

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

FORM 3

AMENDED REPORT

<b>APPLICATION FOR PERMIT TO DRILL</b>						<b>1. WELL NAME and NUMBER</b> GMBU 11-18-9-16				
<b>2. TYPE OF WORK</b> DRILL NEW WELL <input checked="" type="checkbox"/> REENTER P&A WELL <input type="checkbox"/> DEEPEN WELL <input type="checkbox"/>						<b>3. FIELD OR WILDCAT</b> MONUMENT BUTTE				
<b>4. TYPE OF WELL</b> Oil Well      Coalbed Methane Well: NO						<b>5. UNIT or COMMUNITIZATION AGREEMENT NAME</b> GMBU (GRRV)				
<b>6. NAME OF OPERATOR</b> NEWFIELD PRODUCTION COMPANY						<b>7. OPERATOR PHONE</b> 435 646-4825				
<b>8. ADDRESS OF OPERATOR</b> Rt 3 Box 3630 , Myton, UT, 84052						<b>9. OPERATOR E-MAIL</b> mcrozier@newfield.com				
<b>10. MINERAL LEASE NUMBER (FEDERAL, INDIAN, OR STATE)</b> UTU-64379			<b>11. MINERAL OWNERSHIP</b> FEDERAL <input checked="" type="checkbox"/> INDIAN <input type="checkbox"/> STATE <input type="checkbox"/> FEE <input type="checkbox"/>			<b>12. SURFACE OWNERSHIP</b> FEDERAL <input checked="" type="checkbox"/> INDIAN <input type="checkbox"/> STATE <input type="checkbox"/> FEE <input type="checkbox"/>				
<b>13. NAME OF SURFACE OWNER (if box 12 = 'fee')</b>						<b>14. SURFACE OWNER PHONE (if box 12 = 'fee')</b>				
<b>15. ADDRESS OF SURFACE OWNER (if box 12 = 'fee')</b>						<b>16. SURFACE OWNER E-MAIL (if box 12 = 'fee')</b>				
<b>17. INDIAN ALLOTTEE OR TRIBE NAME (if box 12 = 'INDIAN')</b>			<b>18. INTEND TO COMMINGLE PRODUCTION FROM MULTIPLE FORMATIONS</b> YES <input type="checkbox"/> (Submit Commingling Application) NO <input checked="" type="checkbox"/>			<b>19. SLANT</b> VERTICAL <input type="checkbox"/> DIRECTIONAL <input checked="" type="checkbox"/> HORIZONTAL <input type="checkbox"/>				
<b>20. LOCATION OF WELL</b>		<b>FOOTAGES</b>		<b>QTR-QTR</b>	<b>SECTION</b>	<b>TOWNSHIP</b>	<b>RANGE</b>	<b>MERIDIAN</b>		
LOCATION AT SURFACE		1026 FSL 2004 FWL		SESW	18	9.0 S	16.0 E	S		
Top of Uppermost Producing Zone		1982 FSL 1865 FWL		NESW	18	9.0 S	16.0 E	S		
At Total Depth		1982 FSL 1865 FWL		NESW	18	9.0 S	16.0 E	S		
<b>21. COUNTY</b> DUCHESNE			<b>22. DISTANCE TO NEAREST LEASE LINE (Feet)</b> 658			<b>23. NUMBER OF ACRES IN DRILLING UNIT</b> 40				
			<b>25. DISTANCE TO NEAREST WELL IN SAME POOL (Applied For Drilling or Completed)</b> 1307			<b>26. PROPOSED DEPTH</b> MD: 6528 TVD: 6445				
<b>27. ELEVATION - GROUND LEVEL</b> 6123			<b>28. BOND NUMBER</b> WYB000493			<b>29. SOURCE OF DRILLING WATER / WATER RIGHTS APPROVAL NUMBER IF APPLICABLE</b> 437478				
<b>Hole, Casing, and Cement Information</b>										
<b>String</b>	<b>Hole Size</b>	<b>Casing Size</b>	<b>Length</b>	<b>Weight</b>	<b>Grade &amp; Thread</b>	<b>Max Mud Wt.</b>	<b>Cement</b>	<b>Sacks</b>	<b>Yield</b>	<b>Weight</b>
Surf	12.25	8.625	0 - 300	24.0	J-55 ST&C	8.3	Class G	138	1.17	15.8
Prod	7.875	5.5	0 - 6528	15.5	J-55 LT&C	8.3	Premium Lite High Strength	313	3.26	11.0
							50/50 Poz	363	1.24	14.3
<b>ATTACHMENTS</b>										
<b>VERIFY THE FOLLOWING ARE ATTACHED IN ACCORDANCE WITH THE UTAH OIL AND GAS CONSERVATION GENERAL RULES</b>										
<input checked="" type="checkbox"/> WELL PLAT OR MAP PREPARED BY LICENSED SURVEYOR OR ENGINEER					<input checked="" type="checkbox"/> COMPLETE DRILLING PLAN					
<input 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					
<b>NAME</b> Mandie Crozier				<b>TITLE</b> Regulatory Tech			<b>PHONE</b> 435 646-4825			
<b>SIGNATURE</b>				<b>DATE</b> 08/29/2013			<b>EMAIL</b> mcrozier@newfield.com			
<b>API NUMBER ASSIGNED</b> 43013524580000				<b>APPROVAL</b> <div style="text-align: right;">                       Permit Manager                 </div>						

NEWFIELD PRODUCTION COMPANY  
GMBU 11-18-9-16  
AT SURFACE: SE/SW SECTION 18, T9S R16E  
DUCHESNE COUNTY, UTAH

TEN POINT DRILLING PROGRAM

1. **GEOLOGIC SURFACE FORMATION:**

Uinta formation of Upper Eocene Age

2. **ESTIMATED TOPS OF IMPORTANT GEOLOGIC MARKERS:**

Uinta	0' – 3,685'
Green River	3,685'
Wasatch	6,295'
<b>Proposed TD</b>	6,528'(MD) 6,445' (TVD)

3. **ESTIMATED DEPTHS OF ANTICIPATED WATER, OIL, GAS OR MINERALS:**

Green River Formation (Oil)      3,685' – 6,295'

Fresh water may be encountered in the Uinta Formation, but would not be expected below about 350'. All water shows and water bearing geologic units shall be reported to the geologic and engineering staff of the Vernal Office prior to running the next string of casing or before plugging orders are requested. All water shows must be reported within one (1) business day after being encountered.

All usable (<10,000 PPM TDS) water and prospectively valuable minerals (as described by BLM at onsite) encountered during drilling will be recorded by depth and adequately protected. This information shall be reported to the Vernal Office.

Detected water flows shall be sampled, analyzed, and reported to the geologic & engineering staff of the Vernal Office. The office may request additional water samples for further analysis. Usage of the State of Utah form *Report of Water Encountered* is acceptable, but not required.

The following information is requested for water shows and samples where applicable:

Location & Sampled Interval	Date Sampled
Flow Rate	Temperature
Hardness	pH
Water Classification (State of Utah)	Dissolved Calcium (Ca) (mg/l)
Dissolved Iron (Fe) (ug/l)	Dissolved Sodium (Na) (mg/l)
Dissolved Magnesium (Mg) (mg/l)	Dissolved Carbonate (CO <sub>3</sub> ) (mg/l)
Dissolved Bicarbonate (NaHCO <sub>3</sub> ) (mg/l)	Dissolved Chloride (Cl) (mg/l)
Dissolved Sulfate (SO <sub>4</sub> ) (mg/l)	Dissolved Total Solids (TDS) (mg/l)

4. **PROPOSED CASING PROGRAM****a. Casing Design: GMBU 11-18-9-16**

Size	Interval		Weight	Grade	Coupling	Design Factors		
	Top	Bottom				Burst	Collapse	Tension
Surface casing 8-5/8"	0'	300'	24.0	J-55	STC	2,950 17.53	1,370 14.35	244,000 33.89
Prod casing 5-1/2"	0'	6,528'	15.5	J-55	LTC	4,810 2.32	4,040 1.95	217,000 2.14

## Assumptions:

- 1) Surface casing max anticipated surface press (MASP) = Frac gradient – gas gradient
- 2) Prod casing MASP (production mode) = Pore pressure – gas gradient
- 3) All collapse calculations assume fully evacuated casing w/ gas gradient
- 4) All tension calculations assume air weight

Frac gradient at surface casing shoe =	13.0 ppg
Pore pressure at surface casing shoe =	8.33 ppg
Pore pressure at prod casing shoe =	8.33 ppg
Gas gradient =	0.115 psi/ft

All casing shall be new or, if used, inspected and tested. Used casing shall meet or exceed API standards for new casing.

All casing strings shall have a minimum of 1 (one) centralizer on each of the bottom three (3) joints.

**b. Cementing Design: GMBU 11-18-9-16**

Job	Fill	Description	Sacks	OH Excess*	Weight (ppg)	Yield (ft <sup>3</sup> /sk)
			ft <sup>3</sup>			
Surface casing	300'	Class G w/ 2% CaCl	138	30%	15.8	1.17
			161			
Prod casing Lead	4,528'	Prem Lite II w/ 10% gel + 3% KCl	313 1020	30%	11.0	3.26
Prod casing Tail	2,000'	50/50 Poz w/ 2% gel + 3% KCl	363 451	30%	14.3	1.24

\*Actual volume pumped will be 15% over the caliper log

- Compressive strength of lead cement: 1800 psi @ 24 hours, 2250 psi @ 72 hours

- Compressive strength of tail cement: 2500 psi @ 24 hours

Hole Sizes: A 12-1/4" hole will be drilled for the 8-5/8" surface casing. A 7-7/8" hole will be drilled for the 5-1/2" production casing.

The 8-5/8" surface casing shall in all cases be cemented back to surface. In the event that during the primary surface cementing operation the cement does not circulate to surface, or if the cement level should fall back more than 8 feet from surface, then a remedial surface cementing operation shall be performed to insure adequate isolation and stabilization of the surface casing.

5. **MINIMUM SPECIFICATIONS FOR PRESSURE CONTROL:**

The operator's minimum specifications for pressure control equipment are as follows:

An 8" Double Ram Hydraulic unit with a closing unit will be utilized. Function test of BOP's will be check daily.

Refer to **Exhibit C** for a diagram of BOP equipment that will be used on this well.

6. **TYPE AND CHARACTERISTICS OF THE PROPOSED CIRCULATION MUDS:**

From surface to  $\pm 300$  feet will be drilled with an air/mist system. The air rig is equipped with a 6 1/2" blooie line that is straight run and securely anchored. The blooie line is used with a discharge less than 100 ft from the wellbore in order to minimize the well pad size. The blooie line is not equipped with an automatic igniter or continuous pilot light and the compressor is located less than 100 ft from the well bore due to the low possibility of combustion with the air dust mixture. The trailer mounted compressor (capacity of 2000 CFM) has a safety shut-off valve which is located 15 feet from the air rig. A truck with 70 bbls of water is on stand by to be used as kill fluid, if necessary. From about  $\pm 300$  feet to TD, a fresh water system will be utilized. Clay inhibition and hole stability will be achieved with a KCl substitute additive. This additive will be identified in the APD and reviewed to determine if the reserve pit shall be lined. This fresh water system will typically contain Total Dissolved Solids (TDS) of less than 3000 PPM. Anticipated mud weight is 8.4 lbs/gal. If necessary to control formation fluids or pressure, the system will be weighted with the addition of bentonite gel, and if pressure conditions warrant, with barite

No chromate additives will be used in the mud system on Federal and/or Indian lands without prior BLM approval to ensure adequate protection of fresh aquifers.

No chemicals subject to reporting under SARA Title III in an amount equal to or greater than 10,000 pounds will be used, produced, stored, transported, or disposed of annually in association with the drilling, testing, or completing of this 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 completing of this well.

Hazardous substances specifically listed by the EPA as a hazardous waste or demonstrating a characteristic of a hazardous waste will not be used in drilling, testing, or completion operations.

Newfield Production will **visually** monitor pit levels and flow from the well during drilling operations.

7. **AUXILIARY SAFETY EQUIPMENT TO BE USED:**

Auxiliary safety equipment will be a Kelly Cock, bit float, and a TIW valve with drill pipe threads.

8. **TESTING, LOGGING AND CORING PROGRAMS:**

The logging program will consist of a Dual Induction, Gamma Ray and Caliper log from TD to base of surface casing @ 300' +/-, and a Compensated Neutron-Formation Density Log from TD to 3500' +/- . A cement bond log will be run from PBTD to cement top. No drill stem testing or coring is planned for this well.

9. **ANTICIPATED ABNORMAL PRESSURE OR TEMPERATURE:**

No abnormal temperatures or pressures are anticipated. No hydrogen sulfide has been encountered or is known to exist from previous drilling in the area at this depth. Maximum anticipated

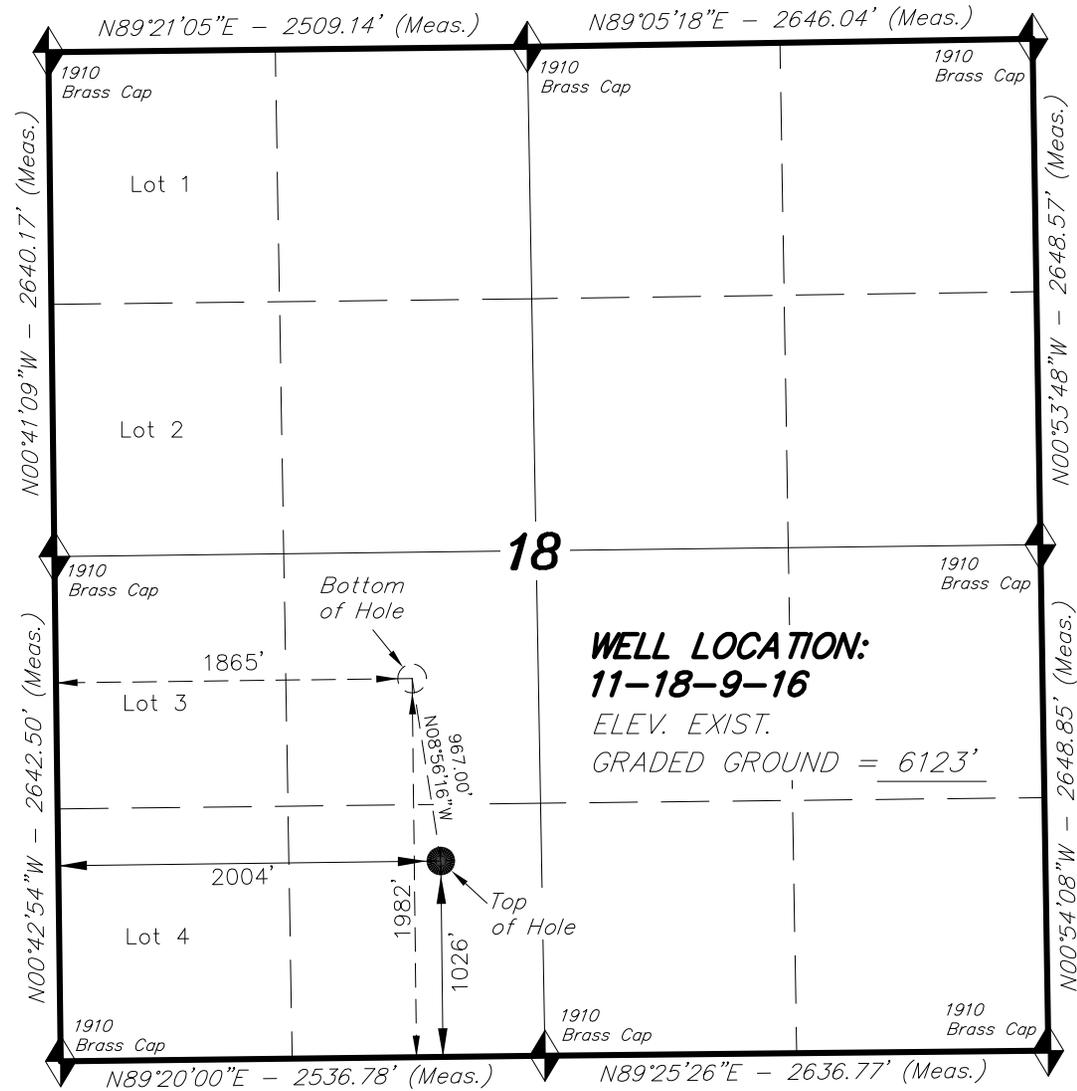
bottomhole pressure will approximately equal total depth in feet multiplied by a 0.433 psi/foot gradient.

10. **ANTICIPATED STARTING DATE AND DURATION OF THE OPERATIONS:**

It is anticipated that the drilling operations will commence the first quarter of 2014, and take approximately seven (7) days from spud to rig release.

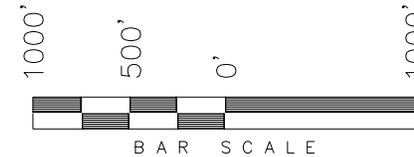
# T9S, R16E, S.L.B.&M.

## NEWFIELD EXPLORATION COMPANY



WELL LOCATION, 11-18-9-16, LOCATED AS SHOWN IN THE SE 1/4 SW 1/4 OF SECTION 18, T9S, R16E, S.L.B.&M. DUCHESNE COUNTY, UTAH.

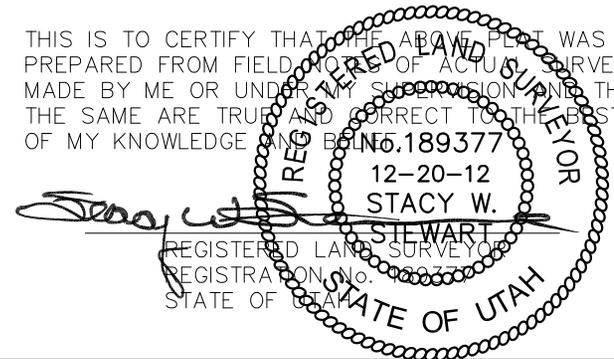
TARGET BOTTOM HOLE, 11-18-9-16, LOCATED AS SHOWN IN THE NE 1/4 SW 1/4 OF SECTION 18, T9S, R16E, S.L.B.&M. DUCHESNE COUNTY, UTAH.



**NOTES:**

1. Well footages are measured at right angles to the Section Lines.
2. Bearings are based on Global Positioning Satellite observations.

THIS IS TO CERTIFY THAT THE ABOVE 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.



◆ = SECTION CORNERS LOCATED

BASIS OF ELEV; Elevations are based on an N.G.S. OPUS Correction. LOCATION: LAT. 40°04'09.56" LONG. 110°00'43.28" (Tristate Aluminum Cap) Elev. 5281.57'

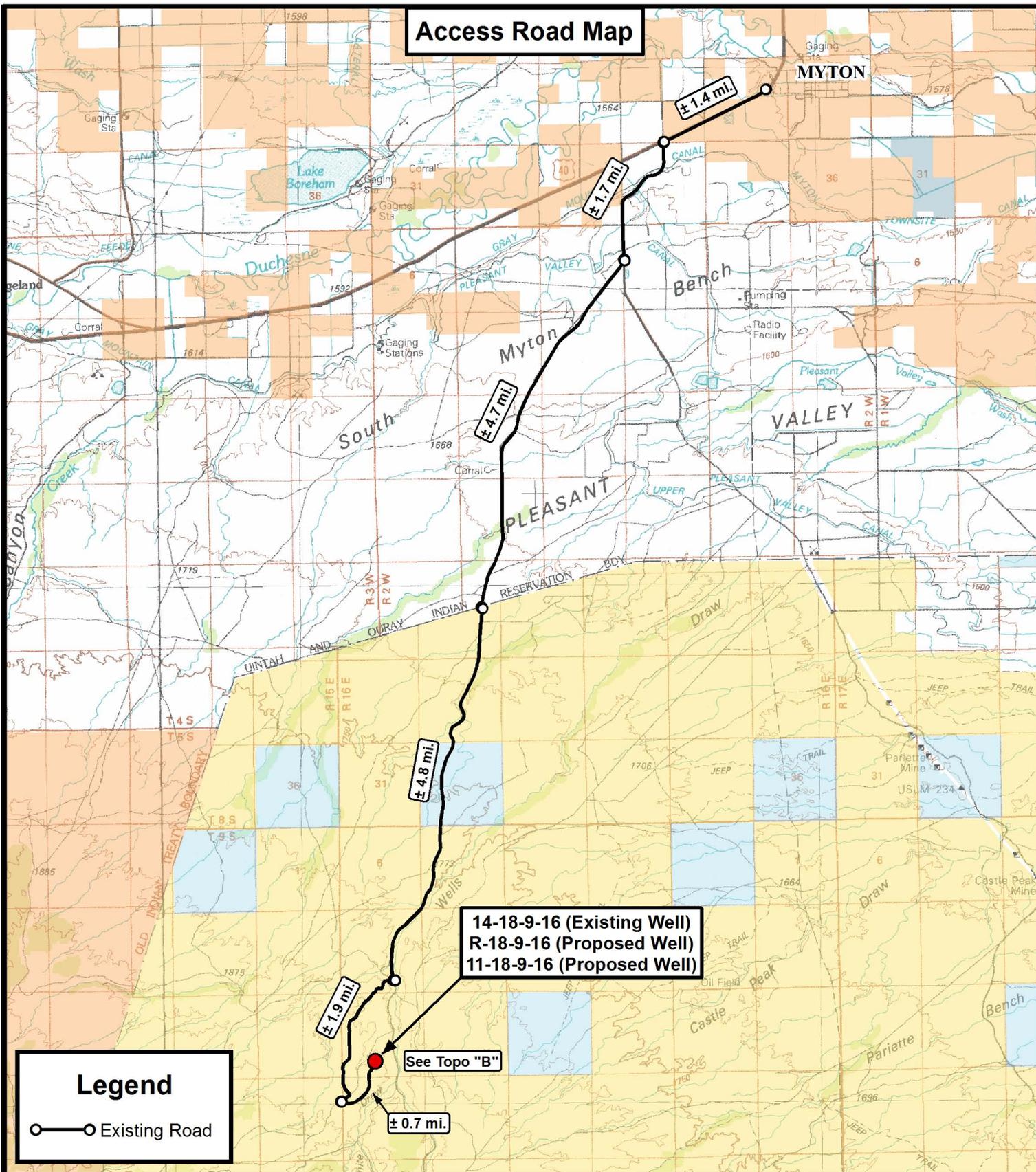
<b>NAD 83 (SURFACE LOCATION)</b>
LATITUDE = 40°01'35.35"
LONGITUDE = 110°09'50.14"
<b>NAD 27 (SURFACE LOCATION)</b>
LATITUDE = 40°01'35.48"
LONGITUDE = 110°09'47.59"
<b>NAD 83 (BOTTOM HOLE LOCATION)</b>
LATITUDE = 40°01'44.81"
LONGITUDE = 110°09'51.88"
<b>NAD 27 (BOTTOM HOLE LOCATION)</b>
LATITUDE = 40°01'44.94"
LONGITUDE = 110°09'49.34"

### TRI STATE LAND SURVEYING & CONSULTING

180 NORTH VERNAL AVE. - VERNAL, UTAH 84078  
 (435) 781-2501

DATE SURVEYED: 12-03-12	SURVEYED BY: S.H.	VERSION:
DATE DRAWN: 12-20-12	DRAWN BY: V.H.	V1
REVISED:	SCALE: 1" = 1000'	

**Access Road Map**



14-18-9-16 (Existing Well)  
 R-18-9-16 (Proposed Well)  
 11-18-9-16 (Proposed Well)

**Legend**

○—○ Existing Road

**Tri State**  
**Land Surveying, Inc.**  
 180 NORTH VERNAL AVE. VERNAL, UTAH 84078

P: (435) 781-2501  
 F: (435) 781-2518



**NEWFIELD EXPLORATION COMPANY**

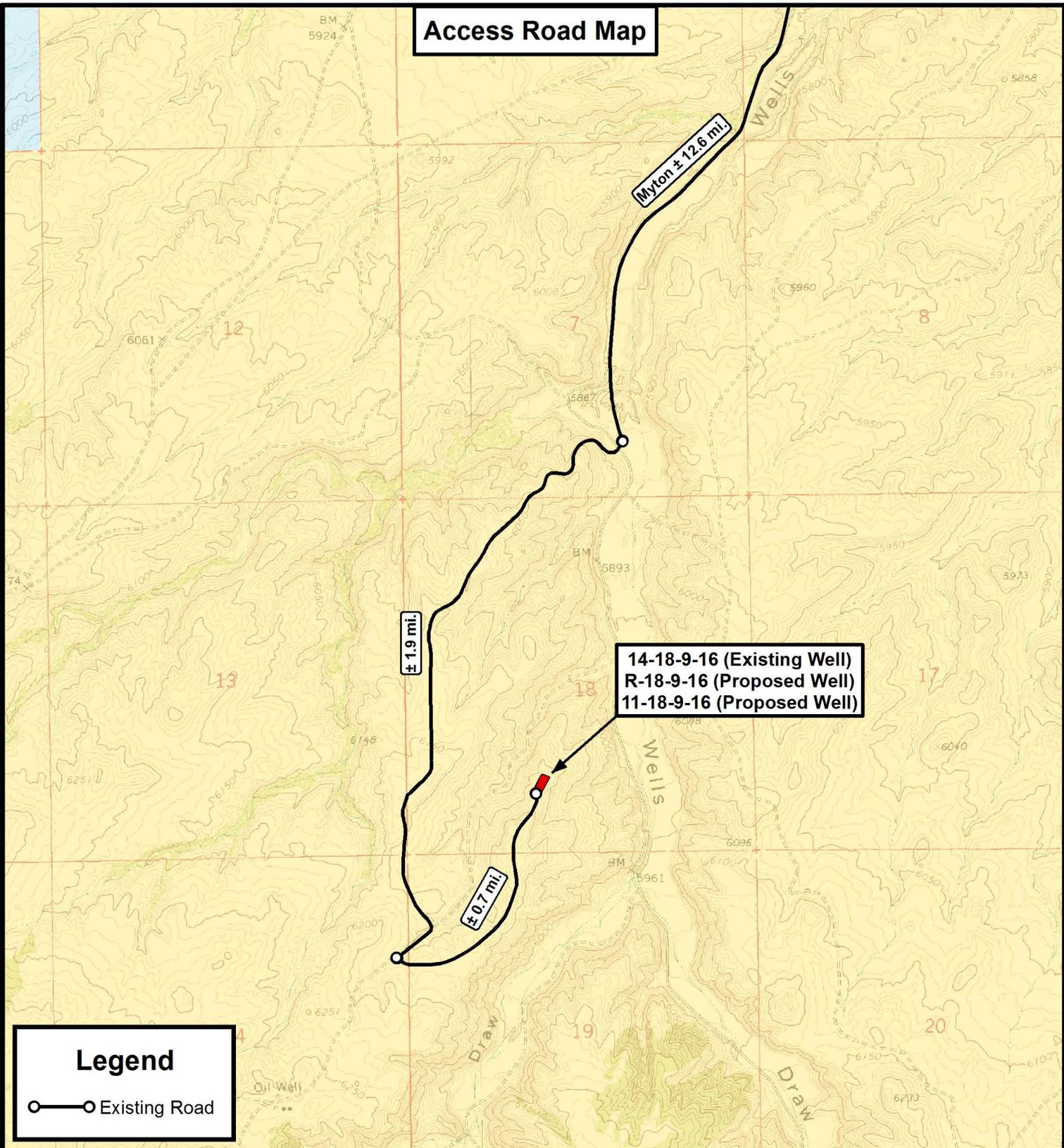
14-18-9-16 (Existing Well)  
 R-18-9-16 (Proposed Well)  
 11-18-9-16 (Proposed Well)  
 SEC. 18, T9S, R16E, S.L.B.&M. Duchesne County, UT.

DRAWN BY:	A.P.C.	REVISED:	VERSION:
DATE:	12-26-2012		<b>V1</b>
SCALE:	1:100,000		

**TOPOGRAPHIC MAP**

SHEET  
**A**

**Access Road Map**



**Legend**

○—○ Existing Road

THE PARCEL INFORMATION SHOWN HAS NOT BEEN SURVEYED BY TRI-STATE LAND SURVEYING, INC. - TRI-STATE DOES NOT WARRANTY PROPERTY PARCEL DATA OR ANY ASSOCIATED INFORMATION. A PROPERTY SURVEY IS REQUIRED TO DETERMINE THE ACTUAL LOCATION OF PROPERTY LINES AND SHOW ACCURATE DISTANCES ACROSS PARCELS.



**Tri State  
Land Surveying, Inc.**  
180 NORTH VERNAL AVE. VERNAL, UTAH 84078

P: (435) 781-2501  
F: (435) 781-2518



**NEWFIELD EXPLORATION COMPANY**

14-18-9-16 (Existing Well)  
R-18-9-16 (Proposed Well)  
11-18-9-16 (Proposed Well)

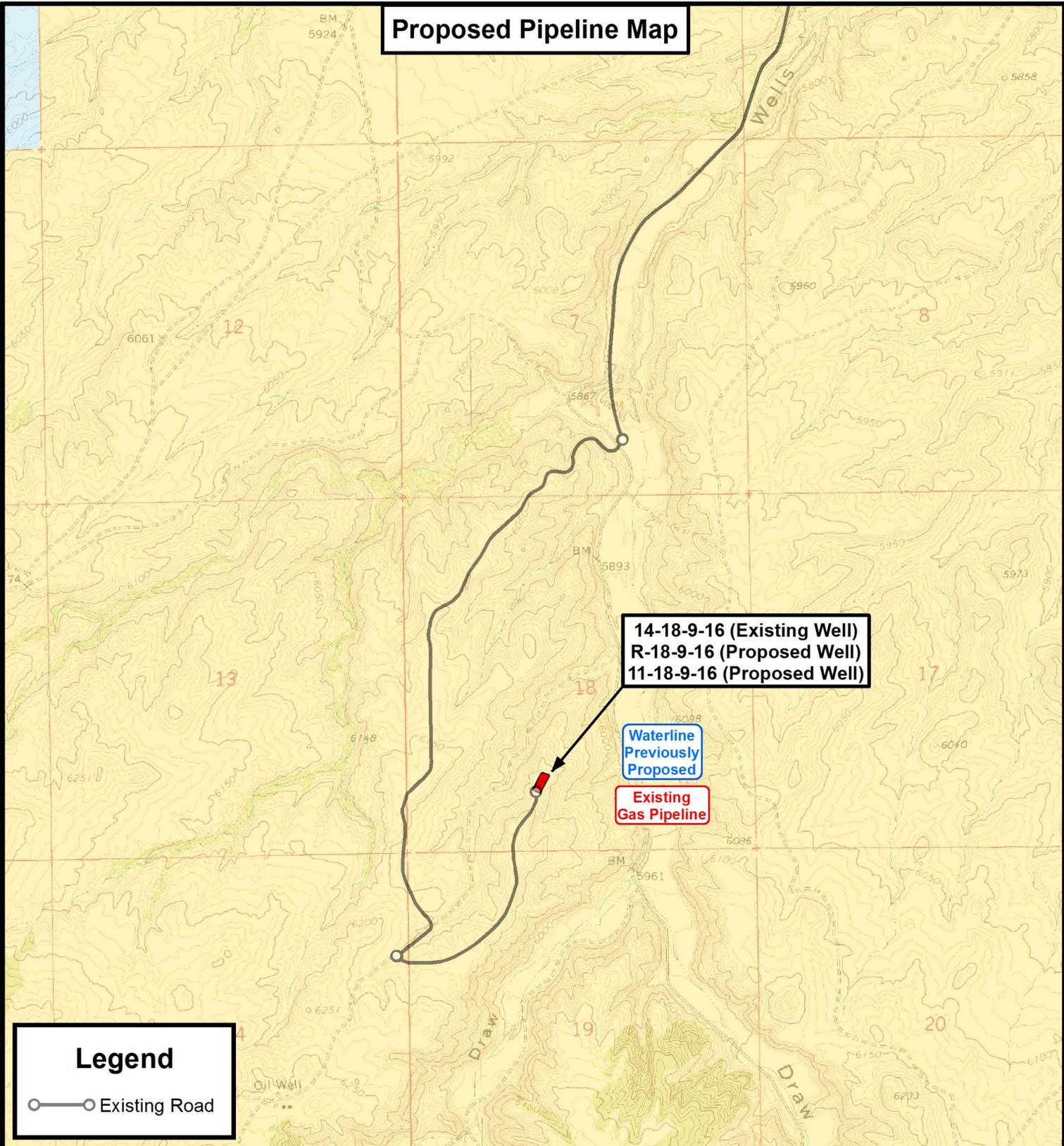
SEC. 18, T9S, R16E, S.L.B.&M. Duchesne County, UT.

DRAWN BY:	A.P.C.	REVISED:	VERSION:
DATE:	12-26-2012		<b>V1</b>
SCALE:	1" = 2,000'		

**TOPOGRAPHIC MAP**

SHEET **B**

**Proposed Pipeline Map**



**Legend**

○—○ Existing Road

THE PARCEL INFORMATION SHOWN HAS NOT BEEN SURVEYED BY TRI-STATE LAND SURVEYING, INC. - TRI-STATE DOES NOT WARRANTY PROPERTY PARCEL DATA OR ANY ASSOCIATED INFORMATION. A PROPERTY SURVEY IS REQUIRED TO DETERMINE THE ACTUAL LOCATION OF PROPERTY LINES AND SHOW ACCURATE DISTANCES ACROSS PARCELS.



**Tri State Land Surveying, Inc.**  
180 NORTH VERNAL AVE. VERNAL, UTAH 84078

P: (435) 781-2501  
F: (435) 781-2518



**NEWFIELD EXPLORATION COMPANY**

14-18-9-16 (Existing Well)  
R-18-9-16 (Proposed Well)  
11-18-9-16 (Proposed Well)

SEC. 18, T9S, R16E, S.L.B.&M. Duchesne County, UT.

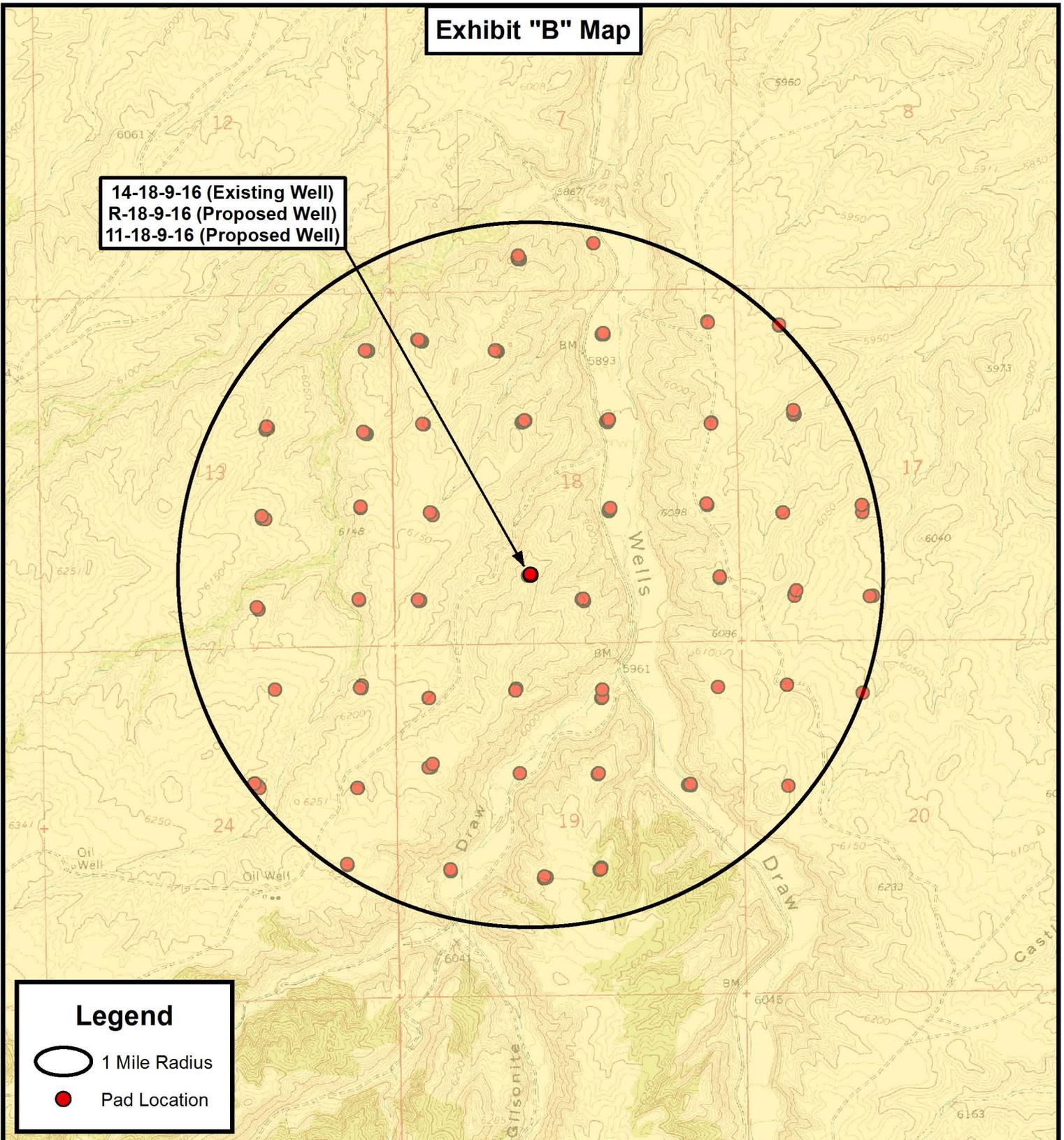
DRAWN BY:	A.P.C.	REVISED:	VERSION:
DATE:	12-26-2012		<b>V1</b>
SCALE:	1" = 2,000'		

**TOPOGRAPHIC MAP**

SHEET **C**

**Exhibit "B" Map**

14-18-9-16 (Existing Well)  
 R-18-9-16 (Proposed Well)  
 11-18-9-16 (Proposed Well)



**Legend**

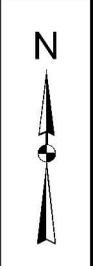
-  1 Mile Radius
-  Pad Location

THE PARCEL INFORMATION SHOWN HAS NOT BEEN SURVEYED BY TRI-STATE LAND SURVEYING, INC. - TRI-STATE DOES NOT WARRANTY PROPERTY PARCEL DATA OR ANY ASSOCIATED INFORMATION. A PROPERTY SURVEY IS REQUIRED TO DETERMINE THE ACTUAL LOCATION OF PROPERTY LINES AND SHOW ACCURATE DISTANCES ACROSS PARCELS.



**Tri State  
 Land Surveying, Inc.**  
 180 NORTH VERNAL AVE. VERNAL, UTAH 84078

P: (435) 781-2501  
 F: (435) 781-2518



**NEWFIELD EXPLORATION COMPANY**

14-18-9-16 (Existing Well)  
 R-18-9-16 (Proposed Well)  
 11-18-9-16 (Proposed Well)

SEC. 18, T9S, R16E, S.L.B.&M. Duchesne County, UT.

DRAWN BY:	A.P.C.	REVISED:	VERSION:
DATE:	12-26-2012		<b>V1</b>
SCALE:	1" = 2,000'		

**TOPOGRAPHIC MAP**

SHEET **D**

## Coordinate Report

Well Number	Feature Type	Latitude (NAD 83) (DMS)	Longitude (NAD 83) (DMS)
14-18-9-16	Surface Hole	40° 01' 35.46" N	110° 09' 49.61" W
R-18-9-16	Surface Hole	40° 01' 35.41" N	110° 09' 49.87" W
11-18-9-16	Surface Hole	40° 01' 35.35" N	110° 09' 50.14" W
R-18-9-16	Center of Pattern	40° 01' 39.38" N	110° 09' 41.67" W
R-18-9-16	Bottom of Hole	40° 01' 40.43" N	110° 09' 39.50" W
11-18-9-16	Bottom of Hole	40° 01' 44.81" N	110° 09' 51.88" W
Well Number	Feature Type	Latitude (NAD 83) (DD)	Longitude (NAD 83) (DD)
14-18-9-16	Surface Hole	40.026518	110.163781
R-18-9-16	Surface Hole	40.026502	110.163854
11-18-9-16	Surface Hole	40.026485	110.163927
R-18-9-16	Center of Pattern	40.027605	110.161574
R-18-9-16	Bottom of Hole	40.027897	110.160972
11-18-9-16	Bottom of Hole	40.029113	110.164412
Well Number	Feature Type	Northing (NAD 83) (UTM Meters)	Longitude (NAD 83) (UTM Meters)
14-18-9-16	Surface Hole	4431035.342	571352.192
R-18-9-16	Surface Hole	4431033.483	571346.003
11-18-9-16	Surface Hole	4431031.624	571339.814
R-18-9-16	Center of Pattern	4431157.823	571539.407
R-18-9-16	Bottom of Hole	4431190.658	571590.481
11-18-9-16	Bottom of Hole	4431322.865	571295.666
Well Number	Feature Type	Latitude (NAD 27) (DMS)	Longitude (NAD 27) (DMS)
14-18-9-16	Surface Hole	40° 01' 35.60" N	110° 09' 47.07" W
R-18-9-16	Surface Hole	40° 01' 35.54" N	110° 09' 47.33" W
11-18-9-16	Surface Hole	40° 01' 35.48" N	110° 09' 47.59" W
R-18-9-16	Center of Pattern	40° 01' 39.52" N	110° 09' 39.12" W
R-18-9-16	Bottom of Hole	40° 01' 40.56" N	110° 09' 36.95" W
11-18-9-16	Bottom of Hole	40° 01' 44.94" N	110° 09' 49.34" W
Well Number	Feature Type	Latitude (NAD 27) (DD)	Longitude (NAD 27) (DD)
14-18-9-16	Surface Hole	40.026556	110.163074
R-18-9-16	Surface Hole	40.026539	110.163147
11-18-9-16	Surface Hole	40.026523	110.163219
R-18-9-16	Center of Pattern	40.027643	110.160867
R-18-9-16	Bottom of Hole	40.027935	110.160264
11-18-9-16	Bottom of Hole	40.029151	110.163705



P: (435) 781-2501  
F: (435) 781-2518

### NEWFIELD EXPLORATION COMPANY

14-18-9-16 (Existing Well)  
R-18-9-16 (Proposed Well)  
11-18-9-16 (Proposed Well)  
SEC. 18, T9S, R16E, S.L.B.&M. Duchesne County, UT.

DRAWN BY: A.P.C.  
DATE: 12-26-2012  
VERSION: V1

REVISED:

**COORDINATE REPORT**

SHEET

**1**

RECEIVED: August 29, 2013





# **NEWFIELD EXPLORATION**

**USGS Myton SW (UT)**

**SECTION 18 T9, R16**

**11-18-9-16**

**Wellbore #1**

**Plan: Design #1**

## **Standard Planning Report**

**29 August, 2013**





**Payzone Directional**  
Planning Report



<b>Database:</b>	EDM 2003.21 Single User Db	<b>Local Co-ordinate Reference:</b>	Well 11-18-9-16
<b>Company:</b>	NEWFIELD EXPLORATION	<b>TVD Reference:</b>	11-18-9-16 @ 6133.0ft (Original Well Elev)
<b>Project:</b>	USGS Myton SW (UT)	<b>MD Reference:</b>	11-18-9-16 @ 6133.0ft (Original Well Elev)
<b>Site:</b>	SECTION 18 T9, R16	<b>North Reference:</b>	True
<b>Well:</b>	11-18-9-16	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	Wellbore #1		
<b>Design:</b>	Design #1		

<b>Project</b>	USGS Myton SW (UT), DUCHESNE COUNTY, UT, USA		
<b>Map System:</b>	US State Plane 1983	<b>System Datum:</b>	Mean Sea Level
<b>Geo Datum:</b>	North American Datum 1983		
<b>Map Zone:</b>	Utah Central Zone		

<b>Site</b>	SECTION 18 T9, R16				
<b>Site Position:</b>		<b>Northing:</b>	7,184,524.45 ft	<b>Latitude:</b>	40° 2' 8.610 N
<b>From:</b>	Lat/Long	<b>Easting:</b>	2,014,084.90 ft	<b>Longitude:</b>	110° 9' 55.350 W
<b>Position Uncertainty:</b>	0.0 ft	<b>Slot Radius:</b>	"	<b>Grid Convergence:</b>	0.85 °

<b>Well</b>	11-18-9-16, SHL LAT: 40 01 35.35 LONG: -110 09 50.14					
<b>Well Position</b>	<b>+N/-S</b>	-3,365.3 ft	<b>Northing:</b>	7,181,165.57 ft	<b>Latitude:</b>	40° 1' 35.350 N
	<b>+E/-W</b>	405.2 ft	<b>Easting:</b>	2,014,540.33 ft	<b>Longitude:</b>	110° 9' 50.140 W
<b>Position Uncertainty</b>		0.0 ft	<b>Wellhead Elevation:</b>	6,133.0 ft	<b>Ground Level:</b>	6,123.0 ft

<b>Wellbore</b>	Wellbore #1				
<b>Magnetics</b>	<b>Model Name</b>	<b>Sample Date</b>	<b>Declination (°)</b>	<b>Dip Angle (°)</b>	<b>Field Strength (nT)</b>
	IGRF2010	8/29/2013	11.07	65.71	52,024

<b>Design</b>	Design #1			
<b>Audit Notes:</b>				
<b>Version:</b>	<b>Phase:</b>	PROTOTYPE	<b>Tie On Depth:</b>	0.0
<b>Vertical Section:</b>	<b>Depth From (TVD) (ft)</b>	<b>+N/-S (ft)</b>	<b>+E/-W (ft)</b>	<b>Direction (°)</b>
	0.0	0.0	0.0	351.06

<b>Plan Sections</b>										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	TFO (°)	Target
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.00	0.00	
600.0	0.00	0.00	600.0	0.0	0.0	0.00	0.00	0.00	0.00	
1,263.3	9.95	351.06	1,260.0	56.7	-8.9	1.50	1.50	0.00	351.06	
6,527.5	9.95	351.06	6,445.0	955.3	-150.3	0.00	0.00	0.00	0.00	11-18-9-16 TGT



**Payzone Directional**  
Planning Report



<b>Database:</b>	EDM 2003.21 Single User Db	<b>Local Co-ordinate Reference:</b>	Well 11-18-9-16
<b>Company:</b>	NEWFIELD EXPLORATION	<b>TVD Reference:</b>	11-18-9-16 @ 6133.0ft (Original Well Elev)
<b>Project:</b>	USGS Myton SW (UT)	<b>MD Reference:</b>	11-18-9-16 @ 6133.0ft (Original Well Elev)
<b>Site:</b>	SECTION 18 T9, R16	<b>North Reference:</b>	True
<b>Well:</b>	11-18-9-16	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	Wellbore #1		
<b>Design:</b>	Design #1		

Planned Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.00	0.00	0.00
100.0	0.00	0.00	100.0	0.0	0.0	0.0	0.00	0.00	0.00
200.0	0.00	0.00	200.0	0.0	0.0	0.0	0.00	0.00	0.00
300.0	0.00	0.00	300.0	0.0	0.0	0.0	0.00	0.00	0.00
400.0	0.00	0.00	400.0	0.0	0.0	0.0	0.00	0.00	0.00
500.0	0.00	0.00	500.0	0.0	0.0	0.0	0.00	0.00	0.00
600.0	0.00	0.00	600.0	0.0	0.0	0.0	0.00	0.00	0.00
700.0	1.50	351.06	700.0	1.3	-0.2	1.3	1.50	1.50	0.00
800.0	3.00	351.06	799.9	5.2	-0.8	5.2	1.50	1.50	0.00
900.0	4.50	351.06	899.7	11.6	-1.8	11.8	1.50	1.50	0.00
1,000.0	6.00	351.06	999.3	20.7	-3.3	20.9	1.50	1.50	0.00
1,100.0	7.50	351.06	1,098.6	32.3	-5.1	32.7	1.50	1.50	0.00
1,200.0	9.00	351.06	1,197.5	46.5	-7.3	47.0	1.50	1.50	0.00
1,263.3	9.95	351.06	1,260.0	56.7	-8.9	57.4	1.50	1.50	0.00
1,300.0	9.95	351.06	1,296.1	63.0	-9.9	63.8	0.00	0.00	0.00
1,400.0	9.95	351.06	1,394.6	80.1	-12.6	81.1	0.00	0.00	0.00
1,500.0	9.95	351.06	1,493.1	97.1	-15.3	98.3	0.00	0.00	0.00
1,600.0	9.95	351.06	1,591.6	114.2	-18.0	115.6	0.00	0.00	0.00
1,700.0	9.95	351.06	1,690.1	131.3	-20.7	132.9	0.00	0.00	0.00
1,800.0	9.95	351.06	1,788.6	148.4	-23.3	150.2	0.00	0.00	0.00
1,900.0	9.95	351.06	1,887.1	165.4	-26.0	167.5	0.00	0.00	0.00
2,000.0	9.95	351.06	1,985.6	182.5	-28.7	184.7	0.00	0.00	0.00
2,100.0	9.95	351.06	2,084.1	199.6	-31.4	202.0	0.00	0.00	0.00
2,200.0	9.95	351.06	2,182.6	216.6	-34.1	219.3	0.00	0.00	0.00
2,300.0	9.95	351.06	2,281.1	233.7	-36.8	236.6	0.00	0.00	0.00
2,400.0	9.95	351.06	2,379.6	250.8	-39.4	253.8	0.00	0.00	0.00
2,500.0	9.95	351.06	2,478.1	267.8	-42.1	271.1	0.00	0.00	0.00
2,600.0	9.95	351.06	2,576.6	284.9	-44.8	288.4	0.00	0.00	0.00
2,700.0	9.95	351.06	2,675.1	302.0	-47.5	305.7	0.00	0.00	0.00
2,800.0	9.95	351.06	2,773.6	319.0	-50.2	323.0	0.00	0.00	0.00
2,900.0	9.95	351.06	2,872.1	336.1	-52.9	340.2	0.00	0.00	0.00
3,000.0	9.95	351.06	2,970.6	353.2	-55.6	357.5	0.00	0.00	0.00
3,100.0	9.95	351.06	3,069.0	370.2	-58.2	374.8	0.00	0.00	0.00
3,200.0	9.95	351.06	3,167.5	387.3	-60.9	392.1	0.00	0.00	0.00
3,300.0	9.95	351.06	3,266.0	404.4	-63.6	409.3	0.00	0.00	0.00
3,400.0	9.95	351.06	3,364.5	421.4	-66.3	426.6	0.00	0.00	0.00
3,500.0	9.95	351.06	3,463.0	438.5	-69.0	443.9	0.00	0.00	0.00
3,600.0	9.95	351.06	3,561.5	455.6	-71.7	461.2	0.00	0.00	0.00
3,700.0	9.95	351.06	3,660.0	472.6	-74.4	478.5	0.00	0.00	0.00
3,800.0	9.95	351.06	3,758.5	489.7	-77.0	495.7	0.00	0.00	0.00
3,900.0	9.95	351.06	3,857.0	506.8	-79.7	513.0	0.00	0.00	0.00
4,000.0	9.95	351.06	3,955.5	523.9	-82.4	530.3	0.00	0.00	0.00
4,100.0	9.95	351.06	4,054.0	540.9	-85.1	547.6	0.00	0.00	0.00
4,200.0	9.95	351.06	4,152.5	558.0	-87.8	564.9	0.00	0.00	0.00
4,300.0	9.95	351.06	4,251.0	575.1	-90.5	582.1	0.00	0.00	0.00
4,400.0	9.95	351.06	4,349.5	592.1	-93.1	599.4	0.00	0.00	0.00
4,500.0	9.95	351.06	4,448.0	609.2	-95.8	616.7	0.00	0.00	0.00
4,600.0	9.95	351.06	4,546.5	626.3	-98.5	634.0	0.00	0.00	0.00
4,700.0	9.95	351.06	4,645.0	643.3	-101.2	651.2	0.00	0.00	0.00
4,800.0	9.95	351.06	4,743.5	660.4	-103.9	668.5	0.00	0.00	0.00
4,900.0	9.95	351.06	4,842.0	677.5	-106.6	685.8	0.00	0.00	0.00
5,000.0	9.95	351.06	4,940.5	694.5	-109.3	703.1	0.00	0.00	0.00
5,100.0	9.95	351.06	5,039.0	711.6	-111.9	720.4	0.00	0.00	0.00
5,200.0	9.95	351.06	5,137.5	728.7	-114.6	737.6	0.00	0.00	0.00



## Payzone Directional Planning Report



<b>Database:</b>	EDM 2003.21 Single User Db	<b>Local Co-ordinate Reference:</b>	Well 11-18-9-16
<b>Company:</b>	NEWFIELD EXPLORATION	<b>TVD Reference:</b>	11-18-9-16 @ 6133.0ft (Original Well Elev)
<b>Project:</b>	USGS Myton SW (UT)	<b>MD Reference:</b>	11-18-9-16 @ 6133.0ft (Original Well Elev)
<b>Site:</b>	SECTION 18 T9, R16	<b>North Reference:</b>	True
<b>Well:</b>	11-18-9-16	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	Wellbore #1		
<b>Design:</b>	Design #1		

Planned Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
5,300.0	9.95	351.06	5,236.0	745.7	-117.3	754.9	0.00	0.00	0.00
5,400.0	9.95	351.06	5,334.5	762.8	-120.0	772.2	0.00	0.00	0.00
5,500.0	9.95	351.06	5,433.0	779.9	-122.7	789.5	0.00	0.00	0.00
5,600.0	9.95	351.06	5,531.4	796.9	-125.4	806.7	0.00	0.00	0.00
5,700.0	9.95	351.06	5,629.9	814.0	-128.1	824.0	0.00	0.00	0.00
5,800.0	9.95	351.06	5,728.4	831.1	-130.7	841.3	0.00	0.00	0.00
5,900.0	9.95	351.06	5,826.9	848.1	-133.4	858.6	0.00	0.00	0.00
6,000.0	9.95	351.06	5,925.4	865.2	-136.1	875.9	0.00	0.00	0.00
6,100.0	9.95	351.06	6,023.9	882.3	-138.8	893.1	0.00	0.00	0.00
6,200.0	9.95	351.06	6,122.4	899.4	-141.5	910.4	0.00	0.00	0.00
6,300.0	9.95	351.06	6,220.9	916.4	-144.2	927.7	0.00	0.00	0.00
6,400.0	9.95	351.06	6,319.4	933.5	-146.8	945.0	0.00	0.00	0.00
6,500.0	9.95	351.06	6,417.9	950.6	-149.5	962.2	0.00	0.00	0.00
6,527.5	9.95	351.06	6,445.0	955.3	-150.3	967.0	0.00	0.00	0.00

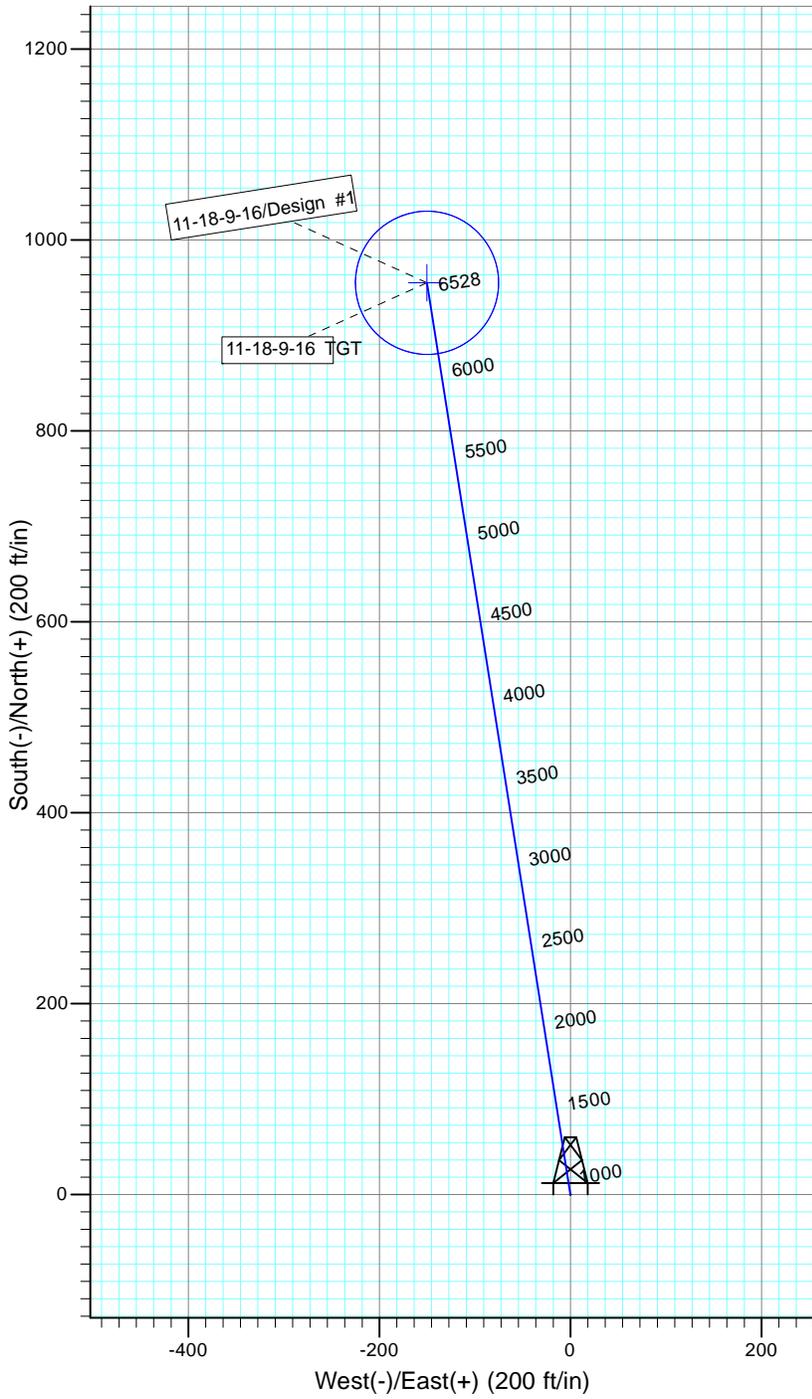
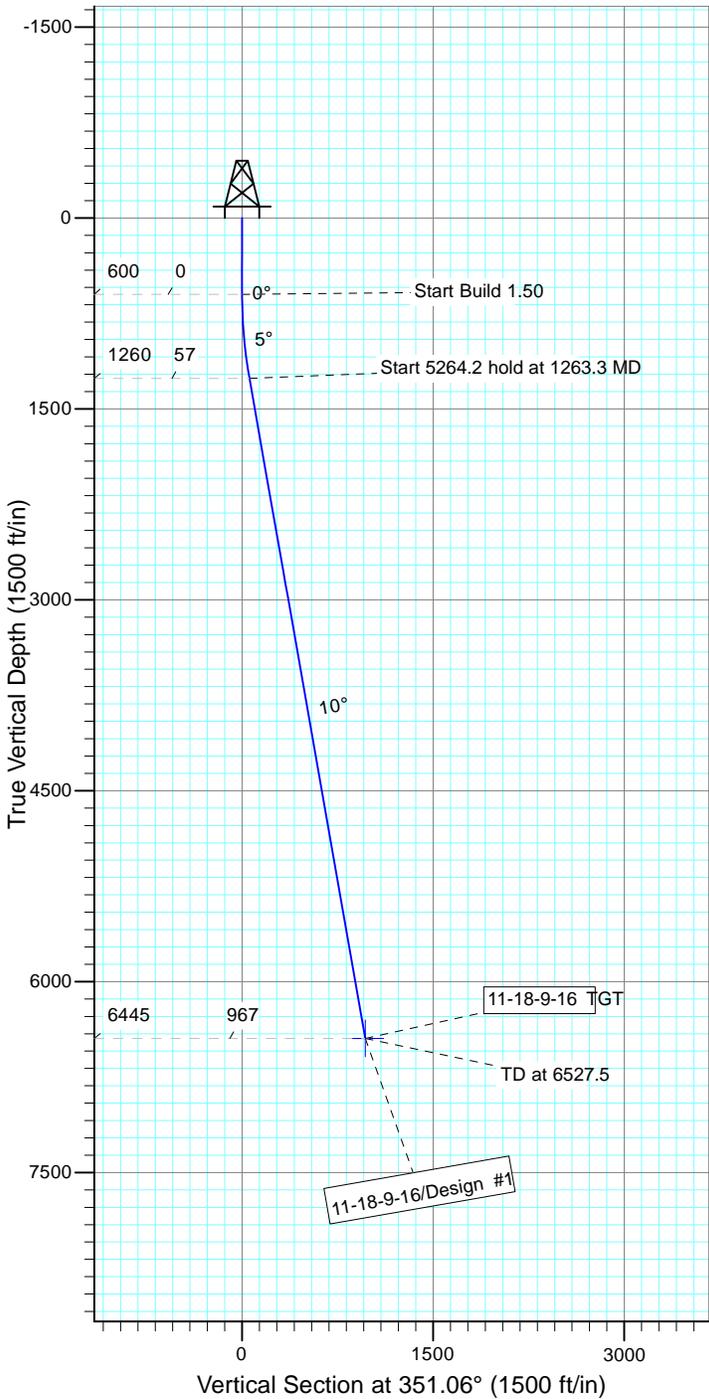


Project: USGS Myton SW (UT)  
 Site: SECTION 18 T9, R16  
 Well: 11-18-9-16  
 Wellbore: Wellbore #1  
 Design: Design #1



Azimuths to True North  
 Magnetic North: 11.07°

Magnetic Field  
 Strength: 52023.5snT  
 Dip Angle: 65.71°  
 Date: 8/29/2013  
 Model: IGRF2010



WELLBORE TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Shape
11-18-9-16 TGT	6445.0	955.3	-150.3	Circle (Radius: 75.0)

SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	DLeg	TFace	VSec	Target
1	0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0	
2	600.0	0.00	0.00	600.0	0.0	0.0	0.00	0.00	0.0	
3	1263.3	9.95	351.06	1260.0	56.7	-8.9	1.50	351.06	57.4	
4	6527.5	9.95	351.06	6445.0	955.3	-150.3	0.00	0.00	967.0	11-18-9-16 TGT



**NEWFIELD PRODUCTION COMPANY  
GMBU 11-18-9-16  
AT SURFACE: SE/SW SECTION 18, T9S R16E  
DUCHESNE COUNTY, UTAH**

**ONSHORE ORDER NO. 1**

**MULTI-POINT SURFACE USE & OPERATIONS PLAN**

**1. EXISTING ROADS**

See attached Topographic Map "A"

To reach Newfield Production Company well location site GMBU 11-18-9-16 located in the SE 1/4 SW 1/4 Section 18, T9S, R16E, Duchesne County, Utah:

Proceed southwesterly out of Myton, Utah along Highway 40 – 1.4 miles  $\pm$  to the junction of this highway and UT State Hwy 53; proceed in a southwesterly direction – 13.1 miles  $\pm$  to it's junction with an existing road to the northeast; proceed in a northeasterly direction – 0.7 miles  $\pm$  to it's junction with the beginning of the access road to the existing 14-18-9-16 well location.

The aforementioned dirt oil field service roads and other roads in the vicinity are constructed out of existing native materials that are prevalent to the existing area they are located in and range from clays to a sandy-clay shale material.

The roads for access during the drilling, completion and production phase will be maintained at the standards required by the State of Utah, or other controlling agencies. This maintenance will consist of some minor grader work for smoothing road surfaces and for snow removal. Any necessary fill material for repair will be purchase and hauled from private sources.

**2. PLANNED ACCESS ROAD**

There is no proposed access road for this location. The proposed well will be drilled directionally off of the existing 14-18-9-16 well pad. See attached **Topographic Map "B"**.

There will be **no** culverts required along this access road. There will be barrow ditches and turnouts as needed along this road.

There are no fences encountered along this proposed road. There will be no new gates or cattle guards required.

All construction material for this access road will be borrowed material accumulated during construction of the access road.

**3. LOCATION OF EXISTING WELLS**

Refer to Exhibit "B".

**4. LOCATION OF EXISTING AND/OR PROPOSED FACILITIES**

There are no existing facilities that will be used by this well.

It is anticipated that this well will be a producing oil well.

Upon construction of a tank battery, the well pad will be surrounded by a dike of sufficient capacity to contain at minimum 110% of the largest tank volume within the facility battery.

Tank batteries will be built to State specifications.

All permanent (on site for six (6) months or longer) structures, constructed or installed (including pumping units), will be painted a flat, non-reflective, earth tone color to match one of the standard environmental colors, as determined by the Rocky Mountain Five State Interagency Committee. All facilities will be painted within six months of installation.

5. **LOCATION AND TYPE OF WATER SUPPLY**

Newfield Production will transport water by truck from nearest water source as determined by a Newfield representative for the purpose of drilling the above mentioned well. The available water sources are as follows:

Johnson Water District  
Water Right : 43-7478

Maurice Harvey Pond  
Water Right: 47-1358

Neil Moon Pond  
Water Right: 43-11787

Newfield Collector Well  
Water Right: 47-1817 (A30414DVA, contracted with the Duchesne County Conservancy District).

There will be no water well drilled at this site.

6. **SOURCE OF CONSTRUCTION MATERIALS**

All construction material for this location shall be borrowed material accumulated during construction of the location site and access road.

A mineral material application is not required for this location.

7. **METHODS FOR HANDLING WASTE DISPOSAL**

A small reserve pit (90' x 40' x 8' deep, or less) will be constructed from native soil and clay materials. The reserve pit will receive the processed drill cutting (wet sand, shale & rock) removed from the wellbore. Any drilling fluids, which do accumulate in the pit as a result of shale-shaker carryover, cleaning of the sand trap, etc., will be promptly reclaimed. All drilling fluids will be fresh water based, typically containing Total Dissolved Solids of less than 3000 PPM. No potassium chloride, chromates, trash, debris, nor any other substance deemed hazardous will be placed in this pit. Therefore, it is proposed that no synthetic liner be required in the reserve pit. However, if upon constructing the pit there is insufficient fine clay and silt present, a liner will be used for the purpose of reducing water loss through percolation.

Newfield requests approval that a flare pit not be constructed or utilized on this location.

A portable toilet will be provided for human waste.

A trash basket will be provided for garbage (trash) and hauled away to an approved disposal site at the completion of the drilling activities.

8. **ANCILLARY FACILITIES**

There are no ancillary facilities planned for at the present time and none foreseen in the near future.

9. **WELL SITE LAYOUT**

See attached Location Layout Sheet.

**Fencing Requirements**

- a) All pits will be fenced or have panels installed consistent with the following minimum standards:
  1. The wire shall be no more than two (2) inches above the ground. If barbed wire is utilized it will be installed three (3) inches above the net wire. Total height of the fence shall be at least forty-two (42) inches.
  2. Corner posts shall be centered and/or braced in such a manner to keep tight and upright at all times
  3. Standard steel, wood or pipe posts shall be used between the corner braces. Maximum distance between any two posts shall be no greater than sixteen (16) feet.

The reserve pit fencing will be on three (3) sides during drilling operations and on the fourth side when the rig moves off location. Pits will be fenced and maintained until cleanup.

Existing fences to be crossed by the access road will be braced and tied off before cutting so as to prevent slacking in the wire. The opening shall be closed temporarily as necessary during construction to prevent the escape of livestock, and upon completion of construction the fence shall be repaired to BLM specifications.

10. **PLANS FOR RESTORATION OF SURFACE:**

- a) Producing Location

Immediately upon well completion, the location and surrounding area will be cleared of all unused tubing, equipment, debris, material, trash and junk not required for production.

The reserve pit and that portion of the location not needed for production facilities/operations will be recontoured to the approximated natural contours. Weather permitting, the reserve pit will be reclaimed within one hundred twenty (120) days from the date of well completion. Before any dirt work takes place, the reserve pit must have all fluids and hydrocarbons removed.

- b) Dry Hole Abandoned Location

At such time as the well is plugged and abandoned, the operator shall submit a subsequent report of abandonment and the State of Utah will attach the appropriate surface rehabilitation conditions of approval.

11. **SURFACE OWNERSHIP** – Bureau of Land Management.

12. **OTHER ADDITIONAL INFORMATION**

The Archaeological Resource Survey and Paleontological Resource Survey for this area are attached. MOAC Report # 13-167, 7/10/13, prepared by Montgomery Archaeological Consultants. Paleontological Resource Survey prepared by, SWCA Environmental Consultants, Report No. UT13-14273-23, July 2013. See attached report cover pages, Exhibit "D".

**Water Disposal**

After first production, if the production water meets quality guidelines, it will be transported to the Ashley, Monument Butte, Jonah, South Wells Draw and Beluga water injection facilities by company or contract trucks. Subsequently, the produced water is injected into approved Class II wells to enhance Newfield's secondary recovery project. Water not meeting quality criteria, will be disposed at Newfield's Pariette #4 disposal well (Sec. 7, T9S R19E), Federally approved surface disposal facilities or at a State of Utah approved surface disposal facilities.

**Additional Surface Stipulations**

All lease and/or unit operations will be conducted in such a manner that full compliance is made with all applicable laws and regulations, Onshore Oil and Gas Orders, the approved plan of operations and any applicable Notice to Lessees. A copy of these conditions will be furnished to the field representative to ensure compliance.

**Hazardous Material Declaration**

Newfield Production Company guarantees that during the drilling and completion of the GMBU 11-18-9-16, Newfield will not use, produce, store, transport or dispose 10,000# annually of any of the hazardous chemicals contained in the Environmental Protection Agency's consolidated list of chemicals subject to reporting under Title III Superfund Amendments and Reauthorization Act (SARA) of 1986. Newfield also guarantees that during the drilling and completion of the GMBU 11-18-9-16, Newfield will use, produce, store, transport or dispose less than the threshold planning quantity (T.P.Q.) of any extremely hazardous substances as defined in 40 CFR 355.

A complete copy of the approved APD, if applicable, shall be on location during the construction of the location and drilling activities.

Newfield Production Company or a contractor employed by Newfield Production shall contact the State office at (801) 722-3417, 48 hours prior to construction activities.

13. **LESSEE'S OR OPERATOR'S REPRESENTATIVE AND CERTIFICATION:**

Representative

Name: Corie Miller  
Address: Newfield Production Company  
Route 3, Box 3630  
Myton, UT 84052  
Telephone: (435) 646-3721

Certification

Please be advised that NEWFIELD PRODUCTION COMPANY is considered to be the operator of well #11-18-9-16, Section 18, Township 9S, Range 16E: Lease UTU-64379 Duchesne County, Utah: and is responsible under the terms and conditions of the lease for the operations conducted upon the leased lands. Bond coverage is provided by, Federal Bond #WYB000493.

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

8/20/13  
Date

\_\_\_\_\_  
Mandie Crozier  
Regulatory Analyst  
Newfield Production Company

### Typical 2M BOP stack configuration



2M CHOKE MANIFOLD EQUIPMENT - CONFIGURATION OF CHOKES MAY VARY

# NEWFIELD EXPLORATION COMPANY

1/16th Section Line

## WELL PAD INTERFERENCE PLAT

14-18-9-16 (Existing Well)

R-18-9-16 (Proposed Well)

11-18-9-16 (Proposed Well)

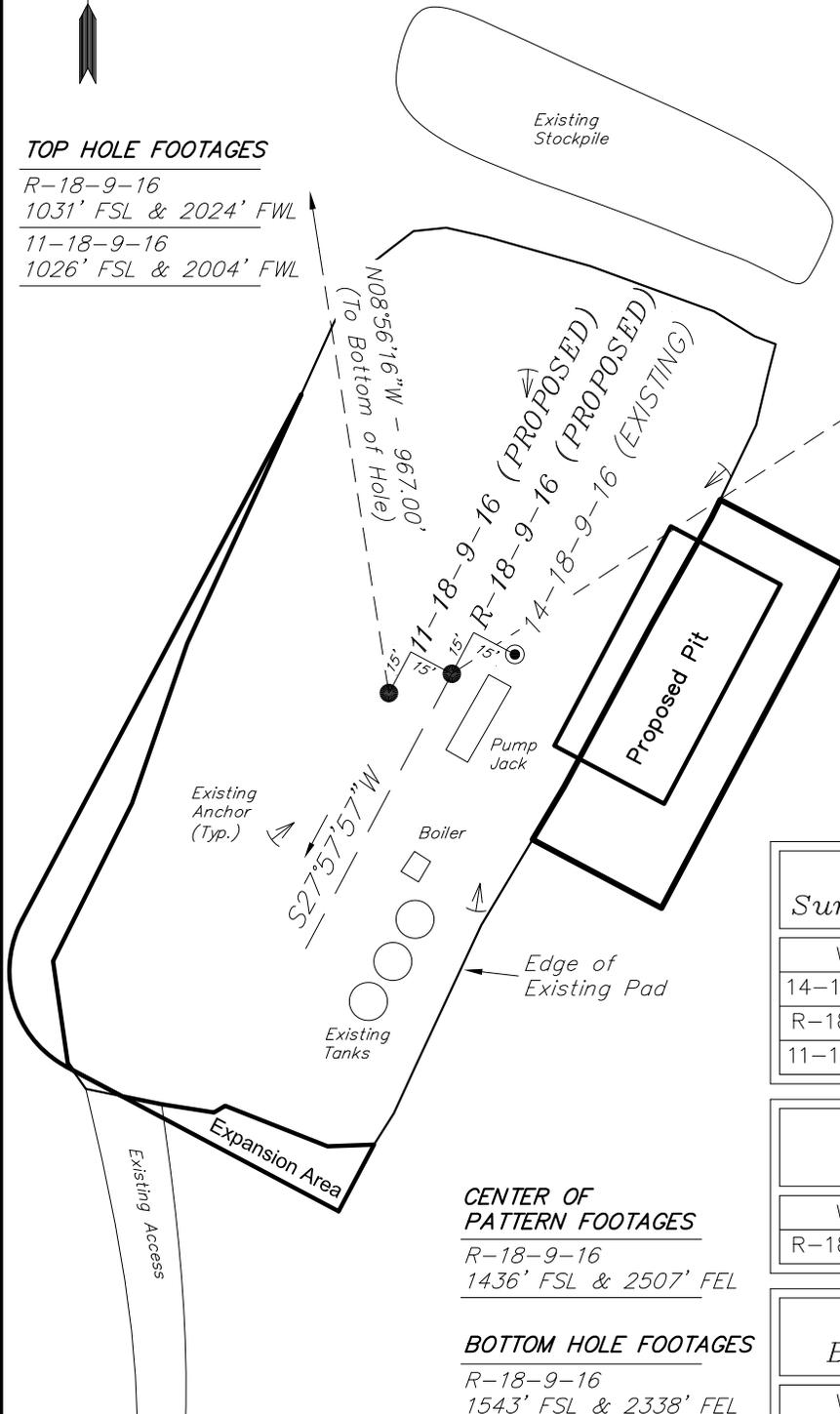
Pad Location: SESW Section 18, T9S, R16E, S.L.B.&M.

N

### TOP HOLE FOOTAGES

R-18-9-16  
1031' FSL & 2024' FWL

11-18-9-16  
1026' FSL & 2004' FWL



### RELATIVE COORDINATES From Top Hole to C.O.P.

WELL	NORTH	EAST
R-18-9-16	412'	633'

### RELATIVE COORDINATES From Top Hole to Bottom Hole

WELL	NORTH	EAST
R-18-9-16	520'	800'
11-18-9-16	955'	-150'

### LATITUDE & LONGITUDE Surface position of Wells (NAD 83)

WELL	LATITUDE	LONGITUDE
14-18-9-16	40° 01' 35.46"	110° 09' 49.61"
R-18-9-16	40° 01' 35.41"	110° 09' 49.87"
11-18-9-16	40° 01' 35.35"	110° 09' 50.14"

### LATITUDE & LONGITUDE Center of Pattern (NAD 83)

WELL	LATITUDE	LONGITUDE
R-18-9-16	40° 01' 39.38"	110° 09' 41.67"

### LATITUDE & LONGITUDE Bottom Hole Position (NAD 83)

WELL	LATITUDE	LONGITUDE
R-18-9-16	40° 01' 40.43"	110° 09' 39.50"
11-18-9-16	40° 01' 44.81"	110° 09' 51.88"

### CENTER OF PATTERN FOOTAGES

R-18-9-16  
1436' FSL & 2507' FEL

### BOTTOM HOLE FOOTAGES

R-18-9-16  
1543' FSL & 2338' FEL

11-18-9-16  
1982' FSL & 1865' FWL

**Note:**  
Bearings are based  
on GPS Observations.

SURVEYED BY: S.H.	DATE SURVEYED: 12-03-12	VERSION:
DRAWN BY: V.H.	DATE DRAWN: 12-20-12	V1
SCALE: 1" = 60'	REVISED:	

**Tri State** (435) 781-2501  
Land Surveying, Inc.  
180 NORTH VERNAL AVE. VERNAL, UTAH 84078

# NEWFIELD EXPLORATION COMPANY

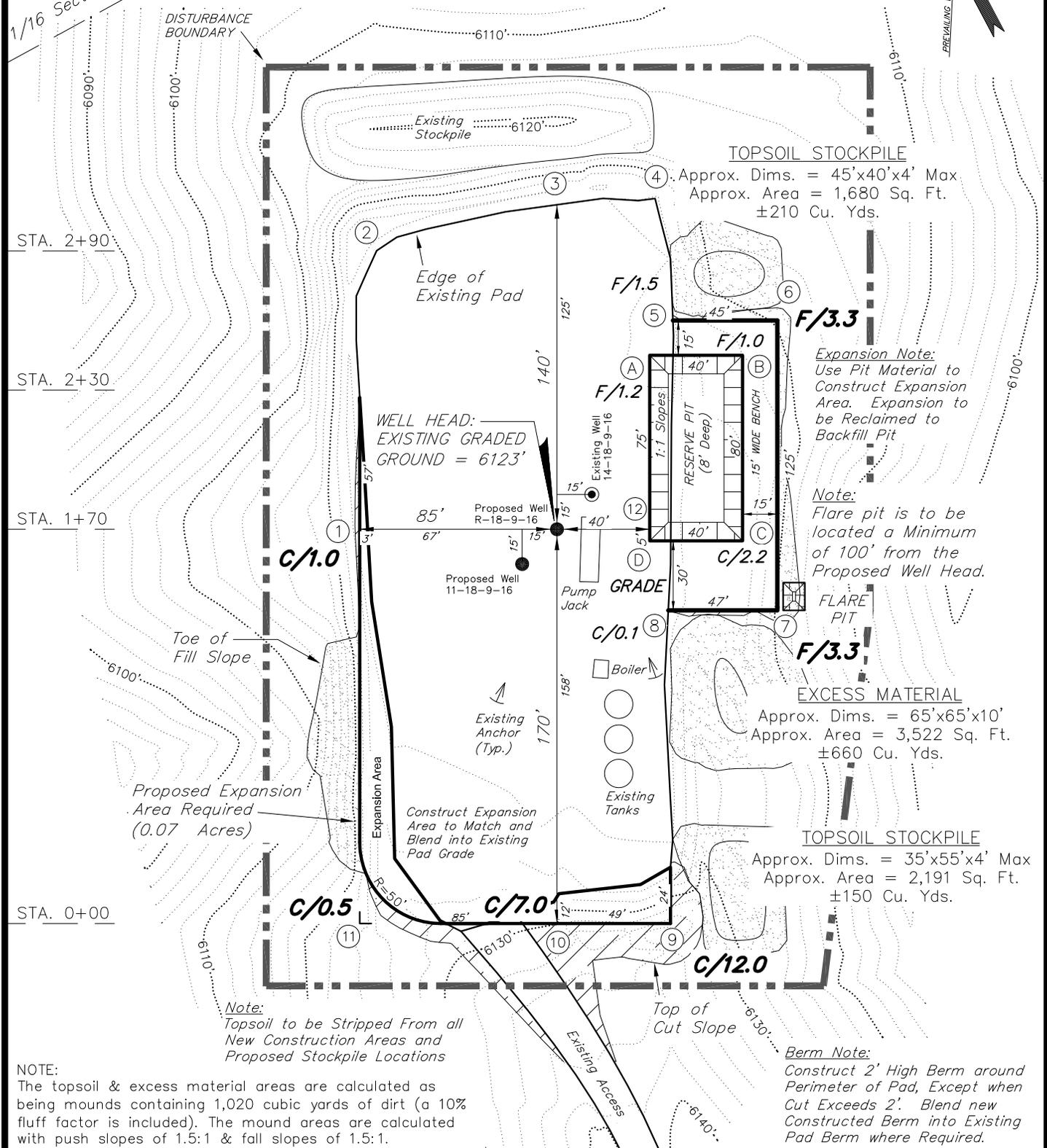
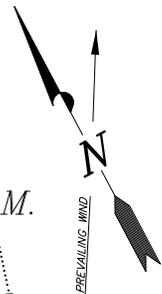
## LOCATION LAYOUT

14-18-9-16 (Existing Well)

R-18-9-16 (Proposed Well)

11-18-9-16 (Proposed Well)

Pad Location: SESW Section 18, T9S, R16E, S.L.B.&M.



NOTE:  
 The topsoil & excess material areas are calculated as being mounds containing 1,020 cubic yards of dirt (a 10% fluff factor is included). The mound areas are calculated with push slopes of 1.5:1 & fall slopes of 1.5:1.

SURVEYED BY: S.H.	DATE SURVEYED: 12-03-12	VERSION:
DRAWN BY: F.T.M.	DATE DRAWN: 12-20-12	V1
SCALE: 1" = 60'	REVISED:	

**Tri State** (435) 781-2501  
 Land Surveying, Inc.  
 180 NORTH VERNAL AVE. VERNAL, UTAH 84078

# NEWFIELD EXPLORATION COMPANY

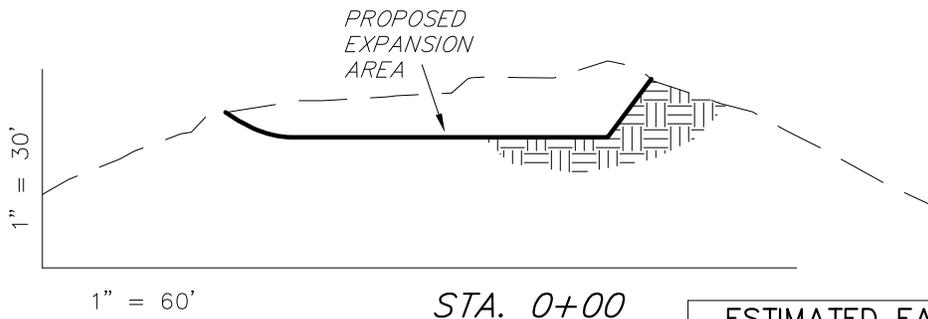
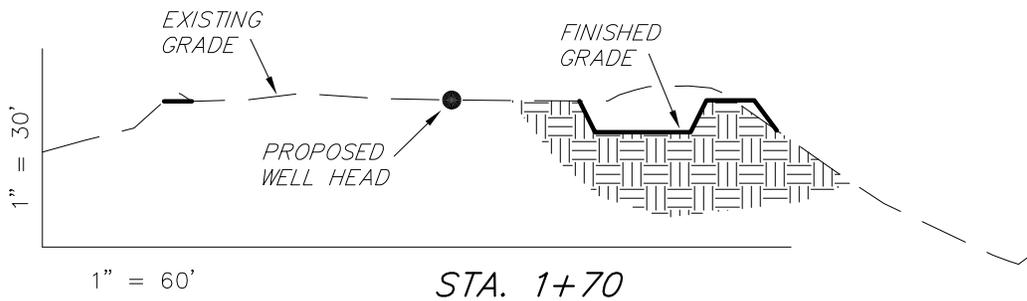
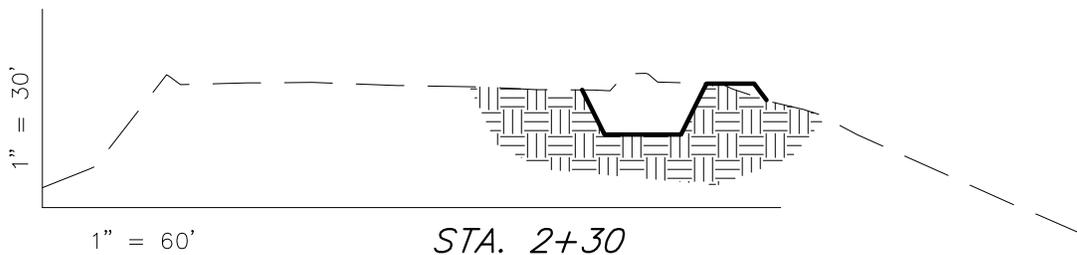
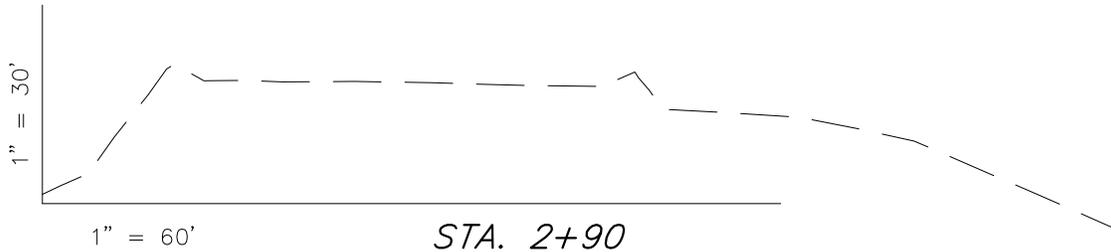
## CROSS SECTIONS

**14-18-9-16 (Existing Well)**

**R-18-9-16 (Proposed Well)**

**11-18-9-16 (Proposed Well)**

*Pad Location: SESW Section 18, T9S, R16E, S.L.B.&M.*



NOTE:  
UNLESS OTHERWISE  
NOTED ALL CUT/FILL  
SLOPES ARE AT 1.5:1

*Expansion Note:  
Use Pit Material to  
Construct Expansion  
Area. Expansion to  
be Reclaimed to  
Backfill Pit*

**ESTIMATED EARTHWORK QUANTITIES**  
(No Shrink or swell adjustments have been used)  
(Expressed in Cubic Yards)

ITEM	CUT	FILL	6" TOPSOIL	EXCESS
PAD	50	140	Topsoil is not included in Pad Cut	-90
PIT	690	0		690
<b>TOTALS</b>	<b>740</b>	<b>140</b>	<b>330</b>	<b>600</b>

SURVEYED BY: S.H.	DATE SURVEYED: 12-03-12	VERSION:
DRAWN BY: F.T.M.	DATE DRAWN: 12-20-12	V1
SCALE: 1" = 60'	REVISED:	

*Tri State* (435) 781-2501  
**Land Surveying, Inc.**  
180 NORTH VERNAL AVE. VERNAL, UTAH 84078



# NEWFIELD EXPLORATION COMPANY

## RECLAMATION LAYOUT

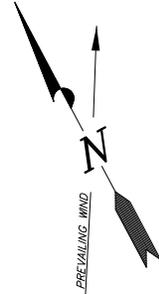
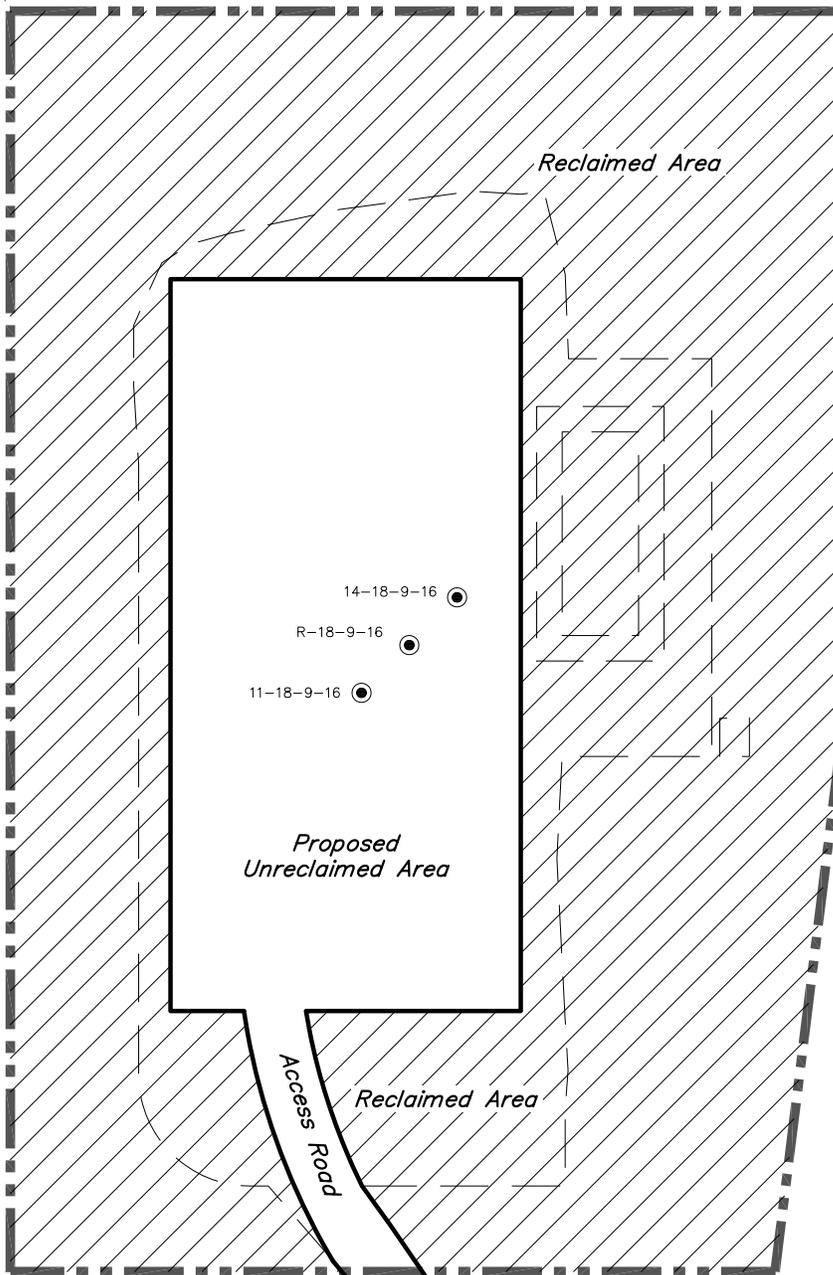
14-18-9-16 (Existing Well)

R-18-9-16 (Proposed Well)

11-18-9-16 (Proposed Well)

Pad Location: SESW Section 18, T9S, R16E, S.L.B.&M.

DISTURBANCE  
BOUNDARY



Notes:

1. Reclaimed Area to Include Seeding of Approved Vegetation and Sufficient Storm Water Management System.
2. Actual Equipment Layout and Reclaimed Pad Surface Area May Change due to Production Requirements or Site Conditions.

DISTURBED AREA:

TOTAL DISTURBED AREA = 2.33 ACRES  
 TOTAL RECLAIMED AREA = 1.71 ACRES  
 UNRECLAIMED AREA = 0.62 ACRES

SURVEYED BY: S.H.	DATE SURVEYED: 12-03-12	VERSION:
DRAWN BY: F.T.M.	DATE DRAWN: 12-20-12	V1
SCALE: 1" = 60'	REVISED:	

**Tri State** (435) 781-2501  
 Land Surveying, Inc.  
 180 NORTH VERNAL AVE. VERNAL, UTAH 84078

# NEWFIELD EXPLORATION COMPANY

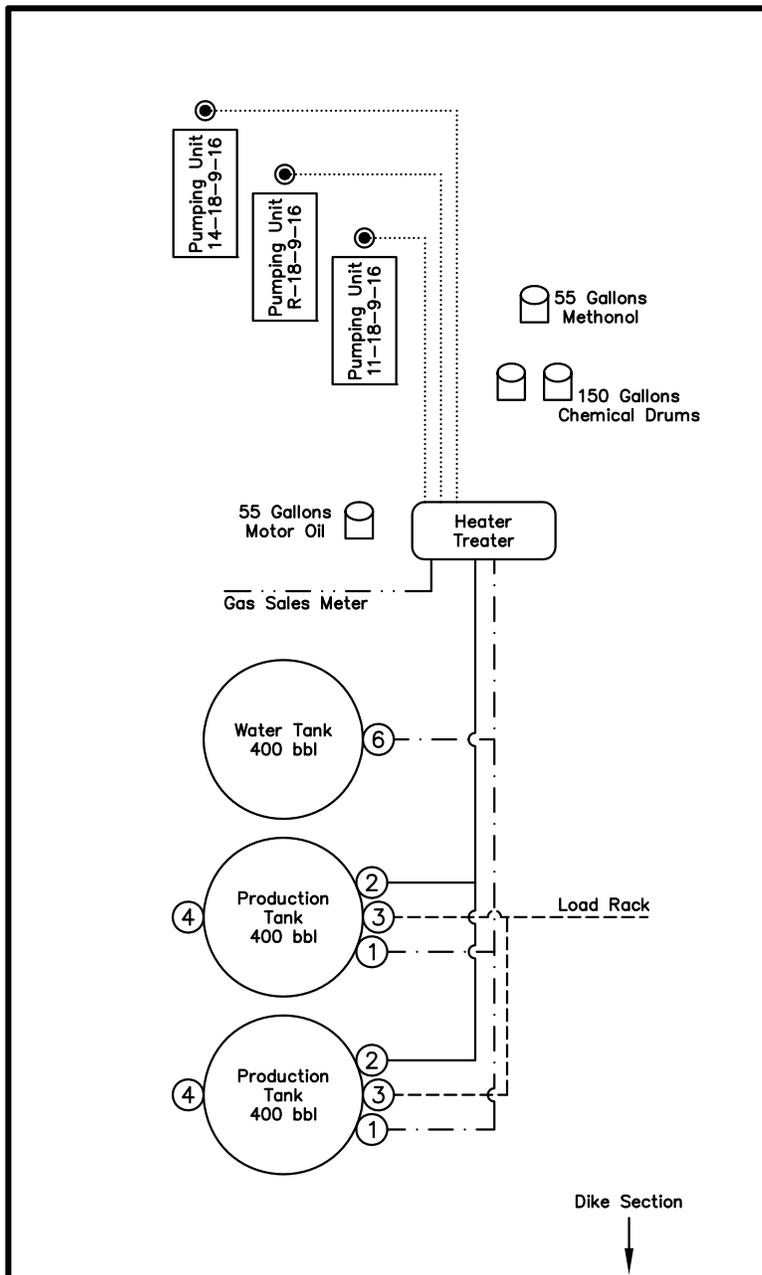
## PROPOSED SITE FACILITY DIAGRAM

14-18-9-16 (Existing Well) UTU-64379

R-18-9-16 (Proposed Well) UTU-64379

11-18-9-16 (Proposed Well) UTU-64379

Pad Location: SESW Section 18, T9S, R16E, S.L.B.&M.  
Duchesne County, Utah



### Legend

Emulsion Line	.....
Load Rack	-----
Water Line	.....
Gas Sales	.....
Oil Line	-----

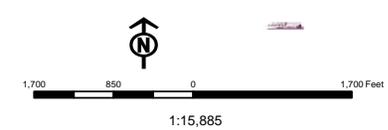
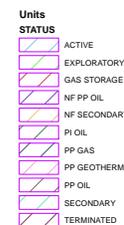
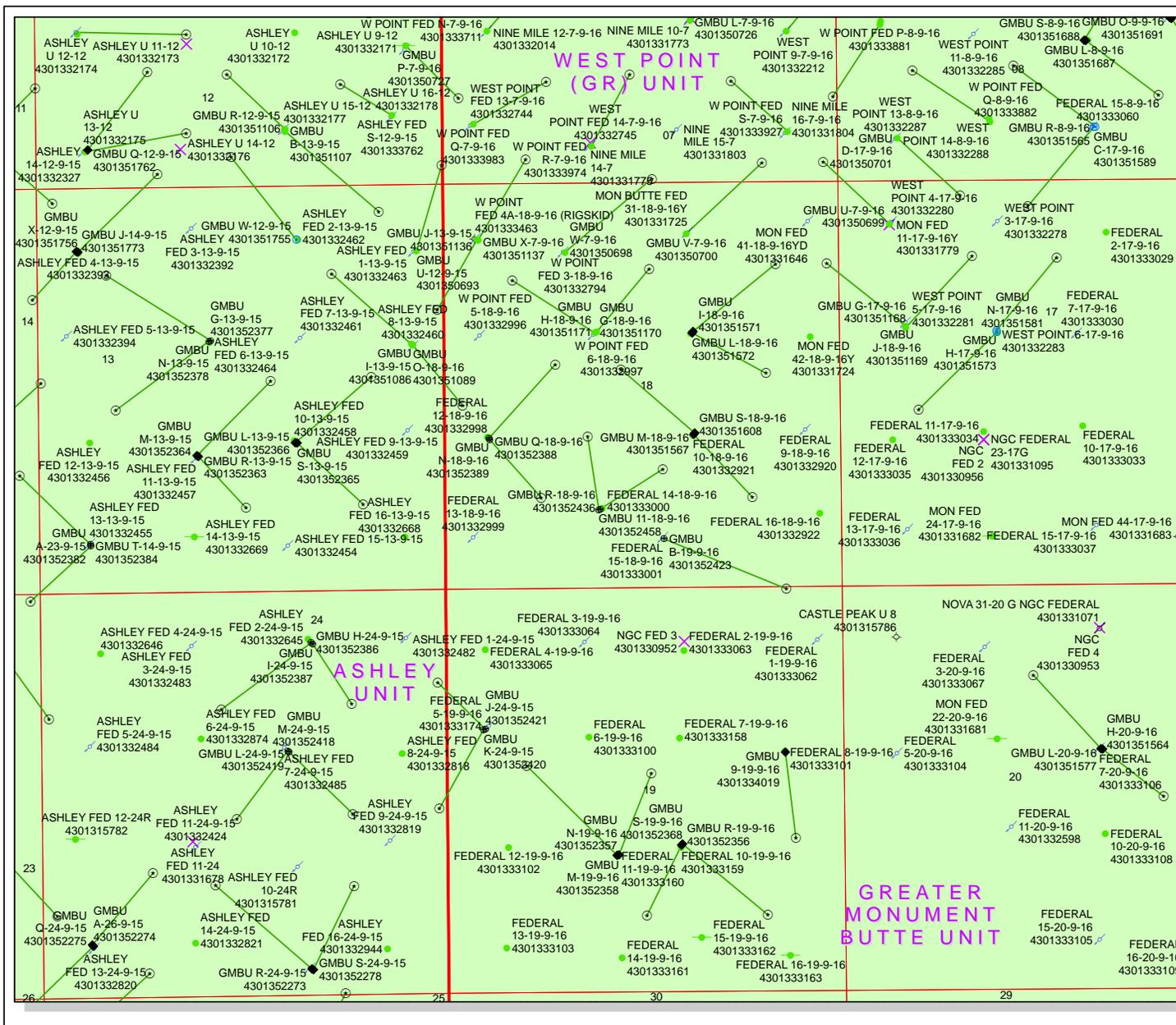
NOT TO SCALE

SURVEYED BY: S.H.	DATE SURVEYED: 12-03-12	VERSION:
DRAWN BY: F.T.M.	DATE DRAWN: 12-20-12	V1
SCALE: NONE	REVISED:	

*Tri State* (435) 781-2501  
Land Surveying, Inc.  
180 NORTH VERNAL AVE. VERNAL, UTAH 84078

API Number: 4301352458  
Well Name: GMBU 11-18-9-16  
Township T09.0S Range R16.0E Section 18  
Meridian: SLBM  
Operator: NEWFIELD PRODUCTION COMPANY

Map Prepared:  
Map Produced by Diana Mason



# United States Department of the Interior

## BUREAU OF LAND MANAGEMENT

Utah State Office  
440 West 200 South, Suite 500  
Salt Lake City, UT 84101

IN REPLY REFER TO:  
3160  
(UT-922)

September 3, 2013

Memorandum

To: Assistant Field Office Manager Minerals,  
Vernal Field Office

From: Michael Coulthard, Petroleum Engineer

Subject: 2013 Plan of Development Greater Monument  
Butte Unit, Duchesne and Uintah Counties,  
Utah.

Pursuant to email between Diana Mason, Division of Oil, Gas and Mining, and Mickey Coulthard, Utah State Office, Bureau of Land Management, the following wells are planned for calendar year 2013 within the Greater Monument Butte Unit, Duchesne and Uintah Counties, Utah.

API #	WELL NAME	LOCATION
(Proposed PZ GREEN RIVER)		
43-013-52377	GMBU G-13-9-15	Sec 13 T09S R15E 1999 FNL 2250 FWL BHL Sec 13 T09S R15E 1137 FNL 0901 FWL
43-013-52388	GMBU Q-18-9-16	Sec 18 T09S R16E 1945 FSL 0590 FWL BHL Sec 18 T09S R16E 1188 FSL 1254 FWL
43-013-52389	GMBU N-18-9-16	Sec 18 T09S R16E 1964 FSL 0581 FWL BHL Sec 18 T09S R16E 2360 FNL 1449 FWL
43-013-52403	GMBU U-21-8-17	Sec 27 T08S R17E 0676 FNL 1301 FWL BHL Sec 21 T08S R17E 0312 FSL 0244 FEL
43-013-52404	GMBU A-33-8-17	Sec 34 T08S R17E 0685 FNL 0902 FWL BHL Sec 33 T08S R17E 0115 FNL 0137 FEL
43-013-52406	GMBU X-27-8-17	Sec 34 T08S R17E 0672 FNL 0918 FWL BHL Sec 27 T08S R17E 0477 FSL 1404 FWL
43-013-52407	GMBU E-13-9-15	Sec 11 T09S R15E 0636 FSL 0708 FEL BHL Sec 13 T09S R15E 0186 FNL 0208 FWL
43-013-52408	GMBU U-15-9-15	Sec 23 T09S R15E 0537 FNL 0687 FWL BHL Sec 15 T09S R15E 0172 FSL 0146 FEL
43-013-52409	GMBU G-23-9-15	Sec 23 T09S R15E 0558 FNL 0685 FWL BHL Sec 23 T09S R15E 1415 FNL 1497 FWL
43-013-52410	GMBU X-14-9-15	Sec 23 T09S R15E 0666 FNL 2006 FWL BHL Sec 14 T09S R15E 0160 FSL 1164 FWL

RECEIVED: September 03, 2013

API #	WELL NAME	LOCATION						
(Proposed PZ GREEN RIVER)								
43-013-52411	GMBU G-22-9-15	Sec 22	T09S	R15E	1909	FNL	1135	FWL
		BHL Sec 22	T09S	R15E	1179	FNL	0772	FWL
43-013-52412	GMBU H-23-9-15	Sec 23	T09S	R15E	0667	FNL	2027	FWL
		BHL Sec 23	T09S	R15E	1413	FNL	2537	FEL
43-013-52413	GMBU H-22-9-15	Sec 22	T09S	R15E	1926	FNL	1148	FWL
		BHL Sec 22	T09S	R15E	1167	FNL	2319	FEL
43-013-52414	GMBU I-22-9-15	Sec 22	T09S	R15E	1982	FNL	1880	FEL
		BHL Sec 22	T09S	R15E	1060	FNL	1071	FEL
43-013-52415	GMBU G-3-9-17	Sec 03	T09S	R17E	1902	FNL	1994	FWL
		BHL Sec 03	T09S	R17E	1103	FNL	1262	FWL
43-013-52416	GMBU K-6-9-16	Sec 05	T09S	R16E	2135	FNL	0675	FWL
		BHL Sec 06	T09S	R16E	2336	FSL	0120	FEL
43-013-52417	GMBU J-6-9-16	Sec 05	T09S	R16E	2115	FNL	0669	FWL
		BHL Sec 06	T09S	R16E	1294	FNL	0058	FEL
43-013-52418	GMBU M-24-9-15	Sec 24	T09S	R15E	2079	FNL	2071	FEL
		BHL Sec 24	T09S	R15E	2317	FSL	2533	FWL
43-013-52419	GMBU L-24-9-15	Sec 24	T09S	R15E	2096	FNL	2058	FEL
		BHL Sec 24	T09S	R15E	2361	FSL	1235	FEL
43-013-52420	GMBU K-24-9-15	Sec 19	T09S	R16E	1834	FNL	0481	FWL
		BHL Sec 24	T09S	R15E	2410	FSL	0107	FEL
43-013-52421	GMBU J-24-9-15	Sec 19	T09S	R16E	1831	FNL	0502	FWL
		BHL Sec 24	T09S	R15E	1219	FNL	0112	FEL
43-013-52422	GMBU M-22-9-15	Sec 22	T09S	R15E	2002	FNL	1873	FEL
		BHL Sec 22	T09S	R15E	2516	FSL	1903	FWL
43-013-52423	GMBU B-19-9-16	Sec 18	T09S	R16E	0637	FSL	2334	FEL
		BHL Sec 19	T09S	R16E	0027	FNL	0752	FEL
43-013-52424	GMBU 118-32-8-17	Sec 32	T08S	R17E	2310	FSL	2158	FEL
		BHL Sec 32	T08S	R17E	2332	FNL	1981	FEL
43-013-52425	GMBU 126-32-8-17	Sec 32	T08S	R17E	0861	FSL	1953	FEL
		BHL Sec 32	T08S	R17E	1518	FSL	1952	FEL
43-013-52436	GMBU R-18-9-16	Sec 18	T09S	R16E	1031	FSL	2024	FWL
		BHL Sec 18	T09S	R16E	1543	FSL	2338	FEL
43-013-52437	GMBU I-26-9-15	Sec 23	T09S	R15E	0713	FSL	1818	FEL
		BHL Sec 26	T09S	R15E	1284	FNL	1375	FEL
43-013-52438	GMBU 112-1-9-16	Sec 01	T09S	R16E	1945	FNL	0682	FWL
		BHL Sec 01	T09S	R16E	1299	FNL	0716	FWL
43-013-52439	GMBU 111-1-9-16	Sec 01	T09S	R16E	2071	FNL	2004	FWL
		BHL Sec 01	T09S	R16E	1255	FNL	1803	FWL
43-013-52440	GMBU 118-10-9-16	Sec 10	T09S	R16E	1983	FSL	1941	FEL
		BHL Sec 10	T09S	R16E	2241	FNL	2129	FEL
43-013-52441	GMBU 125-6-9-17	Sec 06	T09S	R17E	2065	FSL	0784	FEL
		BHL Sec 06	T09S	R17E	1110	FSL	0492	FEL

API #	WELL NAME			LOCATION						
(Proposed PZ GREEN RIVER)										
43-013-52442	GMBU 117-6-9-17	Sec	06	T09S	R17E	1826	FNL	0938	FEL	
		BHL	Sec	06	T09S	R17E	2485	FSL	0619	FEL
43-013-52443	GMBU 115-6-9-17	Sec	06	T09S	R17E	1841	FNL	0954	FEL	
		BHL	Sec	06	T09S	R17E	2032	FNL	1536	FEL
43-013-52444	GMBU 109-6-9-17	Sec	06	T09S	R17E	0798	FNL	0652	FEL	
		BHL	Sec	06	T09S	R17E	1456	FNL	0638	FEL
43-013-52445	GMBU 110-34-8-16	Sec	34	T08S	R16E	0691	FNL	1952	FEL	
		BHL	Sec	34	T08S	R16E	1396	FNL	2028	FEL
43-013-52446	GMBU 102-35-8-16	Sec	26	T08S	R16E	0640	FSL	1971	FEL	
		BHL	Sec	35	T08S	R16E	0521	FNL	1700	FEL
43-013-52447	GMBU 116-6-9-17	Sec	05	T09S	R17E	1861	FNL	0559	FWL	
		BHL	Sec	06	T09S	R17E	2016	FNL	0410	FEL
43-013-52448	GMBU 119-31-8-17	Sec	31	T08S	R17E	2051	FSL	2017	FWL	
		BHL	Sec	31	T08S	R17E	2352	FNL	1902	FWL
43-013-52449	GMBU 103-1-9-16	Sec	36	T08S	R16E	0721	FSL	2308	FWL	
		BHL	Sec	01	T09S	R16E	0274	FNL	2041	FWL
43-013-52451	GMBU 118-6-9-17	Sec	06	T09S	R17E	2143	FNL	1952	FEL	
		BHL	Sec	06	T09S	R17E	2290	FSL	1960	FEL
43-013-52457	GMBU 2-26-9-15	Sec	23	T09S	R15E	0692	FSL	1820	FEL	
		BHL	Sec	26	T09S	R15E	0647	FNL	1950	FEL
43-013-52458	GMBU 11-18-9-16	Sec	18	T09S	R16E	1026	FSL	2004	FWL	
		BHL	Sec	18	T09S	R16E	1982	FSL	1865	FWL

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

Michael Coulthard

Digitally signed by Michael Coulthard  
 DN: cn=Michael Coulthard, o=Bureau of Land  
 Management, ou=Division of Minerals,  
 email=mcoultha@blm.gov, c=US  
 Date: 2013.09.03 08:22:36 -06'00'

bcc: File - Greater Monument Butte Unit  
 Division of Oil Gas and Mining  
 Central Files  
 Agr. Sec. Chron  
 Fluid Chron

MCoulthard:mc:9-3-13

RECEIVED: September 03, 2013

## WORKSHEET APPLICATION FOR PERMIT TO DRILL

APD RECEIVED: 8/29/2013

API NO. ASSIGNED: 43013524580000

WELL NAME: GMBU 11-18-9-16

OPERATOR: NEWFIELD PRODUCTION COMPANY (N2695)

PHONE NUMBER: 435 646-4825

CONTACT: Mandie Crozier

PROPOSED LOCATION: SESW 18 090S 160E

Permit Tech Review: 

SURFACE: 1026 FSL 2004 FWL

Engineering Review: 

BOTTOM: 1982 FSL 1865 FWL

Geology Review: 

COUNTY: DUCHESNE

LATITUDE: 40.02652

LONGITUDE: -110.16395

UTM SURF EASTINGS: 571337.00

NORTHINGS: 4431035.00

FIELD NAME: MONUMENT BUTTE

LEASE TYPE: 1 - Federal

LEASE NUMBER: UTU-64379

PROPOSED PRODUCING FORMATION(S): GREEN RIVER

SURFACE OWNER: 1 - Federal

COALBED METHANE: NO

## RECEIVED AND/OR REVIEWED:

- PLAT
- Bond: FEDERAL - WYB000493
- Potash
- Oil Shale 190-5
- Oil Shale 190-3
- Oil Shale 190-13
- Water Permit: 437478
- RDCC Review:
- Fee Surface Agreement
- Intent to Commingle

Commingle Approved

## LOCATION AND SITING:

- R649-2-3.
- Unit: GMBU (GRRV)
- R649-3-2. General
- R649-3-3. Exception
- Drilling Unit
- Board Cause No: Cause 213-11
- Effective Date: 11/30/2009
- Siting: Suspends General Siting
- R649-3-11. Directional Drill

Comments: Presite Completed

Stipulations: 4 - Federal Approval - dmason  
15 - Directional - dmason  
27 - Other - bhll



GARY R. HERBERT  
Governor

GREGORY S. BELL  
Lieutenant Governor

# State of Utah

DEPARTMENT OF NATURAL RESOURCES

MICHAEL R. STYLER  
Executive Director

Division of Oil, Gas and Mining

JOHN R. BAZA  
Division Director

## Permit To Drill

\*\*\*\*\*

**Well Name:** GMBU 11-18-9-16

**API Well Number:** 43013524580000

**Lease Number:** UTU-64379

**Surface Owner:** FEDERAL

**Approval Date:** 9/17/2013

### Issued to:

NEWFIELD PRODUCTION COMPANY , Rt 3 Box 3630 , Myton, UT 84052

### 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 Cause 213-11. The expected producing formation or pool is the GREEN RIVER 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

### 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:

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

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.

Production casing cement shall be brought up to or above the top of the unitized interval for the Greater Monument Butte Unit (Cause No. 213-11).

### 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 at 801-538-5284

(please leave a voicemail message if not available)

OR

submit an electronic sundry notice (pre-registration required) via the Utah Oil & Gas website  
at <http://oilgas.ogm.utah.gov>

**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 "John Rogers", written over a horizontal line.

For John Rogers  
Associate Director, Oil & Gas

**RECEIVED**

FORM APPROVED  
OMB No. 1004-0136  
Expires July 31, 2010

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

SEP 04 2013

APPLICATION FOR PERMIT TO DRILL OR REENTER **BLM**

5. Lease Serial No. UTU64379	
6. If Indian, Allottee or Tribe Name	
7. If Unit or CA Agreement, Name and No. UTU87538X	
8. Lease Name and Well No. GMBU 11-18-9-16	
9. API Well No. <b>43-013-52458</b>	
10. Field and Pool, or Exploratory MONUMENT BUTTE	
11. Sec., T., R., M., or Blk. and Survey or Area Sec 18 T9S R16E Mer SLB SME: BLM	
12. County or Parish DUCHESNE	13. State UT
14. Distance in miles and direction from nearest town or post office* 15.2 MILES SW OF MYTON, UT	
15. Distance from proposed location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any) 658'	16. No. of Acres in Lease
17. Spacing Unit dedicated to this well 40.00	
18. Distance from proposed location to nearest well, drilling, completed, applied for, on this lease, ft. 1307'	19. Proposed Depth 6528 MD 6445 TVD
20. BLM/BIA Bond No. on file WYB000493	
21. Elevations (Show whether DF, KB, RT, GL, etc.) 6123 GL	22. Approximate date work will start 01/31/2014
23. Estimated duration 7 DAYS	

1a. Type of Work: <input checked="" type="checkbox"/> DRILL <input type="checkbox"/> REENTER	
1b. Type of Well: <input checked="" type="checkbox"/> Oil Well <input type="checkbox"/> Gas Well <input type="checkbox"/> Other <input checked="" type="checkbox"/> Single Zone <input type="checkbox"/> Multiple Zone	
2. Name of Operator NEWFIELD EXPLORATION COMPANY Contact: MANDIE CROZIER Email: mcrozier@newfield.com	
3a. Address ROUTE 3 BOX 3630 MYTON, UT 84052	3b. Phone No. (include area code) Ph: 435.646.3721 Ext: 4825 Fx: 435.646.3031
4. Location of Well (Report location clearly and in accordance with any State requirements. *) At surface SESW 1026FSL 2004FWL At proposed prod. zone NESW 1982FSL 1865FWL	

24. Attachments

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

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

25. Signature (Electronic Submission)	Name (Printed/Typed) MANDIE CROZIER Ph: 435.646.3721 Ext: 4825	Date 08/29/2013
Title REGULATORY TECH.		
Approved by (Signature)	Name (Printed/Typed) <b>Jerry Kenczka</b>	Date <b>JAN 06 2014</b>
Title <b>Assistant Field Manager</b> Lands & Mineral Resources	Office VERNAL FIELD OFFICE	

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

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

Additional Operator Remarks (see next page)

Electronic Submission #218596 verified by the BLM Well Information System  
For NEWFIELD EXPLORATION COMPANY, sent to the Vernal  
Committed to AFMSS for processing by LESLIE BUHLER on 09/06/2013 (13LBB1646AE)

**RECEIVED**

JAN 09 2014

NOTICE OF APPROVAL

**UDOGM**

\*\* BLM REVISED \*\*

**Additional Operator Remarks:**

SURFACE LEASE: UTU-64379  
BOTTOM HOLE LEASE: UTU-64379

**Revisions to Operator-Submitted EC Data for APD #218596**

**Operator Submitted**

Lease: UTU64379  
Agreement: GREATER MONUMENT  
Operator: NEWFIELD EXPLORATION  
ROUTE #3 BOX 3630  
MYTON, UT 84052  
Ph: 435-646-3721

**BLM Revised (AFMSS)**

UTU64379  
UTU87538X (UTU87538X)  
NEWFIELD EXPLORATION COMPANY  
ROUTE 3 BOX 3630  
MYTON, UT 84052  
Ph: 435.646.3721  
Fx: 435.646.3031

Admin Contact: MANDIE CROZIER  
REGULATORY ANALYST  
ROUTE #3 BOX 3630  
MYTON, UT 84052  
Ph: 435-646-4825  
Fx: 435-646-3031  
Cell: 435-401-8335  
E-Mail: mcrozier@newfield.com

MANDIE CROZIER  
REGULATORY TECH.  
ROUTE 3 BOX 3630  
MYTON, UT 84052  
Ph: 435.646.3721 Ext: 4825  
Fx: 435.646.3031

E-Mail: mcrozier@newfield.com

Tech Contact: MANDIE CROZIER  
REGULATORY ANALYST  
ROUTE #3 BOX 3630  
MYTON, UT 84052

MANDIE CROZIER  
REGULATORY TECH.  
ROUTE 3 BOX 3630  
MYTON, UT 84052

Well Name: GMBU  
Number: 11-18-9-16

GMBU  
11-18-9-16

Location: UT  
State: DUCHESNE  
County: Sec 18 T9S R16E Mer SLB  
S/T/R: SESW 1026FSL 2004FWL  
Surf Loc:

UT  
DUCHESNE  
Sec 18 T9S R16E Mer SLB  
SESW 1026FSL 2004FWL

Field/Pool: MONUMENT BUTTE

MONUMENT BUTTE

Bond: WYB000493

WYB000493



UNITED STATES DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT  
VERNAL FIELD OFFICE

170 South 500 East

VERNAL, UT 84078

(435) 781-4400



**CONDITIONS OF APPROVAL FOR APPLICATION FOR PERMIT TO DRILL**

Company: Newfield Production Company  
Well No: GMBU 11-18-9-16  
API No: 43-013-52458

Location: SESW SEC 18 T9S R16E  
Lease No: UTU64379  
Agreement: UTU87538X

**OFFICE NUMBER: (435) 781-4400**

**OFFICE FAX NUMBER: (435) 781-3420**

**A COPY OF THESE CONDITIONS SHALL BE FURNISHED TO YOUR  
FIELD REPRESENTATIVE TO INSURE COMPLIANCE**

All lease and/or unit operations are to be conducted in such a manner that full compliance is made with the applicable laws, regulations (43 CFR Part 3160), and this approved Application for Permit to Drill including Surface and Downhole Conditions of Approval. The operator is considered fully responsible for the actions of his subcontractors. A copy of the approved APD must be on location during construction, drilling, and completion operations. **This permit is approved for a two (2) year period, or until lease expiration, whichever occurs first. An additional extension, up to two (2) years, may be applied for by sundry notice prior to expiration.**

**NOTIFICATION REQUIREMENTS**

Location Construction (Notify Environmental Scientist)	- Forty-Eight (48) hours prior to construction of location and access roads.
Location Completion (Notify Environmental Scientist)	- Prior to moving on the drilling rig.
Spud Notice (Notify Petroleum Engineer)	- Twenty-Four (24) hours prior to spudding the well.
Casing String & Cementing (Notify Supv. Petroleum Tech.)	- Twenty-Four (24) hours prior to running casing and cementing all casing strings to: <a href="mailto:blm_ut_vn_opreport@blm.gov">blm ut vn opreport@blm.gov</a>
BOP & Related Equipment Tests (Notify Supv. Petroleum Tech.)	- Twenty-Four (24) hours prior to initiating pressure tests.
First Production Notice (Notify Petroleum Engineer)	- Within Five (5) business days after new well begins or production resumes after well has been off production for more than ninety (90) days.

**SURFACE USE PROGRAM  
CONDITIONS OF APPROVAL (COAs)**

**STANDARD STIPULATIONS**

**Minerals and Paleontology**

- If there is an active Gilsonite mining operation within 2 miles of the well location, operator shall notify the Gilsonite operator at least 48 hours prior to any blasting during construction.
- If paleontological materials are uncovered during construction, the operator is to immediately stop work and contact the Authorized Officer (AO). A determination will be made by the AO as to what mitigation may be necessary for the discovered paleontologic material before construction can continue.

**Green River District Reclamation Guidelines**

The Operator will comply with the requirements of the **Green River District (GRD) Reclamation Guidelines** formalized by Green River District Instructional Memo UTG000-2011-003 on March 28, 2011. Documentation of the compliance will be as follows:

- The operator shall submit a Sundry Notice (Form 3160-5) to the BLM Authorized Officer (AO) that designates the proposed site-specific monitoring and reference sites chosen for the location. A description of the proposed sites shall be included, as well as a map showing the locations of the proposed sites.
- The operator shall submit a Sundry Notice (Form 3160-5) to the BLM Authorized Officer (AO) 3 growing seasons after reclamation efforts have occurred evaluating the status of the reclaimed areas in order to determine whether the BLM standards set forth in the GRD Reclamation Guidelines have been met (30% or greater basal cover).
- Prior to beginning new surface disturbance, the operator shall submit a Sundry Notice (Form 3160-5) to the BLM Authorized Officer (AO) providing the results of the noxious weed inventory described in the GRD Reclamation Guidelines (2011). If weeds are found the report shall include 1) A GPS location recorded in North American Datum 1983; 2) species; 3) canopy cover or number of plants; 4) and size of infestation (estimate square feet or acres. Information shall be also documented in the reclamation report.

**CONDITIONS OF APPROVAL**

**Wildlife**

**In accordance with the Record of Decision for the Castle Peak and Eightmile Flat Oil and Gas Expansion Project, Newfield Rocky Mountains Inc., the following COA's are required:**

- WFM-1 On level or gently sloping ground (5 percent slope or less) Newfield will elevate surface pipelines (4 inches or greater in diameter) a minimum of 6 inches above the ground to allow passage of small animals beneath the pipe. This ground clearance will be achieved by placing the pipeline on blocks at intervals of 150 to 200 feet.

- WFM-4 Newfield will install noise reduction devices on all pump jacks to reduce intermittent noise to 45 dBA at 660 feet from the source.

#### **COA's derived from mitigating measures in the EA:**

**If construction and drilling is anticipated during any of the following wildlife seasonal spatial restrictions, a BLM biologist or a qualified consulting firm biologist must conduct applicable surveys using an accepted protocol prior to any ground disturbing activities.**

- If it is anticipated that construction or drilling will occur during Mountain plover nesting season (May 1 – June 15), a BLM biologist will be notified to determine if surveys are necessary prior to beginning operations. If surveys are deemed necessary, depending on the results permission to proceed may or may not, be granted by the BLM Authorized Officer.
- The proposed project is within ½ mile of a golden eagle nest(s). If construction or drilling is proposed from January 1-August 31 then a nest survey will be conducted by a qualified biologist. If the nest is found to be inactive, then permission to proceed may be granted by the BLM Authorized Officer. If the nest is determined to be active, then the timing restriction will remain in effect.

#### **For protection of T&E Fish if drawing water from the Green River**

- For areas of fresh water collection, an infiltration gallery will be constructed in a Service approved location. An infiltration gallery is basically a pit or trench dug within the floodplain to a depth below the water table. Water is drawn from the pit rather than from the river directly. If this is not possible, limit pumping within the river to off-channel locations that do not connect to the river during high spring flows.
- If water cannot be drawn using the measures above and the pump head will be located in the river channel where larval fish are known to occur, the following measures apply:
  - Avoid pumping from low-flow or no-flow areas as these habitats tend to concentrate larval fish
  - Avoid pumping to the greatest extent possible, during that period of the year when larval fish may be present (see previous bullet); and
  - Avoid pumping, to the greatest extent possible, during the midnight hours (10:00 p.m. to 2:00 a.m.) as larval drift studies indicate that this is a period of greatest daily activity. Dusk is the preferred pumping time, as larval drift abundance is lowest during this time.
  - Screen all pump intakes with 3/32-inch mesh material.
- Report any fish impinged on the intake screen to the FWS office (801.975.3330) and the:  
Utah Division of Wildlife Resources  
Northeastern Region  
152 East 100 North  
Vernal, UT 84078  
(435) 781-9453

#### **Air Quality**

1. All internal combustion equipment will be kept in good working order.
2. Water or other approved dust suppressants will be used at construction sites and along roads, as determined appropriate by the Authorized Officer. Dust suppressant such as magnesium chloride or fresh water may be used, as needed, during the drilling phase.

3. Open burning of garbage or refuse will not occur at well sites or other facilities.
4. Drill rigs will be equipped with Tier II or better diesel engines.
5. Low bleed pneumatics will be installed on separator dump valves and other controllers.
6. During completion, no venting will occur, and flaring will be limited as much as possible. Production equipment and gathering lines will be installed as soon as possible.
7. Telemetry will be installed to remotely monitor and control production.
8. When feasible, two or more rigs (including drilling and completion rigs) will not be run simultaneously within 200 meters of each other. If two or more rigs must be run simultaneously within 200 meters of each other, then effective public health buffer zones out to 200 meters (m) from the nearest emission source will be implemented. Examples of an effective public health protection buffer zone include the demarcation of a public access exclusion zone by signage at intervals of every 250 feet that is visible from a distance of 125 feet during daylight hours, and a physical buffer such as active surveillance to ensure the property is not accessible by the public during drilling operations. Alternatively, the proponent may demonstrate compliance with the 1-hour NO<sub>2</sub> National Ambient Air Quality Standards (NAAQS) with appropriate and accepted near-field modeling. As part of this demonstration, the proponent may propose alternative mitigation that could include but is not limited to natural gas-fired drill rigs, installation of NO<sub>x</sub> controls, time/use restrictions, and/or drill rig spacing.
9. All new and replacement internal combustion gas field engines of less than or equal to 300 design-rated horse power must not emit more than 2 grams of NO<sub>x</sub> per horsepower-hour. This requirement does not apply to gas field engines of less than or equal to 40 design-rated horsepower-hour.
10. All new and replacement internal combustion gas field engines of greater than 300 design rated horsepower must not emit more than 1.0 grams of NO<sub>x</sub> per horsepower-hour.
11. Green completions will be used for all well completion activities where technically feasible.
12. Employ enhanced VOC emission controls with 95% control efficiency on production equipment having a potential to emit greater than 5 tons per year.

**DOWNHOLE PROGRAM  
CONDITIONS OF APPROVAL (COAs)**

**SITE SPECIFIC DOWNHOLE COAs:**

- If applicable, Variances to OO2, Section III.E shall be granted as requested regarding the air drilling program for the surface hole.
- Newfield Production Co. shall comply with all applicable requirements in the SOP (version: "Greater Monument Butte Green River Development Program", June 24, 2008).
- Cement for the production casing shall be brought 200 feet above the surface casing shoe.

**All provisions outlined in Onshore Oil & Gas Order #2 Drilling Operations shall be strictly adhered to.** The following items are emphasized:

**DRILLING/COMPLETION/PRODUCING OPERATING STANDARDS**

- The spud date and time shall be reported orally to Vernal Field Office within 24 hours of spudding.
- Notify Vernal Field Office Supervisory Petroleum Engineering Technician at least 24 hours in advance of casing cementing operations and BOPE & casing pressure tests.
- All requirements listed in Onshore Order #2 III. E. Special Drilling Operations are applicable for air drilling of surface hole.
- Blowout prevention equipment (BOPE) shall remain in use until the well is completed or abandoned. Closing unit controls shall remain unobstructed and readily accessible at all times. Choke manifolds shall be located outside of the rig substructure.
- All BOPE components shall be inspected daily and those inspections shall be recorded in the daily drilling report. Components shall be operated and tested as required by Onshore Oil & Gas Order No. 2 to insure good mechanical working order. All BOPE pressure tests shall be performed by a test pump with a chart recorder and **NOT** by the rig pumps. Test shall be reported in the driller's log.
- BOP drills shall be initially conducted by each drilling crew within 24 hours of drilling out from under the surface casing and weekly thereafter as specified in Onshore Oil & Gas Order No. 2.
- Casing pressure tests are required before drilling out from under all casing strings set and cemented in place.
- No aggressive/fresh hard-banded drill pipe shall be used within casing.
- **Cement baskets shall not be run on surface casing.**
- The operator must report all shows of water or water-bearing sands to the BLM. If flowing water is encountered it must be sampled, analyzed, and a copy of the analyses submitted to the BLM Vernal Field Office.

- The operator must report encounters of all non oil & gas mineral resources (such as Gilsonite, tar sands, oil shale, trona, etc.) to the Vernal Field Office, in writing, within 5 working days of each encounter. Each report shall include the well name/number, well location, date and depth (from KB or GL) of encounter, vertical footage of the encounter and, the name of the person making the report (along with a telephone number) should the BLM need to obtain additional information.
- A complete set of angular deviation and directional surveys of a directional well will be submitted to the Vernal BLM office engineer within 30 days of the completion of the well.
- While actively drilling, chronologic drilling progress reports shall be filed directly with the BLM, Vernal Field Office on a weekly basis in sundry, letter format or e-mail to the Petroleum Engineers until the well is completed.
- A cement bond log (CBL) will be run from the production casing shoe to the top of cement and shall be utilized to determine the bond quality for the production casing. Submit a field copy of the CBL to this office.
- **Please submit an electronic copy of all other logs run on this well in CD (compact disc) format to the Vernal BLM Field Office. This submission will supersede the requirement for submittal of paper logs to the BLM.**
- There shall be no deviation from the proposed drilling, completion, and/or workover program as approved. Safe drilling and operating practices must be observed. Any changes in operation must have prior approval from the BLM Vernal Field Office.

#### OPERATING REQUIREMENT REMINDERS:

- All wells, whether drilling, producing, suspended, or abandoned, shall be identified in accordance with 43 CFR 3162.6. There shall be a sign or marker with the name of the operator, lease serial number, well number, and surveyed description of the well.
- For information regarding production reporting, contact the Office of Natural Resources Revenue (ONRR) at [www.ONRR.gov](http://www.ONRR.gov).
- Should the well be successfully completed for production, the BLM Vernal Field office must be notified when it is placed in a producing status. Such notification will be by written communication and must be received in this office by not later than the fifth business day following the date on which the well is placed on production. The notification shall provide, as a minimum, the following informational items:
  - Operator name, address, and telephone number.
  - Well name and number.
  - Well location (¼¼, Sec., Twn, Rng, and P.M.).
  - Date well was placed in a producing status (date of first production for which royalty will be paid).

- The nature of the well's production, (i.e., crude oil, or crude oil and casing head gas, or natural gas and entrained liquid hydrocarbons).
- The Federal or Indian lease prefix and number on which the well is located; otherwise the non-Federal or non-Indian land category, i.e., State or private.
- Unit agreement and/or participating area name and number, if applicable.
- Communitization agreement number, if applicable.
- Any venting or flaring of gas shall be done in accordance with Notice to Lessees (NTL) 4A and needs prior approval from the BLM Vernal Field Office.
- All undesirable events (fires, accidents, blowouts, spills, discharges) as specified in NTL 3A will be reported to the BLM, Vernal Field Office. Major events, as defined in NTL3A, shall be reported verbally within 24 hours, followed by a written report within 15 days. "Other than Major Events" will be reported in writing within 15 days. "Minor Events" will be reported on the Monthly Report of Operations and Production.
- Whether the well is completed as a dry hole or as a producer, "Well Completion and Recompletion Report and Log" (BLM Form 3160-4) shall be submitted not later than 30 days after completion of the well or after completion of operations being performed, in accordance with 43 CFR 3162.4-1. Two copies of all logs run, core descriptions, and all other surveys or data obtained and compiled during the drilling, workover, and/or completion operations, shall be filed on BLM Form 3160-4. Submit with the well completion report a geologic report including, at a minimum, formation tops, and a summary and conclusions. Also include deviation surveys, sample descriptions, strip logs, core data, drill stem test data, and results of production tests if performed. Samples (cuttings, fluid, and/or gas) shall be submitted only when requested by the BLM, Vernal Field Office.
- All off-lease storage, off-lease measurement, or commingling on-lease or off-lease, shall have prior written approval from the BLM Vernal Field Office.
- Oil and gas meters shall be calibrated in place prior to any deliveries. The BLM Vernal Field Office Petroleum Engineers will be provided with a date and time for the initial meter calibration and all future meter proving schedules. A copy of the meter calibration reports shall be submitted to the BLM Vernal Field Office. All measurement facilities will conform to the API standards for liquid hydrocarbons and the AGA standards for natural gas measurement. All measurement points shall be identified as the point of sale or allocation for royalty purposes.
- A schematic facilities diagram as required by Onshore Oil & Gas Order No. 3 shall be submitted to the BLM Vernal Field Office within 30 days of installation or first production, whichever occurs first. All site security regulations as specified in Onshore Oil & Gas Order No. 3 shall be adhered to. All product lines entering and leaving hydrocarbon storage tanks will be effectively sealed in accordance with Onshore Oil & Gas Order No. 3.
- Any additional construction, reconstruction, or alterations of facilities, including roads, gathering lines, batteries, etc., which will result in the disturbance of new ground, shall require the filing of a suitable plan and need prior approval of the BLM Vernal Field Office. Emergency approval may be obtained orally, but such approval does not waive the written report requirement.

- No location shall be constructed or moved, no well shall be plugged, and no drilling or workover equipment shall be removed from a well to be placed in a suspended status without prior approval of the BLM Vernal Field Office. If operations are to be suspended for more than 30 days, prior approval of the BLM Vernal Field Office shall be obtained and notification given before resumption of operations.
- Pursuant to Onshore Oil & Gas Order No. 7, this is authorization for pit disposal of water produced from this well for a period of 90 days from the date of initial production. A permanent disposal method must be approved by this office and in operation prior to the end of this 90-day period. In order to meet this deadline, an application for the proposed permanent disposal method shall be submitted along with any necessary water analyses, as soon as possible, but no later than 45 days after the date of first production. Any method of disposal which has not been approved prior to the end of the authorized 90-day period will be considered as an Incident of Noncompliance and will be grounds for issuing a shut-in order until an acceptable manner for disposing of said water is provided and approved by this office.
- Unless the plugging is to take place immediately upon receipt of oral approval, the Field Office Petroleum Engineers must be notified at least 24 hours in advance of the plugging of the well, in order that a representative may witness plugging operations. If a well is suspended or abandoned, all pits must be fenced immediately until they are backfilled. The "Subsequent Report of Abandonment" (Form BLM 3160-5) must be submitted within 30 days after the actual plugging of the well bore, showing location of plugs, amount of cement in each, and amount of casing left in hole, and the current status of the surface restoration.

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

FORM APPROVED  
OMB NO. 1004-0137  
Expires: October 31, 2014

**WELL COMPLETION OR RECOMPLETION REPORT AND LOG**

5. Lease Serial No. UTU64379

6. If Indian, Allottee or Tribe Name

7. Unit or CA Agreement Name and No. UTU87538X

8. Lease Name and Well No. GMBU 11-18-9-16

9. API Well No. 43-013-52458

10. Field and Pool or Exploratory MONUMENT BUTTE

11. Sec., T., R., M., on Block and Survey or Area SEC 18 T9S R16E Mer SLB

12. County or Parish DUCHESNE 13. State UT

1a. Type of Well  Oil Well  Gas Well  Dry  Other

b. Type of Completion:  New Well  Work Over  Deepen  Plug Back  Diff. Resrv., Other: \_\_\_\_\_

2. Name of Operator NEWFIELD PRODUCTION COMPANY

3. Address ROUTE #3 BOX 3630 MYTON, UT 84052 3a. Phone No. (include area code) Ph:435-646-3721

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

At surface 1026' FSL 2004' FWL (SE/SW) SEC 18 T9S R16E (UTU-64379)

At top prod. interval reported below 1749' FSL 1895' FWL (NE/SW) SEC 18 T9S R16E (UTU-64379)

At total depth 1984' FSL 1869' FWL (NE/SW) SEC 18 T9S R16E(UTU-64379)

14. Date Spudded 03/28/2014 15. Date T.D. Reached 04/11/2014 16. Date Completed 05/02/2014  D & A  Ready to Prod.

17. Elevations (DF, RKB, RT, GL)\* 6123' GL 6133' KB

18. Total Depth: MD 6232' TVD 6146' 19. Plug Back T.D.: MD 6183' TVD 20. Depth Bridge Plug Set: MD TVD

21. Type Electric & Other Mechanical Logs Run (Submit copy of each) DUAL IND GRD, SP, COMP. NEUTRON, GR, CALIPER, CMT BOND

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

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

Hole Size	Size/Grade	Wt. (#/ft.)	Top (MD)	Bottom (MD)	Stage Cementer Depth	No. of Sks. & Type of Cement	Slurry Vol. (BBL)	Cement Top*	Amount Pulled
12-1/4"	8-5/8" J-55	24	0'	320'		155 CLASS G			
7-7/8"	5-1/2" J-55	15.50	0'	6229'		270 Econocem		0'	
						480Expandacem			

24. Tubing Record

Size	Depth Set (MD)	Packer Depth (MD)	Size	Depth Set (MD)	Packer Depth (MD)	Size	Depth Set (MD)	Packer Depth (MD)
2-7/8"	EOT@6029'	TA@5905'						

25. Producing Intervals

Formation	Top	Bottom	Perforated Interval	Size	No. Holes	Perf. Status
A) Green River	4893'	5910'	4893' - 5910' MD	0.34	61	
B)						
C)						
D)						

26. Perforation Record

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

Depth Interval	Amount and Type of Material
4893' - 5910' MD	Frac w/ 343,240#s of 20/40 white sand in 2,854 bbls of Lightning 17 fluid, in 4 stages.

28. Production - Interval A

Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
5/2/2014	5/12/14	24	➔	93	34	84			2.5 X 1.75 X 24' RHAC
Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas/Oil Ratio	Well Status	
			➔					PRODUCING	

28a. Production - Interval B

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

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

28b. Production - Interval C

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

28c. Production - Interval D

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

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

30. Summary of Porous Zones (Include Aquifers):

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

31. Formation (Log) Markers  
GEOLOGICAL MARKERS

Formation	Top	Bottom	Descriptions, Contents, etc.	Name	Top
					Meas. Depth
				GARDEN GULCH MARK GARDEN GULCH 1	3715' 3946'
				GARDEN GULCH 2 POINT 3	4053' 4307'
				X MRKR Y MRKR	4578' 4613'
				DOUGLAS CREEK MRK BI CARBONATE MRK	4725' 4963'
				B LIMESTONE MRK CASTLE PEAK	5060' 5616'
				BASAL CARBONATE WASATCH	6095 6225'

32. Additional remarks (include plugging procedure):

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

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

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

Name (please print) Heather Calder Title Regulatory Technician  
 Signature *Heather Calder* Date 05/29/2014

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.



# **NEWFIELD EXPLORATION**

**USGS Myton SW (UT)**

**SECTION 18 T9, R16**

**11-18-9-16**

**Wellbore #1**

**Design: Actual**

## **End of Well Report**

**10 April, 2014**





# Payzone Directional

## End of Well Report



**Company:** NEWFIELD EXPLORATION  
**Project:** USGS Myton SW (UT)  
**Site:** SECTION 18 T9, R16  
**Well:** 11-18-9-16  
**Wellbore:** Wellbore #1  
**Design:** Actual

**Local Co-ordinate Reference:** Well 11-18-9-16  
**TVD Reference:** 11-18-9-16 @ 6133.0usft (SS #1)  
**MD Reference:** 11-18-9-16 @ 6133.0usft (SS #1)  
**North Reference:** True  
**Survey Calculation Method:** Minimum Curvature  
**Database:** EDM 5000.1 Single User Db

**Project:** USGS Myton SW (UT), DUCHESNE COUNTY, UT, USA  
**Map System:** US State Plane 1983  
**Geo Datum:** North American Datum 1983  
**Map Zone:** Utah Central Zone

**System Datum:** Mean Sea Level

**Site:** SECTION 18 T9, R16

**Site Position:** Northing: 7,184,524.45 usft Latitude: 40° 2' 8.610 N  
 From: Easting: 2,014,084.90 usft Longitude: 110° 9' 55.350 W  
**Position Uncertainty:** Slot Radius: 13-3/16 " Grid Convergence: 0.85°

**Well:** 11-18-9-16, SHL LAT: 40 01 35.35 LONG: -110 09 50.14

**Well Position:** +N/-S 0.0 usft Northing: 7,181,165.56 usft Latitude: 40° 1' 35.350 N  
 +E/-W 0.0 usft Easting: 2,014,540.33 usft Longitude: 110° 9' 50.140 W  
**Position Uncertainty:** Wellhead Elevation: 6,133.0 usft Ground Level: 6,123.0 usft

**Wellbore:** Wellbore #1

Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	4/2/2014	10.99	65.69	51,965

**Design:** Actual

**Audit Notes:** 1.0

**Version:** Phase: ACTUAL Tie On Depth: 0.0

Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)
	0.0	0.0	0.0	351.98

**Survey Program:** Date 4/10/2014

From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
348.0	6,232.0	Survey #1 (Wellbore #1)	MWD	MWD - Standard



# Payzone Directional

## End of Well Report



**Company:** NEWFIELD EXPLORATION  
**Project:** USGS Mylon SW (UT)  
**Site:** SECTION 18 T9, R16  
**Well:** 11-18-9-16  
**Wellbore:** Wellbore #1  
**Design:** Actual

**Local Co-ordinate Reference:**  
**TVD Reference:** 11-18-9-16 @ 6133.0usft (SS #1)  
**MD Reference:** 11-18-9-16 @ 6133.0usft (SS #1)  
**North Reference:** True  
**Survey Calculation Method:** Minimum Curvature  
**Database:** EDM 5000.1 Single User Db

Well 11-18-9-16  
 11-18-9-16 @ 6133.0usft (SS #1)  
 11-18-9-16 @ 6133.0usft (SS #1)  
 True  
 Minimum Curvature  
 EDM 5000.1 Single User Db

MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	V. Sec (usft)	N/S (usft)	E/W (usft)	DLeg (°/100usft)	Build (°/100usft)	Turn (°/100usft)
0.0	0.00	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.00
348.0	0.40	76.40	348.0	0.1	0.3	1.2	0.11	0.11	0.00
379.0	0.60	60.20	379.0	0.2	0.4	1.4	0.78	0.65	-52.26
410.0	0.70	1.70	410.0	0.4	0.7	1.6	2.07	0.32	-188.71
440.0	1.10	335.70	440.0	0.9	1.1	1.5	1.87	1.33	-86.67
471.0	1.30	340.40	471.0	1.5	1.7	1.2	0.72	0.65	15.16
502.0	1.80	343.60	502.0	2.3	2.5	1.0	1.64	1.61	10.32
533.0	2.00	342.20	533.0	3.4	3.5	0.7	0.66	0.65	-4.52
563.0	2.30	351.50	562.9	4.5	4.6	0.4	1.53	1.00	31.00
594.0	2.70	354.20	593.9	5.8	5.9	0.2	1.34	1.29	8.71
625.0	3.20	0.40	624.9	7.4	7.5	0.2	1.91	1.61	20.00
656.0	3.30	354.40	655.8	9.2	9.3	0.1	1.14	0.32	-19.35
686.0	3.60	352.00	685.8	11.0	11.1	-0.1	1.11	1.00	-8.00
717.0	4.00	351.80	716.7	13.0	13.1	-0.4	1.29	1.29	-0.65
748.0	4.40	352.40	747.6	15.3	15.3	-0.7	1.30	1.29	1.94
779.0	4.80	353.30	778.5	17.8	17.8	-1.0	1.31	1.29	2.90
809.0	5.10	354.10	808.4	20.4	20.4	-1.3	1.03	1.00	2.67
840.0	5.50	353.00	839.3	23.2	23.2	-1.6	1.33	1.29	-3.55
871.0	6.00	353.10	870.1	26.3	26.3	-2.0	1.61	1.61	0.32
902.0	6.10	353.60	900.9	29.6	29.6	-2.4	0.36	0.32	1.61
932.0	6.30	352.90	930.8	32.8	32.8	-2.8	0.71	0.67	-2.33
963.0	6.60	351.40	961.6	36.3	36.2	-3.2	1.11	0.97	-4.84
994.0	6.80	349.10	992.4	39.9	39.8	-3.9	1.08	0.65	-7.42
1,025.0	7.00	347.60	1,023.1	43.7	43.4	-4.6	0.87	0.65	-4.84
1,055.0	7.30	348.40	1,052.9	47.4	47.1	-5.4	1.05	1.00	2.67
1,101.0	7.30	346.90	1,098.5	53.2	52.8	-6.6	0.41	0.00	-3.26
1,147.0	8.10	345.60	1,144.1	59.3	58.8	-8.1	1.78	1.74	-2.83



# Payzone Directional

## End of Well Report



**Company:** NEWFIELD EXPLORATION  
**Project:** USGS Myton SW (UT)  
**Site:** SECTION 18 T9, R16  
**Well:** 11-18-9-16  
**Wellbore:** Wellbore #1  
**Design:** Actual

**Local Co-ordinate Reference:**  
**TVD Reference:** Well 11-18-9-16  
**MD Reference:** 11-18-9-16 @ 6133.0usft (SS #1)  
**North Reference:** 11-18-9-16 @ 6133.0usft (SS #1)  
**Survey Calculation Method:** True  
**Database:** Minimum Curvature  
 EDM 5000.1 Single User Db

MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	V. Sec (usft)	N/S (usft)	E/W (usft)	D/Leg (°/100usft)	Build (°/100usft)	Turn (°/100usft)
1,193.0	8.20	346.40	1,189.6	65.8	65.1	-9.7	0.33	0.22	1.74
1,239.0	8.40	348.50	1,235.2	72.4	71.6	-11.1	0.79	0.43	4.57
1,284.0	8.60	349.10	1,279.7	79.1	78.1	-12.4	0.49	0.44	1.33
1,328.0	9.00	351.20	1,323.1	85.8	84.7	-13.6	1.17	0.91	4.77
1,374.0	8.80	350.60	1,368.6	92.9	91.8	-14.7	0.48	-0.43	-1.30
1,420.0	9.50	348.50	1,414.0	100.2	99.0	-16.0	1.69	1.52	-4.57
1,465.0	10.20	351.60	1,458.3	107.9	106.5	-17.3	1.95	1.56	6.89
1,511.0	10.10	352.20	1,503.6	116.0	114.6	-18.5	0.32	-0.22	1.30
1,557.0	10.20	353.30	1,548.9	124.1	122.6	-19.5	0.47	0.22	2.39
1,603.0	10.80	353.10	1,594.1	132.5	130.9	-20.5	1.31	1.30	-0.43
1,649.0	10.70	352.50	1,639.3	141.1	139.4	-21.6	0.33	-0.22	-1.30
1,694.0	10.10	349.90	1,683.6	149.2	147.5	-22.8	1.69	-1.33	-5.78
1,740.0	9.80	348.70	1,728.9	157.2	155.3	-24.3	0.79	-0.65	-2.61
1,786.0	9.80	347.90	1,774.2	165.0	163.0	-25.9	0.30	0.00	-1.74
1,832.0	9.80	348.70	1,819.6	172.8	170.6	-27.5	0.30	0.00	1.74
1,877.0	9.90	350.60	1,863.9	180.5	178.2	-28.8	0.76	0.22	4.22
1,923.0	9.90	350.20	1,909.2	188.4	186.0	-30.2	0.15	0.00	-0.87
1,969.0	9.90	352.20	1,954.5	196.3	193.8	-31.4	0.75	0.00	4.35
2,015.0	10.30	353.90	1,999.8	204.4	201.8	-32.3	1.08	0.87	3.70
2,061.0	10.10	354.30	2,045.1	212.5	209.9	-33.2	0.46	-0.43	0.87
2,107.0	10.10	355.20	2,090.4	220.5	217.9	-33.9	0.34	0.00	1.96
2,152.0	10.40	356.20	2,134.6	228.5	225.9	-34.5	0.78	0.67	2.22
2,198.0	10.90	353.60	2,179.9	237.0	234.4	-35.3	1.51	1.09	-5.65
2,244.0	11.30	353.20	2,225.0	245.9	243.2	-36.3	0.89	0.87	-0.87
2,290.0	11.30	353.20	2,270.1	254.9	252.1	-37.4	0.00	0.00	0.00
2,336.0	10.80	350.80	2,315.3	263.7	260.9	-38.6	1.48	-1.09	-5.22
2,380.0	10.90	350.50	2,358.5	272.0	269.0	-39.9	0.26	0.23	-0.68



# Payzone Directional

## End of Well Report



**Company:** NEWFIELD EXPLORATION  
**Project:** USGS Myton SW (UT)  
**Site:** SECTION 18 T9, R16  
**Well:** 11-18-9-16  
**Wellbore:** Wellbore #1  
**Design:** Actual

**Local Co-ordinate Reference:**  
**TVD Reference:** 11-18-9-16 @ 6133.0usft (SS #1)  
**MD Reference:** 11-18-9-16 @ 6133.0usft (SS #1)  
**North Reference:** True  
**Survey Calculation Method:** Minimum Curvature  
**Database:** EDM 5000.1 Single User Db

Well 11-18-9-16  
 11-18-9-16 @ 6133.0usft (SS #1)  
 11-18-9-16 @ 6133.0usft (SS #1)  
 True  
 Minimum Curvature  
 EDM 5000.1 Single User Db

MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	V. Sec (usft)	N/S (usft)	E/W (usft)	DLeg (°/100usft)	Build (°/100usft)	Turn (°/100usft)
2,423.0	10.80	352.80	2,400.7	280.1	277.1	-41.1	1.03	-0.23	5.35
2,469.0	10.80	354.60	2,445.9	288.7	285.6	-42.1	0.73	0.00	3.91
2,513.0	10.70	352.40	2,489.1	296.9	293.8	-43.0	0.96	-0.23	-5.00
2,559.0	10.60	346.50	2,534.3	305.4	302.1	-44.5	2.38	-0.22	-12.83
2,603.0	11.10	343.60	2,577.5	313.6	310.1	-46.7	1.68	1.14	-6.59
2,649.0	10.90	345.30	2,622.7	322.3	318.6	-49.0	0.83	-0.43	3.70
2,694.0	10.50	349.30	2,668.9	330.6	326.7	-50.9	1.87	-0.89	8.89
2,740.0	10.80	352.70	2,712.1	339.1	335.1	-52.2	1.51	0.65	7.39
2,786.0	11.60	354.40	2,757.2	348.0	344.0	-53.2	1.88	1.74	3.70
2,832.0	12.10	357.10	2,802.3	357.5	353.4	-53.9	1.62	1.09	5.87
2,876.0	11.90	358.70	2,845.3	366.6	362.5	-54.2	0.88	-0.45	3.64
2,921.0	11.90	359.20	2,889.3	375.8	371.8	-54.4	0.23	0.00	1.11
2,965.0	11.80	358.30	2,932.4	384.7	380.9	-54.6	0.48	-0.23	-2.05
3,009.0	11.40	355.70	2,975.5	393.6	389.7	-55.1	1.50	-0.91	-5.91
3,055.0	11.90	355.70	3,020.5	402.8	399.0	-55.8	1.09	1.09	0.00
3,101.0	11.40	354.50	3,065.6	412.1	408.2	-56.5	1.21	-1.09	-2.61
3,146.0	11.00	351.00	3,109.7	420.8	416.9	-57.6	1.75	-0.89	-7.78
3,192.0	11.90	351.50	3,154.8	430.0	425.9	-59.0	1.97	1.96	1.09
3,238.0	12.60	355.70	3,199.8	439.7	435.6	-60.1	2.46	1.52	9.13
3,282.0	12.30	356.00	3,242.7	449.2	445.1	-60.8	0.70	-0.68	0.68
3,326.0	12.30	355.40	3,285.7	458.5	454.4	-61.5	0.29	0.00	-1.36
3,371.0	12.60	355.30	3,329.7	468.2	464.1	-62.3	0.67	0.67	-0.22
3,417.0	12.30	354.80	3,374.6	478.1	474.0	-63.1	0.69	-0.65	-1.09
3,463.0	12.50	353.90	3,419.5	488.0	483.8	-64.1	0.60	0.43	-1.96
3,509.0	12.50	353.10	3,464.4	497.9	493.7	-65.2	0.38	0.00	-1.74
3,554.0	12.00	351.90	3,508.4	507.5	503.1	-66.5	1.25	-1.11	-2.67
3,600.0	12.00	352.30	3,553.4	517.1	512.6	-67.8	0.18	0.00	0.87

# Payzone Directional

## End of Well Report



**Company:** NEWFIELD EXPLORATION  
**Project:** USGS Myton SW (UT)  
**Site:** SECTION 18 T9, R16  
**Well:** 11-18-9-16  
**Wellbore:** Wellbore #1  
**Design:** Actual

**Local Co-ordinate Reference:**  
**TVD Reference:** Well 11-18-9-16  
**MD Reference:** 11-18-9-16 @ 6133.0usft (SS #1)  
**North Reference:** 11-18-9-16 @ 6133.0usft (SS #1)  
**Survey Calculation Method:** True  
**Database:** Minimum Curvature  
 EDM 5000.1 Single User Db

Survey	MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	V. Sec (usft)	N/S (usft)	E/W (usft)	DLeg (%/100usft)	Build (%/100usft)	Turn (%/100usft)
	3,646.0	11.50	351.90	3,598.4	526.4	521.9	-69.1	1.10	-1.09	-0.87
	3,690.0	11.20	349.90	3,641.6	535.1	530.4	-70.5	1.12	-0.68	-4.55
	3,736.0	10.80	346.80	3,686.7	543.8	539.0	-72.2	1.55	-0.87	-6.74
	3,782.0	10.20	345.90	3,732.0	552.2	547.2	-74.2	1.35	-1.30	-1.96
	3,827.0	9.90	345.20	3,776.3	560.0	554.8	-76.2	0.72	-0.67	-1.56
	3,873.0	10.20	346.90	3,821.6	568.0	562.6	-78.1	0.92	0.65	3.70
	3,919.0	10.20	348.00	3,866.8	576.1	570.5	-79.9	0.42	0.00	2.39
	3,965.0	10.60	347.30	3,912.1	584.4	578.6	-81.6	0.91	0.87	-1.52
	4,010.0	10.70	345.90	3,956.3	592.6	586.7	-83.6	0.62	0.22	-3.11
	4,056.0	10.50	344.10	4,001.5	601.0	594.9	-85.8	0.84	-0.43	-3.91
	4,102.0	10.70	344.80	4,046.7	609.4	603.1	-88.0	0.52	0.43	1.52
	4,148.0	10.30	349.30	4,092.0	617.8	611.2	-89.9	1.98	-0.87	9.78
	4,193.0	9.60	349.20	4,136.3	625.5	618.9	-91.4	1.56	-1.56	-0.22
	4,239.0	8.90	345.70	4,181.7	632.9	626.1	-93.0	1.95	-1.52	-7.61
	4,285.0	9.10	345.70	4,227.1	640.1	633.0	-94.7	0.43	0.43	0.00
	4,331.0	8.70	347.20	4,272.6	647.1	640.0	-96.4	1.01	-0.87	3.26
	4,377.0	8.10	352.30	4,318.1	653.9	646.6	-97.6	2.08	-1.30	11.09
	4,422.0	8.60	350.00	4,362.6	660.4	653.0	-98.6	1.34	1.11	-5.11
	4,468.0	8.80	352.20	4,408.1	667.3	659.9	-99.7	0.84	0.43	4.78
	4,514.0	9.60	355.00	4,453.5	674.7	667.2	-100.5	1.99	1.74	6.09
	4,560.0	9.80	356.30	4,498.8	682.4	674.9	-101.1	0.64	0.43	2.83
	4,606.0	9.40	353.50	4,544.2	690.1	682.6	-101.8	1.34	-0.87	-6.09
	4,651.0	8.80	347.80	4,588.6	697.2	689.6	-102.9	2.40	-1.33	-12.67
	4,697.0	8.30	347.80	4,634.1	704.0	696.3	-104.4	1.09	-1.09	0.00
	4,743.0	8.00	345.10	4,679.6	710.5	702.6	-105.9	1.06	-0.65	-5.87
	4,787.0	8.60	349.40	4,723.2	716.8	708.8	-107.3	1.96	1.36	9.77
	4,833.0	9.40	352.30	4,768.6	724.0	715.9	-108.4	2.00	1.74	6.30

# Payzone Directional

## End of Well Report



**Company:** NEWFIELD EXPLORATION  
**Project:** USGS Myton SW (UT)  
**Site:** SECTION 18 T9, R16  
**Well:** 11-18-9-16  
**Wellbore:** Wellbore #1  
**Design:** Actual

**Local Co-ordinate Reference:** Well 11-18-9-16  
**TVD Reference:** 11-18-9-16 @ 6133.0usft (SS #1)  
**MD Reference:** 11-18-9-16 @ 6133.0usft (SS #1)  
**North Reference:** True  
**Survey Calculation Method:** Minimum Curvature  
**Database:** EDM 5000.1 Single User Db

MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	V. Sec (usft)	N/S (usft)	E/W (usft)	DLeg (°/100usft)	Build (°/100usft)	Turn (°/100usft)
4,878.0	9.70	353.30	4,813.0	731.5	723.3	-109.3	0.76	0.67	2.22
4,924.0	10.40	353.10	4,858.3	739.5	731.3	-110.3	1.52	1.52	-0.43
4,970.0	10.60	352.80	4,903.5	747.9	739.6	-111.3	0.45	0.43	-0.65
5,016.0	10.20	351.20	4,948.8	756.2	747.8	-112.5	1.07	-0.87	-3.48
5,062.0	10.40	350.10	4,994.0	764.4	755.9	-113.8	0.61	0.43	-2.39
5,107.0	10.20	349.10	5,038.3	772.5	763.8	-115.3	0.60	-0.44	-2.22
5,153.0	10.30	346.20	5,083.6	780.6	771.8	-117.0	1.14	0.22	-6.30
5,199.0	10.00	347.20	5,128.8	788.7	779.7	-118.9	0.76	-0.65	2.17
5,244.0	9.50	346.70	5,173.2	796.3	787.2	-120.6	1.13	-1.11	-1.11
5,290.0	9.90	347.30	5,218.5	804.0	794.7	-122.3	0.90	0.87	1.30
5,336.0	10.50	354.20	5,263.8	812.1	802.7	-123.6	2.96	1.30	15.00
5,382.0	10.50	356.30	5,309.0	820.5	811.1	-124.3	0.83	0.00	4.57
5,428.0	10.40	356.30	5,354.3	828.8	819.4	-124.9	0.22	-0.22	0.00
5,471.0	11.50	358.50	5,396.5	836.9	827.6	-125.2	2.74	2.56	5.12
5,517.0	11.30	1.80	5,441.6	845.9	836.7	-125.2	1.48	-0.43	7.17
5,563.0	10.00	3.30	5,486.8	854.3	845.2	-124.8	2.89	-2.83	3.26
5,607.0	8.60	1.20	5,530.2	861.3	852.3	-124.5	3.27	-3.18	-4.77
5,651.0	8.40	358.10	5,573.7	867.7	858.8	-124.6	1.14	-0.45	-7.05
5,696.0	9.40	355.10	5,618.2	874.7	865.7	-125.0	2.45	2.22	-6.67
5,742.0	9.90	351.70	5,663.5	882.4	873.4	-125.9	1.65	1.09	-7.39
5,788.0	10.20	349.70	5,708.8	890.4	881.3	-127.2	1.00	0.65	-4.35
5,832.0	10.40	352.00	5,752.1	898.3	889.0	-128.4	1.04	0.45	5.23
5,878.0	10.50	355.00	5,797.4	906.6	897.3	-129.4	1.20	0.22	6.52
5,922.0	11.60	356.40	5,840.5	915.0	905.7	-130.0	2.57	2.50	3.18
5,966.0	11.60	359.30	5,883.6	923.8	914.6	-130.3	1.33	0.00	6.59
6,011.0	11.20	359.80	5,927.7	932.6	923.5	-130.4	0.92	-0.89	1.11
6,057.0	10.10	356.50	5,973.0	941.1	932.0	-130.7	2.73	-2.39	-7.17



# Payzone Directional End of Well Report



**Company:** NEWFIELD EXPLORATION  
**Project:** USGS Myton SW (UT)  
**Site:** SECTION 18 T9, R16  
**Well:** 11-18-9-16  
**Wellbore:** Wellbore #1  
**Design:** Actual

**Local Co-ordinate Reference:**  
**TVD Reference:** 11-18-9-16 @ 6133.0usft (SS #1)  
**MD Reference:** 11-18-9-16 @ 6133.0usft (SS #1)  
**North Reference:** True  
**Survey Calculation Method:** Minimum Curvature  
**Database:** EDM 5000.1 Single User Db

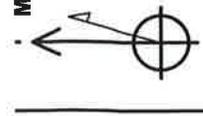
**Well 11-18-9-16**  
 11-18-9-16 @ 6133.0usft (SS #1)  
 11-18-9-16 @ 6133.0usft (SS #1)  
 True  
 Minimum Curvature  
 EDM 5000.1 Single User Db

Survey	MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	V. Sec (usft)	N/S (usft)	E/W (usft)	DLeg (°/100usft)	Build (°/100usft)	Turn (°/100usft)
	6,101.0	9.30	352.80	6,016.3	948.5	939.3	-131.4	2.30	-1.82	-8.41
	6,147.0	8.40	349.60	6,061.8	955.6	946.3	-132.4	2.23	-1.96	-6.96
	6,180.0	8.10	347.50	6,094.4	960.3	951.0	-133.4	1.29	-0.91	-6.36
	6,232.0	8.10	347.50	6,145.9	967.6	958.1	-135.0	0.00	0.00	0.00

Checked By: \_\_\_\_\_ Approved By: \_\_\_\_\_ Date: \_\_\_\_\_

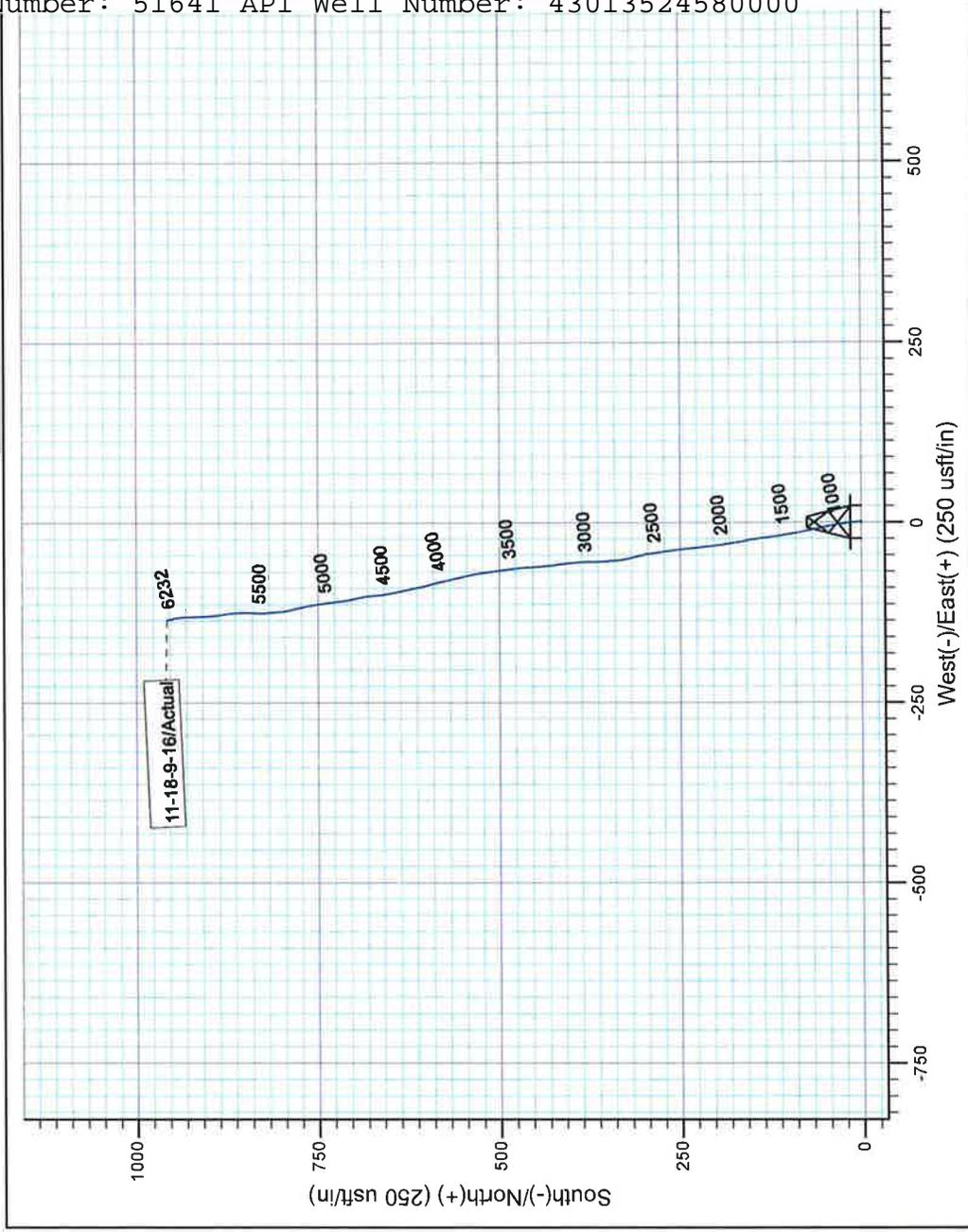
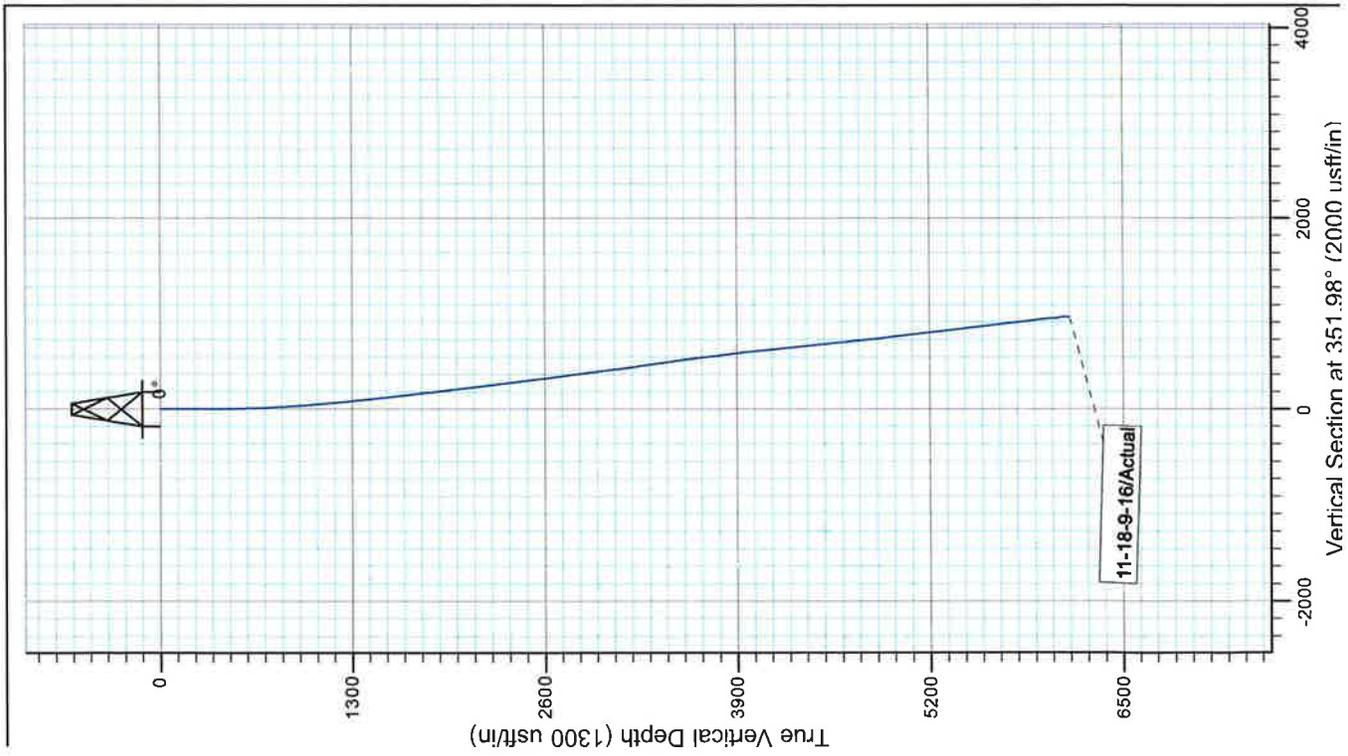


Project: USGS Myton SW (U1)  
 Site: SECTION 18 T9, R16  
 Well: 11-18-9-16  
 Wellbore: Wellbore #1  
 Design: Actual



Azimuths to true North  
 Magnetic North: 10.99°  
 Magnetic Field  
 Strength: 51965.2 nT  
 Dip Angle: 65.69°  
 Date: 4/2/2014  
 Model: IGRF2010

Sundry Number: 51641 API Well Number: 43013524580000



Design: Actual (11-18-9-16/Wellbore #1)  
 Created By: *Matthew Lambert* Date: 7:40, April 10 201  
 THIS SURVEY IS CORRECT TO THE BEST OF MY KNOWLEDGE AND IS SUPPORTED BY ACTUAL FIELD DATA



Well Name: GMBU 11-18-9-16

### Summary Rig Activity

Job Category		Job Start Date	Job End Date
<b>Daily Operations</b>			
Report Start Date	Report End Date	24hr Activity Summary	
4/25/2014	4/26/2014	Well has been shut in awaiting wireline to do the CBL log and shoot sig. number 1 @ x.	
Start Time	End Time	15:30	Comment Well is shut in and secure
Start Time	End Time	16:00	Comment Extreme Wireline RU to do the CBL log.
Start Time	End Time	18:00	Comment Extreme Wireline started in the well @ 07:10 with CBL tools to do a CBL log. W/L OOH @ 08:50.
Start Time	End Time	19:00	Comment B&C Quicktest tested the casing, flowback, fracvalve, blind rams and cap to a low of 250psi and a high of 4500psi.
Start Time	End Time	20:00	Comment Extreme Wireline made up the tool string to perforate sig. #1. RIH to perforate sig #1 @ 5,905-5,910, 5,793-5,796 & 5,690- 5,692.
Start Time	End Time	09:00	Comment Well is shut in and secure. Awaiting frac.
Report Start Date	Report End Date	24hr Activity Summary	
4/28/2014	4/29/2014	RU HES & frac 4 of 4 stgs, Flowback well	
Start Time	End Time	10:00	Comment SDFN
Start Time	End Time	10:45	Comment RU Halliburton. Press test Lines & Pump To 5000psi
Start Time	End Time	11:15	Comment (Sig #1 17#) Frac CP-4/2/1 Formations W/ 150,300# 20/40 white sand & 1126 bbbls pumped
Start Time	End Time	12:00	Comment (Sig #2) RU Extreme wireline. Press test lube to 4,000 psi, MU RIH w/ 3 1/8" disposable slick guns (.34 EHD, 120 deg phasing, 16 gram charges, 3 spf), Set CFT Plug @ 5540' Perforate LBLKSH @ 5449'-54', ( 15-Holes); POOH RD wireline, SWI
Start Time	End Time	12:30	Comment (Sig #2 17# Frac) Frac LBLKSH W/70,050# 20/40 white sand & pump 612 total bbbls
Start Time	End Time	13:15	Comment (Sig #3) RU The Extreme wireline. Press test lube to 4,000 psi, MU RIH W/ CFTP & 3 1/8" disposable slick guns (.34 EHD, 180 deg phasing, 16 gram charges, 2 spf), Set CFTP @ 5360" & Perforate the LODC @ 5282'-84, 5273'-75' & A-1 @ 5149'-51', ( 12-Holes) POOH RD wireline, SWI
Start Time	End Time	13:45	Comment (Sig #3 17# Frac) LODC & A-1 formations W/63,040# 20/40 White Sand & pump 552 total bbbls
Start Time	End Time	14:30	Comment (Sig #4) RU Extreme wireline. Press test lube to 4,000 psi, MU RIH w/ 3 1/8" disposable slick guns (.34 EHD, 180 deg phasing, 16 gram charges, 2spf), Set CFT Plug @ 5110' Perforate B-1 @ 5028'-33' & C-Sand @ 4893-95', ( 14-Holes); POOH RD wireline, SWI
Start Time	End Time	14:45	Comment (Sig #4 17# Frac) B-1 @ C-Sand formations W/59,660# 20/40 White Sand & pump 569 total bbbls
Start Time	End Time	17:45	Comment Open well to pit @ approx. 2 bpm, Recover 450 bbbls fluid & turned to oil
Start Time	End Time	00:00	Comment SDFN
Report Start Date	Report End Date	24hr Activity Summary	
4/29/2014	4/30/2014	Set Kill Plug	
Start Time	End Time	06:00	Comment SDFN



Well Name: GMBU 11-18-9-16

### Summary Rig Activity

Start Time	06:00	End Time	08:00	Comment
Start Time	08:00	End Time	00:00	RU W/L RIH Set KP @ 4800' POOH RD W/L Bleed off Well
Report Start Date	5/1/2014	Report End Date	5/2/2014	Comment
Start Time	00:00	End Time	06:00	SDFN
Start Time	06:00	End Time	07:00	Comment
Start Time	07:00	End Time	08:00	CREW TRAVEL, JSA, JSP, START EQUIPMENT
Start Time	08:00	End Time	09:00	Comment
Start Time	09:00	End Time	10:00	SIRU/ DERRICK INSPECTION RU B&C PRESS TEST BOPS
Start Time	10:00	End Time	12:30	Comment
Start Time	12:30	End Time	16:00	RU WORKFLOOR, RU TBG EQUIPMENT, HANG LIFTING CYLINDER, B&C TESTING STACK
Start Time	16:00	End Time	17:00	Comment
Start Time	17:00	End Time	18:30	UNLOAD, PREP/ TALLEY 193 JNTS 2 7/8" J-55 TBG
Start Time	18:30	End Time	20:00	Comment
Start Time	20:00	End Time	21:00	PU RIH W/ 4 3/4" MILL, X-O, 146 JNTS TBG, TAGGING KILL PLUG @ 4800, STRIP ON WASHINGTON RUBBER
Start Time	21:00	End Time	22:00	Comment
Start Time	22:00	End Time	00:00	RU POWER SWIVEL, DRILL OUT KILL PLUG 15MIN, 700 PSI UNDER PLUG, HANG SWIVEL BACK PU 10 JNTS TAGGING FIRST PLUG @ 5110 JNT 156 (NO FILL), DRILL OUT PLUG 12 MIN, NO ADDITIONAL PRESSURE, SWIVEL IN 6 JNTS TAGGING SECOND PLUG @ 5360 JNT 163 (NO FILL), DRILL OUT PLUG 13 MIN, NO PRESSURE, SWIVEL IN 3 JNTS TAGGING 80' OF FILL ON LAST PLUG CLEAN OUT FILL DOWN TO PLUG @ 5540 JNT 169, DRILL OUT PLUG 18MIN, 900 PSI UNDER PLUG, ROLL OUT PRESSURE, HANG SWIVEL BACK, PU 18 JNTS TAGGING 180' OF FILL ON PBTD, CLEAN OUT FILL DWN TO PBTD @ 6183 JNT 188
Start Time	16:00	End Time	17:00	Comment
Start Time	17:00	End Time	18:30	CIRCULATE HOLE 150 BBLs UNTIL CLEAN RETURNS,
Start Time	18:30	End Time	20:00	Comment
Start Time	20:00	End Time	21:00	LD 11 JNTS ON RACKS, POOH W/ 182 JNTS TO DERRICK, LD BHA
Start Time	21:00	End Time	22:00	Comment
Start Time	22:00	End Time	00:00	RIH W/ PERGE VALVE, 1 JNT, #3 DESANDER, 4' SUB, 1 JNT, SN, 1 JNT, TAC, 179 MORE JNTS, ADDING 4' SUB TO STRING, SETTING TAC W/ 18,000 PULLED INTO IT
Start Time	00:00	End Time	06:00	Comment
Start Time	06:00	End Time	07:00	RD WORKFLOOR, ND BOP, ND BLINDRAM, REMOVE 4. SUB FROM STRING, LAND WELL, NU WELL HEAD, 10'KB, 179 JNTS 5893.57, TAC @ 5903.57, 1 JNT, SN @ 5939.34, 1 JNT, 4' SUB, DESANDER, 1 JNT, PERGE VALVE, EOT @ 6028.1, SWIFN, SDFN
Start Time	07:00	End Time	08:00	Comment
Start Time	08:00	End Time	08:00	CREW TRAVEL
Start Time	09:00	End Time	08:00	Comment
Start Time	10:00	End Time	08:00	SDFN
Report Start Date	5/2/2014	Report End Date	5/2/2014	Comment
Start Time	00:00	End Time	06:00	Comment
Start Time	06:00	End Time	07:00	SDFN
Start Time	07:00	End Time	08:00	Comment
Start Time	08:00	End Time	08:00	CREW TRVEL, JSA, JSP, START EQUIPMENT
Start Time	09:00	End Time	08:00	Comment
Start Time	10:00	End Time	08:00	CSG 500 PSI, TBG 400 PSI, OPEN UP CSG TO FLOW



Well Name: GMBU 11-18-9-16

### Summary Rig Activity

Start Time	08:00	End Time	11:00	Comment
Start Time	11:00	End Time	12:00	PU AND PRIME NEW (NATIONAL) PUMP, 2.5 X 1.75 X 24' RHAC API OVER CALIFORNIA, PU 28 7/8" 8PERS, 50 3/4" 8PERS, 75 3/4" 4PERS, 78 7/8" 4PERS, SPACE OUT W/2' PONY PU 30' X 1 1/2" POLISH ROD
Start Time	12:00	End Time	13:00	FILL HOLE 2 BBLs, STROKE UP TO 800 PSI, HAVE TROUBLES ROLLING UNIT, HANG HORSE HEAD, NU UNIT
Start Time	13:00	End Time	14:00	RIG DWN PREP FOR MOVE
Start Time	14:00	End Time	15:00	MOVE RIG AND EQUIPMENT TO THE 118-6-9-17
Start Time	15:00	End Time	16:00	WAIT FOR WIRE LINE TO FINISH SETTING KILL PLUG AND MOVE OUT OF WAY
Start Time	16:00	End Time	17:00	ND BLIND RAM, NU BOP FUNCTION TEST
Start Time	17:00	End Time	18:00	SIRU/ DERRICK INSPECTION, RU WORKFLOOR, SDFN
				CREW TRAVEL