT CAPACITY W/2' FREEBOARD = 15,946 BBLS
 PIT SURFACE AREA: 0.27 AC.

ELEVATION FINISHED GROUND AT KING'S MEADOW RANCHES 17-14 = 5727.2

NOTE: CREW HOUSES TO BE LOCATED OFF-SITE ADJACENT TO PAD

Wolverine Gas & Oil Co. of Utah, LLC KING'S MEADOW RANCHES 17-14		Jones & DeMille Engineering, Inc. CIVIL ENGINEERING-SURVEYING-TESTING Richfield & Price Utah www.jonesanddemille.com	
SITE PLAN		PROJECT DESIGN/ENGINEER DATE: _____	REVIEW DATE: _____
PROJECT NUMBER: 0911-018	DESIGN: L.G. 11-09	CHECK: D.R. 11-09	REVISIONS NO. DATE REVISIONS FOR AUTHORIZATION
SHEET NO. SP-01	COUNTY: SEVIER	QUANT.: _____	ORIGINAL SUBMISSION FOR AUTHORIZATION DWG NAME: APAD SHT SET: KING'S MEADOW SCALE: 1"=50'
DWG CREATED: 11/18/2009 LAST UPDATE: 8/26/2010		PEN TBL: _____ DWG TBL: _____	



Search all of Utah.gov »

Utah Division of Water Rights



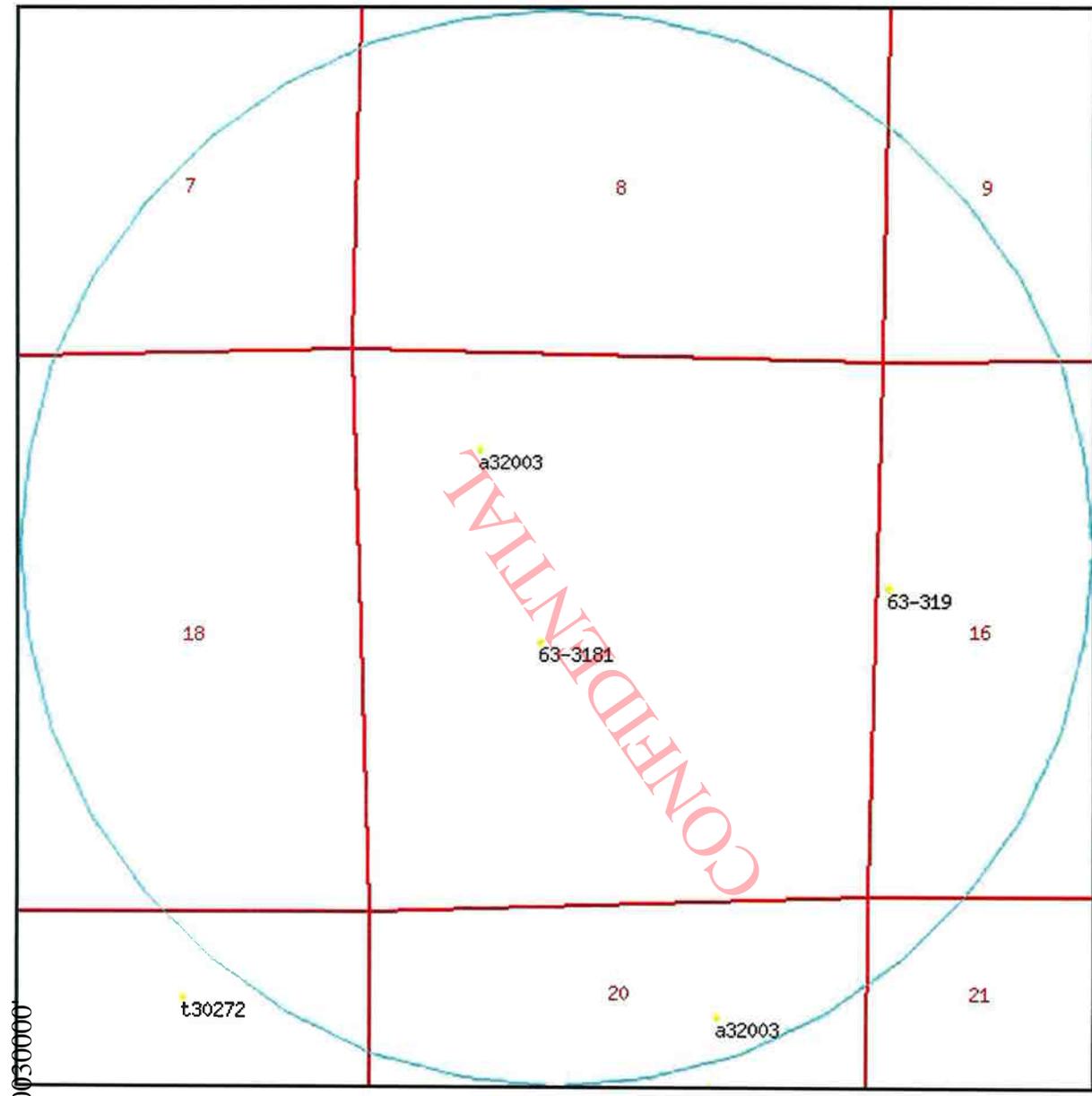
Output Listing

Version: 2009.05.06.00 Rundate: 08/31/2010 10:47 AM

Radius search of 5280 feet from a point S1971 E1958 from the NW corner, section 17, Township 23S, Range 1W, SL b&m Criteria:wrtypes=W,C,E podtypes=S,U,Sp status=U,A,P usetypes=all

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APIWellNo:43041500030000'



APIWellID:43041500030000

700 1400 2100 2800 ft

Water Rights

WR Number	Diversion Type/Location	Well Log	Status	Priority	Uses	CFS	ACFT	Owner Name
63-3180	Surface S2900 E1800 NW 17 23S 1W SL		P	1870	I	3.160	0.000	KINGS MEADOW RANCHES LLC C/O KENNETH DASTRUP
63-3181	Surface S2900 E1800 NW 17 23S 1W SL		P	1870	DS	0.010	0.000	KINGS MEADOW RANCHES LLC C/O KENNETH DASTRUP
63-319	Underground N330 E100 W4 16 23S 1W SL		P	19560121	S	0.015	0.000	A. BRYANT AND J. LLEWELLYN YOUNG RICHFIELD UT 84701
a32003	Surface N4324 W3834 SE 17 23S 1W SL		A	20060929	DIOS	4.770	494.465	KENNETH A. AND JANETTE C. DASTRUP KING MEADOW CANYON
a32003	Surface N3431 W1532 SE 20 23S 1W SL		A	20060929	DIOS	4.770	494.465	KENNETH A. AND JANETTE C. DASTRUP KING MEADOW CANYON
a32003	Surface N4085 W1467 SE 20 23S 1W SL		A	20060929	DIOS	4.770	494.465	KENNETH A. AND JANETTE C. DASTRUP KING MEADOW CANYON
t30272	Underground S869 W1901 SW 17 23S 1W SL		A	20050526	O	0.000	14.000	MACK T. AND EARLENE S. DASTRUP BOX 570125

CONFIDENTIAL

APIWellNo:430415000300000

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



August 31, 2010

Diana Mason
Permitting—Petroleum Technician
Utah Division of Oil, Gas and Mining
P.O. Box 145801
Salt Lake City, Utah 84114-5801

Re: Amendment to Application for Permit to Drill (Utah ePermit #2704)
Wolverine Gas and Oil Company of Utah, LLC
Kings Meadow Ranches 17-14
Exception location and directional drilling letter (amended)

Dear Mrs. Mason:

Wolverine Gas and Oil Company of Utah, LLC (Wolverine) hereby submits this letter with the attached plats, as part of the **amended** *Application for Permit to Drill* (APD) for the referenced well:

- R649-3-2 Exception Plat showing proposed BHL in relation to 400'x400' window;
- R649-3-11 Directional Drilling Application Plat showing proposed BHL;

The Kings Meadow Ranches, LLC, (Water Right #63-2529) will be the source for water during drilling and completion operations on this proposed well. The surface at the planned drill site is owned in fee by Wolverine.

The proposed location is within 460' of a drilling unit boundary, so an 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.

This letter and the accompanying plats are also intended to serve as an application for directionally drilling the well per R649-3-11. Wolverine is the owner of all oil and gas within 460 feet from all points along the intended wellbore for the well. Information relating to R649-3-11 is as follows:

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

Operator: Wolverine Gas and Oil Company of Utah, LLC

Address: 1140 N Centennial Park Drive
Richfield, Utah 84701

Well: Kings Meadow Ranches 17-14

Field: Covenant

Reservoir: Navajo

County: Sevier

Reason: Restrictive topography and to minimize surface impact

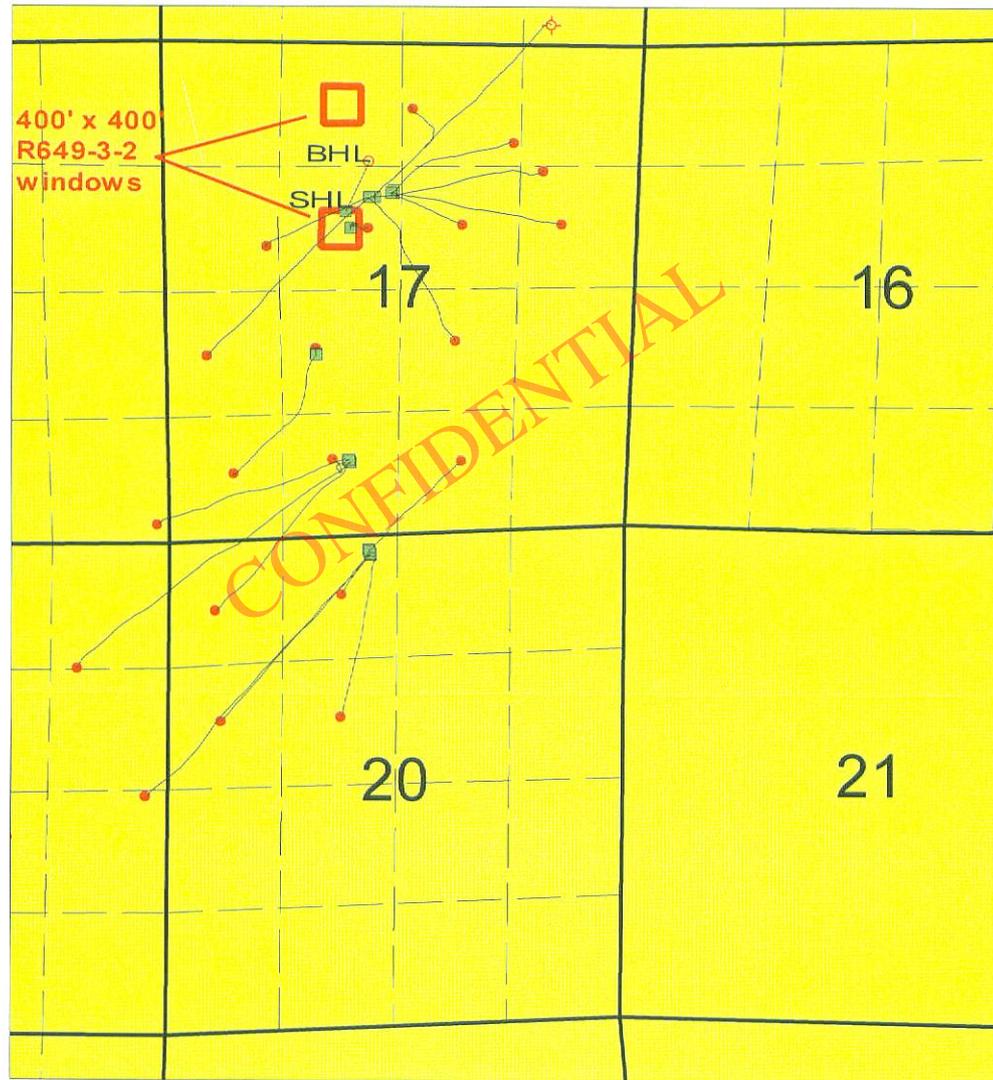
Please accept this letter as Wolverine's written request for confidential treatment of all information contained in and relating to this application and proposed well.

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,



Charlie Irons
Senior Landman



King's Meadow Ranches 17-14

SHL: 1961' FWL, 1851' FNL, SE/4 NW/4, Sec. 17, T23S, R1W, Sevier Co., UT

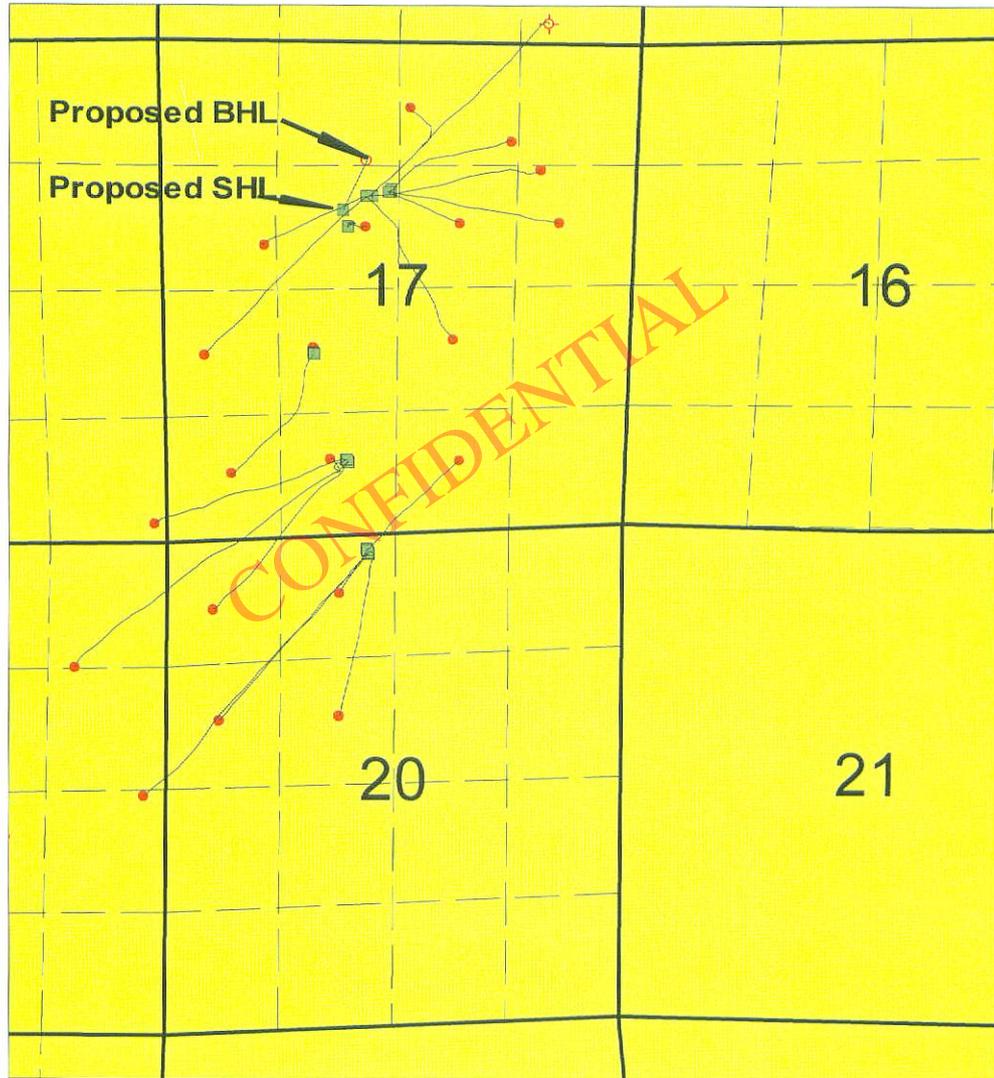
BHL: 2230' FWL, 1300' FNL, NE/4 NW/4, Sec. 17, T23S, R1W, Sevier Co., UT

- Proposed SHL
- Proposed BHL
- Wolverine Lease

1 inch = 2000 feet



	<p>WOLVERINE GAS & OIL Company of Utah, LLC (Operator) <i>Energy Exploration in Partnership with the Environment</i></p> <p>ONE RIVERFRONT PLAZA 55 CAMPAN, N.W. GRAND RAPIDS, MI 49503-2616 (616) 458-1150</p>
<p>King's Meadow Ranches 17-14 Well Location Exception Location and Ownership Plat (R649-3-2)</p>	
<p>Date: 8/31/2010</p>	<p>Author: mark lutz Filename: Document in mjl100603 KMR 17-14 Drilling Block.gmp</p>



King's Meadow Ranches 17-14

SHL: 1961' FWL, 1851' FNL, SE/4 NW/4, Sec. 17, T23S, R1W, Sevier Co., UT

BHL: 2230' FWL, 1300' FNL, NE/4 NW/4, Sec. 17, T23S, R1W, Sevier Co., UT

- Proposed SHL
- Proposed BHL
- Wolverine Lease

1 inch = 2000 feet



	WOLVERINE GAS & OIL Company of Utah, LLC (Operator) <i>Energy Exploration in Partnership with the Environment</i> ONE RIVERFRONT PLAZA 55 CAMPAU, N.W. GRAND RAPIDS, MI 49503-2616 (616) 458-1150
King's Meadow Ranches 17-14 Well Location Directional Drilling Application Plat (R649-3-11)	
Date: 8/31/2010	Author: mark lutz Filename: Document in mjl100603 KMR 17-14 Drilling Block.gmp

Well Name	WOLVERINE GAS & OIL COMPANY OF UTAH, LLC Kings Meadow Ranch			
String	Surf	Prod		
Casing Size(")	9.625	7.000		
Setting Depth (TVD)	2000	6640		
Previous Shoe Setting Depth (TVD)	0	2000		
Max Mud Weight (ppg)	9.2	10.5		
BOPE Proposed (psi)	0	5000		
Casing Internal Yield (psi)	3520	7240		
Operators Max Anticipated Pressure (psi)	2922	8.5		

Calculations	Surf String	9.625	"
Max BHP (psi)	.052*Setting Depth*MW=	957	
			BOPE Adequate For Drilling And Setting Casing at Depth?
MASP (Gas) (psi)	Max BHP-(0.12*Setting Depth)=	717	NO
MASP (Gas/Mud) (psi)	Max BHP-(0.22*Setting Depth)=	517	NO Reasonable depth, no expected pressures
			*Can Full Expected Pressure Be Held At Previous Shoe?
Pressure At Previous Shoe	Max BHP-.22*(Setting Depth - Previous Shoe Depth)=	517	NO
Required Casing/BOPE Test Pressure=		2000	psi
*Max Pressure Allowed @ Previous Casing Shoe=		0	psi *Assumes 1psi/ft frac gradient

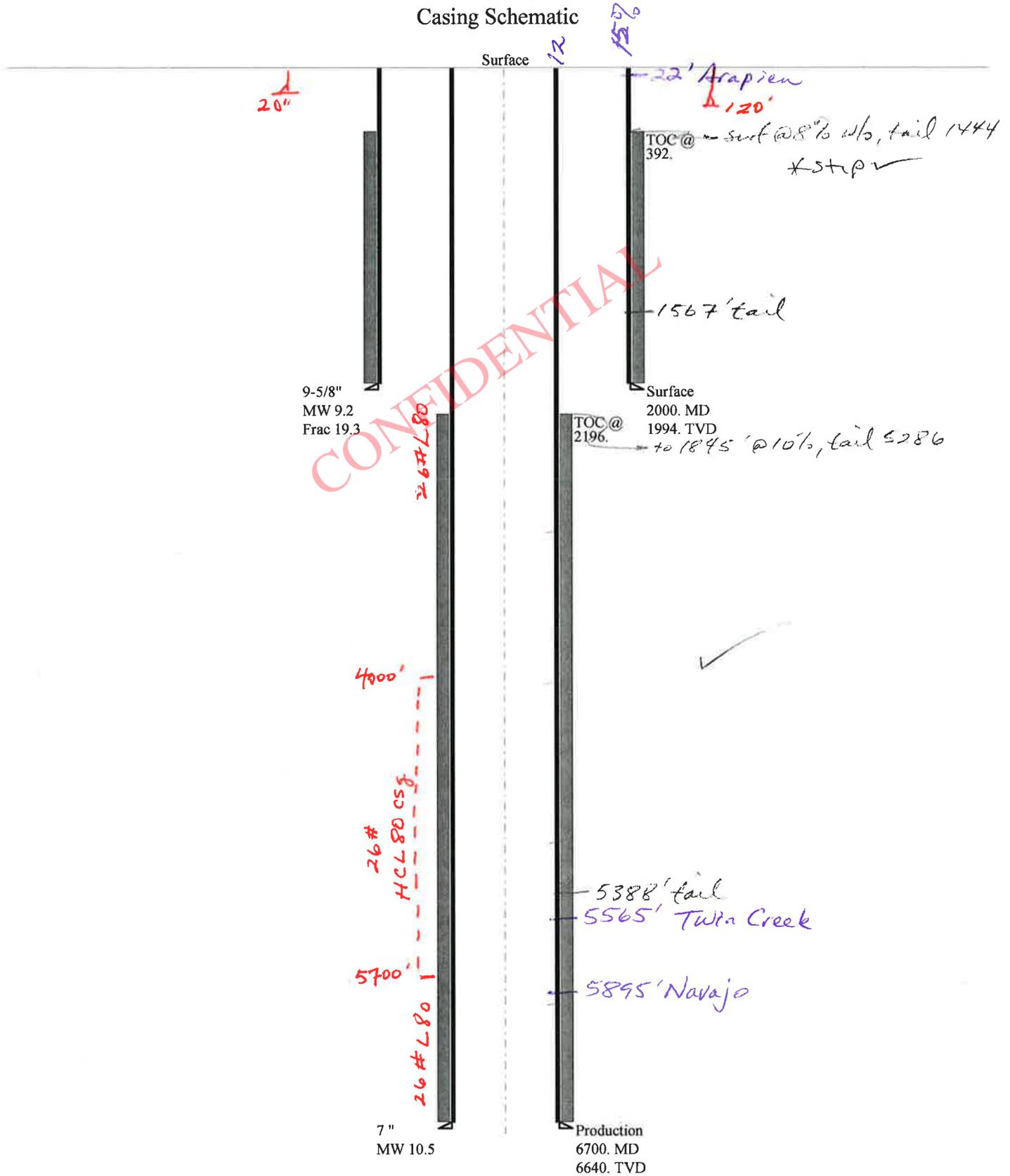
Calculations	Prod String	7.000	"
Max BHP (psi)	.052*Setting Depth*MW=	3625	
			BOPE Adequate For Drilling And Setting Casing at Depth?
MASP (Gas) (psi)	Max BHP-(0.12*Setting Depth)=	2828	YES
MASP (Gas/Mud) (psi)	Max BHP-(0.22*Setting Depth)=	2164	YES OK
			*Can Full Expected Pressure Be Held At Previous Shoe?
Pressure At Previous Shoe	Max BHP-.22*(Setting Depth - Previous Shoe Depth)=	2604	NO Reasonable
Required Casing/BOPE Test Pressure=		5000	psi
*Max Pressure Allowed @ Previous Casing Shoe=		2000	psi *Assumes 1psi/ft frac gradient

Calculations	String		"
Max BHP (psi)	.052*Setting Depth*MW=		
			BOPE Adequate For Drilling And Setting Casing at Depth?
MASP (Gas) (psi)	Max BHP-(0.12*Setting Depth)=		NO
MASP (Gas/Mud) (psi)	Max BHP-(0.22*Setting Depth)=		NO
			*Can Full Expected Pressure Be Held At Previous Shoe?
Pressure At Previous Shoe	Max BHP-.22*(Setting Depth - Previous Shoe Depth)=		NO
Required Casing/BOPE Test Pressure=			psi
*Max Pressure Allowed @ Previous Casing Shoe=			psi *Assumes 1psi/ft frac gradient

Calculations	String		"
Max BHP (psi)	.052*Setting Depth*MW=		
			BOPE Adequate For Drilling And Setting Casing at Depth?
MASP (Gas) (psi)	Max BHP-(0.12*Setting Depth)=		NO
MASP (Gas/Mud) (psi)	Max BHP-(0.22*Setting Depth)=		NO
			*Can Full Expected Pressure Be Held At Previous Shoe?
Pressure At Previous Shoe	Max BHP-.22*(Setting Depth - Previous Shoe Depth)=		NO
Required Casing/BOPE Test Pressure=			psi
*Max Pressure Allowed @ Previous Casing Shoe=			psi *Assumes 1psi/ft frac gradient

43041500030000 Kings Meadow Ranches 17-14

Casing Schematic



Well name:	43041500030000 Kings Meadow Ranches 17-14		
Operator:	WOLVERINE GAS & OIL COMPANY OF UTAH, LLC		
String type:	Surface	Project ID:	43-041-50003
Location:	SEVIER COUNTY		

Design parameters:

Collapse

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

Minimum design factors:

Collapse:

Design factor 1.125

Burst:

Design factor 1.00

Environment:

H2S considered? No
 Surface temperature: 74 °F
 Bottom hole temperature: 102 °F
 Temperature gradient: 1.40 °F/100ft
 Minimum section length: 100 ft

Cement top: 392 ft

Burst

Max anticipated surface pressure: 1,760 psi
 Internal gradient: 0.120 psi/ft
 Calculated BHP 1,999 psi

No backup mud specified.

Tension:

8 Round STC: 1.80 (J)
 8 Round LTC: 1.70 (J)
 Buttress: 1.60 (J)
 Premium: 1.50 (J)
 Body yield: 1.50 (B)

Tension is based on air weight.
 Neutral point: 1,725 ft

Directional Info - Build & Drop

Kick-off point 1200 ft
 Departure at shoe: 81 ft
 Maximum dogleg: 1.5 °/100ft
 Inclination at shoe: 10.12 °

Re subsequent strings:

Next setting depth: 6,700 ft
 Next mud weight: 10.500 ppg
 Next setting BHP: 3,655 psi
 Fracture mud wt: 19.250 ppg
 Fracture depth: 2,000 ft
 Injection pressure: 2,000 psi

Run Seq	Segment Length (ft)	Size (in)	Nominal Weight (lbs/ft)	Grade	End Finish	True Vert Depth (ft)	Measured Depth (ft)	Drift Diameter (in)	Est. Cost (\$)
1	2000	9.625	36.00	J-55	ST&C	1994	2000	8.796	17384
Run Seq	Collapse Load (psi)	Collapse Strength (psi)	Collapse Design Factor	Burst Load (psi)	Burst Strength (psi)	Burst Design Factor	Tension Load (kips)	Tension Strength (kips)	Tension Design Factor
1	953	2020	2.119	1999	3520	1.76	71.8	394	5.49 J

Prepared by: Helen Sadik-Macdonald
 Div of Oil, Gas & Mining

Phone: 801 538-5357
 FAX: 801-359-3940

Date: August 31, 2010
 Salt Lake City, Utah

Remarks:

Collapse is based on a vertical depth of 1994 ft, a mud weight of 9.2 ppg. The casing is considered to be evacuated for collapse purposes. Collapse strength is based on the Westcott, Dunlop & Kemler method of biaxial correction for tension.

Burst strength is not adjusted for tension.

Collapse strength is (biaxially) derated for doglegs in directional wells by multiplying the tensile stress by the cross section area to calculate a

Well name:	43041500030000 Kings Meadow Ranches 17-14		
Operator:	WOLVERINE GAS & OIL COMPANY OF UTAH, LLC		
String type:	Production	Project ID:	43-041-50003
Location:	SEVIER COUNTY		

Design parameters:

Collapse

Mud weight: 10.500 ppg
 Design is based on evacuated pipe.

Minimum design factors:

Collapse:

Design factor 1.125

Burst:

Design factor 1.00

Environment:

H2S considered? No
 Surface temperature: 74 °F
 Bottom hole temperature: 167 °F
 Temperature gradient: 1.40 °F/100ft
 Minimum section length: 100 ft

Cement top: 2,196 ft

Burst

Max anticipated surface pressure: 2,181 psi
 Internal gradient: 0.220 psi/ft
 Calculated BHP 3,622 psi

No backup mud specified.

Tension:

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

Tension is based on air weight.
 Neutral point: 5,648 ft

Directional Info - Build & Drop

Kick-off point 1200 ft
 Departure at shoe: 711 ft
 Maximum dogleg: 1.5 °/100ft
 Inclination at shoe: 0 °

Estimated cost: 114,035 (\$)

Run Seq	Segment Length (ft)	Size (in)	Nominal Weight (lbs/ft)	Grade	End Finish	True Vert Depth (ft)	Measured Depth (ft)	Drift Diameter (in)	Est. Cost (\$)
3	4000	7	26.00	L-80	LT&C	3963	4000	6.151	76877
2	1700	7	26.00	HCL-80	LT&C	5641	5700	6.151	17941
1	1000	7	26.00	L-80	LT&C	6640	6700	6.151	19217

Run Seq	Collapse Load (psi)	Collapse Strength (psi)	Collapse Design Factor	Burst Load (psi)	Burst Strength (psi)	Burst Design Factor	Tension Load (kips)	Tension Strength (kips)	Tension Design Factor
3	2162	5214	2.412	3052	7240	2.37	172.7	511	2.96 J
2	3077	7636	2.482	3421	7240	2.12	69.6	570	8.19 J
1	3622	5410	1.494	3641	7240	1.99	26	511	19.66 J

Prepared by: Helen Sadik-Macdonald
 Div of Oil, Gas & Mining

Phone: 801 538-5357
 FAX: 801-359-3940

Date: August 31, 2010
 Salt Lake City, Utah

Remarks:

Collapse is based on a vertical depth of 6640 ft, a mud weight of 10.5 ppg. The casing is considered to be evacuated for collapse purposes. Collapse strength is based on the Westcott, Dunlop & Kemler method of biaxial correction for tension.

Burst strength is not adjusted for tension.

Collapse strength is (biaxially) derated for doglegs in directional wells by multiplying the tensile stress by the cross section area to calculate a

ON-SITE PREDRILL EVALUATION

Utah Division of Oil, Gas and Mining

Operator WOLVERINE GAS & OIL COMPANY OF UTAH, LLC
Well Name Kings Meadow Ranches 17-14
API Number 43041500030000 **APD No** 2704 **Field/Unit** COVENANT
Location: 1/4,1/4 SENW **Sec** 17 **Tw** 23.0S **Rng** 1.0W 1851 FNL 1961 FWL
GPS Coord (UTM) 418880 4295311 **Surface Owner** Wolverine Gas and Oil Corporation

Participants

M. Jones (DOGM), Charlie Irons and Paul Spiering (Wolverine).

Regional/Local Setting & Topography

Covenant Field, southeast of Sigurd, Utah.

Surface Use Plan

Current Surface Use

Existing Well Pad

New Road Miles

0

Well Pad

Width **Length**

Src Const Material

Onsite

Surface Formation

ARAS

Ancillary Facilities

Waste Management Plan Adequate?

Environmental Parameters

Affected Floodplains and/or Wetlands N

Flora / Fauna

None, existing well pad.

Soil Type and Characteristics

clay

Erosion Issues N

Sedimentation Issues N

Site Stability Issues N

Drainage Diversion Required? N

Berm Required? N

Erosion Sedimentation Control Required? N

Paleo Survey Run? N **Paleo Potential Observed?** N **Cultural Survey Run?** N **Cultural Resources?** N

Reserve Pit

Site-Specific Factors

Site Ranking

Distance to Groundwater (feet)	>200	0
Distance to Surface Water (feet)	>1000	0
Dist. Nearest Municipal Well (ft)	>5280	0
Distance to Other Wells (feet)		20
Native Soil Type	Low permeability	0
Fluid Type	TDS>10000	15
Drill Cuttings	Salt or Detrimental	10
Annual Precipitation (inches)	10 to 20	5
Affected Populations		
Presence Nearby Utility Conduits	Unknown	10
	Final Score	60

1 Sensitivity Level

Characteristics / Requirements

Dugout earthen (180x60x12).

Closed Loop Mud Required? N **Liner Required?** Y **Liner Thickness** 12 **Pit Underlayment Required?** N

Other Observations / Comments

This well was originally proposed with the reserve pit on the east side, which would have dug up the old reserve pit. I recommended to Wolverine that in so doing I would require them to test for TDS and handle those old cuttings appropriate to our clean-up guidelines for TDS. Wolverine chose to spin this location to put the reserve pit on the west side and not disturb those old cuttings. I still recommend testing and handling of the salt based cuttings for the new pit prior to reclamation.

This site is on an existing well pad.

Mark Jones
Evaluator

7/14/2010
Date / Time

Application for Permit to Drill Statement of Basis

9/2/2010

Utah Division of Oil, Gas and Mining

Page 1

APD No	API WellNo	Status	Well Type	Surf Owner	CBM
2704	43041500030000	LOCKED	OW	P	No
Operator	WOLVERINE GAS & OIL COMPANY OF UTAH, LLC		Surface Owner-APD	Wolverine Gas and Oil Corporation	
Well Name	Kings Meadow Ranches 17-14		Unit	WOLVERINE	
Field	COVENANT		Type of Work	DRILL	
Location	SENW 17 23S 1W S 1851 FNL 1961 FWL GPS Coord (UTM) 418882E 4295352N				

Geologic Statement of Basis

This location is placed in the High Plateaus section of the Colorado Plateau physiographic province in western central Utah. Some people have characterized this area as being in the Basin and Range - Colorado Plateau transition zone. The location is on fee acreage a few miles east of the Sevier River, in the Peterson Creek drainage, a tributary of Brine Creek, which subsequently flows into the Sevier River. The rancher heavily allocates water rights for the local springs, which arise from the volcanic rocks just to the east, for agriculture. The well will likely spud into a thin alluvium covering the evaporite-rich Jurassic age Arapien Shale. The proposal calls for a fresh water mud system (8.4 ppg to 9.2 ppg down to 2,000' TD and a "salt" mud system (10.2 ppg to 10.5 ppg) subsequently until the ultimate TD is reached. The quality of any surface water that manages to escape upstream allocation is diminished as it flows past the location and into Brine Creek, owing to the evaporite minerals in the Arapien Shale. Any water contained in the Arapien Shale is also likely to be of poor quality. The north northeast to south southwest trending Sevier Fault is likely to be found passing by about 1 to 2 miles to the northwest along the east side of the Sevier River Valley. The Arapien Shale may have been somewhat intruded or elevated into the area between the Sevier Fault and the considerable parallel secondary faulting mapped in the Cedar Mountain - Black Mountain area, just east of the location. A Division of Water Rights publication notes that aquifers in close proximity to the Arapien Shale are also likely to contain ground water with high TDS levels. It is unlikely that any high quality ground water will be encountered during drilling.

The proposed casing, cementing and drilling fluid program should be sufficient to control and isolate the poor quality ground waters expected to be encountered in a well at this location. A water right, filed for a 156 feet deep water supply well, is found within a mile to the east.

Chris Kierst
APD Evaluator

8/31/2010
Date / Time

Surface Statement of Basis

Present during pre-site were: M. Jones (DOGM), Charlie Irons and Paul Spiering (Wolverine).

This well was originally proposed with the reserve pit on the east side, which would have dug up the old reserve pit. I recommended to Wolverine that in so doing I would require them to test for TDS and handle those old cuttings appropriate to our clean-up guidelines for TDS. Wolverine chose to spin this location to put the reserve pit on the west side and not disturb those old cuttings. DOGM will require testing and proper handling of the salt based cuttings for the new pit prior to reclamation.

This site is on an existing well pad.

Mark Jones
Onsite Evaluator

7/14/2010
Date / Time

Application for Permit to Drill Statement of Basis

9/2/2010

Utah Division of Oil, Gas and Mining

Page 2

Category	Condition
Pits	A synthetic liner with a minimum thickness of 12 mils shall be properly installed and maintained in the reserve pit.
Pits	The drill cutting will be tested for TDS and TPH prior to reclamation of the reserve pit. Guidance from the division will be required for closure of this pit prior to reclamation work commencing.
Pits	The reserve pit should be located on the west side of the location.
Surface	The reserve pit shall be fenced upon completion of drilling operations.

CONFIDENTIAL

**WORKSHEET
APPLICATION FOR PERMIT TO DRILL**

APD RECEIVED: 6/4/2010

API NO. ASSIGNED: 43041500030000

WELL NAME: Kings Meadow Ranches 17-14

OPERATOR: WOLVERINE GAS & OIL COMPANY OF UTAH, LLC (N1655)

PHONE NUMBER: 435 896-1943

CONTACT: Charles Irons

PROPOSED LOCATION: SENW 17 230S 010W

Permit Tech Review:

SURFACE: 1851 FNL 1961 FWL

Engineering Review:

BOTTOM: 1300 FNL 2230 FWL

Geology Review:

COUNTY: SEVIER

LATITUDE: 38.80507

LONGITUDE: -111.93420

UTM SURF EASTINGS: 418882.00

NORTHINGS: 4295352.00

FIELD NAME: COVENANT

LEASE TYPE: 4 - Fee

LEASE NUMBER: Patented

PROPOSED PRODUCING FORMATION(S): NAVAJO

SURFACE OWNER: 4 - Fee

COALBED METHANE: NO

RECEIVED AND/OR REVIEWED:

- PLAT
- Bond: STATE/FEE - B001849R
- Potash
- Oil Shale 190-5
- Oil Shale 190-3
- Oil Shale 190-13
- Water Permit: 63-2529
- RDCC Review:
- Fee Surface Agreement
- Intent to Commingle

Commingling Approved

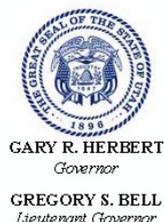
LOCATION AND SITING:

- R649-2-3.
Unit: WOLVERINE
- R649-3-2. General
- R649-3-3. Exception
- Drilling Unit
Board Cause No: R649-3-11
- Effective Date:
- Siting:
- R649-3-11. Directional Drill

Comments: Presite Completed
APD IS IN UPOD:

Stipulations:

- 1 - Exception Location - bhill
- 5 - Statement of Basis - bhill
- 12 - Cement Volume (3) - hmadonald
- 15 - Directional - dmason
- 23 - Spacing - dmason
- 25 - Surface Casing - hmadonald



State of Utah

DEPARTMENT OF NATURAL RESOURCES

MICHAEL R. STYLER
Executive Director

Division of Oil, Gas and Mining

JOHN R. BAZA
Division Director

Permit To Drill

Well Name: Kings Meadow Ranches 17-14
API Well Number: 43041500030000
Lease Number: Patented
Surface Owner: FEE (PRIVATE)
Approval Date: 9/2/2010

Issued to:

WOLVERINE GAS & OIL COMPANY OF UTAH, LLC, 1140 N. Centennial Park Dr., Richfield, UT 84701

Authority:

Pursuant to Utah Code Ann. §40-6-1 et seq., and Utah Administrative Code R649-3-1 et seq., the Utah Division of Oil, Gas and Mining issues conditions of approval, and permit to drill the listed well. This permit is issued in accordance with the requirements of R649-3-11. The expected producing formation or pool is the NAVAJO Formation(s), completion into any other zones will require filing a Sundry Notice (Form 9). Completion and commingling of more than one pool will require approval in accordance with R649-3-22.

Duration:

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

Exception Location:

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

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.

Conditions of Approval:

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

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.

Cement volume for the 7" production string shall be determined from actual hole diameter in order to place cement from the pipe setting depth back to 1800' MD as indicated in the submitted drilling plan.

Surface casing shall be cemented to the surface.

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

Additional Approvals:

The operator is required to obtain approval from the Division of Oil, Gas and mining before performing any of the following actions during the drilling of this well:

- Any changes to the approved drilling plan – contact Dustin Doucet
- Significant plug back of the well – contact Dustin Doucet
- Plug and abandonment of the well – contact Dustin Doucet

Notification Requirements:

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

- Within 24 hours following the spudding of the well – contact Carol Daniels
OR
submit an electronic sundry notice (pre-registration required) via the Utah Oil & Gas website at <https://oilgas.ogm.utah.gov>
- 24 hours prior to testing blowout prevention equipment - contact Dan Jarvis
- 24 hours prior to cementing or testing casing – contact Dan Jarvis
- Within 24 hours of making any emergency changes to the approved drilling program – contact Dustin Doucet
- 24 hours prior to commencing operations to plug and abandon the well – contact Dan Jarvis

Contact Information:

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

- Carol Daniels 801-538-5284 - office
- Dustin Doucet 801-538-5281 - office
801-733-0983 - after office hours
- Dan Jarvis 801-538-5338 - office
801-231-8956 - after office hours

Reporting Requirements:

All reports, forms and submittals as required by the Utah Oil and Gas Conservation General Rules will be promptly filed with the Division of Oil, Gas and Mining, including but not limited to:

- Entity Action Form (Form 6) – due within 5 days of spudding the well
- Monthly Status Report (Form 9) – due by 5th day of the following calendar month
- Requests to Change Plans (Form 9) – due prior to implementation
- Written Notice of Emergency Changes (Form 9) – due within 5 days
- Notice of Operations Suspension or Resumption (Form 9) – due prior to implementation
- Report of Water Encountered (Form 7) – due within 30 days after completion
- Well Completion Report (Form 8) – due within 30 days after completion or plugging

Approved by.

A handwritten signature in black ink, appearing to read 'B. D. ...', written in a cursive style.

Acting Associate Director, Oil & Gas

Carol Daniels - Kings Meadow Ranches 17-14 Update *T235 ROW S-17 43-041-5003*

From: "Wolverine Exploration Rig"
To: "Ainge, Jeff" , "Allen, Geoff" , "Arthurs, Shane" , "Bilby, Curt" , "Blair, Richard" ,
"Chamberlain, Don" , "Daniels, Carol" , "De la Torre, Juan C" , "Dieste, Bobby" , "Doucet,
Dustin" , "Dustin Dunning" , "George Zamantakis " , "Hall, Denise" , "Hammell, Hank" ,
"Hendricks, Marvin" , "Hutcinson, Clayton" , "Janksy, Brian" , "Jim Barry" , "Jones,
Mark" , "Kulow, Kyle" , "Larimore, Mark" , "Lewis, John" , "McCoy, Tim" , "O'Connell,
David" , "Patten, Andrew" , "Perry, Bud (Smith Bits)" , "Rees, John M" , "Revert, Scott" ,
"Ron Bond" , "Ryan Thomas" , "Shaun Burns" , "Shawn Moulton" , "Shelton, Shorty" ,
"Smuin, Troy" , "Sulzen, Joel" , "Tujillo, Chris" , "Vance Barber" , "Weimer, Jeff" , "Willis,
Walton" , "Winkler, Matt" , "Wright, Brian" , "Zaccardi, Zeke" , "Zimmerman, Bill"
Date: 9/5/2010 11:23 AM
Subject: Kings Meadow Ranches 17-14 Update

9/5/2010 11:18 AM

Spudded the Kings Meadows Ranches 17-14 well at 8:00 AM 9/4 with Pete Martin Drilling.

Moving light loads to the location. The rig and camps will be moved on Tuesday 9/7/10

Bill Donovan
Drilling Supervisor
Wolverine Gas and Oil Company of Utah, LLC
Kings Meadow Ranches 17-14, AFE 236
Rig (970) 812-0022
Cell (720) 351-7470
Fax (435) 304-1222
wolvexpl@drillmail.net

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SEP 07 2010

DIV. OF OIL, GAS & MINING

Carol Daniels - Kings Meadow Ranches 17-14 Spud T 235 ROW 5-17 43-041-5003

From: "Wolverine Exploration Rig"
To: "Daniels, Carol" , "Doucet, Dustin" , "Jarvis, Dan" , "Jones, Mark" , "Medina, Rachael"
Date: 9/5/2010 11:31 AM
Subject: Kings Meadow Ranches 17-14 Spud
CC: "Charlie Irons"

9/5/2010 11:26 AM

The Wolverine Gas & Oil Company of Utah, LLC, Kings Meadow Ranches 17-14 was spudded using Pete Martin Drilling Co. at 8:00AM 9/4/10. 120'GL of 16" conductor was set and cement to the surface. Full reports and notifications will follow.

Bill Donovan
Drilling Supervisor
Wolverine Gas and Oil Company of Utah, LLC
Kings Meadow Ranches 17-14, AFE 236
Rig (970) 812-0022
Cell (720) 351-7470
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wolvexpl@drillmail.net

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SEP 07 2010

DIV. OF OIL, GAS & MINING

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING	FORM 9
---------------------------------------------------------------------------------------------	---------------

SUNDRY NOTICES AND REPORTS ON WELLS Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.	5. LEASE DESIGNATION AND SERIAL NUMBER: Patented
	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: Kings Meadow Ranches 17-14
2. NAME OF OPERATOR: WOLVERINE GAS & OIL COMPANY OF UTAH, LLC	9. API NUMBER: 43041500030000
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: 1851 FNL 1961 FWL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: SENW Section: 17 Township: 23.0S Range: 01.0W Meridian: S	9. FIELD and POOL or WILDCAT: COVENANT
	COUNTY: SEVIER
	STATE: UTAH

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

TYPE OF SUBMISSION	TYPE OF ACTION		
<input 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 checked="" type="checkbox"/> SPUD REPORT Date of Spud: 9/4/2010	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> CONVERT WELL TYPE
<input type="checkbox"/> DRILLING REPORT Report Date:	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> NEW CONSTRUCTION
	<input type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> PLUG BACK
	<input type="checkbox"/> PRODUCTION START OR RESUME	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION
	<input type="checkbox"/> REPERFORATE CURRENT FORMATION	<input type="checkbox"/> SIDETRACK TO REPAIR WELL	<input type="checkbox"/> TEMPORARY ABANDON
	<input type="checkbox"/> TUBING REPAIR	<input type="checkbox"/> VENT OR FLARE	<input type="checkbox"/> WATER DISPOSAL
	<input type="checkbox"/> WATER SHUTOFF	<input type="checkbox"/> SI TA STATUS EXTENSION	<input type="checkbox"/> APD EXTENSION
	<input type="checkbox"/> WILDCAT WELL DETERMINATION	<input type="checkbox"/> OTHER	OTHER: <input style="width: 100px;" type="text"/>

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

This well was spudded using Pete Martin Drilling Co. at 8:00 AM on 9/4/2010.
 120'GL of 16" conductor was set and cemented to the surface.

Accepted by the
Utah Division of
Oil, Gas and Mining
FOR RECORD ONLY
 September 13, 2010

NAME (PLEASE PRINT) Paul Spiering	PHONE NUMBER 435 896-1943	TITLE District Land Manager
SIGNATURE N/A	DATE 9/10/2010	

Carol Daniels - Kings Meadow Ranches 17-14 Update T 235 Rolun 5-17 43 ⁰⁴¹ ~~43~~ 5003

From: "Wolverine Exploration Rig"

To: "Ainge, Jeff" , "Allen, Geoff" , "Arthurs, Shane" , "Bilby, Curt" , "Blair, Richard" ,
 "Chamberlain, Don" , "Daniels, Carol" , "De la Torre, Juan C" , "Dieste, Bobby" , "Doucet,
 Dustin" , "Dustin Dunning" , "George Zamantakis" , "Hall, Denise" , "Hammell, Hank" ,
 "Hendricks, Marvin" , "Hutcinson, Clayton" , "Janksy, Brian" , "Jim Barry" , "Jones,
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 "Ron Bond" , "Ryan Thomas" , "Shaun Burns" , "Shawn Moulton" , "Shelton, Shorty" ,
 "Smuin, Troy" , "Sulzen, Joel" , "Tujillo, Chris" , "Vance Barber" , "Weimer, Jeff" , "Willis,
 Walton" , "Winkler, Matt" , "Wright, Brian" , "Zaccardi, Zeke" , "Zimmerman, Bill"

Date: 9/13/2010 3:56 PM

Subject: Kings Meadow Ranches 17-14 Update

9/13/2010 3:53 PM

tagged cement in conductor at 118', cleaning out conductor

Tom Zupan
Drilling Supervisor
Wolverine Gas and Oil Company of Utah, LLC
Kings Meadow Ranches 17-14, AFE 236
Rig (970) 812-0022
Cell (720) 351-7470
Fax (435) 304-1222
wolvexpl@drillmail.net

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SEP 13 2010

DIV. OF OIL, GAS & MINING

Carol Daniels - Kings Meadow Ranches 17-14 Update T235 R01WS-17 43-041-50003

From: "Wolverine Exploration Rig"
To: "Ainge, Jeff" , "Allen, Geoff" , "Arthurs, Shane" , "Bilby, Curt" , "Blair, Richard" ,
"Chamberlain, Don" , "Daniels, Carol" , "De la Torre, Juan C" , "Dieste, Bobby" , "Doucet,
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"Smuin, Troy" , "Sulzen, Joel" , "Tujillo, Chris" , "Vance Barber" , "Weimer, Jeff" , "Willis,
Walton" , "Winkler, Matt" , "Wright, Brian" , "Zaccardi, Zeke" , "Zimmerman, Bill"
Date: 9/11/2010 7:38 AM
Subject: Kings Meadow Ranches 17-14 Update

9/11/2010 7:34 AM

Rigging up Patt UTI 304 on KMR 17-14, sub base is complete, derrick is complete, will set derrick on sub and stand today.

Tom Zupan
Drilling Supervisor
Wolverine Gas and Oil Company of Utah, LLC
Kings Meadow Ranches 17-14, AFE 236
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Fax (435) 304-1222
wolvexpl@drillmail.net

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SEP 13 2010

DIV. OF OIL, GAS & MINING

Carol Daniels - Kings Meadow Ranches 17-14 Update *T 235 P 01 W 5-17 43-041-50003*

From: "Wolverine Exploration Rig"
To: "Ainge, Jeff" , "Allen, Geoff" , "Arthurs, Shane" , "Bilby, Curt" , "Blair, Richard" ,
"Chamberlain, Don" , "Daniels, Carol" , "De la Torre, Juan C" , "Dieste, Bobby" , "Doucet,
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"Hendricks, Marvin" , "Hutcinson, Clayton" , "Janksy, Brian" , "Jim Barry" , "Jones,
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"Smuin, Troy" , "Sulzen, Joel" , "Tujillo, Chris" , "Vance Barber" , "Weimer, Jeff" , "Willis,
Walton" , "Winkler, Matt" , "Wright, Brian" , "Zaccardi, Zeke" , "Zimmerman, Bill"
Date: 9/12/2010 8:58 AM
Subject: Kings Meadow Ranches 17-14 Update

9/12/2010 8:55 AM

Continue rigging up, Anticipate spudding in 12 ¼" surface hole at 630 pm today.

Tom Zupan
Drilling Supervisor
Wolverine Gas and Oil Company of Utah, LLC
Kings Meadow Ranches 17-14, AFE 236
Rig (970) 812-0022
Cell (720) 351-7470
Fax (435) 304-1222
wolvexpl@drillmail.net

RECEIVED

SEP 13 2010

DIV. OF OIL, GAS & MINING

Carol Daniels - Anticipated Spud of Kings Meadow Ranches 17-14

T235 Rolw 5-17 43-041-50003

From: "Wolverine Exploration Rig"
To: "Jones, Mark" , "Doucet, Dustin" , "Daniels, Carol"
Date: 9/12/2010 9:17 AM
Subject: Anticipated Spud of Kings Meadow Ranches 17-14
CC: "Higuera, Ed" , "Charlie Irons"

This is to notify you of our anticipated spud 12 ¼" surface of the Kings Meadow Ranches 17-14 at 1830 hrs this evening.

API No. 43041500030000

Regards,

Tom Zupan
Drilling Supervisor
Wolverine Gas and Oil Company of Utah, LLC
Kings Meadow Ranches 17-14, AFE 236
Rig (970) 812-0022
Cell (720) 351-7470
Fax (435) 304-1222
wolvexpl@drillmail.net

RECEIVED

SEP 13 2010

DIV. OF OIL, GAS & MINING

Carol Daniels - Kings Meadow Ranches 17-14 Update

+ 233 ROWS-19 43-041-50003

From: "Wolverine Exploration Rig"

To: "Ainge, Jeff" , "Allen, Geoff" , "Arthurs, Shane" , "Bilby, Curt" , "Blair, Richard" ,
"Chamberlain, Don" , "Daniels, Carol" , "De la Torre, Juan C" , "Dieste, Bobby" , "Doucet,
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"Hendricks, Marvin" , "Hutcinson, Clayton" , "Janksky, Brian" , "Jim Barry" , "Jones,
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"Ron Bond" , "Ryan Thomas" , "Shaun Burns" , "Shawn Moulton" , "Shelton, Shorty" ,
"Smuin, Troy" , "Sulzen, Joel" , "Tujillo, Chris" , "Vance Barber" , "Weimer, Jeff" , "Willis,
Walton" , "Winkler, Matt" , "Wright, Brian" , "Zaccardi, Zeke" , "Zimmerman, Bill"

Date: 9/13/2010 8:12 AM

Subject: Kings Meadow Ranches 17-14 Update

9/13/2010 8:08 AM

Continued rigging up, spud later this am.

Tom Zupan
Drilling Supervisor
Wolverine Gas and Oil Company of Utah, LLC
Kings Meadow Ranches 17-14, AFE 236
Rig (970) 812-0022
Cell (720) 351-7470
Fax (435) 304-1222
wolvexpl@drillmail.net

RECEIVED

SEP 13 2010

DIV. OF OIL, GAS & MINING

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

FORM 6

ENTITY ACTION FORM

Operator: Wolverine Gas & Oil Company of Utah, LLC Operator Account Number: N 1655
 Address: 55 Campau NW
city Grand Rapids
state MI zip 49506 Phone Number: (616) 458-1150

Well 1

API Number	Well Name	QQ	Sec	Twp	Rng	County
4304150003	Kings Meadow Ranches 17-14	SENW	17	23S	1W	Sevier
Action Code	Current Entity Number	New Entity Number	Spud Date		Entity Assignment Effective Date	
B	99999	13995	9/13/2010		9/21/10	
Comments: BHL NENW <i>NAVA</i> CONFIDENTIAL						

Well 2

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

Well 3

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

ACTION CODES:

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

Helene Bardolph

Name (Please Print)

Signature

Engineering Assistant

Title

9/13/2010

Date

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SEP 14 2010

(5/2000)

Carol Daniels - Kings Meadow Ranches 17-14 Update *T 235 P 01 W 5-17 43-040.50003*

From: "Wolverine Exploration Rig"
To: "Ainge, Jeff" , "Allen, Geoff" , "Arthurs, Shane" , "Bilby, Curt" , "Blair, Richard" ,
 "Chamberlain, Don" , "Daniels, Carol" , "De la Torre, Juan C" , "Dieste, Bobby" , "Doucet,
 Dustin" , "Dustin Dunning" , "George Zamantakis" , "Hall, Denise" , "Hammell, Hank" ,
 "Hendricks, Marvin" , "Hutcinson, Clayton" , "Janksky, Brian" , "Jim Barry" , "Jones,
 Mark" , "Kulow, Kyle" , "Larimore, Mark" , "Lewis, John" , "McCoy, Tim" , "O'Connell,
 David" , "Patten, Andrew" , "Perry, Bud (Smith Bits)" , "Rees, John M" , "Revert, Scott" ,
 "Ron Bond" , "Ryan Thomas" , "Shaun Burns" , "Shawn Moulton" , "Shelton, Shorty" ,
 "Smuin, Troy" , "Sulzen, Joel" , "Tujillo, Chris" , "Vance Barber" , "Weimer, Jeff" , "Willis,
 Walton" , "Winkler, Matt" , "Wright, Brian" , "Zaccardi, Zeke" , "Zimmerman, Bill"
Date: 9/14/2010 9:03 AM
Subject: Kings Meadow Ranches 17-14 Update
CC: "Magill, Jack" , "Treybig, Jerry"

9/14/2010 8:54 AM

Drilled 12 ¼" surface hole to 770'.

Forward Plan:

- Should TD at 2000' Tuesday morning
- short trip
- cond hole
- pooh for casing
- run 9 5/8", Tuesday pm (Franks)
- Cement, Tuesday night (Halliburton)
- LD HWDP while WOC
- Cut off conductor and casing
- Weld on Braden head, Wednesday am (FMC)
- Nipple up Bops (IPS)

Tom Zupan
Drilling Supervisor
Wolverine Gas and Oil Company of Utah, LLC
Kings Meadow Ranches 17-14, AFE 236
Rig (970) 812-0022
Cell (720) 351-7470
Fax (435) 304-1222
wolvexpl@drillmail.net

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SEP 14 2010

DIV. OF OIL, GAS & MINING

Carol Daniels - Kings Meadow Ranches 17-14- notification of casing and cement job

From: "Wolverine Exploration Rig"
To: "Jones, Mark" , "Doucet, Dustin" , "Daniels, Carol"
Date: 9/14/2010 9:06 AM
Subject: Kings Meadow Ranches 17-14- notification of casing and cement job
CC: "Higuera, Ed" , "Charlie Irons"

T23S R01W5-17 43-041-50003

This is to notify you of our anticipated running and cementing 9 5/8" surface casing of the Kings Meadow Ranches 17-14 on Tuesday afternoon/ Wednesday morning. I will keep you updated as to the timing as the job nears. Please call if you have any questions.

API No. 43041500030000

Regards,

Tom Zupan
Drilling Supervisor
Wolverine Gas and Oil Company of Utah, LLC
Kings Meadow Ranches 17-14, AFE 236
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wolvexpl@drillmail.net

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SEP 14 2010

DIV. OF OIL, GAS & MINING

Carol Daniels - Kings Meadow Ranches 17-14 Update- Correction

T 235 ROW 5-17 43-041-50003

From: "Wolverine Exploration Rig"
To: "Ainge, Jeff" , "Allen, Geoff" , "Arthurs, Shane" , "Bilby, Curt" , "Blair, Richard" ,
 "Chamberlain, Don" , "Daniels, Carol" , "De la Torre, Juan C" , "Dieste, Bobby" , "Doucet,
 Dustin" , "Dustin Dunning" , "George Zamantakis" , "Hall, Denise" , "Hammell, Hank" ,
 "Hendricks, Marvin" , "Hutcinson, Clayton" , "Janksy, Brian" , "Jim Barry" , "Jones,
 Mark" , "Kulow, Kyle" , "Larimore, Mark" , "Lewis, John" , "McCoy, Tim" , "O'Connell,
 David" , "Patten, Andrew" , "Perry, Bud (Smith Bits)" , "Rees, John M" , "Revert, Scott" ,
 "Ron Bond" , "Ryan Thomas" , "Shaun Burns" , "Shawn Moulton" , "Shelton, Shorty" ,
 "Smuin, Troy" , "Sulzen, Joel" , "Tujillo, Chris" , "Vance Barber" , "Weimer, Jeff" , "Willis,
 Walton" , "Winkler, Matt" , "Wright, Brian" , "Zaccardi, Zeke" , "Zimmerman, Bill"
Date: 9/14/2010 5:02 PM
Subject: Kings Meadow Ranches 17-14 Update- Correction
CC: ""Magill, Jack"" , "Treybig, Jerry"

Please disregard previous send. Lost a day somewhere!?!
 9/14/2010 4:08 PM

9/14/2010 4:08 PM

Drilled 12 ¼" surface hole to 1075'.

Forward Plan:

- Should TD at 2000' Wednesday pm
- short trip
- cond hole
- pooh for casing
- run 9 5/8", Thursday am (Franks)
- Cement, Thursday pm (Halliburton)
- LD HWDP while WOC
- Cut off conductor and casing
- Weld on Braden head, Thursday night (FMC)
- Nipple up Bops (IPS)

Tom Zupan
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wolvexpl@drillmail.net

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SEP 14 2010

DIV. OF OIL, GAS & MINING

Carol Daniels - Kings Meadow Ranches 17-14 Update *T 235 Rolw s-17 43-041-50003*

From: "Wolverine Exploration Rig"
To: "Ainge, Jeff", "Allen, Geoff", "Arthurs, Shane", "Bilby, Curt", "Blair, Richard", "Chamberlain, Don", "Daniels, Carol", "De la Torre, Juan C", "Dieste, Bobby", "Doucet, Dustin", "Dustin Dunning", "George Zamantakis", "Hall, Denise", "Hammell, Hank", "Hendricks, Marvin", "Hutcinson, Clayton", "Janksky, Brian", "Jim Barry", "Jones, Mark", "Kulow, Kyle", "Larimore, Mark", "Lewis, John", "McCoy, Tim", "O'Connell, David", "Patten, Andrew", "Perry, Bud (Smith Bits)", "Rees, John M", "Revert, Scott", "Ron Bond", "Ryan Thomas", "Shaun Burns", "Shawn Moulton", "Shelton, Shorty", "Smuin, Troy", "Sulzen, Joel", "Tujillo, Chris", "Vance Barber", "Weimer, Jeff", "Willis, Walton", "Winkler, Matt", "Wright, Brian", "Zaccardi, Zeke", "Zimmerman, Bill"
Date: 9/15/2010 7:52 AM
Subject: Kings Meadow Ranches 17-14 Update
CC: "Magill, Jack", "Treybig, Jerry"

ESTIMATED SCHEDULE					
DATE	DAY	START TIME	HR	DESCRIPTION	EQUIPMENT
15-Sep	Wednesday	0:00	10.00	Drill 1450-2047 @ 50 fph	Call Franks w/10 hrs notice at 1900', Call State/BLM Csg/Cmt job
15-Sep		10:00	1.00	CBU for wiper trip	
		11:00	2.00	Wiper trip to HWDP	Call Howco Cementers w/ 8 hrs notice
		13:00	1.00	CBU for casing	
		14:00	2.50	POOH for casing	
		16:30	6.00	RU and run casing	
		22:30	1.00	Circ and condition for cement	
		23:30	2.00	Cement casing	
16-Sep	Thursday	1:30	1.00	Top Job	
		2:30	3.00	Lay down 6 5/8" HWDP in mouse hole	
		5:30	12.00	WOC	Call FMC/Welder/DoubleJack
		17:30	3.00	Cut off Casing, remove riser	
		20:30	3.00	Final cut and weld on braden head	
		23:30	1.00	Test weld	
17-Sep	Friday	0:30	14.00	Nipple up BOPE	
		14:30	5.00	Pressure test BOPE	
		19:30			

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 Fax (435) 304-1222
 wolvexpl@drillmail.net

RECEIVED
 SEP 15 2010

DIV. OF OIL, GAS & MINING

T235R01W5-17 43-041-50003

Carol Daniels - Kings Meadow Ranches 17-14- notification of casing and cement job

From: "Wolverine Exploration Rig"
To: "Jones, Mark" , "Doucet, Dustin" , "Daniels, Carol"
Date: 9/15/2010 7:53 AM
Subject: Kings Meadow Ranches 17-14- notification of casing and cement job
CC: "Higuera, Ed" , "Charlie Irons"

This is to notify you of our intent to run and cement 9 5/8" surface casing of the Kings Meadow Ranches 17-14 on Wednesday afternoon and night. I will keep you updated as to the timing as the job nears. Please call if you have any questions.

API No. 43041500030000

Regards,

Tom Zupan
Drilling Supervisor
Wolverine Gas and Oil Company of Utah, LLC
Kings Meadow Ranches 17-14, AFE 236
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RECEIVED

SEP 15 2010

DIV. OF OIL, GAS & MINING

Carol Daniels - Kings Meadow Ranches 17-14 Update *T 235 R 01W 5-17 43-041-50003*

From: "Wolverine Exploration Rig"
To: "Ainge, Jeff", "Allen, Geoff", "Arthurs, Shane", "Bilby, Curt", "Blair, Richard", "Chamberlain, Don", "Daniels, Carol", "De la Torre, Juan C", "Dieste, Bobby", "Doucet, Dustin", "Dustin Dunning", "George Zamantakis", "Hall, Denise", "Hammell, Hank", "Hendricks, Marvin", "Hutcinson, Clayton", "Janksky, Brian", "Jim Barry", "Jones, Mark", "Kulow, Kyle", "Larimore, Mark", "Lewis, John", "McCoy, Tim", "O'Connell, David", "Patten, Andrew", "Perry, Bud (Smith Bits)", "Rees, John M", "Revert, Scott", "Ron Bond", "Ryan Thomas", "Shaun Burns", "Shawn Moulton", "Shelton, Shorty", "Smuin, Troy", "Sulzen, Joel", "Tujillo, Chris", "Vance Barber", "Weimer, Jeff", "Willis, Walton", "Winkler, Matt", "Wright, Brian", "Zaccardi, Zeke", "Zimmerman, Bill"
Date: 9/16/2010 10:41 AM
Subject: Kings Meadow Ranches 17-14 Update
CC: "Magill, Jack", "Treybig, Jerry"

ESTIMATED SCHEDULE					
DATE	DAY	START TIME	HR	DESCRIPTION	EQUIPMENT
15-Sep	Wednesday	0:00	16.50	Drill 1450-2047	Call Franks w/10 hrs notice at 1900', Call State/BLM Csg/Cmt job
15-Sep		16:30	1.00	CBU for wiper trip	
		17:30	2.50	Wiper trip to HWDP	Call Howco Cementers w/ 8 hrs notice
		20:00	1.00	CBU for casing	
		21:00	3.00	POOH for casing	
16-Sep	Thursday	0:00	7.00	RU and run casing	
		7:00	3.00	Circ and condition for cement	
		10:00	2.50	Cement casing	
		12:30	1.00	Top Job	
		13:30	3.00	Lay down 6 5/8" HWDP in mouse hole	
		16:30	12.00	WOC	Call FMC/Welder/DoubleJack
17-Sep	Friday	4:30	3.00	Cut off Casing, remove riser	
		7:30	3.00	Final cut and weld on braden head	
		10:30	1.00	Test weld	
		11:30	14.00	Nipple up BOPE	
18-Sep	Saturday	1:30	5.00	Pressure test BOPE	
		6:30			

Tom Zupan
 Drilling Supervisor
 Wolverine Gas and Oil Company of Utah, LLC
 Kings Meadow Ranches 17-14, AFE 236
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 Fax (435) 304-1222
 wolvexpl@drillmail.net

RECEIVED
 SEP 16 2010

DIV. OF OIL, GAS & MINING

Carol Daniels - Kings Meadow Ranches 17-14- notification of casing and cement job*T 235 R01W5-17 43 041-5 0003*

From: "Wolverine Exploration Rig"
To: "Jones, Mark" , "Doucet, Dustin" , "Daniels, Carol"
Date: 9/17/2010 9:42 AM
Subject: Kings Meadow Ranches 17-14- notification of casing and cement job
CC: "Higuera, Ed" , "Charlie Irons"

Mark,

To follow up on the cementing results of the surface casing and subsequent top job:

Ran 1" to 140', fluid level was 60', pumped 100 sx (21 bbls) of 15.8 ppg G with 2% CC, good returns, no cement to flowline, pulled 1" found cement at 20', drained riser and got cement into cellar. Hole standing full up to drain valves on conductor, the top of cement is 8' below ground level.

API No. 43041500030000

Regards,

Tom Zupan
Drilling Supervisor
Wolverine Gas and Oil Company of Utah, LLC
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wolvexpl@drillmail.net

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SEP 20 2010

DIV. OF OIL, GAS & MINING

Carol Daniels - Kings Meadow Ranches 17-14 Update

T 235 R 01 W 5-17 43-041-50003

From: "Wolverine Exploration Rig"
To: "Ainge, Jeff" , "Allen, Geoff" , "Arthurs, Shane" , "Bilby, Curt" , "Blair, Richard" ,
"Chamberlain, Don" , "Daniels, Carol" , "De la Torre, Juan C" , "Dieste, Bobby" , "Doucet,
Dustin" , "Dustin Dunning" , "George Zamantakis" , "Hall, Denise" , "Hammell, Hank" ,
"Hendricks, Marvin" , "Hutcinson, Clayton" , "Janksky, Brian" , "Jim Barry" , "Jones,
Mark" , "Kulow, Kyle" , "Larimore, Mark" , "Lewis, John" , "McCoy, Tim" , "O'Connell,
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"Ron Bond" , "Ryan Thomas" , "Shaun Burns" , "Shawn Moulton" , "Shelton, Shorty" ,
"Smuin, Troy" , "Sulzen, Joel" , "Tujillo, Chris" , "Vance Barber" , "Weimer, Jeff" , "Willis,
Walton" , "Winkler, Matt" , "Wright, Brian" , "Zaccardi, Zeke" , "Zimmerman, Bill"
Date: 9/18/2010 9:53 AM
Subject: Kings Meadow Ranches 17-14 Update
CC: "Magill, Jack" , "Treybig, Jerry"

9/18/2010 9:47 AM

Installed wear bushing, prep to pick up 8 ¾" bit and casing clean out assembly.

Forward plan:
Clean out casing and Rathole
Make 10' new hole
FIT
Make 10' hole to bury RSS tool.
POOH
Make up RSS assembly
TIH
Directionally drill to TD.

Tom Zupan
Drilling Supervisor
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wolvexpl@drillmail.net

RECEIVED

SEP 20 2010

DIV. OF OIL, GAS & MINING

Carol Daniels - Kings Meadow Ranches 17-14 Update T235 ROW S-17 43-041-50003

From: "Wolverine Exploration Rig"
To: "Ainge, Jeff" , "Allen, Geoff" , "Arthurs, Shane" , "Bilby, Curt" , "Blair, Richard" ,
"Chamberlain, Don" , "Daniels, Carol" , "De la Torre, Juan C" , "Dieste, Bobby" , "Doucet,
Dustin" , "Dustin Dunning" , "George Zamantakis" , "Hall, Denise" , "Hammell, Hank" ,
"Hendricks, Marvin" , "Hutcinson, Clayton" , "Janksy, Brian" , "Jim Barry" , "Jones,
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David" , "Patten, Andrew" , "Perry, Bud (Smith Bits)" , "Rees, John M" , "Revert, Scott" ,
"Ron Bond" , "Ryan Thomas" , "Shaun Burns" , "Shawn Moulton" , "Shelton, Shorty" ,
"Smuin, Troy" , "Sulzen, Joel" , "Tujillo, Chris" , "Vance Barber" , "Weimer, Jeff" , "Willis,
Walton" , "Winkler, Matt" , "Wright, Brian" , "Zaccardi, Zeke" , "Zimmerman, Bill"
Date: 9/19/2010 8:30 AM
Subject: Kings Meadow Ranches 17-14 Update
CC: "Magill, Jack" , "Treybig, Jerry"

9/19/2010 8:24 AM

Cleaned out shoe track, found casing tally problem, corrected casing setting depth to 2047', drilled 15' of new hole to 2062', circulated hole clean, performed FIT to 9.87 ppg, slug pipe and trip out for new BHA, made up WellGuide BHA and currently tripping in hole at 1935'

Forward plan:
Directionally drill to TD.
Condition Hole.
Log.
Condition hole.
Run casing.

Tom Zupan
Drilling Supervisor
Wolverine Gas and Oil Company of Utah, LLC
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wolvexpl@drillmail.net

RECEIVED

SEP 20 2010

DIV. OF OIL, GAS & MINING

Carol Daniels - Kings Meadow Ranches 17-14 Update *T 235 R014 S-17 43-041-5003*

From: "Wolverine Exploration Rig"
To: "Ainge, Jeff" , "Allen, Geoff" , "Arthurs, Shane" , "Bilby, Curt" , "Blair, Richard" ,
"Chamberlain, Don" , "Daniels, Carol" , "De la Torre, Juan C" , "Dieste, Bobby" , "Doucet,
Dustin" , "Dustin Dunning" , "George Zamantakis " , "Hall, Denise" , "Hammell, Hank" ,
"Hendricks, Marvin" , "Hutcinson, Clayton" , "Janksy, Brian" , "Jim Barry" , "Jones,
Mark" , "Kulow, Kyle" , "Larimore, Mark" , "Lewis, John" , "McCoy, Tim" , "O'Connell,
David" , "Patten, Andrew" , "Perry, Bud (Smith Bits)" , "Rees, John M" , "Revert, Scott" ,
"Ron Bond" , "Ryan Thomas" , "Shaun Burns" , "Shawn Moulton" , "Shelton, Shorty" ,
"Smuin, Troy" , "Sulzen, Joel" , "Tujillo, Chris" , "Vance Barber" , "Weimer, Jeff" , "Willis,
Walton" , "Winkler, Matt" , "Wright, Brian" , "Zaccardi, Zeke" , "Zimmerman, Bill"
Date: 9/21/2010 8:50 AM
Subject: Kings Meadow Ranches 17-14 Update
CC: "Magill, Jack" , "Treybig, Jerry"

9/21/2010 8:46 AM
Drilling 8 ¾" hole at 3160'.

Forward plan:
Directionally drill to TD 6700'.
Condition Hole.
Log.
Condition hole.
Run casing.

Tom Zupan
Drilling Supervisor
Wolverine Gas and Oil Company of Utah, LLC
Kings Meadow Ranches 17-14, AFE 236
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wolvexpl@drillmail.net

Carol Daniels - Kings Meadow Ranches 17-14 Update*T23S R01W S-17 43-041-50003*

From: "Wolverine Exploration Rig"
To: "Ainge, Jeff" , "Allen, Geoff" , "Arthurs, Shane" , "Bilby, Curt" , "Blair, Richard" ,
"Chamberlain, Don" , "Daniels, Carol" , "De la Torre, Juan C" , "Dieste, Bobby" , "Doucet,
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"Hendricks, Marvin" , "Hutcinson, Clayton" , "Janksky, Brian" , "Jim Barry" , "Jones,
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"Ron Bond" , "Ryan Thomas" , "Shaun Burns" , "Shawn Moulton" , "Shelton, Shorty" ,
"Smuin, Troy" , "Sulzen, Joel" , "Tujillo, Chris" , "Vance Barber" , "Weimer, Jeff" , "Willis,
Walton" , "Winkler, Matt" , "Wright, Brian" , "Zaccardi, Zeke" , "Zimmerman, Bill"
Date: 9/22/2010 9:25 AM
Subject: Kings Meadow Ranches 17-14 Update
CC: "Magill, Jack" , "Treybig, Jerry"

9/22/2010 9:21 AM
Drilling 8 3/4" at 3570'.

Forward plan:
Directionally drill to TD 6700'.
Condition Hole.
Log.
Condition hole.
Run casing.

Tom Zupan
Drilling Supervisor
Wolverine Gas and Oil Company of Utah, LLC
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RECEIVED
SEP 22 2010
DIV. OF OIL, GAS & MINING

Carol Daniels - Kings Meadow Ranches 17-14 Update *T235 K01W 5-17 4304150003*

From: "Wolverine Exploration Rig"
To: "Ainge, Jeff" , "Allen, Geoff" , "Arthurs, Shane" , "Blair, Richard" , "Brock Pope" ,
"Chamberlain, Don" , "Daniels, Carol" , "De la Torre, Juan C" , "Denton, Derek" , "Dieste,
Bobby" , "Doucet, Dustin" , "Dustin Dunning" , "George Zamantakis" , "Hall, Denise" ,
"Hammell, Hank" , "Hendricks, Marvin" , "Hutcinson, Clayton" , "Janksky, Brian" , "Jim
Barry" , "Jones, Mark" , "Kulow, Kyle" , "Larimore, Mark" , "Lewis, John" , "McCoy,
Charlene" , "McCoy, Tim" , "O'Connell, David" , "Perry, Bud (Smith Bits)" , "Pickup,
Marc" , "Rees, John M" , "Revert, Scott" , "Ryan Thomas" , "Shaun Burns" , "Shawn
Moulton" , "Shelton, Shorty" , "Smuin, Troy" , "Steffen, Dana" , "Sulzen, Joel" , "Tujillo,
Chris" , "Weimer, Jeff" , "Willis, Walton" , "Winkler, Matt" , "Wright, Brian" , "Zaccardi,
Zeke" , "Zimmerman, Bill"
Date: 9/29/2010 8:25 AM
Subject: Kings Meadow Ranches 17-14 Update

9/29/2010 8:21 AM

TIH at 2,100' with new bit.

Bill Donovan
Drilling Supervisor
Wolverine Gas and Oil Company of Utah, LLC
Kings Meadow Ranches 17-14, AFE 236
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wolvexpl@drillmail.net

RECEIVED

SEP 29 2010

DIV. OF OIL, GAS & MINING

Carol Daniels - Kings Meadow Ranches 17-14

T 235 ROW 5-17 43-041-5003

From: "Wolverine Exploration Rig"
To: "Ainge, Jeff" , "Allen, Geoff" , "Arthurs, Shane" , "Blair, Richard" , "Brock Pope" ,
"Chamberlain, Don" , "Daniels, Carol" , "De la Torre, Juan C" , "Denton, Derek" , "Dieste,
Bobby" , "Doucet, Dustin" , "Dustin Dunning" , "George Zamantakis" , "Hall, Denise" ,
"Hammell, Hank" , "Hendricks, Marvin" , "Hutcinson, Clayton" , "Janksky, Brian" , "Jim
Barry" , "Jones, Mark" , "Kulow, Kyle" , "Larimore, Mark" , "Lewis, John" , "McCoy,
Charlene" , "McCoy, Tim" , "O'Connell, David" , "Perry, Bud (Smith Bits)" , "Pickup,
Marc" , "Rees, John M" , "Revert, Scott" , "Ryan Thomas" , "Shaun Burns" , "Shawn
Moulton" , "Shelton, Shorty" , "Smuin, Troy" , "Steffen, Dana" , "Sulzen, Joel" , "Tujillo,
Chris" , "Weimer, Jeff" , "Willis, Walton" , "Winkler, Matt" , "Wright, Brian" , "Zaccardi,
Zeke" , "Zimmerman, Bill"
Date: 9/29/2010 12:10 AM
Subject: Kings Meadow Ranches 17-14

9/29/2010 12:05 AM

Depth 6,055'

Tripping out of hole for new bit

Bill Donovan
Drilling Supervisor
Wolverine Gas and Oil Company of Utah, LLC
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Carol Daniels - Kings Meadow Ranches 17-14 Update

T 235 ROW S-17 4304150003

From: "Wolverine Exploration Rig"
To: "Ainge, Jeff" , "Allen, Geoff" , "Arthurs, Shane" , "Blair, Richard" , "Brock Pope" ,
"Chamberlain, Don" , "Daniel Jenkins" , "Daniels, Carol" , "De la Torre, Juan C" , "Denton,
Derek" , "Dieste, Bobby" , "Doucet, Dustin" , "Dustin Dunning" , "George Zamantakis" ,
"Hall, Denise" , "Hammell, Hank" , "Harry Melnikoff" , "Hendricks, Marvin" , "Hutcinson,
Clayton" , "Janksy, Brian" , "Jim Barry" , "Jones, Mark" , "Kulow, Kyle" , "Larimore,
Mark" , "Lewis, John" , "McCoy, Charlene" , "McCoy, Tim" , "O'Connell, David" , "Perry,
Bud (Smith Bits)" , "Pickup, Marc" , "Rees, John M" , "Revert, Scott" , "Ryan Thomas" ,
"Shaun Burns" , "Shawn Moulton" , "Shelton, Shorty" , "Smuin, Troy" , "Steffen, Dana" ,
"Sulzen, Joel" , "Tujillo, Chris" , "Tyler Ross" , "Weimer, Jeff" , "Willis, Walton" , "Winkler,
Matt" , "Zaccardi, Zeke" , "Zimmerman, Bill"
Date: 9/29/2010 8:49 PM
Subject: Kings Meadow Ranches 17-14 Update

9/29/2010 8:43 PM

Drilling at 6,103'

TD 6,600-6,700'

TD expected on Friday if bit lasts

Bill Donovan
Drilling Supervisor
Wolverine Gas and Oil Company of Utah, LLC
Kings Meadow Ranches 17-14, AFE 236
Rig (970) 812-0022
Cell (720) 351-7470
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DIV. OF OIL, GAS & MINING

Carol Daniels - Kings Meadow Ranches 17-14 Update *T 233 ROPW S-17 436415003*

From: "Wolverine Exploration Rig"
To: "Ainge, Jeff" , "Allen, Geoff" , "Arthurs, Shane" , "Blair, Richard" , "Brock Pope" ,
"Chamberlain, Don" , "Daniel Jenkins" , "Daniels, Carol" , "De la Torre, Juan C" , "Denton,
Derek" , "Dieste, Bobby" , "Doucet, Dustin" , "Dustin Dunning" , "George Zamantakis" ,
"Hall, Denise" , "Hammell, Hank" , "Harry Melnikoff" , "Hendricks, Marvin" , "Hutcinson,
Clayton" , "Janksky, Brian" , "Jim Barry" , "Jones, Mark" , "Kulow, Kyle" , "Larimore,
Mark" , "Lewis, John" , "McCoy, Charlene" , "McCoy, Tim" , "O'Connell, David" , "Perry,
Bud (Smith Bits)" , "Pickup, Marc" , "Rees, John M" , "Revert, Scott" , "Ryan Thomas" ,
"Shaun Burns" , "Shawn Moulton" , "Shelton, Shorty" , "Smuin, Troy" , "Steffen, Dana" ,
"Sulzen, Joel" , "Tujillo, Chris" , "Tyler Ross" , "Weimer, Jeff" , "Willis, Walton" , "Winkler,
Matt" , "Zaccardi, Zeke" , "Zimmerman, Bill"
Date: 9/30/2010 10:29 AM
Subject: Kings Meadow Ranches 17-14 Update

9/30/2010 10:25 AM

Drilling at 6,180', ROP 6.1 FPH

Bill Donovan
Drilling Supervisor
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Carol Daniels - Kings Meadow Ranches 17-14 Update

T23S R01W S-17 43 041 50003

From: "Wolverine Exploration Rig"

To: "Ainge, Jeff" , "Allen, Geoff" , "Arthurs, Shane" , "Blair, Richard" , "Brock Pope" , "Chamberlain, Don" , "Daniel Jenkins" , "Daniels, Carol" , "De la Torre, Juan C" , "Denton, Derek" , "Dieste, Bobby" , "Doucet, Dustin" , "Dustin Dunning" , "George Zamantakis" , "Hall, Denise" , "Hammell, Hank" , "Harry Melnikoff" , "Hendricks, Marvin" , "Hutcinson, Clayton" , "Janksky, Brian" , "Jim Barry" , "Jones, Mark" , "Kulow, Kyle" , "Larimore, Mark" , "Lewis, John" , "McCoy, Charlene" , "McCoy, Tim" , "O'Connell, David" , "Perry, Bud (Smith Bits)" , "Pickup, Marc" , "Rees, John M" , "Revert, Scott" , "Ryan Thomas" , "Shaun Burns" , "Shawn Moulton" , "Shelton, Shorty" , "Smuin, Troy" , "Steffen, Dana" , "Sulzen, Joel" , "Tujillo, Chris" , "Tyler Ross" , "Weimer, Jeff" , "Willis, Walton" , "Winkler, Matt" , "Zaccardi, Zeke" , "Zimmerman, Bill"

Date: 9/30/2010 9:18 PM

Subject: Kings Meadow Ranches 17-14 Update

9/30/2010 9:13 PM

Drilling at 6,242', PR 3 FPH.

Geologist has good correlation.

TD 6600-6700

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DIV. OF OIL, GAS & MINING

Carol Daniels - Kings Meadow Ranches 17-14 Update

T 235 R 01W S-17 4304/5003

From: "Wolverine Exploration Rig"
To: "Ainge, Jeff" , "Allen, Geoff" , "Arthurs, Shane" , "Blair, Richard" , "Brock Pope" ,
"Chamberlain, Don" , "Daniel Jenkins" , "Daniels, Carol" , "De la Torre, Juan C" , "Denton,
Derek" , "Dieste, Bobby" , "Doucet, Dustin" , "Dustin Dunning" , "George Zamantakis" ,
"Hall, Denise" , "Hammell, Hank" , "Harry Melnikoff" , "Hendricks, Marvin" , "Hutcinson,
Clayton" , "Janksky, Brian" , "Jim Barry" , "Jones, Mark" , "Kulow, Kyle" , "Larimore,
Mark" , "Lewis, John" , "McCoy, Charlene" , "McCoy, Tim" , "O'Connell, David" , "Perry,
Bud (Smith Bits)" , "Pickup, Marc" , "Rees, John M" , "Revert, Scott" , "Ryan Thomas" ,
"Shaun Burns" , "Shawn Moulton" , "Shelton, Shorty" , "Smuin, Troy" , "Steffen, Dana" ,
"Sulzen, Joel" , "Tujillo, Chris" , "Tyler Ross" , "Weimer, Jeff" , "Willis, Walton" , "Winkler,
Matt" , "Zaccardi, Zeke" , "Zimmerman, Bill"
Date: 10/1/2010 8:52 AM
Subject: Kings Meadow Ranches 17-14 Update

10/1/2010 8:29 AM

Drilling at 6,268', ROP 3 FPH

A bit trip is planned prior TD

TD in 40 hours???

TD is 6600-6700

Bill Donovan
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OCT 01 2010

DIV. OF OIL, GAS & MINING

Carol Daniels - Kings Meadow Ranches 17-14 Update T 935 ROWS-17 43-04150003

From: "Wolverine Exploration Rig"
To: "Ainge, Jeff" , "Allen, Geoff" , "Arthurs, Shane" , "Blair, Richard" , "Brock Pope" ,
"Chamberlain, Don" , "Daniel Jenkins" , "Daniels, Carol" , "De la Torre, Juan C" , "Denton,
Derek" , "Dieste, Bobby" , "Doucet, Dustin" , "Dustin Dunning" , "George Zamantakis" ,
"Hall, Denise" , "Hammell, Hank" , "Harry Melnikoff" , "Hendricks, Marvin" , "Hutcinson,
Clayton" , "Janksky, Brian" , "Jim Barry" , "Jones, Mark" , "Kulow, Kyle" , "Larimore,
Mark" , "Lewis, John" , "McCoy, Charlene" , "McCoy, Tim" , "O'Connell, David" , "Perry,
Bud (Smith Bits)" , "Pickup, Marc" , "Rees, John M" , "Revert, Scott" , "Ryan Thomas" ,
"Shaun Burns" , "Shawn Moulton" , "Shelton, Shorty" , "Smuin, Troy" , "Steffen, Dana" ,
"Sulzen, Joel" , "Tujillo, Chris" , "Tyler Ross" , "Weimer, Jeff" , "Willis, Walton" , "Winkler,
Matt" , "Zaccardi, Zeke" , "Zimmerman, Bill"
Date: 10/2/2010 7:56 AM
Subject: Kings Meadow Ranches 17-14 Update

10/2/2010 7:48 AM

Drilling at 6,296', PR 15 FPH, Drilling fast formation

TD is between 6,600-6,700'

TD estimated to be in 15-20 hours.

Bill Donovan
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T 235 ROLWS-17 43 0415 00
[Redacted]

Carol Daniels - Kings Meadow Ranches 17-14 Update

From: "Wolverine Exploration Rig"
To: "Ainge, Jeff" , "Allen, Geoff" , "Arthurs, Shane" , "Blair, Richard" , "Brock Pope" ,
 "Chamberlain, Don" , "Daniel Jenkins" , "Daniels, Carol" , "De la Torre, Juan C" , "Denton,
 Derek" , "Dieste, Bobby" , "Doucet, Dustin" , "Dustin Dunning" , "George Zamantakis" ,
 "Hall, Denise" , "Hammell, Hank" , "Harry Melnikoff" , "Hendricks, Marvin" , "Hutcinson,
 Clayton" , "Janksy, Brian" , "Jim Barry" , "Jones, Mark" , "Kulow, Kyle" , "LaDee
 Roundy" , "Larimore, Mark" , "Lewis, John" , "McCoy, Charlene" , "McCoy, Tim" ,
 "O'Connell, David" , "Perry, Bud (Smith Bits)" , "Pickup, Marc" , "Rees, John M" , "Revert,
 Scott" , "Ryan Thomas" , "Shaun Burns" , "Shawn Moulton" , "Shelton, Shorty" , "Smuin,
 Troy" , "Steffen, Dana" , "Sulzen, Joel" , "Tujillo, Chris" , "Tyler Ross" , "Weimer, Jeff" ,
 "Willis, Walton" , "Winkler, Matt" , "Zaccardi, Zeke" , "Zimmerman, Bill"
Date: 10/2/2010 10:59 AM
Subject: Kings Meadow Ranches 17-14 Update

10/2/2010 10:53 AM

Drilling at 6,349', ROP 40 FPH

TD 12-24 hour

Bill Donovan
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Carol Daniels - Kings Meadow Ranches 17-14 Update

T 235 K O L W S - 17 4304150003

From: "Wolverine Exploration Rig"
To: "Ainge, Jeff", "Allen, Geoff", "Arthurs, Shane", "Blair, Richard", "Brock Pope", "Chamberlain, Don", "Daniel Jenkins", "Daniels, Carol", "De la Torre, Juan C", "Denton, Derek", "Dieste, Bobby", "Doucet, Dustin", "Dustin Dunning", "George Zamantakis", "Hall, Denise", "Hammell, Hank", "Harry Melnikoff", "Hendricks, Marvin", "Hutcinson, Clayton", "Janksky, Brian", "Jim Barry", "Jones, Mark", "Kulow, Kyle", "Larimore, Mark", "Lewis, John", "McCoy, Charlene", "McCoy, Tim", "O'Connell, David", "Perry, Bud (Smith Bits)", "Pickup, Marc", "Rees, John M", "Revert, Scott", "Ryan Thomas", "Shaun Burns", "Shawn Moulton", "Shelton, Shorty", "Smuin, Troy", "Steffen, Dana", "Sulzen, Joel", "Tujillo, Chris", "Tyler Ross", "Weimer, Jeff", "Willis, Walton", "Winkler, Matt", "Zaccardi, Zeke", "Zimmerman, Bill"
Date: 10/2/2010 10:52 PM
Subject: Kings Meadow Ranches 17-14 Update

3

ESTIMATED SCHEDULE					
DATE	DAY	START TIME	HR	DESCRIPTION	EQUIPMENT
2-Oct	Saturday	22:30	17.00	Drill 6434-6570' @ 8 fph	Call Howco Loggers w/ 12 hrs notice, 5 hrs from TD.
3-Oct	Sunday	15:30	2.00	CBU for trip	
		17:30	5.00	POOH for logs	
		22:30	1.00	RU Logging Crew	
		23:30	20.00	Logging	
4-Oct	Monday	19:30	6.00	TIH	Call State/BLM Csg/Cmt job 24 hrs notice
5-Oct	Tuesday	1:30	2.00	Circ and condition for casing	
		3:30	14.00	POOH and laydown drill string	Call Franks w/10 hrs notice while laying down drill pipe. Call Howco Cementers w/ 24 hrs notice
		17:30	1.00	Pull wear bushing, change rams	
		18:30	1.00	RU casing crew	
		19:30	11.00	Run casing	Call Howco Cementers w/ 12 hrs notice
6-Oct	Wednesday	6:30	2.00	Circ and condition for cement	
		8:30	3.00	Cement casing	
		11:30	12.00	WOC	Call FMC while WOC
		23:30	3.00	Pick up stack and set slips.	Call Welder
7-Oct	Thursday	2:30	2.00	Cut off casing and weld on cap	
		4:30	12.00	Nipple down BOPE	

Tom Zupan
 Drilling Supervisor
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 wolvexpl@drillmail.net

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OCT 02 2010

DIV. OF OIL, GAS & MINING

CONFIDENTIAL

Carol Daniels - Kings Meadow Ranches 17-14 Update

T 235 R 01 W 5-17 43-041-50003

From: "Wolverine Exploration Rig"
To: "Ainge, Jeff", "Allen, Geoff", "Arthurs, Shane", "Blair, Richard", "Brock Pope", "Chamberlain, Don", "Daniel Jenkins", "Daniels, Carol", "De la Torre, Juan C", "Denton, Derek", "Dieste, Bobby", "Doucet, Dustin", "Dustin Dunning", "George Zamantakis", "Hall, Denise", "Hammell, Hank", "Harry Melnikoff", "Hendricks, Marvin", "Hutcinson, Clayton", "Janksky, Brian", "Jim Barry", "Jones, Mark", "Kulow, Kyle", "Larimore, Mark", "Lewis, John", "McCoy, Charlene", "McCoy, Tim", "O'Connell, David", "Perry, Bud (Smith Bits)", "Pickup, Marc", "Rees, John M", "Revert, Scott", "Ryan Thomas", "Shaun Burns", "Shawn Moulton", "Shelton, Shorty", "Smuin, Troy", "Steffen, Dana", "Sulzen, Joel", "Tujillo, Chris", "Tyler Ross", "Weimer, Jeff", "Willis, Walton", "Winkler, Matt", "Zaccardi, Zeke", "Zimmerman, Bill"
Date: 10/3/2010 4:43 AM
Subject: Kings Meadow Ranches 17-14 Update

ESTIMATED SCHEDULE					
DATE	DAY	START TIME	HR	DESCRIPTION	EQUIPMENT
2-Oct	Saturday	22:30	9.00	Drill 6434-6570' @ 8 fph - current ROP 20 fph	Call Howco Loggers w/ 12 hrs notice, 5 hrs from TD. (40' from TD)
3-Oct	Sunday	7:30	2.00	CBU for trip	
		9:30	5.00	POOH for logs	
		14:30	1.00	RU Logging Crew	
4-Oct	Monday	15:30	20.00	Logging	
		11:30	6.00	TIH	Call State/BLM Csg/Cmt job 24 hrs notice
		17:30	2.00	Circ and condition for casing	
5-Oct	Tuesday	19:30	14.00	POOH and laydown drill string	Call Franks w/10 hrs notice while laying down drill pipe. Call Howco Cementers w/ 24 hrs notice
		9:30	1.00	Pull wear bushing, change rams	
		10:30	1.00	RU casing crew	
6-Oct	Wednesday	11:30	11.00	Run casing	Call Howco Cementers w/ 12 hrs notice
		22:30	2.00	Circ and condition for cement	
		0:30	3.00	Cement casing	
7-Oct	Thursday	3:30	12.00	WOC	Call FMC while WOC
		15:30	3.00	Pick up stack and set slips.	Call Welder
		18:30	2.00	Cut off casing and weld on cap	
		20:30	12.00	Nipple down BOPE	
7-Oct	Thursday	8:30			

Tom Zupan
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 wolvexpl@drillmail.net

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Carol Daniels - Kings Meadow Ranches 17-14 Update *T 235 R 01W S-17 43 041 50023*

From: "Wolverine Exploration Rig"
To: "Ainge, Jeff", "Allen, Geoff", "Arthurs, Shane", "Blair, Richard", "Brock Pope", "Chamberlain, Don", "Daniel Jenkins", "Daniels, Carol", "De la Torre, Juan C", "Denton, Derek", "Dieste, Bobby", "Doucet, Dustin", "Dustin Dunning", "George Zamantakis", "Hall, Denise", "Hammell, Hank", "Harry Melnikoff", "Hendricks, Marvin", "Hutcinson, Clayton", "Janksy, Brian", "Jim Barry", "Jones, Mark", "Kulow, Kyle", "Larimore, Mark", "Lewis, John", "McCoy, Charlene", "McCoy, Tim", "O'Connell, David", "Perry, Bud (Smith Bits)", "Pickup, Marc", "Rees, John M", "Revert, Scott", "Ryan Thomas", "Shaun Burns", "Shawn Moulton", "Shelton, Shorty", "Smuin, Troy", "Steffen, Dana", "Sulzen, Joel", "Tujillo, Chris", "Tyler Ross", "Weimer, Jeff", "Willis, Walton", "Winkler, Matt", "Zaccardi, Zeke", "Zimmerman, Bill"
Date: 10/4/2010 12:30 AM
Subject: Kings Meadow Ranches 17-14 Update

ESTIMATED SCHEDULE					
DATE	DAY	START TIME	HR	DESCRIPTION	EQUIPMENT
2-Oct	Saturday	22:30	12.50	Drill 6434-6570'	Call Howco Loggers w/ 12 hrs notice, 5 hrs from TD. (40' from TD)
3-Oct	Sunday	11:00	2.50	CBU for trip	
		13:30	5.50	POOH for logs	
		19:00	1.00	RU Logging Crew	
		20:00	12.00	Logging	
4-Oct	Monday	8:00	6.00	TIH, break circulation 3 times	Call State/BLM Csg/Cmt job 24 hrs notice
		14:00	2.00	Circ and condition for casing	
		16:00	10.00	POOH and laydown drill string	Call Franks w/10 hrs notice while laying down drill pipe. Call Howco Cementers w/ 24 hrs notice
		5-Oct	Tuesday	2:00	1.00
5-Oct	Tuesday	3:00	1.00	RU casing crew	Call Howco Cementers w/ 12 hrs notice
		4:00	11.00	Run casing	
		15:00	2.00	Circ and condition for cement, add water and mix thinners	Call FMC while running casing/ call IPS
		17:00	3.00	Cement casing	Call Welder
		20:00	1.00	Drop slips thru stack	
		21:00	2.00	Cut off casing and weld on cap	
		23:00	12.00	Nipple down BOPE	
6-Oct	Wednesday	11:00			

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 DIV. OF OIL, GAS & MINING

Carol Daniels - Kings Meadow Ranches 17-14 Update

T 235 ROWS-17 43-0415-0003

From: "Wolverine Exploration Rig"
To: "Ainge, Jeff", "Allen, Geoff", "Arthurs, Shane", "Blair, Richard", "Brock Pope", "Chamberlain, Don", "Daniel Jenkins", "Daniels, Carol", "De la Torre, Juan C", "Denton, Derek", "Dieste, Bobby", "Doucet, Dustin", "Dustin Dunning", "George Zamantakis", "Hall, Denise", "Hammell, Hank", "Harry Melnikoff", "Hendricks, Marvin", "Hutcinson, Clayton", "Janksky, Brian", "Jim Barry", "Jones, Mark", "Kulow, Kyle", "Larimore, Mark", "Lewis, John", "McCoy, Charlene", "McCoy, Tim", "O'Connell, David", "Perry, Bud (Smith Bits)", "Pickup, Marc", "Rees, John M", "Revert, Scott", "Ryan Thomas", "Shaun Burns", "Shawn Moulton", "Shelton, Shorty", "Smuin, Troy", "Steffen, Dana", "Sulzen, Joel", "Tujillo, Chris", "Tyler Ross", "Weimer, Jeff", "Willis, Walton", "Winkler, Matt", "Zaccardi, Zeke", "Zimmerman, Bill"
Date: 10/4/2010 9:03 AM
Subject: Kings Meadow Ranches 17-14 Update

				ESTIMATED SCHEDULE			
DATE	DAY	START TIME	HR	DESCRIPTION	EQUIPMENT		
2-Oct	Saturday	22:30	12.50	Drill 6434-6570'	Call Howco Loggers w/ 12 hrs notice, 5 hrs from TD. (40' from TD)		
3-Oct	Sunday	11:00	2.50	CBU for trip			
		13:30	5.50	POOH for logs			
		19:00	1.00	RU Logging Crew			
		20:00	14.00	Logging			
4-Oct	Monday	10:00	6.00	TIH, break circulation 3 times	Call State/BLM Csg/Cmt job 24 hrs notice		
		16:00	2.00	Circ and condition for casing			
		18:00	10.00	POOH and laydown drill string	Call Franks w/10 hrs notice while laying down drill pipe. Call Howco Cementers w/ 24 hrs notice		
5-Oct	Tuesday	4:00	1.00	Pull wear bushing, change rams			
		5:00	1.00	RU casing crew	Call Howco Cementers w/ 12 hrs notice		
		6:00	11.00	Run casing			
		17:00	2.00	Circ and condition for cement, add water and mix thinners	Call FMC while running casing/ call IPS		
		19:00	3.00	Cement casing	Call Welder		
		22:00	1.00	Drop slips thru stack			
		23:00	2.00	Cut off casing and weld on cap			
6-Oct	Wednesday	1:00	12.00	Nipple down BOPE			
		13:00					

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 OCT 04 2010

DIV. OF OIL, GAS & MINING

Carol Daniels - Kings Meadow Ranches 17-14- notification of casing and cement job

T 235 ROW S=17 4304150003

From: "Wolverine Exploration Rig"
To: "Jones, Mark" , "Doucet, Dustin" , "Daniels, Carol"
Date: 10/4/2010 6:40 PM
Subject: Kings Meadow Ranches 17-14- notification of casing and cement job
CC: "Higuera, Ed" , "Charlie Irons"

This is to notify you of our intent to run and cement 7" production casing of the Kings Meadow Ranches 17-14 on Wednesday afternoon and night. I will keep you updated as to the timing as the job nears. Please call if you have any questions.

API No. 43041500030000

Regards,

Tom Zupan
Drilling Supervisor
Wolverine Gas and Oil Company of Utah, LLC
Kings Meadow Ranches 17-14, AFE 236
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OCT 04 2010

DIV. OF OIL, GAS & MINING

Carol Daniels - Kings Meadow Ranches 17-14 Update

T935 R01W S-17 43041 50003

From: "Wolverine Exploration Rig"
To: "Ainge, Jeff", "Allen, Geoff", "Arthurs, Shane", "Blair, Richard", "Brock Pope", "Chamberlain, Don", "Daniel Jenkins", "Daniels, Carol", "De la Torre, Juan C", "Denton, Derek", "Dieste, Bobby", "Doucet, Dustin", "Dustin Dunning", "George Zamantakis", "Hall, Denise", "Hammell, Hank", "Harry Melnikoff", "Hendricks, Marvin", "Hutcinson, Clayton", "Janksy, Brian", "Jim Barry", "Jones, Mark", "Kulow, Kyle", "Larimore, Mark", "Lewis, John", "McCoy, Charlene", "McCoy, Tim", "O'Connell, David", "Perry, Bud (Smith Bits)", "Pickup, Marc", "Rees, John M", "Revert, Scott", "Ryan Thomas", "Shaun Burns", "Shawn Moulton", "Shelton, Shorty", "Smuin, Troy", "Steffen, Dana", "Sulzen, Joel", "Tujillo, Chris", "Tyler Ross", "Weimer, Jeff", "Willis, Walton", "Winkler, Matt", "Zaccardi, Zeke", "Zimmerman, Bill"
Date: 10/5/2010 4:51 AM
Subject: Kings Meadow Ranches 17-14 Update

ESTIMATED SCHEDULE					
DATE	DAY	START TIME	HR	DESCRIPTION	EQUIPMENT
2-Oct	Saturday	22:30	12.50	Drill 6434-6570'	Call Howco Loggers w/ 12 hrs notice, 5 hrs from TD. (40' from TD)
3-Oct	Sunday	11:00	2.50	CBU for trip	
		13:30	5.50	POOH for logs	
		19:00	1.00	RU Logging Crew	
4-Oct	Monday	20:00	17.00	Logging	
		13:00	8.00	TIH, break circulation 3 times	Call State/BLM Csg/Cmt job 24 hrs notice
		21:00	7.00	Work stuck pipe at 6260', pulled free.	
5-Oct	Tuesday	4:00	3.00	Wash and ream 6245-6570'.	
		7:00	1.00	Drill 10 ft of new hole to 6580'	
		8:00	2.00	Circ and condition for casing	
		10:00	10.00	POOH and laydown drill string	Call Franks w/10 hrs notice while laying down drill pipe. Call Howco Cementers w/ 24 hrs notice
6-Oct	Wednesday	20:00	1.00	Pull wear bushing.	
		21:00	1.00	RU casing crew	Call Howco Cementers w/ 12 hrs notice
		22:00	11.00	Run casing	
		9:00	2.00	Circ and condition for cement, add water and mix thinners	Call FMC while running casing/ call IPS
		11:00	3.00	Cement casing	Call Welder
7-Oct	Thursday	14:00	1.00	Drop slips thru stack	
		15:00	2.00	Cut off casing and weld on cap	
		17:00	12.00	Nipple down BOPE	

Tom Zupan
 Drilling Supervisor
 Wolverine Gas and Oil Company of Utah, LLC
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 Fax (435) 304-1222
 wolvexpi@drillmail.net

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OCT 05 2010

OF OIL, GAS & MINING

Carol Daniels - Kings Meadow Ranches 17-14 Update

T 235 R 01W S-17 430415 0003

From: "Wolverine Exploration Rig"
To: "Ainge, Jeff", "Allen, Geoff", "Arthurs, Shane", "Blair, Richard", "Brock Pope", "Chamberlain, Don", "Daniel Jenkins", "Daniels, Carol", "De la Torre, Juan C", "Denton, Derek", "Dieste, Bobby", "Doucet, Dustin", "Dustin Dunning", "George Zamantakis", "Hall, Denise", "Hammell, Hank", "Harry Melnikoff", "Hendricks, Marvin", "Hutcinson, Clayton", "Janksky, Brian", "Jim Barry", "Jones, Mark", "Kulow, Kyle", "Larimore, Mark", "Lewis, John", "McCoy, Charlene", "McCoy, Tim", "O'Connell, David", "Perry, Bud (Smith Bits)", "Pickup, Marc", "Rees, John M", "Revert, Scott", "Ryan Thomas", "Shaun Burns", "Shawn Moulton", "Shelton, Shorty", "Smuin, Troy", "Steffen, Dana", "Sulzen, Joel", "Tujillo, Chris", "Tyler Ross", "Weimer, Jeff", "Willis, Walton", "Winkler, Matt", "Zaccardi, Zeke", "Zimmerman, Bill"
Date: 10/5/2010 4:44 PM
Subject: Kings Meadow Ranches 17-14 Update

The reaming has proven to be very slow progress. Note delays in casing job.

				ESTIMATED SCHEDULE		
DATE	DAY	START TIME	HR	DESCRIPTION	EQUIPMENT	
2-Oct	Saturday	22:30	12.50	Drill 6434-6570'	Call Howco Loggers w/ 12 hrs notice, 5 hrs from TD. (40' from TD)	
3-Oct	Sunday	11:00	2.50	CBU for trip		
		13:30	5.50	POOH for logs		
		19:00	1.00	RU Logging Crew		
		20:00	17.00	Logging		
4-Oct	Monday	13:00	8.00	TIH, break circulation 3 times	Call State/BLM Csg/Cmt job 24 hrs notice	
		21:00	8.00	Work stuck pipe at 6260', pulled free.		
5-Oct	Tuesday	5:00	31.00	Wash and ream 6245-6570'.	Call Franks w/10 hrs notice while laying down drill pipe. Call Howco Cementers w/ 24 hrs notice	
6-Oct	Wednesday	12:00	1.00	Drill 10 ft of new hole to 6580'		
		13:00	2.00	Circulate and condition for casing.		
		15:00	1.00	Pull out of hole		
		16:00	1.00	Pull wear bushing.		
		17:00	1.00	RU casing crew	Call Howco Cementers w/ 12 hrs notice, Call Mark Jones when start run casing.	
		18:00	11.00	Run casing		
7-Oct	Thursday	5:00	2.00	Circ and condition for cement, add water and mix thinners	Call FMC while running casing.	
		7:00	3.00	Cement casing	Call Welder	
		10:00	1.00	Drop slips thru stack		
		11:00	2.00	Cut off casing and weld on cap		
		13:00	1.00	Set down BOP on braden head		
		14:00	12.00	Lay down drill string from mouse hole	Call IPS	
8-Oct	Friday	2:00	10.00	Nipple down BOP		
		12:00				

Tom Zupan
 Drilling Supervisor
 Wolverine Gas and Oil Company of Utah, LLC
 Kings Meadow Ranches 17-14, AFE 236
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 wolvexpl@drillmail.net

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OCT 06 2010

DIV. OF OIL, GAS & MINING

Carol Daniels - Kings Meadow Ranches 17-14 Update

T 235 ROLW 5-17 4304150003

From: "Wolverine Exploration Rig"
To: "Ainge, Jeff", "Allen, Geoff", "Arthurs, Shane", "Blair, Richard", "Brock Pope", "Chamberlain, Don", "Daniel Jenkins", "Daniels, Carol", "De la Torre, Juan C", "Denton, Derek", "Dieste, Bobby", "Doucet, Dustin", "Dustin Dunning", "George Zamantakis", "Hall, Denise", "Hammell, Hank", "Harry Melnikoff", "Hendricks, Marvin", "Hutcinson, Clayton", "Janksy, Brian", "Jim Barry", "Jones, Mark", "Kulow, Kyle", "Larimore, Mark", "Lewis, John", "McCoy, Charlene", "McCoy, Tim", "O'Connell, David", "Perry, Bud (Smith Bits)", "Pickup, Marc", "Rees, John M", "Revert, Scott", "Ryan Thomas", "Shaun Burns", "Shawn Moulton", "Shelton, Shorty", "Smuin, Troy", "Steffen, Dana", "Sulzen, Joel", "Tujillo, Chris", "Tyler Ross", "Weimer, Jeff", "Willis, Walton", "Winkler, Matt", "Zaccardi, Zeke", "Zimmerman, Bill"
Date: 10/5/2010 9:55 PM
Subject: Kings Meadow Ranches 17-14 Update

The reaming ROP has improved at 6400' from 10 fph to 20 fph.

				ESTIMATED SCHEDULE		
DATE	DAY	START TIME	HR	DESCRIPTION	EQUIPMENT	
5-Oct	Tuesday	5:00	24.00	Wash and ream 6245-6570'.	Call Franks w/10 hrs notice while laying down drill pipe. Call Howco Cementers w/ 24 hrs notice	
6-Oct	Wednesday	5:00	1.00	Drill 10 ft of new hole to 6580'		
		6:00	2.00	Circulate and condition for casing.		
		8:00	5.00	Pull out of hole		
		13:00	1.00	Pull wear bushing.		
		14:00	1.00	RU casing crew	Call Howco Cementers w/ 12 hrs notice, Call Mark Jones when start run casing.	
7-Oct	Thursday	15:00	11.00	Run casing		
		2:00	2.00	Circ and condition for cement, add water and mix thinners	Call FMC while running casing.	
		4:00	3.00	Cement casing	Call Welder	
		7:00	1.00	Drop slips thru stack		
		8:00	2.00	Cut off casing and weld on cap		
8-Oct	Friday	10:00	1.00	Set down BOP on braden head		
		11:00	12.00	Lay down drill string from mouse hole	Call IPS	
		23:00	10.00	Nipple down BOP		
8-Oct	Friday	9:00				

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DIV. OF OIL, GAS & MINING

Carol Daniels - Kings Meadow Ranches 17-14 Update

+ 235 ROLW 5-17 43-041-50003

From: "Wolverine Exploration Rig"
To: "Ainge, Jeff", "Allen, Geoff", "Arthurs, Shane", "Blair, Richard", "Brock Pope", "Chamberlain, Don", "Daniel Jenkins", "Daniels, Carol", "De la Torre, Juan C", "Denton, Derek", "Dieste, Bobby", "Doucet, Dustin", "Dustin Dunning", "George Zamantakis", "Hall, Denise", "Hammell, Hank", "Harry Melnikoff", "Hendricks, Marvin", "Hutcinson, Clayton", "Janksy, Brian", "Jim Barry", "Jones, Mark", "Kulow, Kyle", "Larimore, Mark", "Lewis, John", "McCoy, Charlene", "McCoy, Tim", "O'Connell, David", "Perry, Bud (Smith Bits)", "Pickup, Marc", "Rees, John M", "Revert, Scott", "Ryan Thomas", "Shaun Burns", "Shawn Moulton", "Shelton, Shorty", "Smuin, Troy", "Steffen, Dana", "Sulzen, Joel", "Tujillo, Chris", "Tyler Ross", "Weimer, Jeff", "Willis, Walton", "Winkler, Matt", "Zaccardi, Zeke", "Zimmerman, Bill"
Date: 10/6/2010 7:25 AM
Subject: Kings Meadow Ranches 17-14 Update

ESTIMATED SCHEDULE					
DATE	DAY	START TIME	HR	DESCRIPTION	EQUIPMENT
5-Oct	Tuesday	5:00	27.50	Wash and ream 6245-6570'.	Call Franks w/10 hrs notice while laying down drill pipe. Call Howco Cementers w/ 24 hrs notice
6-Oct	Wednesday	8:30	1.00	Drill 10 ft of new hole to 6580'	
		9:30	2.00	Circulate and condition for casing.	
		11:30	5.00	Pull out of hole	
		16:30	1.00	Pull wear bushing.	
		17:30	1.00	RU casing crew	Call Howco Cementers w/ 12 hrs notice, Call Mark Jones when start run casing.
7-Oct	Thursday	18:30	11.00	Run casing	
		5:30	2.00	Circ and condition for cement, add water and mix thinners	Call FMC while running casing.
		7:30	3.00	Cement casing	Call Welder
		10:30	1.00	Drop slips thru stack	
		11:30	2.00	Cut off casing and weld on cap	
8-Oct	Friday	13:30	1.00	Set down BOP on braden head	
		14:30	12.00	Lay down drill string from mouse hole	Call IPS
		2:30	10.00	Nipple down BOP	
		12:30			

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 OCT 06 2010

DIV. OF OIL, GAS & MINING

Carol Daniels - Kings Meadow Ranches 17-14 Update *T 235 R014 S-17 93-041-50003*

From: "Wolverine Exploration Rig"
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Date: 10/6/2010 1:10 PM
Subject: Kings Meadow Ranches 17-14 Update

TD'd at 6580'

ESTIMATED SCHEDULE					
DATE	DAY	START TIME	HR	DESCRIPTION	EQUIPMENT
5-Oct	Tuesday	5:00	27.50	Wash and ream 6245-6570'.	Call Franks w/10 hrs notice while laying down drill pipe. Call Howco Cementers w/ 24 hrs notice
6-Oct	Wednesday	8:30	4.50	Drill 10 ft of new hole to 6580'	
		13:00	2.00	Circulate and condition for casing.	
		15:00	5.00	Pull out of hole	
		20:00	1.00	Pull wear bushing.	
		21:00	1.00	RU casing crew	Call Howco Cementers w/ 12 hrs notice, Call Mark Jones when start run casing.
7-Oct	Thursday	22:00	11.00	Run casing	
		9:00	2.00	Circ and condition for cement, add water and mix thinners	Call FMC while running casing.
		11:00	3.00	Cement casing	Call Welder
		14:00	1.00	Drop slips thru stack	
		15:00	2.00	Cut off casing and weld on cap	
		17:00	1.00	Set down BOP on braden head	
8-Oct	Friday	18:00	12.00	Lay down drill string from mouse hole	Call IPS
		6:00	10.00	Nipple down BOP	
		16:00			

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OCT 06 2010

DIV OF OIL, GAS & MINING

Carol Daniels - Kings Meadow Ranches 17-14 Update

T 235 Rolw 5-17 430415003

From: "Wolverine Exploration Rig"

To: "Ainge, Jeff", "Allen, Geoff", "Arthurs, Shane", "Blair, Richard", "Brock Pope", "Chamberlain, Don", "Daniel Jenkins", "Daniels, Carol", "De la Torre, Juan C", "Denton, Derek", "Dieste, Bobby", "Doucet, Dustin", "Dustin Dunning", "George Zamantakis", "Hall, Denise", "Hammell, Hank", "Harry Melnikoff", "Hendricks, Marvin", "Hutcinson, Clayton", "Janksky, Brian", "Jim Barry", "Jones, Mark", "Kulow, Kyle", "Larimore, Mark", "Lewis, John", "McCoy, Charlene", "McCoy, Tim", "O'Connell, David", "Perry, Bud (Smith Bits)", "Pickup, Marc", "Rees, John M", "Revert, Scott", "Ryan Thomas", "Shaun Burns", "Shawn Moulton", "Shelton, Shorty", "Smuin, Troy", "Steffen, Dana", "Sulzen, Joel", "Tujillo, Chris", "Tyler Ross", "Weimer, Jeff", "Willis, Walton", "Winkler, Matt", "Zaccardi, Zeke", "Zimmerman, Bill"

Date: 10/7/2010 6:12 AM

Subject: Kings Meadow Ranches 17-14 Update

10/7/2010 6:08 AM

Running 7" casing at 4025'.

DATE	DAY	START TIME	HR	DESCRIPTION	EQUIPMENT
5-Oct	Tuesday	5:00	27.50	Wash and ream 6245-6570'.	Call Franks w/10 hrs notice while laying down drill pipe. Call Howco Cementers w/ 24 hrs notice
6-Oct	Wednesday	8:30	4.50	Drill 10 ft of new hole to 6580'	
		13:00	2.00	Circulate and condition for casing.	
		15:00	5.50	Pull out of hole	
		20:30	1.00	Pull wear bushing.	
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		6:30	10.00	Nipple down BOP	
		16:30			

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OCT 07 2010

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: Patented	

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: Kings Meadow Ranches 17-14
------------------------------------	---------------------------------------------------------------

2. NAME OF OPERATOR: WOLVERINE GAS & OIL COMPANY OF UTAH, LLC	9. API NUMBER: 43041500030000
-------------------------------------------------------------------------	-----------------------------------------

3. ADDRESS OF OPERATOR: One Riverfront Plaza 55 Campau NW, Grand Rapids, MI, 49503	PHONE NUMBER: 616 458-1150 Ext	9. FIELD and POOL or WILDCAT: COVENANT
----------------------------------------------------------------------------------------------	------------------------------------------	--------------------------------------------------

4. LOCATION OF WELL FOOTAGES AT SURFACE: 1851 FNL 1961 FWL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: SENW Section: 17 Township: 23.0S Range: 01.0W Meridian: S	COUNTY: SEVIER
STATE: UTAH	

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

TYPE OF SUBMISSION	TYPE OF ACTION		
<input type="checkbox"/> NOTICE OF INTENT Approximate date work will start:	<input type="checkbox"/> ACIDIZE <input type="checkbox"/> 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 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: 50px;" type="text"/>
<input type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion:			
<input type="checkbox"/> SPUD REPORT Date of Spud:			
<input checked="" type="checkbox"/> DRILLING REPORT Report Date: 10/14/2010			

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.
 Please see attached report for details

**Accepted by the
 Utah Division of
 Oil, Gas and Mining
 FOR RECORD ONLY**
 October 19, 2010

NAME (PLEASE PRINT) Helene Bardolph	PHONE NUMBER 616 458-1150	TITLE Engineering Administrative Assistant
SIGNATURE N/A	DATE 10/14/2010	

Wolverine Gas and Oil Company of Utah, LLC
 Kings Meadow Ranches 17-14
 API #41500030000
 SESW, Section 17, T23S, R1W
 Sevier County, Utah

9-4-10

Depth 0, Well spud for conductor

Mud Weight	Not Reported	Funnel Viscosity	Not Reported	API Fluid Loss	Not Reported
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9-5-10

Depth 120', Cemented conductor pipe

Mud Weight	Not Reported	Funnel Viscosity	Not Reported	API Fluid Loss	Not Reported
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9-6-10

Depth 120', moving equipment

Mud Weight	Not Reported	Funnel Viscosity	Not Reported	API Fluid Loss	Not Reported
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9-7-10

Depth 120', moving equipment

Mud Weight	Not Reported	Funnel Viscosity	Not Reported	API Fluid Loss	Not Reported
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9-8-10

Depth 120', moving equipment, set up rig

Mud Weight	Not Reported	Funnel Viscosity	Not Reported	API Fluid Loss	Not Reported
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9-9-10

Depth 120', moving equipment, set up rig

Mud Weight	Not Reported	Funnel Viscosity	Not Reported	API Fluid Loss	Not Reported
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9-10-10

Depth 120', moving equipment, set up rig

Mud Weight	Not Reported	Funnel Viscosity	Not Reported	API Fluid Loss	Not Reported
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9-11-10

Depth 120', set up rig

Mud Weight	Not Reported	Funnel Viscosity	Not Reported	API Fluid Loss	Not Reported
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9-12-1

Depth 120', rig up

Mud Weight	Not Reported	Funnel Viscosity	Not Reported	API Fluid Loss	Not Reported
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9-13-10

Depth 120', rig up

Mud Weight	8.4 lb/gal	Funnel Viscosity	29 sec	API Fluid Loss	Not Reported
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9-14-10

Depth 701', Drilling, Survey .80 at 556'

Mud Weight	8.8 lb/gal	Funnel Viscosity	45 sec	API Fluid Loss	NC
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9-15-10

Depth 1,700', Drilling, Survey 1.10 at 1,594'

Mud Weight	8.8 lb/gal	Funnel Viscosity	39 sec	API Fluid Loss	NC
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9-16-10

Depth 2,047', Drilling, run casing, Survey 1.8 at 1,995'

Mud Weight	9.0 lb/gal	Funnel Viscosity	36 sec	API Fluid Loss	20 cc
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9-17-10

Depth 2,047', Run casing, cement

Mud Weight	10.2 lb/gal	Funnel Viscosity	28 sec	API Fluid Loss	Not reported
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9-18-10

Depth 2,047', cement and testing casing

Mud Weight	9.8 lb/gal	Funnel Viscosity	68 sec	API Fluid Loss	20 cc
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9-19-10

Depth 2,062', TIH, circulate, drilling, Survey 2.0 at 2,044'

Mud Weight	9.5 lb/gal	Funnel Viscosity	41 sec	API Fluid Loss	18 cc
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9-20-10

Depth 2,575', Drilling, Survey 5.60 at 2,462'

Mud Weight	10.2 lb/gal	Funnel Viscosity	56 sec	API Fluid Loss	15.5 cc
------------	-------------	------------------	--------	----------------	---------

9-21-10

Depth 3,075', Drilling, Survey 13.7 at 2,935'

Mud Weight	10.3 lb/gal	Funnel Viscosity	52 sec	API Fluid Loss	7.5 cc
------------	-------------	------------------	--------	----------------	--------

9-22-10

Depth 3,495', Drilling, sweeping, circulating, Survey 12.9 at 3,414'

Mud Weight	10.3 lb/gal	Funnel Viscosity	57 sec	API Fluid Loss	7 cc
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9-23-10

Depth 4,223', Drilling, Survey 14.0 at 4,080'

Mud Weight	10.4 lb/gal	Funnel Viscosity	52 sec	API Fluid Loss	8 cc
------------	-------------	------------------	--------	----------------	------

9-24-10

Depth 4,796', Drilling, Survey 13.6 at 4,650'

Mud Weight	10.4 lb/gal	Funnel Viscosity	58 sec	API Fluid Loss	7.3 cc
------------	-------------	------------------	--------	----------------	--------

9-25-10

Depth 5,205', Service, drilling, Survey 3.9 at 5,102'

Mud Weight	10.45 lb/gal	Funnel Viscosity	59 sec	API Fluid Loss	7.6 cc
------------	--------------	------------------	--------	----------------	--------

9-26-10

Depth 5,475', Service, drilling, Survey 5 at 5,389'

Mud Weight	10.5 lb/gal	Funnel Viscosity	59 sec	API Fluid Loss	7 cc
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9-27-10

Depth 5,818', Service, drilling, Survey 3.1 at 5,770'

Mud Weight	10.5 lb/gal	Funnel Viscosity	58 sec	API Fluid Loss	5.9 cc
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9-28-10

Depth 5,918', TIH, Service, drilling, Survey 4.3 at 5,833'

Mud Weight	10.5 lb/gal	Funnel Viscosity	59 sec	API Fluid Loss	6.2 cc
------------	-------------	------------------	--------	----------------	--------

9-29-10

Depth 6,055', Drilling, Survey 4.0 at 5,986'

Mud Weight	10.5 lb/gal	Funnel Viscosity	58 sec	API Fluid Loss	6.6 cc
------------	-------------	------------------	--------	----------------	--------

9-30-10

Depth 6,159', TIH, Service, drilling, Survey .1 at 6,046'

Mud Weight	10.5 lb/gal	Funnel Viscosity	54 sec	API Fluid Loss	6 cc
------------	-------------	------------------	--------	----------------	------

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING	FORM 9
5. LEASE DESIGNATION AND SERIAL NUMBER: Patented	

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: Kings Meadow Ranches 17-14
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2. NAME OF OPERATOR: WOLVERINE GAS & OIL COMPANY OF UTAH, LLC	9. API NUMBER: 43041500030000
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3. ADDRESS OF OPERATOR: One Riverfront Plaza 55 Campau NW, Grand Rapids, MI, 49503	PHONE NUMBER: 616 458-1150 Ext	9. FIELD and POOL or WILDCAT: COVENANT
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4. LOCATION OF WELL FOOTAGES AT SURFACE: 1851 FNL 1961 FWL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: SENW Section: 17 Township: 23.0S Range: 01.0W Meridian: S	COUNTY: SEVIER
STATE: UTAH	

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

TYPE OF SUBMISSION	TYPE OF ACTION		
<input type="checkbox"/> NOTICE OF INTENT Approximate date work will start:	<input type="checkbox"/> ACIDIZE <input type="checkbox"/> 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 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: 50px;" type="text"/>
<input type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion:			
<input type="checkbox"/> SPUD REPORT Date of Spud:			
<input checked="" type="checkbox"/> DRILLING REPORT Report Date: 10/31/2010			

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.
 Please see attached October 2010 drilling report for details.

Accepted by the
 Utah Division of
 Oil, Gas and Mining
FOR RECORD ONLY
 11/18/2010

NAME (PLEASE PRINT) Helene Bardolph	PHONE NUMBER 616 458-1150	TITLE Engineering Administrative Assistant
SIGNATURE N/A	DATE 11/18/2010	

Wolverine Gas and Oil Company of Utah, LLC
 Kings Meadow Ranches 17-14
 API #41500030000
 SESW, Section 17, T23S, R1W
 Sevier County, Utah

10-1-10

Depth 6,263', drilling

Mud Weight	10.55 lb/gal	Funnel Viscosity	58 sec	API Fluid Loss	5.3 cc
------------	--------------	------------------	--------	----------------	--------

10-2-10

Depth 6,280', drilling, TOH, BOP test, drilling

Mud Weight	10.5 lb/gal	Funnel Viscosity	58 sec	API Fluid Loss	6.3 cc
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10-3-10

Depth 6,513'', drilling

Mud Weight	10.50 lb/gal	Funnel Viscosity	58 sec	API Fluid Loss	6.8 cc
------------	--------------	------------------	--------	----------------	--------

10-4-10

Depth 6,570', drilling, logging

Mud Weight	10.50 lb/gal	Funnel Viscosity	55 sec	API Fluid Loss	6.4 cc
------------	--------------	------------------	--------	----------------	--------

10-5-10

Depth 6,570', logging, TIH, work stuck pipe

Mud Weight	10.60 lb/gal	Funnel Viscosity	56 sec	API Fluid Loss	6.0 cc
------------	--------------	------------------	--------	----------------	--------

10-6-10

Depth 6,570', cleaning hole

Mud Weight	10.55 lb/gal	Funnel Viscosity	56 sec	API Fluid Loss	6.3 cc
------------	--------------	------------------	--------	----------------	--------

10-7-10

Depth 6,580', drilling, TD, begin running casing

Mud Weight	10.55 lb/gal	Funnel Viscosity	53 sec	API Fluid Loss	6.8 cc
------------	--------------	------------------	--------	----------------	--------

10-8-10

Depth 6,580', running casing, cementing

Mud Weight	10.45 lb/gal	Funnel Viscosity	43 sec	API Fluid Loss	7.4 cc
------------	--------------	------------------	--------	----------------	--------

10-9-10

Depth 6,580', clean up, rig on standby

Mud Weight	Not Reported	Funnel Viscosity	Not Reported	API Fluid Loss	Not Reported
------------	--------------	------------------	--------------	----------------	--------------

10-10-10

Depth 6,580', rigging down

Mud Weight	Not Reported	Funnel Viscosity	Not Reported	API Fluid Loss	Not Reported
------------	--------------	------------------	--------------	----------------	--------------

10-11-10

Depth 6,580', Rigging down

Mud Weight	Not Reported	Funnel Viscosity	Not Reported	API Fluid Loss	Not Reported
------------	--------------	------------------	--------------	----------------	--------------

10-12-10

Depth 6,580', Rig released

Mud Weight	Not Reported	Funnel Viscosity	Not Reported	API Fluid Loss	Not Reported
------------	--------------	------------------	--------------	----------------	--------------

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

CONFIDENTIAL
AMENDED REPORT
(highlight changes)

FORM 8

WELL COMPLETION OR RECOMPLETION REPORT AND LOG						5. LEASE DESIGNATION AND SERIAL NUMBER: UTU-73528				
1a. TYPE OF WELL: OIL WELL <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> DRY <input type="checkbox"/> OTHER _____						6. IF INDIAN, ALLOTTEE OR TRIBE NAME				
b. TYPE OF WORK: NEW WELL <input checked="" type="checkbox"/> HORIZ. LATS. <input type="checkbox"/> DEEP-EN <input type="checkbox"/> RE-ENTRY <input type="checkbox"/> DIFF. RESVR. <input type="checkbox"/> OTHER _____						7. UNIT or CA AGREEMENT NAME Wolverine Federal Unit				
2. NAME OF OPERATOR: Wolverine Gas & Oil Company of Utah, LLC						8. WELL NAME and NUMBER: Kings Meadow Ranches 17-14				
3. ADDRESS OF OPERATOR: 55 Campau NW CITY Grand Rapids STATE MI ZIP 49503					PHONE NUMBER: (616) 458-1150	9. API NUMBER: 4304150003				
4. LOCATION OF WELL (FOOTAGES) AT SURFACE: 1851' FNL, 1961' FWL, Sec 17, T23S, R1W AT TOP PRODUCING INTERVAL REPORTED BELOW: 1320' FNL, 2230' FWL, Sec 17, T23S, R1W AT TOTAL DEPTH: 1320' FNL, 2230' FWL, Sec 17, T23S, R1W						10 FIELD AND POOL, OR WLDCAT Covenant				
						11. QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: SENW 17 23S 1W S				
						12. COUNTY Sevier		13. STATE UTAH		
14. DATE SPUDDED: 9/14/2010		15. DATE T.D. REACHED: 10/7/2010		16. DATE COMPLETED: 12/11/2010		ABANDONED <input type="checkbox"/> READY TO PRODUCE <input checked="" type="checkbox"/>		17. ELEVATIONS (DF, RKB, RT, GL): 5749 KB		
18. TOTAL DEPTH: MD 6,580 TVD 6,515		19. PLUG BACK T.D.: MD 6,563 TVD 6,498 508		20. IF MULTIPLE COMPLETIONS, HOW MANY? *		21. DEPTH BRIDGE MD PLUG SET: TVD				
22. TYPE ELECTRIC AND OTHER MECHANICAL LOGS RUN (Submit copy of each) SD-DSN, BVP, Sonic, DLL, CBL/GR/CCL, mud						23. WAS WELL CORED? NO <input checked="" type="checkbox"/> YES <input type="checkbox"/> (Submit analysis) WAS DST RUN? NO <input checked="" type="checkbox"/> YES <input type="checkbox"/> (Submit report) DIRECTIONAL SURVEY? NO <input type="checkbox"/> YES <input checked="" type="checkbox"/> (Submit copy)				
24. CASING AND LINER RECORD (Report all strings set in well)										
HOLE SIZE	SIZE/GRADE	WEIGHT (#/ft.)	TOP (MD)	BOTTOM (MD)	STAGE CEMENTER DEPTH	CEMENT TYPE & NO. OF SACKS	SLURRY VOLUME (BBL)	CEMENT TOP **	AMOUNT PULLED	
20	16	.25 wall	0	143		class G 480	98	surface		
12.25	9 5/8 J55	36 #	0	2,047		Versa 515	197	140'		
						class G 100	21	8'		
8.75	7 L 80	26 #	0	6,580		970	292	surface		
25. TUBING RECORD										
SIZE	DEPTH SET (MD)	PACKER SET (MD)	SIZE	DEPTH SET (MD)	PACKER SET (MD)	SIZE	DEPTH SET (MD)	PACKER SET (MD)		
26. PRODUCING INTERVALS										
FORMATION NAME	TOP (MD)	BOTTOM (MD)	TOP (TVD)	BOTTOM (TVD)	27. PERFORATION RECORD		INTERVAL (Top/Bot - MD)	SIZE	NO. HOLES	PERFORATION STATUS
(A) Navajo	5,992	6,580	5,928	6,515	6,078	6,124	.40	180	Open <input checked="" type="checkbox"/> Squeezed <input type="checkbox"/>	
(B)					6,152	6,192	.40	104	Open <input type="checkbox"/> Squeezed <input checked="" type="checkbox"/>	
(C)					6,216	6,228	.40	48	Open <input type="checkbox"/> Squeezed <input checked="" type="checkbox"/>	
(D)					6,296	6,316	.40	48	Open <input type="checkbox"/> Squeezed <input checked="" type="checkbox"/>	
28. ACID, FRACTURE, TREATMENT, CEMENT SQUEEZE, ETC.										
DEPTH INTERVAL		AMOUNT AND TYPE OF MATERIAL								
6152-6192		55 sks 15.8 ppg Squeeze Cem 1.15 cu.ft./sk								
6216-6228		25 sks 15.8 ppg Squeeze Cem 1.15 cu.ft./sk								
		25 sks 15.8 ppg Squeeze Cem 1.15 cu.ft./sk								
29. ENCLOSED ATTACHMENTS:								30. WELL STATUS:		
<input checked="" type="checkbox"/> ELECTRICAL/MECHANICAL LOGS				<input checked="" type="checkbox"/> GEOLOGIC REPORT		<input type="checkbox"/> DST REPORT		<input checked="" type="checkbox"/> DIRECTIONAL SURVEY		
<input type="checkbox"/> SUNDRY NOTICE FOR PLUGGING AND CEMENT VERIFICATION				<input type="checkbox"/> CORE ANALYSIS		<input type="checkbox"/> OTHER: _____				

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31. INITIAL PRODUCTION

INTERVAL A (As shown in item #26)

DATE FIRST PRODUCED: 12/9/2010		TEST DATE: 12/14/2010		HOURS TESTED: 24		TEST PRODUCTION RATES: →		OIL - BBL: 376	GAS - MCF:	WATER - BBL: 0	PROD. METHOD: Esp
CHOKE SIZE:	TBG. PRESS. 149	CSG. PRESS. 13	API GRAVITY 40.00	BTU - GAS	GAS/OIL RATIO 20	24 HR PRODUCTION RATES: →	OIL - BBL: 376	GAS - MCF:	WATER - BBL: 0	INTERVAL STATUS: Producing	

INTERVAL B (As shown in item #26)

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

INTERVAL C (As shown in item #26)

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

INTERVAL D (As shown in item #26)

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

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

33. SUMMARY OF POROUS ZONES (Include Aquifers):

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

34. FORMATION (Log) MARKERS:

Formation	Top (MD)	Bottom (MD)	Descriptions, Contents, etc.	Name	Top (Measured Depth)
Navajo	5,992	6,580	Oil and water	Arapien Twin Creek Navajo	0 5,705 5,992

35. ADDITIONAL REMARKS (Include plugging procedure)

36. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records.

NAME (PLEASE PRINT) Matthew Rivers TITLE Production Engineer
 SIGNATURE  DATE 1/7/2011

This report must be submitted within 30 days of

- completing or plugging a new well
- drilling horizontal laterals from an existing well bore
- recompleting to a different producing formation
- reentering a previously plugged and abandoned well
- significantly deepening an existing well bore below the previous bottom-hole depth
- drilling hydrocarbon exploratory holes, such as core samples and stratigraphic tests

* ITEM 20: Show the number of completions if production is measured separately from two or more formations.

** ITEM 24: Cement Top - Show how reported top(s) of cement were determined (circulated (CIR), calculated (CAL), cement bond log (CBL), temperature survey (TS)).

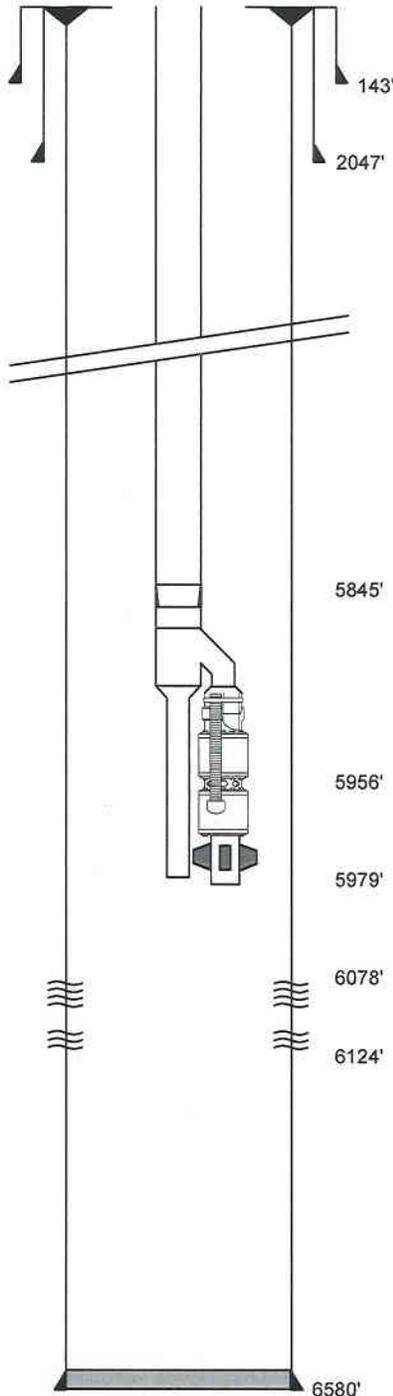
Send to: Utah Division of Oil, Gas and Mining Phone: 801-538-5340
 1594 West North Temple, Suite 1210
 Box 145801 Fax: 801-359-3940
 Salt Lake City, Utah 84114-5801



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Kings Meadow Ranches 17-14
API # 43-041-50003
Covenant Field
Section 17, T23S, R1W
Sevier County, Utah

Ground Elevation: 5,727'
KB Elevation: 5,749'



TD = 6580' MD (6515' TVD)
PBSD = 6484' MD (6421' TVD)

(Not to Scale)

Deviated Well

Surface: 1851' FNL 1961' FWL, SE NW, 17-23S-1W
Top of Pay (5992' MD): 1320' FNL, 2230' FEL, NE NW, 17-23S-1W
Total Depth (6580' MD): 1320' FNL, 2230' FEL, NE NW, 17-23S-1W

Conductor Casing (09/05/10)

Size: 16", 0.25" wall
Depth Landed: 143' KB
Cement Data: Cemented to surface 480 sks Premium G

Surface Casing (9/17/10)

Size/Wt/Grade: 9-5/8", 36#, J-55, LTC, 8rd
Depth Landed: 2047' KB
Cement Data: Lead - 275 sks VersaCem (11.5 ppg, 2.98 cf/sk), Tail - 240 sks VersaCem (15.6 ppg, 1.19 cf/sk), Top Job - 100 sks Premium G (15.8 ppg, 1.18 cf/sk)

Production Casing (10/08/10)

Size/Wt/Grade: 7", 26.0#, L-80/HCL-80, LTC, 8rd
Properties: 7240 psi burst, 6.151" drift, 6.276" ID, 0.0382 Bbl/ft capacity
Depth Landed: 6580' KB
Cement Data: Cemented to surface 970 sks 50/50 Prem Poz (13.0 ppg, 1.69 cf/sk)

Navajo Perforations - Open

6078'- 6096' MD (6013'- 6031' TVD), 18', 108 holes (12/09/10)
6114'- 6124' MD (6049'- 6059' TVD), 10', 60 holes (12/09/10)

Mid-Perf = 6101' MD (6036' TVD), 28' M (28.0' TV), 168 holes

Navajo Perforations - Squeezed

6152'- 6156' MD (6087'- 6091' TVD), 4', 24 holes (12/09/10)
6167'- 6173' MD (6102'- 6108' TVD), 6', 36 holes (12/09/10)
6175'- 6183' MD (6110'- 6118' TVD), 8', 48 holes (12/09/10)
6188'- 6192' MD (6123'- 6127' TVD), 4', 24 holes (12/09/10)
6216'- 6220' MD (6151'- 6155' TVD), 4', 24 holes (12/09/10)
6224'- 6228' MD (6155'- 6159' TVD), 4', 24 holes (12/09/10)
6296'- 6300' MD (6231'- 6235' TVD), 4', 24 holes (12/09/10)
6312'- 6316' MD (6247'- 6251' TVD), 4', 24 holes (12/09/10)

Tubing (12/09/10) (see Page 2 for details)

EOT @ 5979' (5914' TVD-WLM), Centinel @ 5977' (5912' TVD-WLM), Y-Tool @ 5918' (5853' TVD-WLM), Pump intake @ 5956' (5891' TVD-WLM), Seating Nipple @ 5845' (5780' TVD-WLM)

PBSD

(11/04/10) Tagged with casing scraper @ 6484' KB (6419' TVD)

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Kings Meadow Ranches 17-14
API # 43-041-50003
Covenant Field
Section 17, T23S, R1W
Sevier County, Utah

Tubing Detail (12/09/10)		
	22.00	KB
	-2.00	Landed above GL
	-2.00	Wireline correction
181	5826.81	Tubing - 2-7/8", 6.5#, L-80, EUE, 8rd
1	1.10	Seating nipple - 2-7/8", EUE, 8rd, 2.25" ID cup type (5845' MD, 5780' TVD)
2	65.29	Tubing - 2-7/8", 6.5#, L-80, EUE, 8rd
1	6.04	Sub - 2-7/8", 6.5#, L-80, EUE, 8rd
1	0.65	X-over, 2-7/8" x 2-3/8", EUE, 8rd
1	3.94	Y-Tool, Weatherford 2"x 1-1/2" w/ blanking plug in place (5918' MD, 5853' TVD) and 1.31" OD (1.144" ID) instrument tube (end @ 5922' MD, 5857' TVD)
1	10.03	Sub - 2-3/8", 4.7#, L-80, EUE, 8rd
1	23.90	Pump w/ Intake - Centrilift P18, Model 400PSSD(1:3), 134 stg, 4.00" OD
1	6.10	Seal - Model FSB3 DB, 4.00" OD (5956' MD, 5891' TVD)
1	10.80	Motor - Centrilift MSP, 63 Hp, 1035V/39A, 4.50" OD
1	4.10	Downhole pressure sensor, Centinel III, 4.50" OD (5973' MD, 5908' TVD)
1	2.00	Centralizer - 4 Blade x 5 3/4" OD
<hr/>		
	5978.76'	EOT (5979' KB MD-WLM, 5914' KB TVD-SLM)

Note: No check or drain valve in this well.
 Blanking plug in Y-Tool has a 7/8" OD catch rod
 Tubing capacity = 0.00579 Bbl/ft, Burst = 10570 psi, Joint Yield = 144960 lbs

Directional Data:					
<u>MD</u>	<u>TVD</u>	<u>Incl.</u>	<u>MD</u>	<u>TVD</u>	<u>Incl.</u>
500	500	0.6	3500	3474	13.5
750	750	1.0	4000	3961	13.8
1000	1000	1.8	4500	4447	13.6
1250	1250	2.9	5000	4937	6.8
1500	1500	1.7	5500	5436	2.6
2000	1999	1.8	6000	5935	0.3
2500	2498	6.0	6500	6435	1.8
3000	2987	13.4	6580	6515	2.1

Wellhead Information:

- Tubing head flange is 7 1/16", 5M with a 2-7/8" EUE 8rd top connection.

Notes:

Surface Location: NAD83 Latitude = 33.804976028, Longitude = -111.935001833
 (10/04/10): Available Logs: DLL/MSFL, SDL/DSN, LSS, XRMI, CBL, PL

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Well-Guide RSS™
Daily Report

Job No **RM0910RSD542**
Well-Guide Deployment No
Report No **22**

Oil Co **Wolverine Operating Co.**
Well **Kings Meadow Ranches 17-14**
Location **Sevier County, UT**
Rig **Patterson UTI 304**

Co Rep **Bill Donovan**
DD Co. **Gyrodata Inc**
GDA Engineers **Brian Jansky**
Kris Stubbs

24 hr report for
Date **30 Sep 10**

Time Zone **GMT-7:00**

Run No.	W-G Type	Series No	S/No	BHA No	Section	Initial MD
4	D8H	105	131	6	8 3/4	6055

Present Run Midnight Totals						
Date	Time	Circ Hrs	Dig Hrs	Bit Revs	Bit Dist	W Depth
29-Sep-10	24:00'	12.30	10.60	47,318	67	6122
30-Sep-10	24:00'	23.75	22.60	94,920	126	6248
Cumulative Total		36.05	33.20	142,238	193	6248
		64.75	57.30	298,208	430	Tool Totals

Present Drilling Parameters	
Date now	1-Oct-10
Time now	5:15
Depth now	6264 Ft
Mud type	WB
Mud Wt	10.5 PPG
WOB	34 K Lbs
RPM	70
Torque	10-14 1000 Ft Lbs
ROP	3 Ft/Hr
Mud Flow	396 GPM
SPP	1400 PSI
Lateral Vib'n	
Axial Vib'n	
Circ Temp	108 Def F
Lithology	

Run No.	W-G Type	Series No	S/No	BHA No	Section	Initial MD	Final MD	Circ hrs	Dig hrs	Bit Revs	Bit Dist
1	D8H	105	130	3	8 3/4	2062	3378	55	42.2	192,090	1316
2	D8H	105	125	4	8 3/4	3378	5818	120.5	96.3	567,828	2470
3	D8H	105	131	5	8 3/4	5818	6055	28.7	24.1	155,970	237

Activity log

From	To	Activity
0:00	6:00	Drlg f/ 6122' - 6158'
6:00	6:40	C/S @ 6113' Inc 0.20 Az 190.6 - Ream 5 min.
6:40	16:35	Drlg f/ 6158' - 6224'
16:35	17:30	Rig Service / C/S @ 6178' Inc 0.2 Az 174.3
17:30	24:00'	Drlg f/6224' - 6248'

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Current Operations

Drilling Ahead.

24 hr Look ahead

Probably make a bit trip sometime today and then drill to TD.

Comments

At midnight on the 30th of Sept WG-131 RSS Estimated Battery Life: 116hrs



Oil Company **Wolverine Operating Company**
 Well **Kings Meadow Ranches 14-17**
 Date **07 Jan 11**
 Time **17:10**

Surface Coordinates
 Reference Slot
 Latitude **38° 48' 17.914" N**
 Longitude **-111° 56' 6.007 W**

Section **12 1/4"**
 TVD datum
 Vertical section **26.02 deg**
 V sect datum **0 E 0 N**

True/Grid **TRUE**
 Decl **12**
 Conv

Survey No	Survey Depth	Inc	Azi	depth inc	dls	high side toolface	TVD	north	east	vertical section
	ft	deg	deg	ft	deg/100ft	deg	ft	ft	ft	ft
Tie in	0.0	0.00	0.0				0.0	0.0	0.0	0.0
1	187.0	0.20	324.8	187.0	0.11	-35	187.0	0.3	-0.2	0.2
2	244.0	0.40	291.5	57.0	0.45	-59	244.0	0.4	-0.4	0.2
3	308.0	0.20	266.4	64.0	0.37	-159	308.0	0.5	-0.7	0.1
4	370.0	0.10	182.2	62.0	0.35	-152	370.0	0.4	-0.9	0.0
5	432.0	0.00	244.8	62.0	0.16	180	432.0	0.4	-0.9	0.0
6	494.0	0.60	260.4	62.0	0.97	16	494.0	0.3	-1.2	-0.2
7	556.0	0.80	228.7	62.0	0.69	-79	556.0	0.0	-1.8	-0.8
8	618.0	0.90	207.2	62.0	0.54	-84	618.0	-0.7	-2.4	-1.7
9	680.0	0.90	206.5	62.0	0.02	-89	680.0	-1.6	-2.8	-2.7
10	742.0	1.00	211.0	62.0	0.20	39	742.0	-2.5	-3.3	-3.7
11	835.0	1.20	231.2	93.0	0.47	73	835.0	-3.8	-4.5	-5.4
12	929.0	1.50	245.4	94.0	0.48	55	928.9	-4.9	-6.4	-7.2
13	1024.0	0.30	145.4	95.0	1.66	-169	1023.9	-5.7	-7.4	-8.3
14	1119.0	2.20	96.3	95.0	2.12	-56	1118.9	-6.1	-5.4	-7.8
15	1214.0	2.90	95.1	95.0	0.74	-5	1213.8	-6.5	-1.2	-6.3
16	1309.0	2.80	79.2	95.0	0.84	-105	1308.7	-6.3	3.5	-4.1
17	1404.0	2.50	57.6	95.0	1.09	-117	1403.6	-4.7	7.5	-0.9
18	1499.0	1.70	34.6	95.0	1.21	-145	1498.5	-2.4	10.0	2.2
19	1594.0	1.10	333.9	95.0	1.59	-140	1593.5	-0.5	10.4	4.2
20	1689.0	3.10	298.6	95.0	2.41	-51	1688.4	1.6	7.8	4.8
21	1783.0	4.70	291.5	94.0	1.77	-20	1782.2	4.2	2.0	4.7
22	1848.0	3.70	289.7	65.0	1.55	-173	1847.0	5.9	-2.5	4.2
23	1880.0	2.60	289.0	32.0	3.44	-178	1879.0	6.5	-4.1	4.0
24	1913.0	2.50	289.9	33.0	0.33	159	1912.0	7.0	-5.5	3.8
25	1995.0	1.80	295.3	82.0	0.89	167	1993.9	8.1	-8.4	3.6
26	2079.0	1.20	316.4	84.0	0.96	148	2077.9	9.3	-10.2	3.9
27	2127.0	1.70	59.1	48.0	4.76	47	2125.9	10.1	-9.9	4.7
28	2176.0	1.80	65.3	49.0	0.44	65	2174.8	10.8	-8.6	5.9
29	2227.0	3.30	65.3	51.0	2.94	0	2225.8	11.7	-6.5	7.7
30	2268.0	4.20	65.5	41.0	2.20	1	2266.7	12.8	-4.1	9.7
31	2335.0	4.20	64.9	67.0	0.07	-90	2333.5	14.9	0.4	13.5
32	2399.0	4.00	64.8	64.0	0.31	-178	2397.3	16.8	4.5	17.1
33	2462.0	5.60	53.0	63.0	2.97	-38	2460.1	19.6	9.0	21.6
34	2526.0	7.30	40.4	64.0	3.44	-46	2523.7	24.6	14.1	28.3
35	2590.0	8.00	33.3	64.0	1.84	-57	2587.2	31.4	19.2	36.6
36	2650.0	8.3	35.2	60.0	0.67	43	2646.5	38.4	24.0	45.0
37	2716.0	11.00	37.8	66.0	4.14	10	2711.6	47.3	30.6	55.9
38	2748.0	12.50	38.3	32.0	4.70	4	2742.9	52.4	34.6	62.3
39	2780.0	13.80	38.5	32.0	4.06	2	2774.1	58.1	39.1	69.4
40	2811.0	14.00	35.9	31.0	2.12	-74	2804.2	64.1	43.6	76.7
41	2875.0	13.90	27.6	64.0	3.13	-97	2866.3	77.2	51.7	92.0
42	2935.0	13.70	26.9	60.0	0.43	-140	2924.6	89.9	58.3	106.3
43	3031.0	13.20	24.3	96.0	0.82	-131	3017.9	110.0	67.9	128.6
44	3128.0	13.50	25.5	97.0	0.42	43	3112.3	130.3	77.3	151.0
45	3224.0	13.30	24.0	96.0	0.42	-121	3205.7	150.5	86.7	173.3
46	3319.0	13.60	10.8	95.0	3.24	-89	3298.1	171.5	93.2	195.0
47	3378.0	14.00	10.5	59.0	0.69	-10	3355.4	185.3	95.8	208.6
48	3414.0	12.90	13.4	36.0	3.58	150	3390.4	193.5	97.5	216.7
49	3446.0	13.30	18.2	32.0	3.62	72	3421.6	200.5	99.5	223.8
50	3507.0	13.50	18.3	61.0	0.33	7	3480.9	213.9	103.9	237.8



Oil Company	Wolverine Operating Company
Well	Kings Meadow Ranches 14-17
Date	07 Jan 11
Time	17:10

Surface Coordinates	
Reference	TRUE
Latitude	38° 48' 17.914" N
Longitude	-111° 56' 6.007 W

Section	8 3/4"
TVD datum	
Vertical section	26.02 deg
V sect datum	0 E 0 N

True/Grid	TRUE
Decl	12
Conv	--

Survey No	Survey Depth	Inc	Azi	depth inc	dls	high side toolface	TVD	north	east	vertical section
	ft	deg	deg	ft	deg/30m	deg	ft	ft	ft	ft
51	3602.0	13.40	24.2	95.0	1.45	97	3573.3	234.5	111.9	259.8
52	3699.0	13.40	24.6	97.0	0.10	90	3667.7	254.9	121.2	282.3
53	3793.0	12.90	24.6	94.0	0.53	180	3759.2	274.4	130.1	303.7
54	3889.0	13.20	26.4	96.0	0.53	54	3852.8	293.9	139.5	325.3
55	3983.0	13.80	26.2	94.0	0.64	-5	3944.2	313.6	149.2	347.3
56	4080.0	14.00	24.4	97.0	0.49	-66	4038.3	334.7	159.1	370.6
57	4174.0	13.40	25.2	94.0	0.67	163	4129.6	354.9	168.5	392.8
58	4269.0	13.40	26.9	95.0	0.41	89	4222.1	374.7	178.1	414.8
59	4365.0	13.40	28.2	96.0	0.31	89	4315.4	394.4	188.4	437.1
60	4460.0	13.40	27.5	95.0	0.17	-90	4407.9	413.9	198.7	459.1
61	4555.0	13.80	28.4	95.0	0.48	28	4500.2	433.6	209.2	481.4
62	4650.0	13.60	26.1	95.0	0.61	-111	4592.5	453.6	219.5	503.9
63	4680.0	12.60	27.2	30.0	3.44	167	4621.7	459.7	222.5	510.7
64	4743.0	9.70	27.2	63.0	4.60	180	4683.5	470.5	228.1	522.9
65	4802.0	10.90	27.9	59.0	2.04	6	4741.6	479.9	233.0	533.4
66	4841.0	10.60	28.6	39.0	0.84	157	4779.9	486.3	236.4	540.7
67	4930.0	10.50	28.5	89.0	0.11	-170	4867.4	500.6	244.2	557.0
68	4973.0	8.10	20.7	43.0	6.29	-156	4909.8	506.9	247.1	563.9
69	4999.0	6.80	14.3	26.0	5.92	-151	4935.6	510.1	248.2	567.2
70	5038.0	5.10	9.5	39.0	4.54	-166	4974.4	514.0	249.0	571.2
71	5070.0	3.90	14.2	32.0	3.92	165	5006.3	516.5	249.5	573.6
72	5102.0	3.90	17.4	32.0	0.68	88	5038.2	518.6	250.1	575.7
73	5134.0	4.20	19.7	32.0	1.07	30	5070.1	520.7	250.8	578.0
74	5166.0	5.10	21.6	32.0	2.85	11	5102.0	523.1	251.8	580.5
75	5198.0	5.00	18.1	32.0	1.01	-110	5133.9	525.8	252.7	583.3
76	5231.0	3.40	13.5	33.0	4.95	-170	5166.8	528.1	253.4	585.7
77	5262.0	3.00	22.7	31.0	2.1	132	5197.8	529.7	253.9	587.4
78	5293.0	3.00	29.5	31.0	1.1	87	5228.7	531.2	254.6	589.1
79	5325.0	2.20	10.0	32.0	3.7	-142	5260.7	532.5	255.2	590.5
80	5357.0	0.90	327.3	32.0	5.2	-158	5292.7	533.3	255.1	591.2
81	5389.0	0.50	183.4	32.0	4.2	-167	5324.7	533.4	255.0	591.2
82	5420.0	0.40	67.2	31.0	2.5	-152	5355.7	533.3	255.1	591.2
83	5452.0	1.50	21.8	32.0	3.9	-59	5387.7	533.7	255.3	591.7
84	5484.0	2.40	357.3	32.0	3.8	-55	5419.6	534.8	255.5	592.7
85	5518.0	2.70	342.6	34.0	2.1	-73	5453.6	536.3	255.2	593.9
86	5549.0	2.20	334.3	31.0	2.0	-149	5484.6	537.5	254.7	594.8
87	5580.0	1.80	328.2	31.0	1.5	-155	5515.6	538.5	254.2	595.4
88	5611.0	1.50	330.6	31.0	1.0	168	5546.6	539.2	253.7	595.9
89	5643.0	1.10	349.6	32.0	1.8	142	5578.5	539.9	253.5	596.4
90	5706.0	1.00	2.4	63.0	0.4	119	5641.5	541.0	253.4	597.4
91	5770.0	3.10	90.7	64.0	5.0	74	5705.5	541.6	255.1	598.6
92	5801.0	3.90	104.7	31.0	3.8	54	5736.4	541.3	257.0	599.2
93	5833.0	4.30	110.9	32.0	1.9	51	5768.4	540.6	259.2	599.5
94	5865.0	4.00	120.2	32.0	2.3	119	5800.3	539.6	261.3	599.5
95	5891.0	3.90	122.3	26.0	0.7	126	5826.2	538.7	262.8	599.4
96	5920.0	3.30	117.7	29.0	2.3	-157	5855.2	537.8	264.4	599.2
97	5955.0	1.70	118.9	35.0	4.6	179	5890.1	537.0	265.7	599.2
98	5986.0	0.40	101.4	31.0	4.3	-175	5921.1	536.8	266.2	599.2
99	6046.0	0.10	100.4	60.0	0.5	-180	5981.1	536.8	266.5	599.2
100	6113.0	0.20	190.6	67.0	0.3	63	6048.1	536.6	266.5	599.1

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"/> <input type="checkbox"/> Other		5. Lease Serial No. UTU-73528
2. Name of Operator Wolverine Gas and Oil Company of Utah, LLC		6. If Indian, Allottee or Tribe Name NA
3a. Address 55 Campau NW, Grand Rapids, Michigan 49503-2616	3b. Phone No. (include area code) 616-458-1150	7. If Unit or CA/Agreement, Name and/or No. Wolverine Federal Unit
4. Location of Well (Footage, Sec., T., R., M., or Survey Description) 1851' FNL, 1961' FWL, Sec 17, T23S, R1W		8. Well Name and No. Kings Meadow Ranches 17-14
		9. API Well No. 43-041-50003
		10. Field and Pool, or Exploratory Area Covenant Field
		11. County or Parish, State Sevier County, Utah

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

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

13. Describe Proposed or Completed Operation (clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or 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.)

Oil volumes in saleable quantities were recovered during completion operations of the Navajo Formation in this well on December 8, 2010.

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

Name (Printed/Typed) Matthew Rivers	Title Production Engineer
Signature 	Date 05/06/2011

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)

RECEIVED

MAY 16 2011

DIV. OF OIL, GAS & MINING

CONFIDENTIAL

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING	FORM 9 5. LEASE DESIGNATION AND SERIAL NUMBER: Patented
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: KINGS MEADOW RANCHES 17-14
2. NAME OF OPERATOR: WOLVERINE GAS & OIL COMPANY OF UTAH, LLC	9. API NUMBER: 43041500030000
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: 1851 FNL 1961 FWL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: SENW Section: 17 Township: 23.0S Range: 01.0W Meridian: S	9. FIELD and POOL or WILDCAT: COVENANT COUNTY: SEVIER STATE: UTAH

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

TYPE OF SUBMISSION	TYPE OF ACTION		
<input checked="" type="checkbox"/> NOTICE OF INTENT Approximate date work will start: 8/17/2011	<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 checked="" 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 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: 50px;" type="text"/>
<input type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion:			
<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.

Wolverine is planning to workover the Kings Meadow Ranches 17-14 and moved a rig onto the well July 24, 2011 to begin operations. Previously, production was 30 BOPD and 160 BOPD from the upper Navajo. Existing perforations will be stimulated with 7-1/2% FE HCL acid and additional perforations added in the upper Navajo pay. Depending on swab results of the added or stimulated intervals, cement squeezing may be necessary. The well will be put back on production using an ESP and a subsequent report detailing the results of the workover will follow.

Approved by the Utah Division of Oil, Gas and Mining

Date: 08/17/2011

By: *Dark K. Quist*

NAME (PLEASE PRINT) Helene Bardolph	PHONE NUMBER 616 458-1150	TITLE Engineering Administrative Assistant
SIGNATURE N/A	DATE 8/17/2011	

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		FORM 9
SUNDRY NOTICES AND REPORTS ON WELLS		5. LEASE DESIGNATION AND SERIAL NUMBER: Patented
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: KINGS MEADOW RANCHES 17-14
2. NAME OF OPERATOR: WOLVERINE GAS & OIL COMPANY OF UTAH, LLC		9. API NUMBER: 43041500030000
3. ADDRESS OF OPERATOR: One Riverfront Plaza 55 Campau NW, Grand Rapids, MI, 49503	PHONE NUMBER: 616 458-1150 Ext	9. FIELD and POOL or WILDCAT: COVENANT
4. LOCATION OF WELL FOOTAGES AT SURFACE: 1851 FNL 1961 FWL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: SENW Section: 17 Township: 23.0S Range: 01.0W Meridian: S		COUNTY: SEVIER
		STATE: UTAH
11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA		
TYPE OF SUBMISSION	TYPE OF ACTION	
<input type="checkbox"/> NOTICE OF INTENT Approximate date work will start: <input checked="" type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion: 8/16/2011 <input type="checkbox"/> SPUD REPORT Date of Spud: <input type="checkbox"/> DRILLING REPORT Report Date:	<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 checked="" type="checkbox"/> REPERFORATE CURRENT FORMATION <input type="checkbox"/> TUBING REPAIR <input checked="" 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 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"/>	
12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.		
<p>Wolverine completed a workover on the KMR 17-14 in the Upper Navajo. Prior to the workover the well was making 30 BOPD and 150 BWPD. Perforations were added at 6216'-6228' and swabbed for rate and clean-up. Existing perforations at 6078'-6096' and 6114'-6124' were treated with 2500 gallons 7-1/2% FE HCL acid and 150 buoyant balls. Swabbing of the treated interval indicated that they were watered-out and the perforation set at 6078'-6096' was cement squeezed with a CBP and tubing. The cement and CBP were drilled out to allow production from the producing interval below the abandoned perforation set. Perforations were added up hole at 6000'-6014', 6029'-6036', and 6045'-6049' and swabbed without stimulation. The well was put back online with an ESP and initially produced 200 BOPD and 700 BWPD. See attached WBD and Activity Report for additional details.</p>		
NAME (PLEASE PRINT) Matthew Rivers	PHONE NUMBER 616 458-1150	TITLE Production Engineer
SIGNATURE N/A		DATE 10/6/2011



Covenant Field

SHL SE/NW Sec 17, T23S, R1W

KMR 17-14

BHL NE/NW Sec 17, T23S, R1W

API# 43-041-50003

Sevier County, Utah

- 7/18/2011 Moved in frac tanks, rig pump, pump lines and rig equipment.
- 7/19/2011 Filled water tanks with 4% KCL water, hooked up pump lines and removed wellhead fencing.
- 7/24/2011 MIRUSU, ND wellhead, NU BOP's, finished prepping for well workover.
- 7/25/2011 Opened well, RU cable spoolers, POOH with tubing and downhole ESP, RD and released cable spoolers. TIH with bit and scraper to top of fill at 6260'. SWIFN
Plan to reverse hole clean, POOH with tubing and scraper & perforate 6216'-6228'
- 7/26/2011 Opened well, hooked up pump lines, reverse circulated hole with 80 bbls of 4% KCL water, RD pump lines and POOH with bit and scraper. RU wireline unit and perforated 6216'-6228' with the following.
Titan Part # EXP 4039-421T
38.5 gram charges
.44 entry hole
54.58" penetration
4" EXP gun loaded 3 spf on 120 deg phasing.
RD and released wireline unit, PU & RIH with RBP, 6' x 2 7/8" sub, RH, packer, 4' x 2 7/8" sub and 188 jts, well was full and starting to flow over. SWIFN
Plan to hook up a vac truck and finish running in hole with BHA, then RU to swab.
- 7/27/2011 Opened well, 0, psi, hooked up vac truck to the casing, finished RIH and set RBP at 6250', released off plug and set packer at 6149'. RU swab equipment, made 21 runs recovering 31 bbls of oil and 67 bbls of water with a fluid level of 4600' and a water cut of 50%. SWIFN due to lightning. See 7-27 Swab report for details.
Plan to move plug and packer to swab perf intervals 6078'-6096' & 6114'-6124'
- 7/28/2011 Opened well, RU swab equipment, made 21 runs recovering 31 bbls of oil, 141 bbls of water with a fluid level of 5000' and a water cut of 80%. See 7-28 Swab report for details.
Plan to make two swab runs to see where fluid level is, then shut in, waiting on acid trucks.
- 7/29/2011 Opened well, fluid level at 850', made two swab runs recovering six bbls of oil. SWIFN
Plan to pump acid on perf intervals 6078'-6096' & 6114'-6124'.
- 7/30/2011 Opened well, 0 psi, RU Halliburton acid equipment, pressure tested lines to 6000 psi, opened bypass on pkr, pumped 5 bbls of 4% KCL water to establish circulation followed by 31 bbls of 7.5% HCL acid containing 150 7/8" .90 S.G. buoyant balls. Closed packer and pressured annulus to 850 psi, pumped 7.8 bbls of 7.5% HCL acid at a rate of 0.7 bpm and a max pressure of 2000 psi, shut down and waited for the tubing pressure to fall to 800 psi then restarted acid at a rate of 0.7 bpm at a max pressure of 2043 psi, the pressure broke with 14 bbls after shutting packer by-pass. Pumped a total of 93 bbls after closing the packer with a rate of 3.7 bpm at 1750 psi. ISIP 1015 psi, 5 min 73 psi.

<u>Bbls</u>	<u>Max psi</u>	<u>Max rate</u>	<u>Fluid</u>	<u>Description</u>
5.00	250	2 bpm	4% KCL water	Established circulation
31.00	250	2 bpm	7 1/2% HCL acid	Pumped acid with 150 7/8" .90 S.G. buoyant balls.
~	~	~	~	Closed packer
7.80	2000	0.7	7 1/2% HCL acid	Shut in to let pressure drop
26.20	2043	2.5	7 1/2% HCL acid	Formation broke 6.2 bbls into this stage.
59	1750	3.7	4% KCL water	Displaced acid into formation.

~	1015	~	~	ISIP
~	73	~	~	5 Min
~	0	~	~	10 Min

Total	Max psi	Max rate
<u>129.00</u>	<u>2043</u>	<u>3.7</u>

See 7-30-11 Acid graph for details.

RU swab equipment, made 19 runs recovering 182 bbls of water, 2 bbls oil. Oil cut of 2% with a fluid level of 1200' from surface with a total fluid rate of 1124 bpd. SWIFN

See 7-30-11 Swab report for details.

7/31/2011

Opened well, 0 psi, RU swab equipment, made 16 runs recovering 209 bbls of water, 5 bbls of oil. Oil cut of 2% with a fluid level of 1200' from surface with a total fluid rate of 1164 bpd. Released packer and plug, reset plug at 6065', set packer at 5950' and pressure tested the RBP to 2000 psi. Bled pressure off and released packer. RU swab equipment, swabbed fluid level down to 2500'. SWIFN

8/1/2011

Released packer & plug, reset plug at 6130' and the packer at 6105'. RU swab equipment and made 7 swab runs recovering 0.46 bbls of oil and 68 bbls of water. Oil cut of 1% with a fluid level of 1100' from surface with a total rate of 1105 bpd. Released packer and plug & POOH standing back pipe.

Plan to set a composite plug at 6105' to squeeze perf interval at 6078'-6096'

8/2/2011

Opened well, 0 psi, RU wireline unit and set a composite plug at 6105', RD and released wireline unit. RIH with tubing to 6088', landed tubing in wellhead. ND BOP's, RD MOSU to replace a pump in the Federal 17-3.

Plan to RU on well and pump cement squeeze on perf interval 6078'-6096'.

8/3/2011

MIRUSU, RU Halliburton cementing equipment and pumped a 25 sk balanced plug on perf interval 6078'-6096' as follows:

Cement - Squeezecem, 15.8 ppg, 1.15 yield

Pressure tested to 2500 psi

Circulated oil out of wellbore with 50 bbls of fresh water

Pumped 25 sks (5.12 bbls) of cement

Pumped 5 bbls fresh water

Displaced with 29.4 bbls of 4% KCL water

Pulled out of hole with 202' of tubing

Pumped 1.1 bbls, waited 05 minutes - pressured to 204 psi, pressure bled off to 75 psi.

Pumped 2.3 bbls, waited 22 minutes - pressured to 216 psi, pressure bled off to 83 psi.

Pumped 0.2 bbls, waited 13 minutes - pressured to 155 psi, pressure bled off to 126 psi.

Pumped 0.2 bbls, waited 19 minutes - pressured to 235 psi, pressure bled off to 175 psi.

Pumped 0.3 bbls, waited 24 minutes - pressured to 447 psi, pressure bled off to 396 psi.

Pumped 0.3 bbls, waited 18 minutes - pressured to 830 psi, pressure bled off to 817 psi.

Pumped 0.2 bbls, waited 12 minutes - pressured to 1024 psi, pressure built to 1050 psi.

Pulled out of hole with 124' of tubing and reverse circulated with 50 bbls of 4% KCL water.

Pressured tubing to 500 psi, SWIFN

RD and released cementing equipment.

8/4/2011

Rig crew on days off

8/5/2011

Rig crew on days off

8/6/2011

Rig crew on days off

8/7/2011

Rig crew on days off

8/8/2011

Rig crew on days off

8/9/2011

Opened well tubing pressure, 750 psi, bled tubing down, pulled out of hole with tubing, PU & RIH with 6 1/8" bit, (10) 4 3/4" drill collars and tubing to cement top at 6031'. RU power swivel and drilled out cement to 6103', pressure tested squeezed perms to 2500 psi for 20 minutes. Started drilling on composite plug, drilled up most of the plug when the plug released and started moving down hole. Reverse circulated tubing clean and SWIFN. See 8-3 Cement squeeze tab for pressure details.

Plan to finish chasing the composite plug to bottom, pull out of hole laying down drill collars then round trip casing scraper.

8/10/2011

Opened well, hooked up power swivel, finished drilling up composite plug. Reverse circulated tubing clean with 50 bbls of 4% KCL, rigged down power swivel and pulled out of hole with tubing, laying down drill collars. PU & RIH with 6 1/8" bit and 7" 26# casing scraper to top of fill at 6260', reverse circulated well with 65 bbls of 4% KCL. Pulled out of hole laying down bit and scraper. SWIFN

Plan to RIH with RBP to 6066', swab well down to 2500', perforate 6029'-6036' & 6045'-6049' then start swabbing for rate and clean up.

8/11/2011

Opened well, 0 psi tubing, PU & TIH with RPB to 6064', set plug, RU pump lines and pressure tested plug to 2500 psi, RD pump lines, RU swab equipment and swabbed fluid level down to 2500' then pulled out of hole with tubing and RH. RU wireline unit and perforated 6029'-6036' & 6045'-6049' with the following.

Titan Part # EXP 3325-421T

25 gram charges

.41 entry hole

46.86" penetration

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

RD and released wireline unit, PU & RIH with RH, packer, 4' x 2 7/8" sub and 186 jts, set packer at 5996' and pressure tested to 1500 psi, RD pump lines and RU swab equipment. Made 3 swab runs recovering 29 bbls of water with a fluid level of 3400' from surface and dropping. SWIFN

Plan to continue swabbing for rate and clean up.

8/12/2011

Opened well, RU swab equipment, made 19 swab runs recovering 28 bbls oil, 7 bbls of water with a 100% oil cut, average fluid level of 5750' with a rate of 163 bopd. SWIFN.

Plan to move plug and packer and swab perf interval 6114'-6124' for rate.

8/13/2011

Opened well, 120 psi tubing, hooked up pump lines, opened by pass on packer and reverse circulated 40 bbls of 4% KCL water, RD pump lines, released packer & plug. Set plug at 6150', set packer at 6105', RU swab equipment, made 9 swab runs recovering 1.2 bbls of oil and 34 bbls of water with an oil cut of 30%, fluid level of 6000' from surface and an average entry of 59 bpd. RD swab equipment, released packer and plug, reset plug at 6025', pressure tested to 2500 psi, RU swab equipment, swabbed fluid level down to 2500', POOH with tubing, packer and RH. SWIFN

Plan to perforate 6000'-6014' then swab for rate and clean up.

8/14/2011

Opened well, RU wireline unit and perforated 6000'-6014' with the following.

Titan Part # EXP 3325-421T

25 gram charges

.41 entry hole

46.86" penetration

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

RD and released wireline unit, PU & RIH with RH, packer, 4' x 2 7/8" sub and 185 jts, set packer at 5966' and pressure tested to 1500 psi, RD pump lines and RU swab equipment. Made 17 swab runs recovering 6 bbls oil, 98 bbls of water with a fluid level of 3050' from surface. SWIFN

Plan to re-test perf intervals 6029'-6036' & 6045'-6049' while down hole pump is being built.

8/15/2011

Opened well, released plug and packer, reset plug at 6066', reset packer at 6023'. RU swab equipment, made 16 runs recovering 35 bbls of oil, 68 bbls of water with an oil cut of 40% and an average fluid level of 3800' from surface. RD swab equipment, released packer and plug then pulled out of hole with tubing packer and plug. RIH with one stand, SWIFN. See 8-15 Swab report for details.

Plan to install ESP

8/16/2011

Supervisor:

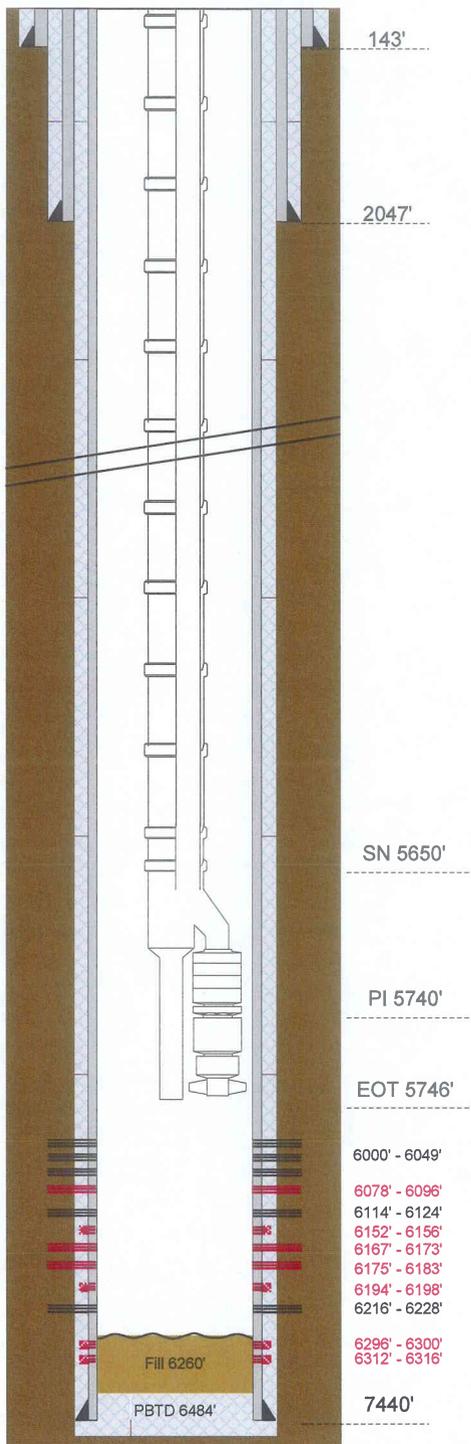
Tony E. Cook

Rig Operator:



Kings Meadow Ranches 17-14
API # 43-041-50003
Covenant Field
Section 17, T23S, R1W
Sevier County, Utah

Ground Elevation: 5,727'
 KB Elevation: 5,749'



TD = 6580' MD (6514' TVD)

(Not to Scale)

Deviated Well

Surface: 1851' FNL 1961' FWL, SE NW, 17-23S-1W
 Top of Pay (5992' MD): 1320' FNL, 2230' FEL, NE NW, 17-23S-1W
 Total Depth (6580' MD): 1320' FNL, 2230' FEL, NE NW, 17-23S-1W

Conductor Casing (09/05/10)

Size: 16", 0.25" wall
 Depth Landed: 143' KB
 Cement Data: Cemented to surface 480 sks Premium G

Surface Casing (9/17/10)

Size/Wt/Grade: 9-5/8", 36#, J-55, LTC, 8rd
 Depth Landed: 2047' KB
 Cement Data: Lead - 275 sks VersaCem (11.5 ppg, 2.98 cf/sk), Tail - 240 sks VersaCem (15.6 ppg, 1.19 cf/sk), Top Job - 100 sks Premium G (15.8 ppg, 1.18 cf/sk)

Production Casing (10/08/10)

Size/Wt/Grade: 7", 26.0#, L80/HCL-80, LTC, 8rd
 Properties: 7240 psi burst, 6.151" drift, 6.276" ID, 0.0382 Bbl/ft capacity
 Depth Landed: 7", 26.0#, L-80, LT&C @ 6580'- 5747' & 3923'-0'
 7", 26.0#, HCL-80, LT&C spaced 5747'- 3923'

Cement Data: Cemented to surface 970 sks 50/50 Prem Poz (13.0 ppg, 1.69 cf/sk)

Navajo Perforations

6000'- 6014' MD (5935'-5949' TVD), 14' 84 holes (8/14/11)
 6029'- 6036' MD (5964'- 5971' TVD), 07' 42 holes (8/11/11)
 6045'- 6049' MD (5980'-5984' TVD), 05' 30 holes (8/11/11)
 6078'- 6096' MD (6013'- 6031' TVD), 18' 108 holes (Squeezed 08/03/11)
 6114'- 6124' MD (6049'- 6059' TVD), 10' 60 holes (12/7/10)
 6167'- 6173' MD (6102'- 6108' TVD), 6' 36 holes (Squeezed 12/05/10)
 6175'- 6183' MD (6110'- 6118' TVD), 8' 48 holes (Squeezed 12/05/10)
 6216'- 6228' MD (6151' - 6163' TVD), 12' 36 holes (7/26/11)

Mid-Perf = 6114' MD (6049' TVD), 48' M, 252 holes

Casing Squeeze holes November 2010, 6152' - 6156' & 6194' - 6198'
 6296' - 6300' & 6312' - 6316'

Tubing (8/16/11) (see Page 2 for details)

End of BHA 5746' WLM (5682' TVD)
 Centinel 5741' WLM (5677' TVD)
 Pump intake 5720' WLM (5656' TVD)
 Y-Tool 5690' WLM (5622' TVD)
 Seating Nipple 5652' WLM (5588' TVD)



Kings Meadow Ranches 17-14
API # 43-041-50003
Covenant Field
Section 17, T23S, R1W
Sevier County, Utah

PBTD

(1/12/11) Tagged fill with wireline @ 6260' KB (6195' TVD)
 (12/01/10) Tagged fill @ 6350' KB (6285' TVD)
 (11/04/10) Tagged with casing scraper @ 6484' KB (6419' TVD)

Tubing Detail (8/16/2011)

	22.00	KB
	-2.00	Landed above GL
175	5631.80	Tubing - 2-7/8", 6.5#, L-80, EUE, 8rd
1	1.10	Seating nipple - 2-7/8", EUE, 8rd, 2.25" ID cup type (5714' MD, 5650' TVD)
1	31.84	Tubing - 2-7/8", 6.5#, L-80, EUE, 8rd
1	6.19	Sub - 2-7/8", 6.5#, L-80, EUE, 8rd
1	0.58	X-over, 2-7/8" x 2-3/8", EUE, 8rd
1	3.94	Y-Tool, 2"x 1-1/2" w/ 7/8" OD blanking plug in place (5690' MD, 5626' TVD) and 1.31" OD (1.144" ID) instrument tube (end @ 5694' MD, 5630' TVD)
1	10.08	Sub - 2-3/8", 4.7#, L-80, EUE, 8rd
1	16.49	Pump
1	6.10	Seal
1	14.47	Motor
1	4.10	Downhole pressure sensor, Centinel III, 4.50" OD (5741' MD, 5677' TVD)
1	1.12	Collapsible centralizer
	-2.00	Wireline correction
<hr/>		
	5745.81'	EOT (5746' KB MD-WLM, 5682' TVD)

Note: No check or drain valve in this well.
 Tubing capacity = 0.00579 Bbl/ft, Burst = 10570 psi, Joint Yield = 144960 lbs

Directional Data:

<u>MD</u>	<u>TVD</u>	<u>Incl.</u>	<u>MD</u>	<u>TVD</u>	<u>Incl.</u>
500	500	0.6	3500	3474	13.5
750	750	1.0	4000	3961	13.8
1000	1000	1.8	4500	4447	13.6
1250	1250	2.9	5000	4937	6.8
1500	1500	1.7	5500	5436	2.6
2000	1999	1.8	6000	5935	0.3
2500	2498	6.0	6500	6435	1.8
3000	2987	13.4	6580	6515	2.1

Wellhead Information:

- Tubing head flange is 7 1/16", 5M with a 2-7/8" EUE 8rd top connection.

Notes:

Surface Location: NAD83 Latitude = 33.804976028, Longitude = -111.935001833
 (10/04/10): Available Logs: DLL/MSFL, SDL/DSN, LSS, XRMI, CBL, PL

Carol Daniels - Kings Meadow Ranches 17-14 Update *7235 ROW 5-17 43-041-50003*

From: "Wolverine Exploration Rig"
To: "Ainge, Jeff" , "Allen, Geoff" , "Arthurs, Shane" , "Blair, Richard" , "Chamberlain, Don" ,
"Daniels, Carol" , "De la Torre, Juan C" , "Dieste, Bobby" , "Doucet, Dustin" , "Dustin
Dunning" , "George Zamantakis " , "Hall, Denise" , "Hammell, Hank" , "Hendricks,
Marvin" , "Hutcinson, Clayton" , "Janksky, Brian" , "Jim Barry" , "Jones, Mark" , "Kulow,
Kyle" , "Larimore, Mark" , "Lewis, John" , "McCoy, Tim" , "O'Connell, David" , "Patten,
Andrew" , "Perry, Bud (Smith Bits)" , "Rees, John M" , "Revert, Scott" , "Ryan Thomas" ,
"Shaun Burns" , "Shawn Moulton" , "Shelton, Shorty" , "Smuin, Troy" , "Sulzen, Joel" ,
"Tujillo, Chris" , "Vance Barber" , "Weimer, Jeff" , "Willis, Walton" , "Winkler, Matt" ,
"Wright, Brian" , "Zaccardi, Zeke" , "Zimmerman, Bill"
Date: 9/23/2010 11:44 AM
Subject: Kings Meadow Ranches 17-14 Update

9/23/2010 11:28 AM

Drilling at 4,341'. ROP 55 FPH

TD is 6,700'

Bill Donovan
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Carol Daniels - Kings Meadow Ranches 17-14, Update *T 235 R01W S-17 43-041-50003*

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"Chamberlain, Don" , "Daniels, Carol" , "De la Torre, Juan C" , "Denton, Derek" , "Dieste,
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"Hammell, Hank" , "Hendricks, Marvin" , "Hutcinson, Clayton" , "Janksky, Brian" , "Jim
Barry" , "Jones, Mark" , "Kulow, Kyle" , "Larimore, Mark" , "Lewis, John" , "McCoy,
Charlene" , "McCoy, Tim" , "O'Connell, David" , "Perry, Bud (Smith Bits)" , "Pickup,
Marc" , "Rees, John M" , "Revert, Scott" , "Ryan Thomas" , "Shaun Burns" , "Shawn
Moulton" , "Shelton, Shorty" , "Smuin, Troy" , "Steffen, Dana" , "Sulzen, Joel" , "Tujillo,
Chris" , "Weimer, Jeff" , "Willis, Walton" , "Winkler, Matt" , "Wright, Brian" , "Zaccardi,
Zeke" , "Zimmerman, Bill"
Date: 9/24/2010 8:09 AM
Subject: Kings Meadow Ranches 17-14, Update

9/24/2010 8:03 AM

Drilling at 4,853', ROP 40 FPH

TD is 6,700'

Bill Donovan
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Carol Daniels - Kings Meadow Ranches 17-14 Update *T935 R01W 5-17 43-0465003*

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Bobby" , "Doucet, Dustin" , "Dustin Dunning" , "George Zamantakis" , "Hall, Denise" ,
"Hammell, Hank" , "Hendricks, Marvin" , "Hutcinson, Clayton" , "Janksky, Brian" , "Jim
Barry" , "Jones, Mark" , "Kulow, Kyle" , "Larimore, Mark" , "Lewis, John" , "McCoy,
Charlene" , "McCoy, Tim" , "O'Connell, David" , "Perry, Bud (Smith Bits)" , "Pickup,
Marc" , "Rees, John M" , "Revert, Scott" , "Ryan Thomas" , "Shaun Burns" , "Shawn
Moulton" , "Shelton, Shorty" , "Smuin, Troy" , "Steffen, Dana" , "Sulzen, Joel" , "Tujillo,
Chris" , "Weimer, Jeff" , "Willis, Walton" , "Winkler, Matt" , "Wright, Brian" , "Zaccardi,
Zeke" , "Zimmerman, Bill"
Date: 9/25/2010 8:13 AM
Subject: Kings Meadow Ranches 17-14 Update

9/25/2010 8:06 AM

Drilling at 5,225', PR 35 FPH

TD is 6,700'

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SEP 25 2010

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Carol Daniels - Rough Canyon Federal 30-1 Update *TIPS ROLE S-~~22~~³² 43-039-50003*

From: "Chuck Emerson"
To: "Hendricks, Marvin" , "Willis, Walton" , "Willis, Walton Home" , "Daniels, Carol" ,
"Doucet, Dustin" , "Jones, Mark"
Date: 9/26/2010 7:07 AM
Subject: Rough Canyon Federal 30-1 Update

Status @ 0700hrs: Starting cementing 2" Conductor Casing. Should take approx 48hrs.

Chuck Emerson
Drilling Supervisor
Rough Canyon Federal 30-1
Wolverine Gas & Oil
Rig (970) 361-3276
Cell (970) 381-6233
cemerson@prodigy.net

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SEP 26 2010

DIV. OF OIL, GAS & MINING

Carol Daniels - Kings Meadow Ranches 17-14, Update T235R01W 5-17 43-041-50003

From: "Wolverine Exploration Rig"
To: "Ainge, Jeff" , "Allen, Geoff" , "Arthurs, Shane" , "Blair, Richard" , "Brock Pope" ,
"Chamberlain, Don" , "Daniels, Carol" , "De la Torre, Juan C" , "Denton, Derek" , "Dieste,
Bobby" , "Doucet, Dustin" , "Dustin Dunning" , "George Zamantakis" , "Hall, Denise" ,
"Hammell, Hank" , "Hendricks, Marvin" , "Hutcinson, Clayton" , "Janksy, Brian" , "Jim
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Charlene" , "McCoy, Tim" , "O'Connell, David" , "Perry, Bud (Smith Bits)" , "Pickup,
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Chris" , "Weimer, Jeff" , "Willis, Walton" , "Winkler, Matt" , "Wright, Brian" , "Zaccardi,
Zeke" , "Zimmerman, Bill"
Date: 9/26/2010 6:51 PM
Subject: Kings Meadow Ranches 17-14, Update

9/26/2010 6:45 PM

Drilling at 5,711', PR rate is 30-40 FPH

TD is 6,600' to 6.700'

TD may be as early as Tuesday.

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Carol Daniels - Kings Meadow Ranches 17-14 Update T235 R01W S-17 43-041-50003

From: "Wolverine Exploration Rig"
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"Chamberlain, Don" , "Daniels, Carol" , "De la Torre, Juan C" , "Denton, Derek" , "Dieste,
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Chris" , "Weimer, Jeff" , "Willis, Walton" , "Winkler, Matt" , "Wright, Brian" , "Zaccardi,
Zeke" , "Zimmerman, Bill"
Date: 9/26/2010 10:54 AM
Subject: Kings Meadow Ranches 17-14 Update

9/26/2010 10:46 AM

Drilling at 5,512', PR 12 FPH

Bit trip expected before TD

TD is 6,700'

Bill Donovan
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DIV. OF OIL, GAS & MINING

Carol Daniels - Kings Meadow Ranches 17-14 Update T 235 R01W 5-M 43-041-50003

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"Chamberlain, Don" , "Daniels, Carol" , "De la Torre, Juan C" , "Denton, Derek" , "Dieste,
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Zeke" , "Zimmerman, Bill"
Date: 9/27/2010 8:57 AM
Subject: Kings Meadow Ranches 17-14 Update

9/27/2010 8:53 AM

Hole depth 5,818'

Picking up new bit.

Bill Donovan
Drilling Supervisor
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RECEIVED

SEP 27 2010

DIV. OF OIL, GAS & MINING

Carol Daniels - Kings Meadow Ranches 17-14 Update

T 235 R01W 5-17 43-041-5003

From: "Wolverine Exploration Rig"
To: "Ainge, Jeff" , "Allen, Geoff" , "Arthurs, Shane" , "Blair, Richard" , "Brock Pope" ,
"Chamberlain, Don" , "Daniels, Carol" , "De la Torre, Juan C" , "Denton, Derek" , "Dieste,
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"Hammell, Hank" , "Hendricks, Marvin" , "Hutcinson, Clayton" , "Janksy, Brian" , "Jim
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Charlene" , "McCoy, Tim" , "O'Connell, David" , "Perry, Bud (Smith Bits)" , "Pickup,
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Chris" , "Weimer, Jeff" , "Willis, Walton" , "Winkler, Matt" , "Wright, Brian" , "Zaccardi,
Zeke" , "Zimmerman, Bill"
Date: 9/27/2010 3:13 AM
Subject: Kings Meadow Ranches 17-14 Update

9/27/2010 3:08 AM

Depth 5,818'. Tripping out of hole for new bit

Proposed TD is 6,700'

Bill Donovan
Drilling Supervisor
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Fax (435) 304-1222
wolvexpl@drillmail.net

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SEP 27 2010

DIV. OF OIL, GAS & MINING

Carol Daniels - Kings Meadow Ranches 17-14 Update

T235 R014 S-17 43-41.5003

From: "Wolverine Exploration Rig"

To: "Ainge, Jeff" , "Allen, Geoff" , "Arthurs, Shane" , "Blair, Richard" , "Brock Pope" , "Chamberlain, Don" , "Daniels, Carol" , "De la Torre, Juan C" , "Denton, Derek" , "Dieste, Bobby" , "Doucet, Dustin" , "Dustin Dunning" , "George Zamantakis" , "Hall, Denise" , "Hammell, Hank" , "Hendricks, Marvin" , "Hutcinson, Clayton" , "Janksky, Brian" , "Jim Barry" , "Jones, Mark" , "Kulow, Kyle" , "Larimore, Mark" , "Lewis, John" , "McCoy, Charlene" , "McCoy, Tim" , "O'Connell, David" , "Perry, Bud (Smith Bits)" , "Pickup, Marc" , "Rees, John M" , "Revert, Scott" , "Ryan Thomas" , "Shaun Burns" , "Shawn Moulton" , "Shelton, Shorty" , "Smuin, Troy" , "Steffen, Dana" , "Sulzen, Joel" , "Tujillo, Chris" , "Weimer, Jeff" , "Willis, Walton" , "Winkler, Matt" , "Wright, Brian" , "Zaccardi, Zeke" , "Zimmerman, Bill"

Date: 9/28/2010 8:08 AM

Subject: Kings Meadow Ranches 17-14 Update

Drilling at 5,940', ROP 10 FPH

TD is 6,700'

Bill Donovan

Drilling Supervisor

Wolverine Gas and Oil Company of Utah, LLC

Kings Meadow Ranches 17-14, AFE 236

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