

**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> Greater Monument Butte R-11-9-16		
<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-096547			<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>
<b>LOCATION AT SURFACE</b>		799 FSL 2047 FWL		SESW	11	9.0 S	16.0 E	S
<b>Top of Uppermost Producing Zone</b>		1216 FSL 2605 FEL		SWSE	11	9.0 S	16.0 E	S
<b>At Total Depth</b>		1383 FSL 2303 FEL		NWSE	11	9.0 S	16.0 E	S
<b>21. COUNTY</b> DUCHESNE			<b>22. DISTANCE TO NEAREST LEASE LINE (Feet)</b> 63			<b>23. NUMBER OF ACRES IN DRILLING UNIT</b> 20		
			<b>25. DISTANCE TO NEAREST WELL IN SAME POOL (Applied For Drilling or Completed)</b> 1840			<b>26. PROPOSED DEPTH</b> MD: 6162 TVD: 6162		
<b>27. ELEVATION - GROUND LEVEL</b> 5570			<b>28. BOND NUMBER</b> WYB000493			<b>29. SOURCE OF DRILLING WATER / WATER RIGHTS APPROVAL NUMBER IF APPLICABLE</b> 437478		
<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> 01/11/2011			<b>EMAIL</b> mcrozier@newfield.com		
<b>API NUMBER ASSIGNED</b> 43013505790000			<b>APPROVAL</b>			 Permit Manager		

<b>Proposed Hole, Casing, and Cement</b>						
<b>String</b>	<b>Hole Size</b>	<b>Casing Size</b>	<b>Top (MD)</b>	<b>Bottom (MD)</b>		
Prod	7.875	5.5	0	6162		
<b>Pipe</b>	<b>Grade</b>	<b>Length</b>	<b>Weight</b>			
	Grade J-55 LT&C	6162	15.5			

<b>Proposed Hole, Casing, and Cement</b>						
<b>String</b>	<b>Hole Size</b>	<b>Casing Size</b>	<b>Top (MD)</b>	<b>Bottom (MD)</b>		
Surf	12.25	8.625	0	300		
<b>Pipe</b>	<b>Grade</b>	<b>Length</b>	<b>Weight</b>			
	Grade J-55 ST&C	300	24.0			

NEWFIELD PRODUCTION COMPANY  
GREATER MONUMENT BUTTE R-11-9-16  
AT SURFACE: SE/SW SECTION 11, 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' – 1460'
Green River	1460'
Wasatch	6030'
<b>Proposed TD</b>	<b>6162'</b>

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

Green River Formation (Oil) 1460' – 6030'

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: Greater Monument Butte R-11-9-16**

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	1,370	244,000
						17.53	14.35	33.89
Prod casing 5-1/2"	0'	6,162'	15.5	J-55	LTC	4,810	4,040	217,000
						2.45	2.06	2.27

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: Greater Monument Butte R-11-9-16**

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	4,162'	Prem Lite II w/ 10% gel + 3% KCl	288	30%	11.0	3.26
			937			
Prod casing Tail	2,000'	50/50 Poz w/ 2% gel + 3% KCl	363	30%	14.3	1.24
			451			

- \*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 ±350 feet will be drilled with an air/mist system. The air rig is equipped with a 6 ½" 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 ±350 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 PBDT to cement top. No drill stem testing or coring is planned for this well.

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

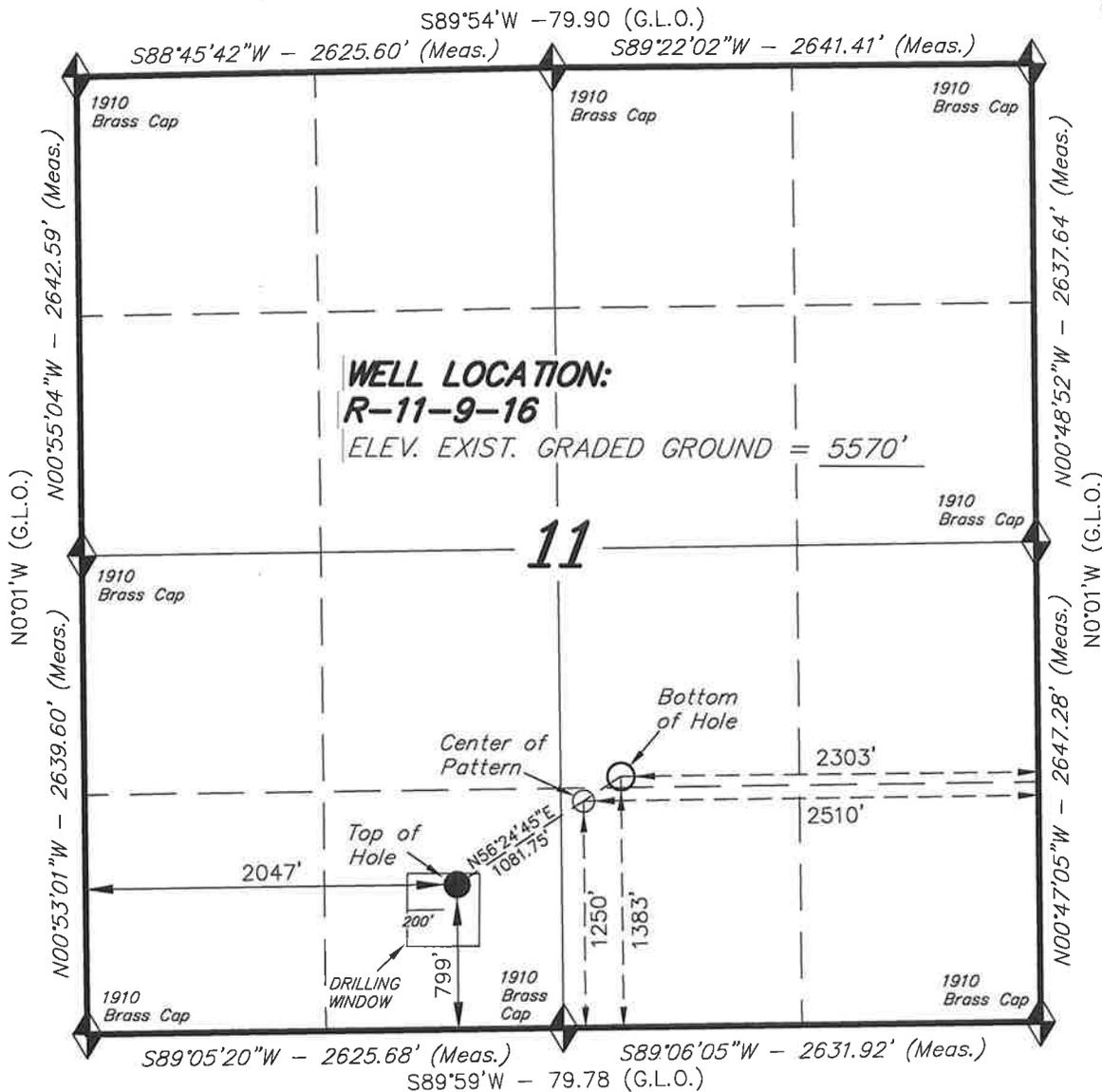
No abnormal temperatures or pressures are anticipated. No hydrogen sulfide has been encountered or is known to exist from previous drilling in the area at this depth. Maximum anticipated bottomhole pressure will approximately equal total depth in feet multiplied by a 0.433 psi/foot gradient.

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

It is anticipated that the drilling operations will commence the second quarter of 2011, and take approximately seven (7) days from spud to rig release.

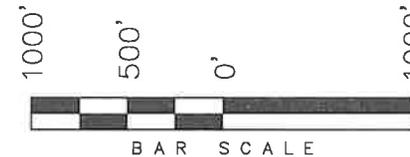
# T9S, R16E, S.L.B.&M.

## NEWFIELD EXPLORATION COMPANY



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

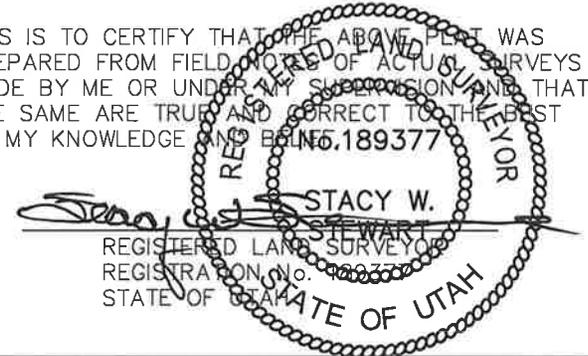
TARGET BOTTOM HOLE, R-11-9-16, LOCATED AS SHOWN IN THE NW 1/4 SE 1/4 OF SECTION 11, T9S, R16E, S.L.B.&M. DUCHESNE COUNTY, UTAH.



**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 PLAN 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 base on LOCATION: an N.G.S. OPUS Correction. LAT. 40°04'09.56" LONG. 110°00'43.28" (Tristate Aluminum Cap) Elev. 5281.57'

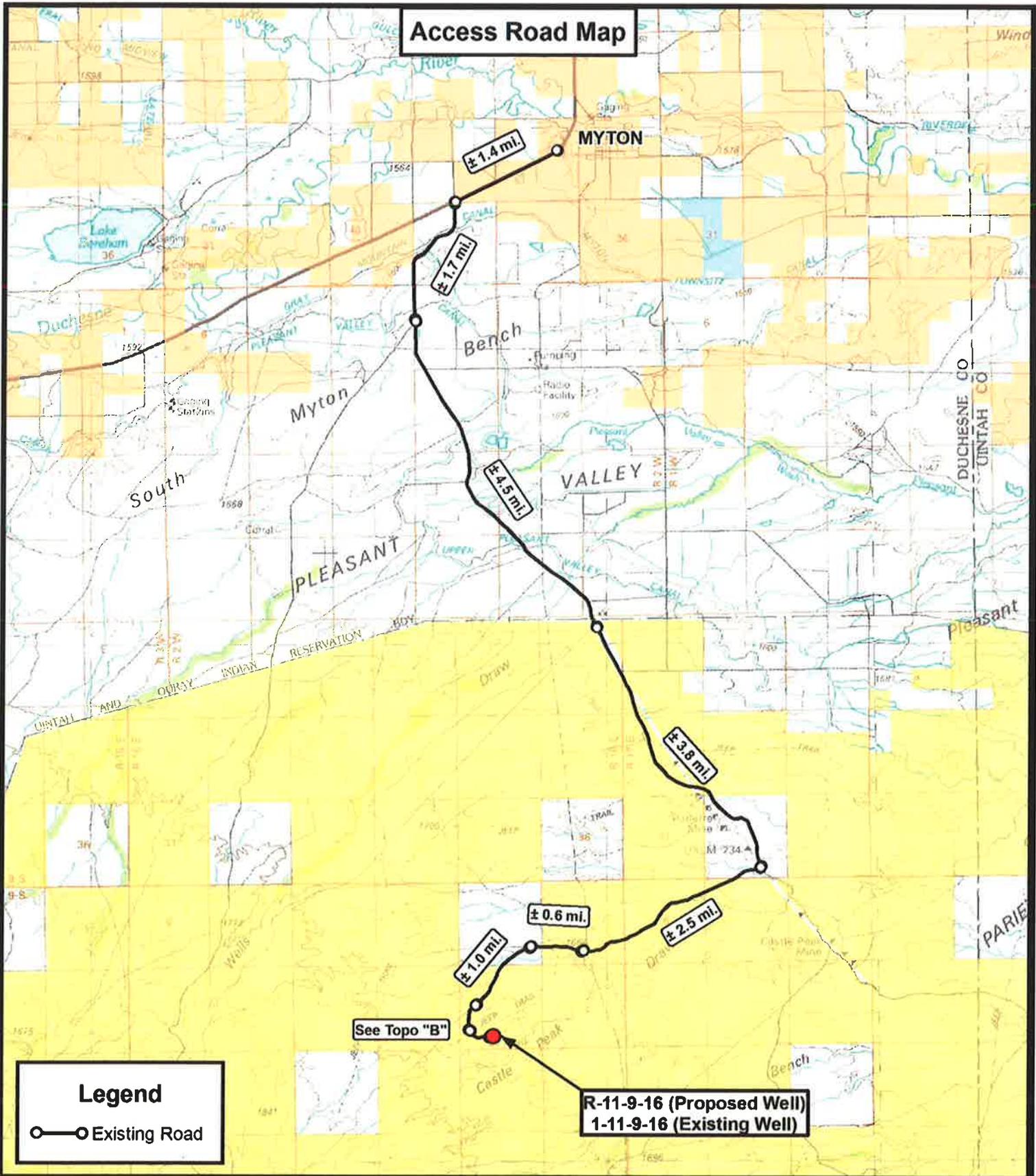
**R-11-9-16**  
 (Surface Location) NAD 83  
 LATITUDE = 40° 02' 25.04"  
 LONGITUDE = 110° 05' 19.28"

**TRI STATE LAND SURVEYING & CONSULTING**

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

DATE SURVEYED: 06-16-10	SURVEYED BY: D.G.
DATE DRAWN: 06-18-10	DRAWN BY: F.T.M.
REVISED: 11-03-10 - M.W.	SCALE: 1" = 1000'

**Access Road Map**



**Legend**  
 ○—○ Existing Road

See Topo "B"

**R-11-9-16 (Proposed Well)**  
**1-11-9-16 (Existing Well)**

**Tri State Land Surveying, Inc.**  
 180 NORTH VERNAL AVE. VERNAL, UTAH 84078  
 P: (435) 781-2501  
 F: (435) 781-2518



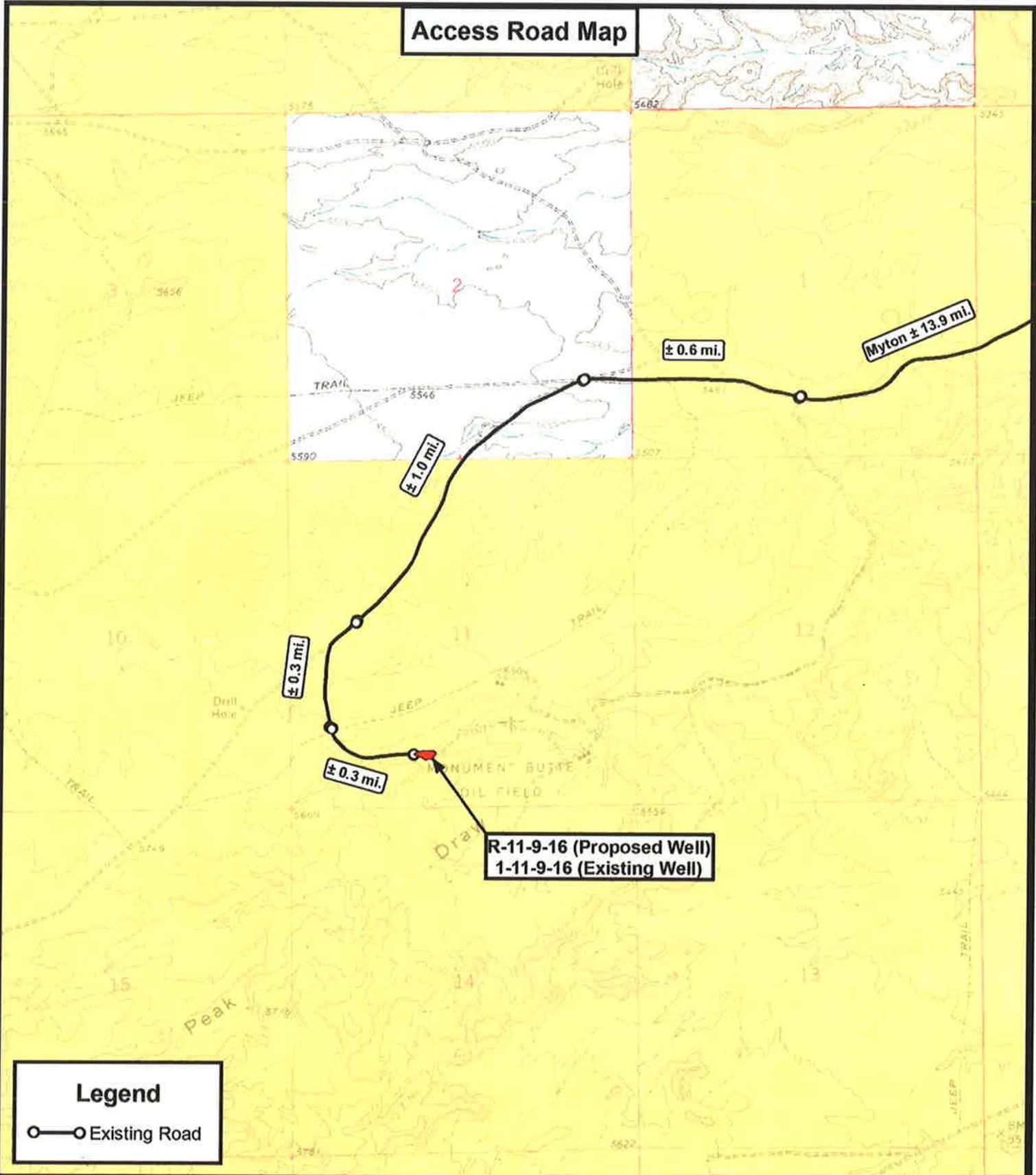
**NEWFIELD EXPLORATION COMPANY**  
 R-11-9-16 (Proposed Well)  
 1-11-9-16 (Existing Well)  
 SEC. 11, T9S, R16E, S.L.B.&M.  
 Duchesne County, UT.

DRAWN BY:	C.H.M.	REVISED:	11-04-2010
DATE:	06-18-2010		
SCALE:	1:100,000		

**TOPOGRAPHIC MAP**

SHEET  
**A**

### Access Road Map



**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

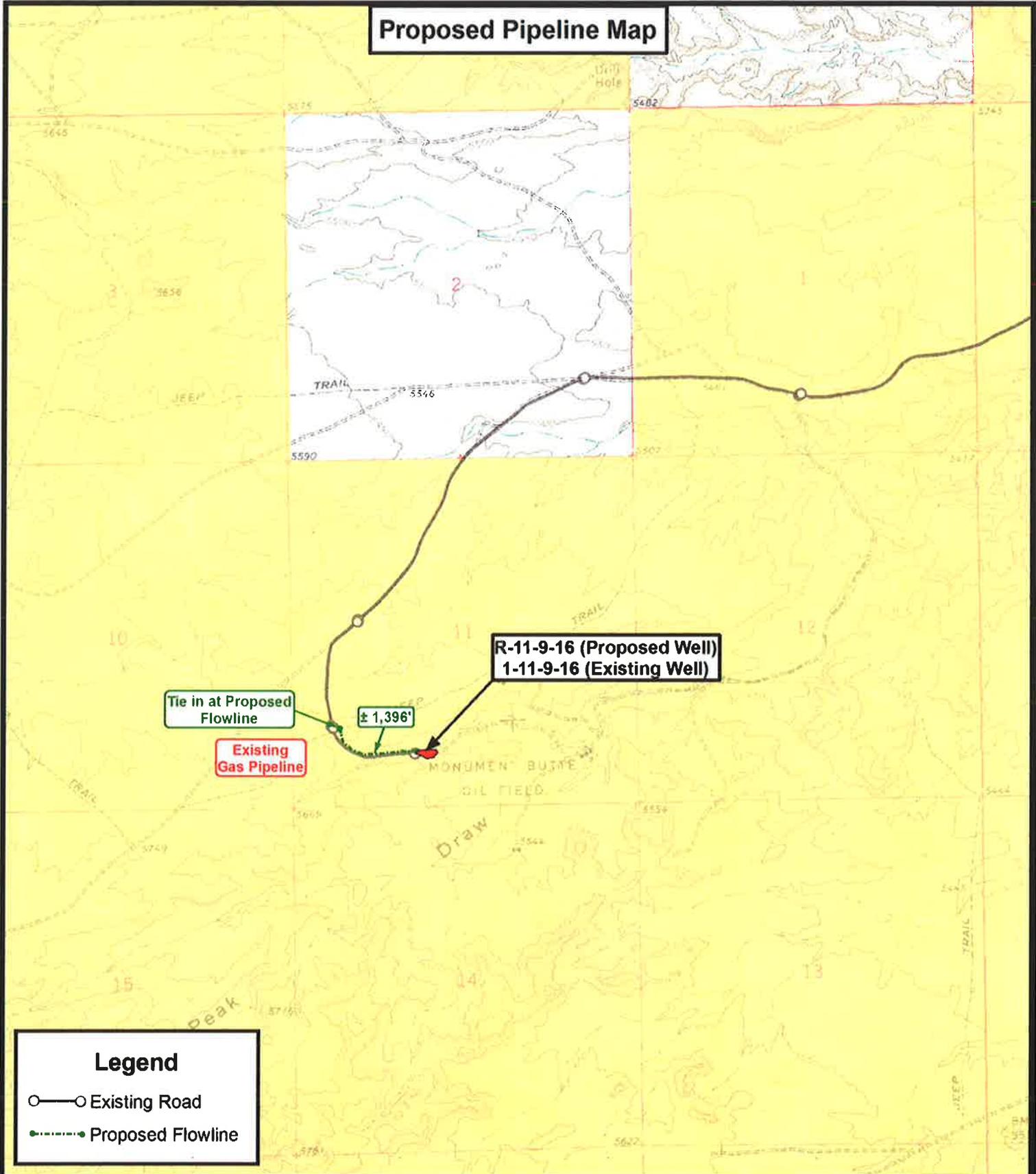
R-11-9-16 (Proposed Well)  
 1-11-9-16 (Existing Well)  
 SEC. 11, T9S, R16E, S.L.B.&M.  
 Duchesne County, UT.

DRAWN BY:	C.H.M.	REVISED:	11-04-2010
DATE:	06-18-2010		
SCALE:	1" = 2,000'		

### TOPOGRAPHIC MAP

SHEET  
**B**

**Proposed Pipeline Map**



Tie in at Proposed Flowline

Existing Gas Pipeline

± 1,396'

R-11-9-16 (Proposed Well)  
1-11-9-16 (Existing Well)

**Legend**

- Existing Road
- - - - - Proposed Flowline



**Tri State  
Land Surveying, Inc.**

180 NORTH VERNAL AVE. VERNAL, UTAH 84078

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



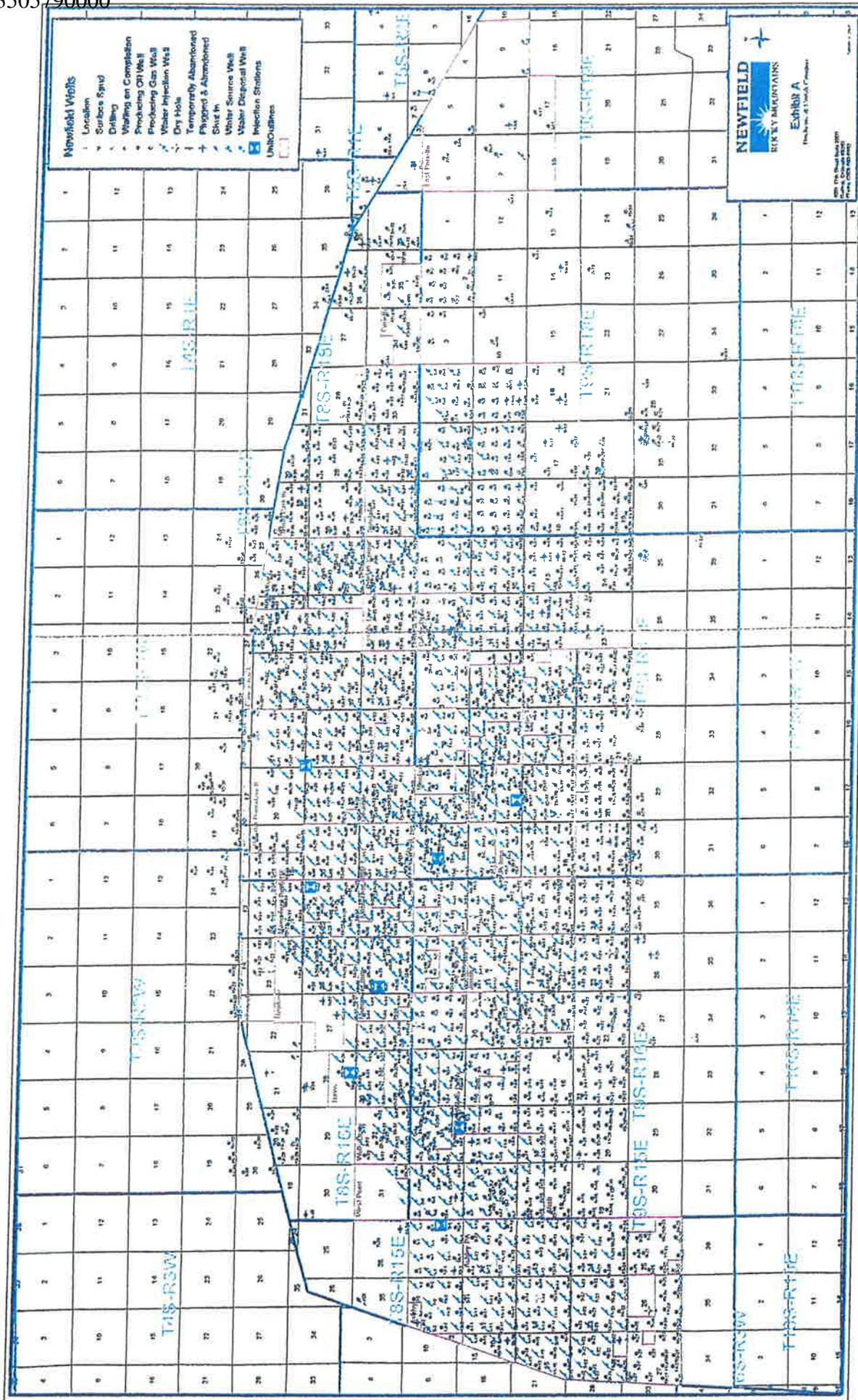
**NEWFIELD EXPLORATION COMPANY**

R-11-9-16 (Proposed Well)  
1-11-9-16 (Existing Well)  
SEC. 11, T9S, R16E, S.L.B.&M.  
Duchesne County, UT.

DRAWN BY:	C.H.M.	REVISED:	08-05-2010
DATE:	06-18-2010	REVISED:	11-04-2010
SCALE:	1" = 2,000'		

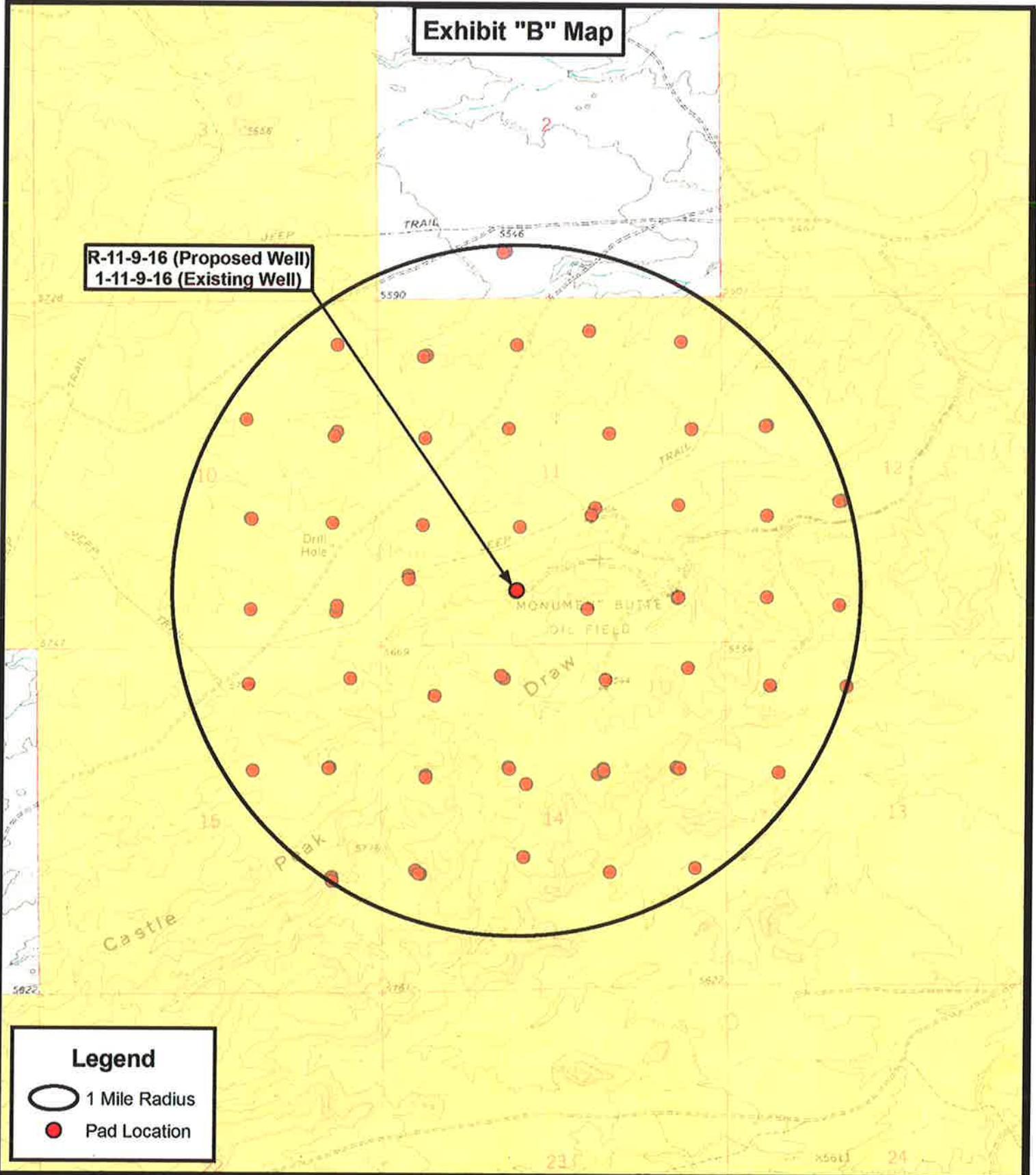
**TOPOGRAPHIC MAP**

SHEET  
**C**



**Exhibit "B" Map**

**R-11-9-16 (Proposed Well)**  
**1-11-9-16 (Existing Well)**



**Legend**

-  1 Mile Radius
-  Pad Location

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



**NEWFIELD EXPLORATION COMPANY**

**R-11-9-16 (Proposed Well)**  
**1-11-9-16 (Existing Well)**  
**SEC. 11, T9S, R16E, S.L.B.&M.**  
**Duchesne County, UT.**

DRAWN BY:	C.H.M.	REVISED:	11-04-2010
DATE:	06-18-2010		
SCALE:	1" = 2,000'		

**TOPOGRAPHIC MAP**

SHEET  
**D**

**NEWFIELD**



## **NEWFIELD EXPLORATION**

**USGS Myton SW (UT)**

**SECTION 11**

**R-11-9-16**

**Wellbore #1**

**Plan: Design #1**

## **Standard Planning Report**

**02 November, 2010**



**PayZone Directional Services, LLC.**  
**Planning Report**



<b>Database:</b>	EDM 2003.21 Single User Db	<b>Local Co-ordinate Reference:</b>	Well R-11-9-16
<b>Company:</b>	NEWFIELD EXPLORATION	<b>TVD Reference:</b>	R-11-9-16 @ 5782.0ft (Original Well Elev)
<b>Project:</b>	USGS Myton SW (UT)	<b>MD Reference:</b>	R-11-9-16 @ 5782.0ft (Original Well Elev)
<b>Site:</b>	SECTION 11	<b>North Reference:</b>	True
<b>Well:</b>	R-11-9-16	<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 11				
<b>Site Position:</b>		<b>Northing:</b>	7,188,670.03 ft	<b>Latitude:</b>	40° 2' 46.225 N
<b>From:</b>	Lat/Long	<b>Easting:</b>	2,036,157.78 ft	<b>Longitude:</b>	110° 5' 10.739 W
<b>Position Uncertainty:</b>	0.0 ft	<b>Slot Radius:</b>	"	<b>Grid Convergence:</b>	0.91 °

<b>Well</b>	R-11-9-16, SHL LAT: 40° 02' 25.04, LONG: 110° 05' 19.28					
<b>Well Position</b>	<b>+N-S</b>	-2,143.6 ft	<b>Northing:</b>	7,186,516.21 ft	<b>Latitude:</b>	40° 2' 25.040 N
	<b>+E-W</b>	-664.2 ft	<b>Easting:</b>	2,035,527.51 ft	<b>Longitude:</b>	110° 5' 19.280 W
<b>Position Uncertainty</b>		0.0 ft	<b>Wellhead Elevation:</b>	5,782.0 ft	<b>Ground Level:</b>	5,770.0 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	2010/11/02	11.40	65.80	52,323

<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>
	4,900.0	0.0	0.0	56.41

Plan Sections										
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	
1,406.8	12.10	56.41	1,400.8	47.0	70.7	1.50	1.50	0.00	56.41	
4,985.5	12.10	56.41	4,900.0	462.0	695.7	0.00	0.00	0.00	0.00	R-11-9-16 TGT
6,161.7	12.10	56.41	6,050.0	598.5	901.1	0.00	0.00	0.00	0.00	



**PayZone Directional Services, LLC.**  
**Planning Report**



<b>Database:</b>	EDM 2003.21 Single User Db	<b>Local Co-ordinate Reference:</b>	Well R-11-9-16
<b>Company:</b>	NEWFIELD EXPLORATION	<b>TVD Reference:</b>	R-11-9-16 @ 5782.0ft (Original Well Elev)
<b>Project:</b>	USGS Myton SW (UT)	<b>MD Reference:</b>	R-11-9-16 @ 5782.0ft (Original Well Elev)
<b>Site:</b>	SECTION 11	<b>North Reference:</b>	True
<b>Well:</b>	R-11-9-16	<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	56.41	700.0	0.7	1.1	1.3	1.50	1.50	0.00
800.0	3.00	56.41	799.9	2.9	4.4	5.2	1.50	1.50	0.00
900.0	4.50	56.41	899.7	6.5	9.8	11.8	1.50	1.50	0.00
1,000.0	6.00	56.41	999.3	11.6	17.4	20.9	1.50	1.50	0.00
1,100.0	7.50	56.41	1,098.6	18.1	27.2	32.7	1.50	1.50	0.00
1,200.0	9.00	56.41	1,197.5	26.0	39.2	47.0	1.50	1.50	0.00
1,300.0	10.50	56.41	1,296.1	35.4	53.3	64.0	1.50	1.50	0.00
1,406.8	12.10	56.41	1,400.8	47.0	70.7	84.9	1.50	1.50	0.00
1,500.0	12.10	56.41	1,491.9	57.8	87.0	104.4	0.00	0.00	0.00
1,600.0	12.10	56.41	1,589.7	69.4	104.5	125.4	0.00	0.00	0.00
1,700.0	12.10	56.41	1,687.5	81.0	121.9	146.4	0.00	0.00	0.00
1,800.0	12.10	56.41	1,785.3	92.6	139.4	167.3	0.00	0.00	0.00
1,900.0	12.10	56.41	1,883.1	104.2	156.8	188.3	0.00	0.00	0.00
2,000.0	12.10	56.41	1,980.8	115.8	174.3	209.3	0.00	0.00	0.00
2,100.0	12.10	56.41	2,078.6	127.4	191.8	230.2	0.00	0.00	0.00
2,200.0	12.10	56.41	2,176.4	139.0	209.2	251.2	0.00	0.00	0.00
2,300.0	12.10	56.41	2,274.2	150.6	226.7	272.1	0.00	0.00	0.00
2,400.0	12.10	56.41	2,371.9	162.2	244.2	293.1	0.00	0.00	0.00
2,500.0	12.10	56.41	2,469.7	173.8	261.6	314.1	0.00	0.00	0.00
2,600.0	12.10	56.41	2,567.5	185.4	279.1	335.0	0.00	0.00	0.00
2,700.0	12.10	56.41	2,665.3	197.0	296.6	356.0	0.00	0.00	0.00
2,800.0	12.10	56.41	2,763.1	208.6	314.0	377.0	0.00	0.00	0.00
2,900.0	12.10	56.41	2,860.8	220.2	331.5	397.9	0.00	0.00	0.00
3,000.0	12.10	56.41	2,958.6	231.8	349.0	418.9	0.00	0.00	0.00
3,100.0	12.10	56.41	3,056.4	243.4	366.4	439.9	0.00	0.00	0.00
3,200.0	12.10	56.41	3,154.2	255.0	383.9	460.8	0.00	0.00	0.00
3,300.0	12.10	56.41	3,251.9	266.6	401.3	481.8	0.00	0.00	0.00
3,400.0	12.10	56.41	3,349.7	278.1	418.8	502.8	0.00	0.00	0.00
3,500.0	12.10	56.41	3,447.5	289.7	436.3	523.7	0.00	0.00	0.00
3,600.0	12.10	56.41	3,545.3	301.3	453.7	544.7	0.00	0.00	0.00
3,700.0	12.10	56.41	3,643.1	312.9	471.2	565.7	0.00	0.00	0.00
3,800.0	12.10	56.41	3,740.8	324.5	488.7	586.6	0.00	0.00	0.00
3,900.0	12.10	56.41	3,838.6	336.1	506.1	607.6	0.00	0.00	0.00
4,000.0	12.10	56.41	3,936.4	347.7	523.6	628.5	0.00	0.00	0.00
4,100.0	12.10	56.41	4,034.2	359.3	541.1	649.5	0.00	0.00	0.00
4,200.0	12.10	56.41	4,131.9	370.9	558.5	670.5	0.00	0.00	0.00
4,300.0	12.10	56.41	4,229.7	382.5	576.0	691.4	0.00	0.00	0.00
4,400.0	12.10	56.41	4,327.5	394.1	593.4	712.4	0.00	0.00	0.00
4,500.0	12.10	56.41	4,425.3	405.7	610.9	733.4	0.00	0.00	0.00
4,600.0	12.10	56.41	4,523.1	417.3	628.4	754.3	0.00	0.00	0.00
4,700.0	12.10	56.41	4,620.8	428.9	645.8	775.3	0.00	0.00	0.00
4,800.0	12.10	56.41	4,718.6	440.5	663.3	796.3	0.00	0.00	0.00
4,900.0	12.10	56.41	4,816.4	452.1	680.8	817.2	0.00	0.00	0.00
4,985.5	12.10	56.41	4,900.0	462.0	695.7	835.2	0.00	0.00	0.00
<b>R-11-9-16 TGT</b>									
5,000.0	12.10	56.41	4,914.2	463.7	698.2	838.2	0.00	0.00	0.00
5,100.0	12.10	56.41	5,011.9	475.3	715.7	859.2	0.00	0.00	0.00



**PayZone Directional Services, LLC.**  
 Planning Report



**Database:** EDM 2003.21 Single User Db  
**Company:** NEWFIELD EXPLORATION  
**Project:** USGS Myton SW (UT)  
**Site:** SECTION 11  
**Well:** R-11-9-16  
**Wellbore:** Wellbore #1  
**Design:** Design #1

**Local Co-ordinate Reference:** Well R-11-9-16  
**TVD Reference:** R-11-9-16 @ 5782.0ft (Original Well Elev)  
**MD Reference:** R-11-9-16 @ 5782.0ft (Original Well Elev)  
**North Reference:** True  
**Survey Calculation Method:** Minimum Curvature

**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)
5,200.0	12.10	56.41	5,109.7	486.9	733.2	880.1	0.00	0.00	0.00
5,300.0	12.10	56.41	5,207.5	498.5	750.6	901.1	0.00	0.00	0.00
5,400.0	12.10	56.41	5,305.3	510.1	768.1	922.1	0.00	0.00	0.00
5,500.0	12.10	56.41	5,403.1	521.7	785.6	943.0	0.00	0.00	0.00
5,600.0	12.10	56.41	5,500.8	533.3	803.0	964.0	0.00	0.00	0.00
5,700.0	12.10	56.41	5,598.6	544.9	820.5	985.0	0.00	0.00	0.00
5,800.0	12.10	56.41	5,696.4	556.5	837.9	1,005.9	0.00	0.00	0.00
5,900.0	12.10	56.41	5,794.2	568.1	855.4	1,026.9	0.00	0.00	0.00
6,000.0	12.10	56.41	5,891.9	579.7	872.9	1,047.8	0.00	0.00	0.00
6,100.0	12.10	56.41	5,989.7	591.3	890.3	1,068.8	0.00	0.00	0.00
6,161.7	12.10	56.41	6,050.0	598.5	901.1	1,081.7	0.00	0.00	0.00

**Targets**

Target Name - hit/miss target - Shape	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (ft)	Easting (ft)	Latitude	Longitude
R-11-9-16 TGT - plan hits target - Circle (radius 75.0)	0.00	0.00	4,900.0	462.0	695.7	7,186,989.18	2,036,215.84	40° 2' 29.606 N	110° 5' 10.334 W



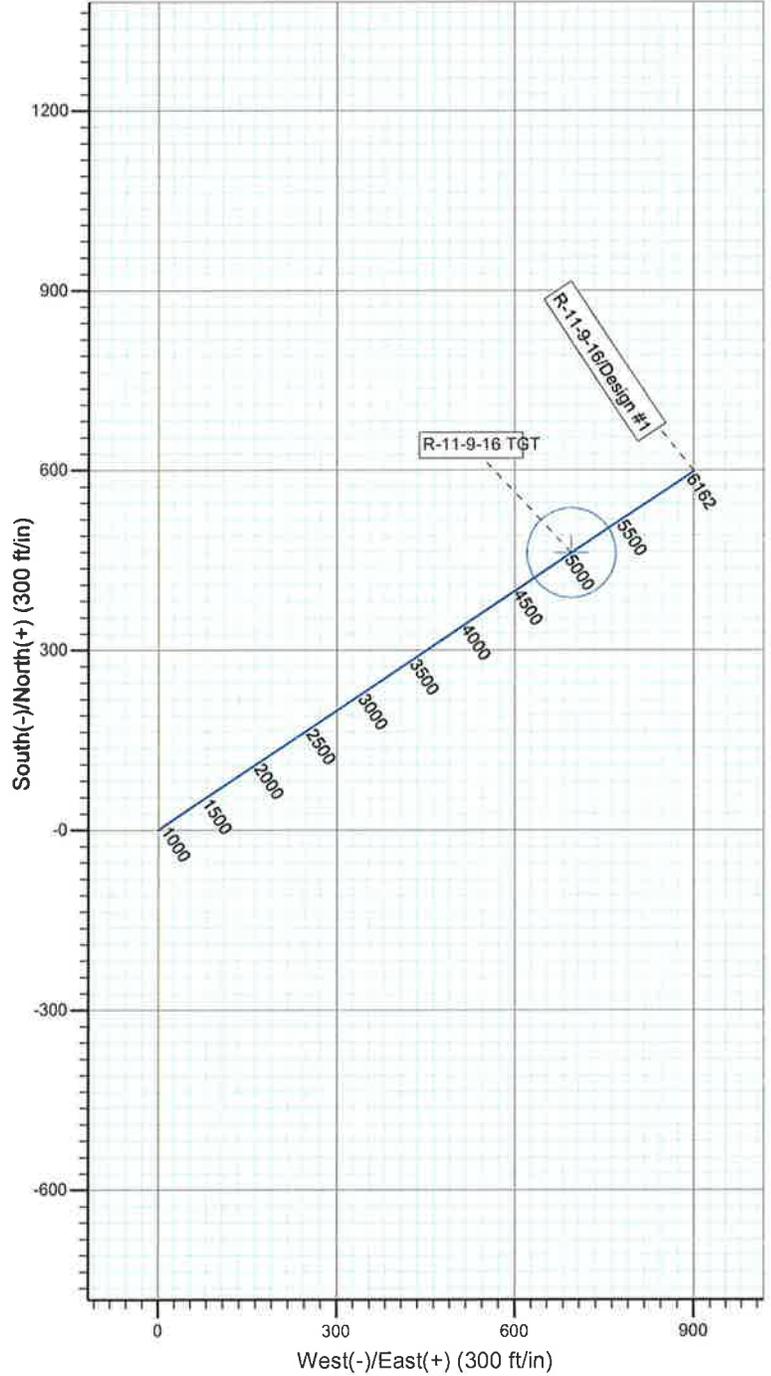
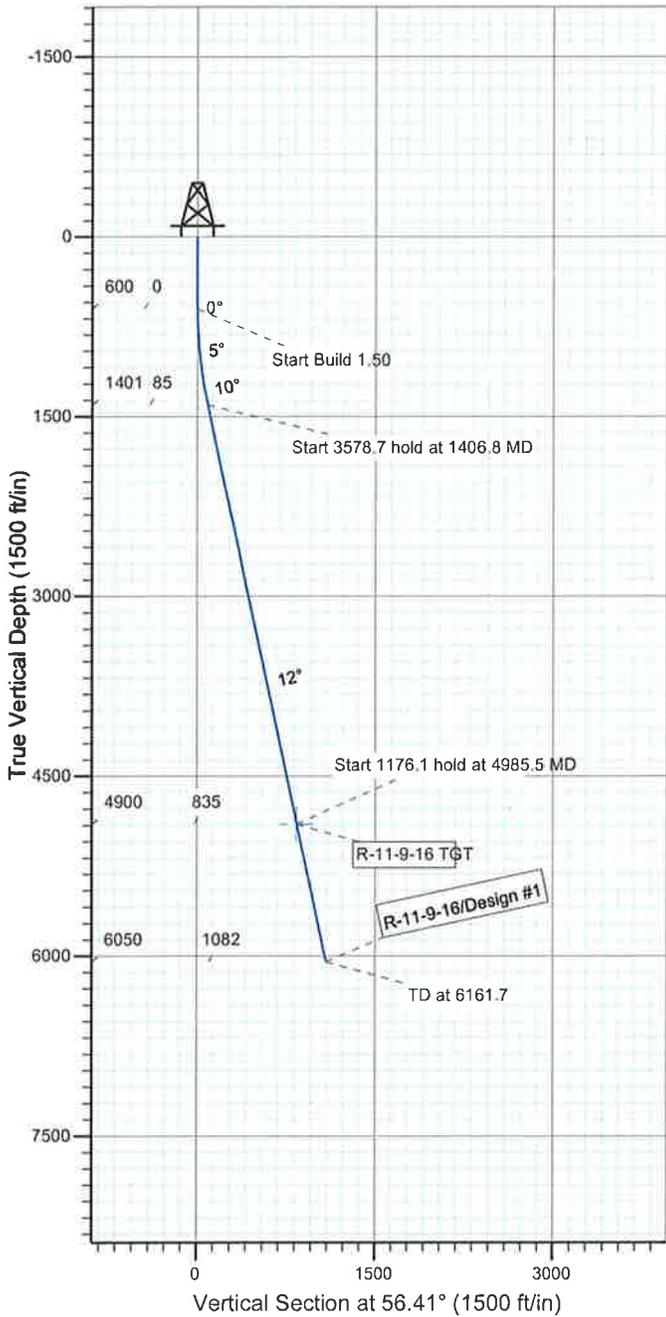
Project: USGS Myton SW (UT)  
 Site: SECTION 11  
 Well: R-11-9-16  
 Wellbore: Wellbore #1  
 Design: Design #1



Azimuths to True North  
 Magnetic North: 11.40°

Magnetic Field  
 Strength: 52322.9snT  
 Dip Angle: 65.80°  
 Date: 2010/11/02  
 Model: IGRF2010

KOP @ 600'  
 DOGLEG RATE 1.5 DEG/100'  
 TARGET RADIUS IS 75'



WELLBORE TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Shape
R-11-9-16 TGT	4900.0	462.0	695.7	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	1406.8	12.10	56.41	1400.8	47.0	70.7	1.50	56.41	84.9	
4	4985.5	12.10	56.41	4900.0	462.0	695.7	0.00	0.00	835.2	R-11-9-16 TGT
5	6161.7	12.10	56.41	6050.0	598.5	901.1	0.00	0.00	1081.7	



**NEWFIELD PRODUCTION COMPANY  
GREATER MONUMENT BUTTE R-11-9-16  
AT SURFACE: SE/SW SECTION 11, 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 Greater Monument Butte R-11-9-16 located in the SE 1/4 SW 1/4 Section 11, T9S, R16E, Duchesne County, Utah:

Proceed southwesterly out of Myton, Utah along Highway 40 – 1.4 miles ± to the junction of this highway and UT State Hwy 53; proceed southeasterly – 10.0 miles ± to it's junction with an existing road to the southwest; proceed in a southwesterly direction - 4.4 miles ± to it's junction with an existing road to the southeast; proceed southeasterly – 0.3 miles ± to the existing Goates 1-11-9-16 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 Goates 1-11-9-16 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 : 43-10136

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

All pits will be fenced according to the following minimum standards:

- a) A 39-inch net wire shall be used with at least one strand of barbed wire on top of the net.
- b) The net wire shall be no more than two (2) inches above the ground. The barbed wire shall be three (3) inches above the net wire. Total height of the fence shall be at least forty-two (42) inches.
- c) Corner posts shall be centered and/or braced in such a manner to keep tight at all times
- d) 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.
- e) All wire shall be stretched, by using a stretching device, before it is attached to the corner posts.

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 #10-148, 10/4/10. Paleontological Resource Survey prepared by, Wade E. Miller, 9/27/10. See attached report cover pages, Exhibit "D".

#### **Surface Flow Line**

Newfield requests 1,396' of surface flow line be granted. The Surface Flow Line will consist of up to a 14" bundled pipe consisting of 2-2" poly glycol lines and 1-3" production line. For all new wells, Newfield. **Refer to Topographic Map "D"** for the proposed location of the proposed flow line. Flow lines will be tan and will be constructed using the following procedures:

Clearing and Grading: No clearing or grading of the ROW will be required. The centerline of the proposed route will be staked prior to installation. Flow lines shall be placed as close to existing roads as possible without interfering with normal road travel or road maintenance activities. Due to the proximity of existing facilities, no temporary use or construction/storage areas are anticipated. If necessary, temporary use or construction/storage areas will be identified on a topographic map included in the approved permit.

Installation: The proposed flow lines will be installed 4-6" above the ground. For portions along existing two-track and primary access roads, lengths of pipe will be strung out in the borrow ditch, welded together, and rolled or dragged into place with heavy equipment. For pipelines that are installed cross-country (not along existing or proposed roads), travel along the lines will be infrequent and for maintenance needs only. No installation activities will be performed during periods when the soil is too wet to adequately support installation equipment. If such equipment creates ruts in excess of three (3) inches deep, the soil will be deemed too wet to adequately support the equipment.

#### **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.

#### **Details of the On-Site Inspection**

The proposed Greater Monument Butte R-11-9-16 was on-sited on 12/13/10. The following were present; Tim Eaton (Newfield Production and Janna Simonsen (Bureau of Land Management).

#### **Hazardous Material Declaration**

Newfield Production Company guarantees that during the drilling and completion of the Greater Monument Butte R-11-9-16, 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 Greater Monument Butte R-11-9-16, 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: Tim Eaton  
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 #R-11-9-16, Section 11, Township 9S, Range 16E: Lease UTU-096547 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.

1/7/11  
Date

  
Mandie Crozier  
Regulatory Specialist  
Newfield Production Company

# 2-M SYSTEM

Blowout Prevention Equipment Systems

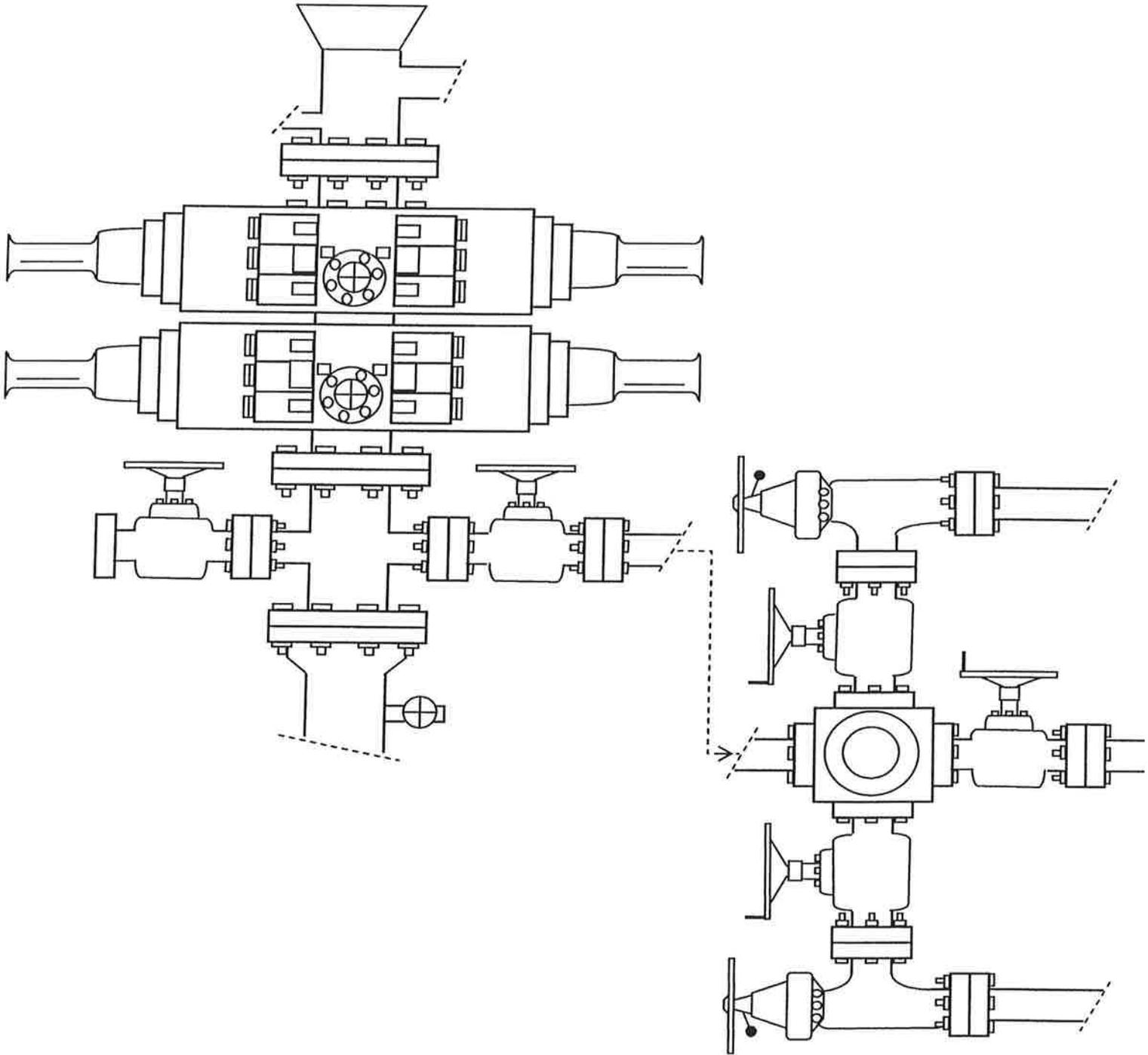


EXHIBIT C

# United States Department of the Interior

## BUREAU OF LAND MANAGEMENT

Utah State Office

P.O. Box 45155

Salt Lake City, Utah 84145-0155

**IN REPLY REFER TO:**

**3160**

**(UT-922)**

January 13, 2011

Memorandum

To: Assistant District Manager Minerals, Vernal District

From: Michael Coulthard, Petroleum Engineer

Subject: 2011 Plan of Development Greater Monument  
Butte Unit, Duchesne and Uintah Counties,  
Utah.

Pursuant to email between Diana Whitney, Division of Oil, Gas and Mining, and Mickey Coulthard, Utah State Office, Bureau of Land Management, the following wells are planned for calendar year 2011 within the Greater Monument Butte Unit, Duchesne and Uintah Counties, Utah.

API#	WELL NAME	LOCATION
(Proposed PZ GREEN RIVER)		
43-047-51479	GMBU I-23-8-17	Sec 23 T08S R17E 0442 FNL 2172 FEL BHL Sec 23 T08S R17E 1151 FNL 1328 FEL
43-047-51480	GMBU L-23-8-17	Sec 23 T08S R17E 1580 FNL 2045 FEL BHL Sec 23 T08S R17E 2163 FNL 1384 FEL
43-047-51481	GMBU S-23-8-17	Sec 23 T08S R17E 2114 FSL 0823 FEL BHL Sec 23 T08S R17E 1100 FSL 1449 FEL
43-047-51482	GMBU K-23-8-17	Sec 23 T08S R17E 2135 FSL 0818 FEL BHL Sec 23 T08S R17E 1817 FNL 0286 FEL
43-013-50576	GMBU M-30-8-17	Sec 30 T08S R17E 1999 FNL 1991 FEL BHL Sec 30 T08S R17E 2548 FSL 2393 FWL
43-013-50577	GMBU M-11-9-16	Sec 11 T09S R16E 1825 FSL 2167 FWL BHL Sec 11 T09S R16E 2236 FNL 2482 FEL
43-013-50578	GMBU N-11-9-16	Sec 11 T09S R16E 1806 FSL 2158 FWL BHL Sec 11 T09S R16E 2604 FNL 1158 FWL
43-013-50579	GMBU R-11-9-16	Sec 11 T09S R16E 0799 FSL 2047 FWL BHL Sec 11 T09S R16E 1383 FSL 2303 FEL

API#	WELL NAME	LOCATION
(Proposed PZ GREEN RIVER)		
43-013-50580	GMBU B-14-9-16	Sec 11 T09S R16E 0730 FSL 0731 FEL BHL Sec 14 T09S R16E 0248 FNL 1467 FEL
43-013-50581	GMBU R-6-9-17	Sec 06 T09S R17E 1108 FSL 2123 FWL BHL Sec 06 T09S R17E 1775 FSL 2379 FEL

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

Michael L. Coulthard

Digitally signed by Michael L. Coulthard  
DN: cn=Michael L. Coulthard, o=Bureau of Land Management, ou=Branch of Minerals,  
email=Michael\_Coulthard@blm.gov, c=US  
Date: 2011.01.13 11:01:09 -07'00'

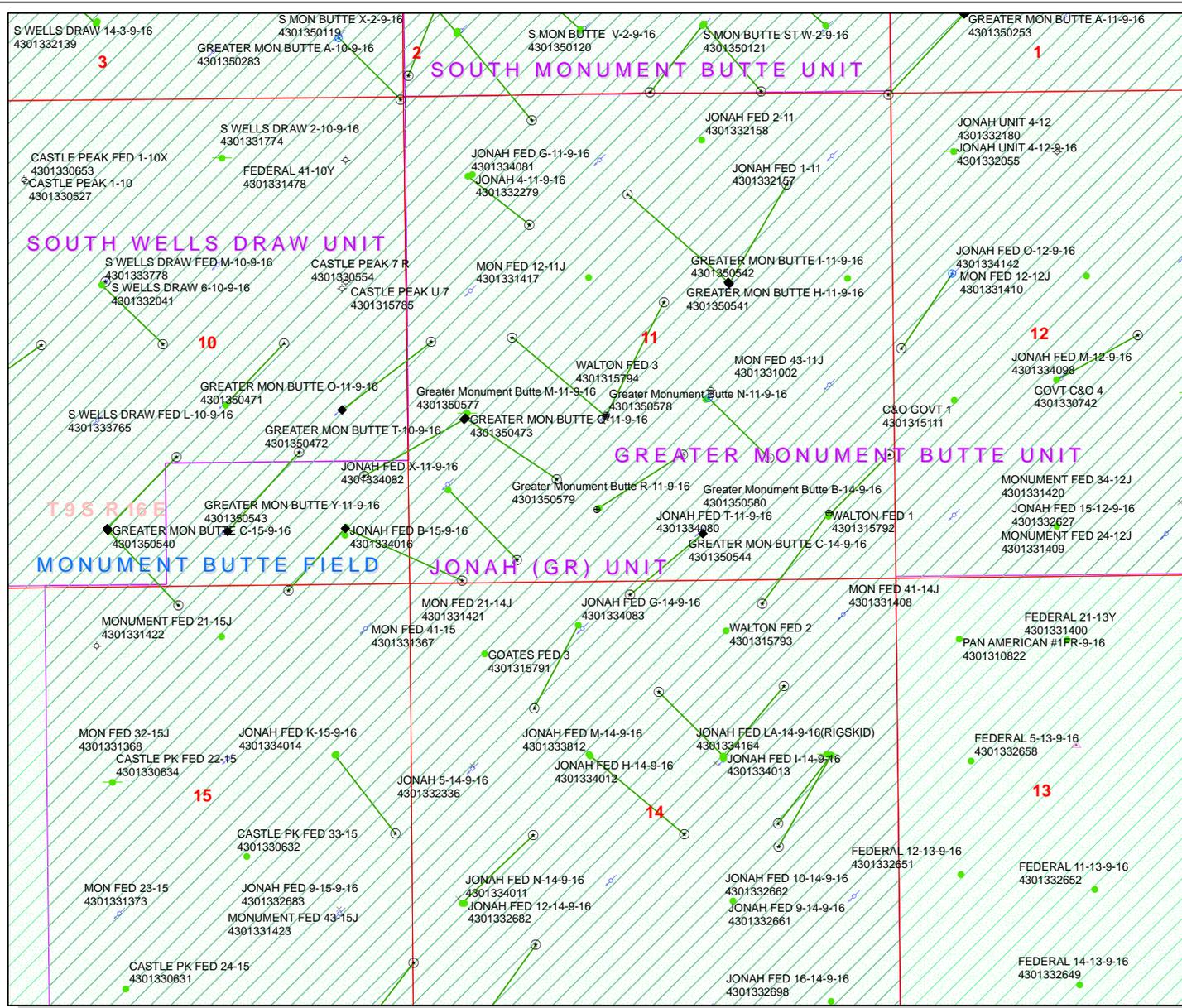
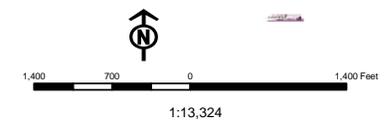
bcc: File - Greater Monument Butte Unit  
Division of Oil Gas and Mining  
Central Files  
Agr. Sec. Chron  
Fluid Chron

MCoulthard:mc:1-13-11

**API Number: 4301350579**  
**Well Name: Greater Monument Butte R-11-9-16**  
 Township 09.0 S Range 16.0 E Section 11  
 Meridian: SLBM  
 Operator: NEWFIELD PRODUCTION COMPANY

Map Prepared:  
 Map Produced by Diana Mason

- |               |                                    |
|---------------|------------------------------------|
| <b>Units</b>  | <b>Wells Query</b>                 |
| <b>STATUS</b> | <b>Status</b>                      |
| ACTIVE        | APD - Approved Permit              |
| EXPLORATORY   | DRL - Spudded (Drilling Commenced) |
| GAS STORAGE   | GIW - Gas Injection                |
| NF PP OIL     | GS - Gas Storage                   |
| NF SECONDARY  | LA - Location Abandoned            |
| PI OIL        | LOC - New Location                 |
| PP GAS        | OPS - Operation Suspended          |
| PP GEOTHERM   | PA - Plugged Abandoned             |
| PP OIL        | PGW - Producing Gas Well           |
| SECONDARY     | POW - Producing Oil Well           |
| TERMINATED    | RET - Returned APD                 |
| <b>Fields</b> | SGW - Shut-in Gas Well             |
| Unknown       | SOW - Shut-in Oil Well             |
| ABANDONED     | TA - Temp. Abandoned               |
| ACTIVE        | TW - Test Well                     |
| COMBINED      | WDW - Water Disposal               |
| INACTIVE      | WIW - Water Injection Well         |
| STORAGE       | WSW - Water Supply Well            |
| TERMINATED    |                                    |
| Sections      |                                    |
| Township      |                                    |



# United States Department of the Interior

## BUREAU OF LAND MANAGEMENT

Utah State Office

P.O. Box 45155

Salt Lake City, Utah 84145-0155

**IN REPLY REFER TO:**

**3160**

**(UT-922)**

January 13, 2011

Memorandum

To: Assistant District Manager Minerals, Vernal District

From: Michael Coulthard, Petroleum Engineer

Subject: 2011 Plan of Development Greater Monument  
Butte Unit, Duchesne and Uintah Counties,  
Utah.

Pursuant to email between Diana Whitney, Division of Oil, Gas and Mining, and Mickey Coulthard, Utah State Office, Bureau of Land Management, the following wells are planned for calendar year 2011 within the Greater Monument Butte Unit, Duchesne and Uintah Counties, Utah.

API#	WELL NAME	LOCATION
(Proposed PZ GREEN RIVER)		
43-047-51479	GMBU I-23-8-17	Sec 23 T08S R17E 0442 FNL 2172 FEL BHL Sec 23 T08S R17E 1151 FNL 1328 FEL
43-047-51480	GMBU L-23-8-17	Sec 23 T08S R17E 1580 FNL 2045 FEL BHL Sec 23 T08S R17E 2163 FNL 1384 FEL
43-047-51481	GMBU S-23-8-17	Sec 23 T08S R17E 2114 FSL 0823 FEL BHL Sec 23 T08S R17E 1100 FSL 1449 FEL
43-047-51482	GMBU K-23-8-17	Sec 23 T08S R17E 2135 FSL 0818 FEL BHL Sec 23 T08S R17E 1817 FNL 0286 FEL
43-013-50576	GMBU M-30-8-17	Sec 30 T08S R17E 1999 FNL 1991 FEL BHL Sec 30 T08S R17E 2548 FSL 2393 FWL
43-013-50577	GMBU M-11-9-16	Sec 11 T09S R16E 1825 FSL 2167 FWL BHL Sec 11 T09S R16E 2236 FNL 2482 FEL
43-013-50578	GMBU N-11-9-16	Sec 11 T09S R16E 1806 FSL 2158 FWL BHL Sec 11 T09S R16E 2604 FNL 1158 FWL
43-013-50579	GMBU R-11-9-16	Sec 11 T09S R16E 0799 FSL 2047 FWL BHL Sec 11 T09S R16E 1383 FSL 2303 FEL

API#	WELL NAME	LOCATION
(Proposed PZ GREEN RIVER)		
43-013-50580	GMBU B-14-9-16	Sec 11 T09S R16E 0730 FSL 0731 FEL BHL Sec 14 T09S R16E 0248 FNL 1467 FEL
43-013-50581	GMBU R-6-9-17	Sec 06 T09S R17E 1108 FSL 2123 FWL BHL Sec 06 T09S R17E 1775 FSL 2379 FEL

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

Michael L. Coulthard

Digitally signed by Michael L. Coulthard  
DN: cn=Michael L. Coulthard, o=Bureau of Land Management, ou=Branch of Minerals,  
email=Michael\_Coulthard@blm.gov, c=US  
Date: 2011.01.13 11:01:09 -07'00'

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

MCoulthard:mc:1-13-11

# WORKSHEET APPLICATION FOR PERMIT TO DRILL

**APD RECEIVED:** 1/11/2011

**API NO. ASSIGNED:** 43013505790000

**WELL NAME:** Greater Monument Butte R-11-9-16

**OPERATOR:** NEWFIELD PRODUCTION COMPANY (N2695)

**PHONE NUMBER:** 435 646-4825

**CONTACT:** Mandie Crozier

**PROPOSED LOCATION:** SESW 11 090S 160E

**Permit Tech Review:**

**SURFACE:** 0799 FSL 2047 FWL

**Engineering Review:**

**BOTTOM:** 1383 FSL 2303 FEL

**Geology Review:**

**COUNTY:** DUCHESNE

**LATITUDE:** 40.04025

**LONGITUDE:** -110.08805

**UTM SURF EASTINGS:** 577801.00

**NORTHINGS:** 4432413.00

**FIELD NAME:** MONUMENT BUTTE

**LEASE TYPE:** 1 - Federal

**LEASE NUMBER:** UTU-096547

**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 - bhill



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:** Greater Monument Butte R-11-9-16  
**API Well Number:** 43013505790000  
**Lease Number:** UTU-096547  
**Surface Owner:** FEDERAL  
**Approval Date:** 1/19/2011

**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 <https://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 in a cursive style.

For John Rogers  
Associate Director, Oil & Gas

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

**APPLICATION FOR PERMIT TO DRILL OR REENTER**

la. Type of work: <input checked="" type="checkbox"/> DRILL <input type="checkbox"/> REENTER		5. Lease Serial No. UTU-096547
lb. Type of Well: <input checked="" type="checkbox"/> Oil Well <input type="checkbox"/> Gas Well <input type="checkbox"/> Other <input checked="" type="checkbox"/> Single Zone <input type="checkbox"/> Multiple Zone		6. If Indian, Allottee or Tribe Name NA
2. Name of Operator Newfield Production Company		7. If Unit or CA Agreement, Name and No. Greater Monument Butte
3a. Address Route #3 Box 3630, Myton UT 84052		8. Lease Name and Well No. Greater Monument Butte R-11-9-16
3b. Phone No. (include area code) (435) 646-3721		9. API Well No. 43 DIB 50579
4. Location of Well (Report location clearly and in accordance with any State requirements.)* At surface SE/SW 799' FSL 2047' FWL Sec. 11, T9S R16E (UTU-096547) At proposed prod. zone NW/SE 1383' FSL 2303' FEL Sec. 11, T9S R16E (UTU-096550)		10. Field and Pool, or Exploratory Monument Butte
14. Distance in miles and direction from nearest town or post office* Approximately 16.1 miles southwest of Myton, UT		11. Sec., T. R. M. or Blk. and Survey or Area Sec. 11, T9S R16E
15. Distance from proposed* location to nearest property or lease line, ft. Approx. 63' f/lse, NA f/unit (Also to nearest drig. unit line, if any)	16. No. of acres in lease 600.00	17. Spacing Unit dedicated to this well 20 Acres
18. Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft. Approx. 1840'	19. Proposed Depth 6,162'	20. BLM/BIA Bond No. on file WYB000493
21. Elevations (Show whether DF, KDB, RT, GL, etc.) 5570' GL	22. Approximate date work will start* 2nd Qtr. 2011	23. Estimated duration (7) days from SPUD to rig release
24. Attachments		

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

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

25. Signature 	Name (Printed/Typed) Mandie Crozier	Date 1/7/11
Title Regulatory Specialist		

Approved by (Signature) 	Name (Printed/Typed) Jerry Kenczka	Date AUG 12 2011
Title Assistant Field Manager Lands & Mineral Resources		
Office VERNAL FIELD OFFICE		

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

**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.

(Continued on page 2)

\*(Instructions on page 2)

**UDOGM**

NOS 12-3-10

AFMSS# 11SXS01510A

NOTICE OF APPROVAL

RECEIVED

JAN 12 2011

BLM VERNAL

RECEIVED

AUG 18 2011

DIV. OF OIL, GAS & MINING



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 R-11-9-16  
API No: 43-013-50579

Location: SESW, Sec 11, T9S, R16E  
Lease No: UTU-096547  
Agreement: Greater Monument Butte Unit

**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:ut_vn_opreport@blm.gov">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)**

- All new and replacement internal combustion gas field engines of less than or equal to 300 design-rated horsepower must not emit more than 2 gms 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.
- All and replacement internal combustion gas field engines of greater than 300 design rated horsepower must not emit more than 1.0 gms of NO<sub>x</sub> per horsepower-hour.
- 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.

**Wildlife**

- Construction and drilling is not allowed from May 1<sup>st</sup> – June 15<sup>th</sup> to minimize impacts during Mountain plover nesting.
- Construction and drilling is not allowed from March 1<sup>st</sup> – August 31<sup>st</sup> to minimize impacts during burrowing owl nesting.
- If it is anticipated that construction or drilling will occur during the given timing restriction, a BLM or qualified biologist shall be notified so surveys can be conducted. Depending upon the results of the surveys, permission to proceed may or may not be recommended or granted by the BLM Authorized Officer.
- The reclamation seed mix will incorporate low growing grasses and forbs; and not crested wheatgrass since this negatively impacts mountain plover habitat.
- Hospital mufflers will be installed on new and existing pump jacks at the host well locations.
- Screening will be placed on stacks and on other openings of heater-treaters or fired vessels to prevent entry by migratory birds.

**Air Quality**

- All internal combustion equipment will be kept in good working order.
- Water or other approved dust suppressants will be used at construction sites and along roads, as determined appropriate by the Authorized Officer.
- Open burning of garbage or refuse will not occur at well sites or other facilities.
- Low bleed pneumatics will be installed on separator dump valves and other controllers.
- During completion, flaring will be limited as much as possible. Production equipment and gathering lines will be installed as soon as possible.
- Well site telemetry will be utilized as feasible for production operations.

**Reclamation**

- Reclamation will be completed in accordance with the Newfield Exploration Company Castle Peak and Eight Mile Flat Reclamation Plan on file with the Vernal Field Office of the BLM.

- Appropriate erosion control and revegetation measures will be employed. In areas with unstable soils where seeding alone may not adequately control erosion, grading will be used to minimize slopes and water bars will be installed on disturbed slopes. Erosion control efforts will be monitored by Newfield and, if necessary, modifications will be made to control erosion.

**Seed Mix (Interim and Final Reclamation)**

Common Name	Latin Name	Pure Live Seed (lbs/acre)	Seed Planting Depth
Squirreltail grass	<i>Elymus elymoides</i>	2.0	¼ - ½"
Needle and thread grass	<i>Hesperostipa comata</i>	2.0	½"
Siberian Wheatgrass	<i>Agropyron fragile</i>	2.0	½"
Shadscale saltbush	<i>Atriplex confertifolia</i>	2.0	½"
Four-wing saltbush	<i>Atriplex canescens</i>	2.0	½"
Gardner's saltbush	<i>Atriplex gardneri</i>	2.0	½"
Blue flax (Lewis flax)	<i>Linum lewisii</i>	1.0	⅛ - ¼"

- All pounds are pure live seed.
- All seed and mulch will be certified weed free.
- Rates are set for drill seeding; double rate if broadcasting.

**Monitoring and Reporting**

- 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 Green River District Reclamation Guidelines have been met (30% or greater basal cover).

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

**SITE SPECIFIC DOWNHOLE COAs:**

- Newfield Production Co. shall comply with all applicable requirements in the SOP (version: "Greater Monument Butte Green River Development Program", June 24, 2008). The operator shall also comply with applicable laws and regulations; with lease terms, Onshore Oil and Gas Orders, NTL's; and with other orders and instructions of the authorized officer.

**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 LAS format to [UT\\_VN\\_Welllogs@BLM.gov](mailto:UT_VN_Welllogs@BLM.gov). 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.

BLM - Vernal Field Office - Notification Form

Operator Newfield Exploration Rig Name/# Ross 29 Submitted By  
Branden Arnold Phone Number 435-401-0223  
Well Name/Number GMB R-11-9-16  
Qtr/Qtr SE/SW Section 11 Township 9S Range 16E  
Lease Serial Number UTU-096547  
API Number 43-013-50579

Spud Notice – Spud is the initial spudding of the well, not drilling out below a casing string.

Date/Time 11/15/11      9:00 AM  PM

Casing – Please report time casing run starts, not cementing times.

- Surface Casing
- Intermediate Casing
- Production Casing
- Liner
- Other

Date/Time 11/15/11      3:00 AM  PM

BOPE

- Initial BOPE test at surface casing point
- BOPE test at intermediate casing point
- 30 day BOPE test
- Other

Date/Time \_\_\_\_\_ AM  PM

Remarks \_\_\_\_\_

---

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

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

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

**SUBMIT IN TRIPLICATE - Other Instructions on page 2**

1. Type of Well <input checked="" type="checkbox"/> Oil Well <input type="checkbox"/> Gas Well <input type="checkbox"/> Other		5. Lease Serial No. USA UTU-096547
2. Name of Operator NEWFIELD PRODUCTION COMPANY		6. If Indian, Allottee or Tribe Name.
3a. Address Route 3 Box 3630 Myton, UT 84052	3b. Phone (include are code) 435.646.3721	7. If Unit or CA/Agreement, Name and/or GMBU
4. Location of Well (Footage, Sec., T., R., M., or Survey Description)  Section 11 T9S R16E		8. Well Name and No. GRTR MON BUTTE R-11-9-16
		9. API Well No. 4301350579
		10. Field and Pool, or Exploratory Area GREATER MB UNIT
		11. County or Parish, State DUCHESNE, UT

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

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

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

On 11/15/11 MIRU Ross #29. Spud well @9:00 AM. Drill 330' of 12 1/4" hole with air mist. TIH W/ 7 Jt's 8 5/8" J-55 24# csgn. Set @ 330.77. On 11/17/11 cement with 160 sks of class "G" w/ 2% CaCL2 + 0.25#/sk Cello- Flake Mixed @ 15.8ppg w/ 1.17ft3/sk yield. Returned 5 barrels cement to pit. WOC.

I hereby certify that the foregoing is true and correct (Printed/ Typed) Branden Arnold	Title
Signature 	Date 11/17/2011

**THIS SPACE FOR FEDERAL OR STATE OFFICE USE**

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

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

(Instructions on page 2)

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NOV 22 2011

DIV. OF OIL, GAS & MINING





STATE OF UTAH  
 DIVISION OF OIL, GAS AND MINING  
 ENTITY ACTION FORM -FORM 6

OPERATOR: **NEWFIELD PRODUCTION COMPANY**  
 ADDRESS: **RT. 3 BOX 3630**  
**MYTON, UT 84052**

OPERATOR ACCT. NO. **N2695**

ACTION CODE	CURRENT ENTITY NO.	NEW ENTITY NO.	API NUMBER	WELL NAME	WELL LOCATION				SPUD DATE	EFFECTIVE DATE	
					QQ	SC	TP	RG			COUNTY
B	99999	17400 ✓	4301350699	GMBU U-7-9-16	NWNW	17 7	9S	16E	DUCHESNE	11/21/2011	11/30/11
WELL 1 COMMENTS: <i>GRRV</i> <i>BHL = Sec 7 SESE</i>											
B	99999	17400 ✓	4301350700	GMBU V-7-9-16	NWNE	18 7	9S	16E	DUCHESNE		11/30/11
<i>GRRV</i> <i>BHL = Sec 7 SESE</i>											
B	99999	17400 ✓	4301350701	GMBU D-17-9-16	SWSW	08 7	9S	16E	DUCHESNE		11/30/11
<i>GRRV</i> <i>BHL = Sec 17 NENW</i>											
B	99999	17400 ✓	4301350682	GMBU L-11-9-16	NWSE	11	9S	16E	DUCHESNE		11/30/11
<i>GRRV</i> <i>BHL = SENE</i>											
B	99999	17400 ✓	4301350698	GMBU W-7-9-16	NENW	18 7	9S	16E	DUCHESNE		11/30/11
<i>GRRV</i> <i>BHL = Sec 7 SWSE</i>											
B	99999	17400 ✓	4301350579	GMBU R-11-9-16	SESW	11	9S	16E	DUCHESNE		11/30/11
<i>GRRV</i> <i>BHL = NWSE</i>											

ACTION CODES (See instructions on back of form)

- A - 1 new entity for new well (single well only)
- B - 1 well to existing entity (group or unit well)
- C - from one existing entity to another existing entity
- D - well from one existing entity to a new entity
- E - other (explain in comments section)

NOTE: Use COMMENT section to explain why each Action Code was selected.

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DIV. OF OIL, GAS & MINING

*[Signature]*  
 Signature **Jentri Park**  
 Production Clerk **11/23/11**

<b>STATE OF UTAH</b> DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		<b>FORM 9</b>
		<b>5. LEASE DESIGNATION AND SERIAL NUMBER:</b> UTU-096547
<b>SUNDRY NOTICES AND REPORTS ON WELLS</b>		<b>6. IF INDIAN, ALLOTTEE OR TRIBE NAME:</b>
Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.		<b>7. UNIT or CA AGREEMENT NAME:</b> GMBU (GRRV)
<b>1. TYPE OF WELL</b> Oil Well		<b>8. WELL NAME and NUMBER:</b> GREATER MON BUTTE R-11-9-16
<b>2. NAME OF OPERATOR:</b> NEWFIELD PRODUCTION COMPANY		<b>9. API NUMBER:</b> 43013505790000
<b>3. ADDRESS OF OPERATOR:</b> Rt 3 Box 3630 , Myton, UT, 84052	<b>PHONE NUMBER:</b> 435 646-4825 Ext	<b>9. FIELD and POOL or WILDCAT:</b> MONUMENT BUTTE
<b>4. LOCATION OF WELL</b> <b>FOOTAGES AT SURFACE:</b> 0799 FSL 2047 FWL <b>QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:</b> Qtr/Qtr: SESW Section: 11 Township: 09.0S Range: 16.0E Meridian: S		<b>COUNTY:</b> DUCHESNE
		<b>STATE:</b> UTAH
11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA		
<b>TYPE OF SUBMISSION</b>	<b>TYPE OF ACTION</b>	
<input type="checkbox"/> NOTICE OF INTENT Approximate date work will start:	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> ALTER CASING
<input type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion:	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> CHANGE TUBING
<input type="checkbox"/> SPUD REPORT Date of Spud:	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS
<input checked="" type="checkbox"/> DRILLING REPORT Report Date: 12/29/2011	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> FRACTURE TREAT
	<input type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> PLUG AND ABANDON
	<input checked="" type="checkbox"/> PRODUCTION START OR RESUME	<input type="checkbox"/> RECLAMATION OF WELL SITE
	<input type="checkbox"/> REPERFORATE CURRENT FORMATION	<input type="checkbox"/> SIDETRACK TO REPAIR WELL
	<input type="checkbox"/> TUBING REPAIR	<input type="checkbox"/> VENT OR FLARE
	<input type="checkbox"/> WATER SHUTOFF	<input type="checkbox"/> SI TA STATUS EXTENSION
	<input type="checkbox"/> WILDCAT WELL DETERMINATION	<input type="checkbox"/> OTHER
		<input type="checkbox"/> CASING REPAIR
		<input type="checkbox"/> CHANGE WELL NAME
		<input type="checkbox"/> CONVERT WELL TYPE
		<input type="checkbox"/> NEW CONSTRUCTION
		<input type="checkbox"/> PLUG BACK
		<input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION
		<input type="checkbox"/> TEMPORARY ABANDON
		<input type="checkbox"/> WATER DISPOSAL
		<input type="checkbox"/> APD EXTENSION
		OTHER: <input type="text"/>
12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc. The above well was placed on production on 12/29/2011 at 17:30 hours.		
<b>Accepted by the Utah Division of Oil, Gas and Mining FOR RECORD ONLY</b>		
<b>NAME (PLEASE PRINT)</b> Jennifer Peatross	<b>PHONE NUMBER</b> 435 646-4885	<b>TITLE</b> Production Technician
<b>SIGNATURE</b> N/A		<b>DATE</b> 1/6/2012

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

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

**WELL COMPLETION OR RECOMPLETION REPORT AND LOG**

5. Lease Serial No.  
UTU096547

1a. Type of Well  Oil Well  Gas Well  Dry  Other  
b. Type of Completion  New Well  Work Over  Deepen  Plug Back  Diff. Resvr.  
Other \_\_\_\_\_

6. If Indian, Allottee or Tribe Name

7. Unit or CA Agreement Name and No.  
GMBU

2. Name of Operator  
NEWFIELD PRODUCTION COMPANY  
Contact: JENNIFER PEATROSS  
E-Mail: jpeatross@newfield.com

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

3. Address ROUTE 3 BOX 3630  
MYTON, UT 84052  
3a. Phone No. (include area code)  
Ph: 435-646-4885

9. API Well No.  
43-013-50579

4. Location of Well (Report location clearly and in accordance with Federal requirements)\*  
At surface SESW 799FSL 2047FWL  
At top prod interval reported below SESW 1171FSL 2620FWL  
At total depth NWSE 1391FSL *2323 fel nurse bhl by HSM*

10. Field and Pool, or Exploratory  
MONUMENT BUTTE

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

12. County or Parish  
DUCHESNE  
13. State  
UT

14. Date Spudded  
11/15/2011  
15. Date T.D. Reached  
11/22/2011  
16. Date Completed  
 D & A  Ready to Prod.  
12/29/2011

17. Elevations (DF, KB, RT, GL)\*  
5570 GL

18. Total Depth: MD 6165  
TVD 6057  
19. Plug Back T.D.: MD 6101  
TVD 5994  
20. Depth Bridge Plug Set: MD  
TVD

21. Type Electric & Other Mechanical Logs Run (Submit copy of each)  
DUAL IND, SP, COMP DENS, COMP NEUT, GR, CAL, CBL  
22. Was well cored?  No  Yes (Submit analysis)  
Was DST run?  No  Yes (Submit analysis)  
Directional Survey?  No  Yes (Submit analysis)

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

Hole Size	Size/Grade	Wt. (#/ft.)	Top (MD)	Bottom (MD)	Stage Cementer Depth	No. of Sk. & Type of Cement	Slurry Vol. (BBL)	Cement Top*	Amount Pulled
12.250	8.625 J-55	24.0	0	330		160			
7.875	5.500 J-55	15.5	0	6148		230		45	

24. Tubing Record

Size	Depth Set (MD)	Packer Depth (MD)	Size	Depth Set (MD)	Packer Depth (MD)	Size	Depth Set (MD)	Packer Depth (MD)
2.875	5873	5706						

25. Producing Intervals

26. Perforation Record

Formation	Top	Bottom	Perforated Interval	Size	No. Holes	Perf. Status
A) GREEN RIVER	4148	6000	4148 TO 6000	0.360	90	
B)						
C)						
D)						

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

Depth Interval	Amount and Type of Material
4148 TO 6000	FRAC W/ 290567#S 20/40 WHITE SAND IN 2660 BBLs OF LIGHTNING 17 FLUID, IN 5 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
01/02/2012	01/08/2012	24	▶	59.0	6.0	183.0			GAS PUMPING UNIT
Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas:Oil Ratio	Well Status	
			▶					POW	

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 reverse side)

ELECTRONIC SUBMISSION #127598 VERIFIED BY THE BLM WELL INFORMATION SYSTEM

\*\* OPERATOR-SUBMITTED \*\* OPERATOR-SUBMITTED \*\* OPERATOR-SUBMITTED \*\*

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JAN 19 2012

28b. Production - Interval C

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

28c. Production - Interval D

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

29. Disposition of Gas(Sold, used for fuel, vented, etc.)  
USED ON LEASE

30. Summary of Porous Zones (Include Aquifers):

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

31. Formation (Log) Markers

Formation	Top	Bottom	Descriptions, Contents, etc.	Name	Top
					Meas. Depth
GREEN RIVER	4148	9000		GARDEN GULCH MRK GARDEN GULCH 1 GARDEN GULCH 2 POINT 3 X MRKR Y MRKR DOUGLAS CREEK MRK BI CARBONATE MRK	3665 3880 3992 4246 4527 4561 4684 4930

32. Additional remarks (include plugging procedure):

33. Circle enclosed attachments:

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

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

**Electronic Submission #127598 Verified by the BLM Well Information System.  
For NEWFIELD PRODUCTION COMPANY, sent to the Vernal**

Name (please print) JENNIFER PEATROSS Title PRODUCTION TECHNICIAN  
Signature \_\_\_\_\_ (Electronic Submission) Date 01/09/2012

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**



# **NEWFIELD EXPLORATION**

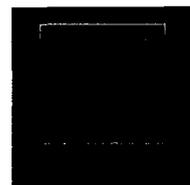
**USGS Myton SW (UT)  
SECTION 11 T9S, R16E  
R-11-9-16**

**Wellbore #1**

**Design: Actual**

## **Standard Survey Report**

**05 December, 2011**





# Payzone Directional Survey Report



**Company:** NEWFIELD EXPLORATION  
**Project:** USGS Myton SW (UT)  
**Site:** SECTION 11 T9S, R16E  
**Well:** R-11-9-16  
**Wellbore:** Wellbore #1  
**Design:** Actual

**Local Co-ordinate Reference:** Well R-11-9-16  
**TVD Reference:** R-11-9-16 @ 5782.0ft (Capstar 328)  
**MD Reference:** R-11-9-16 @ 5782.0ft (Capstar 328)  
**North Reference:** True  
**Survey Calculation Method:** Minimum Curvature  
**Database:** EDM 2003.21 Single User Db

<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 11 T9S, R16E			
<b>Site Position:</b>	<b>Northing:</b>	7,188,670.03 ft	<b>Latitude:</b> 40° 2' 46.225 N
<b>From:</b> Lat/Long	<b>Easting:</b>	2,036,157.78 ft	<b>Longitude:</b> 110° 5' 10.739 W
<b>Position Uncertainty:</b> 0.0 ft	<b>Slot Radius:</b>	"	<b>Grid Convergence:</b> 0.91 °

<b>Well</b> R-11-9-16, SHL LAT: 40° 02' 25.04, LONG: 110° 05' 19.28				
<b>Well Position</b>	<b>+N/-S</b>	0.0 ft	<b>Northing:</b> 7,186,516.21 ft	<b>Latitude:</b> 40° 2' 25.040 N
	<b>+E/-W</b>	0.0 ft	<b>Easting:</b> 2,035,527.51 ft	<b>Longitude:</b> 110° 5' 19.280 W
<b>Position Uncertainty</b>	0.0 ft	<b>Wellhead Elevation:</b>	5,782.0 ft	<b>Ground Level:</b> 5,770.0 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	11/2/2010	11.40	65.80	52,323

<b>Design</b> Actual				
<b>Audit Notes:</b>				
<b>Version:</b> 1.0	<b>Phase:</b> ACTUAL	<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	56.41

<b>Survey Program</b>		<b>Date</b> 12/5/2011
<b>From (ft)</b>	<b>To (ft)</b>	<b>Survey (Wellbore)</b>
343.0	6,165.0	Survey #1 (Wellbore #1)
		<b>Tool Name</b> MWD
		<b>Description</b> MWD - Standard

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
343.0	0.40	110.20	343.0	-0.4	1.1	0.7	0.12	0.12	0.00
374.0	0.40	124.80	374.0	-0.5	1.3	0.8	0.33	0.00	47.10
404.0	0.40	108.50	404.0	-0.6	1.5	0.9	0.38	0.00	-54.33
435.0	0.60	92.50	435.0	-0.6	1.8	1.1	0.78	0.65	-51.61
465.0	0.70	82.10	465.0	-0.6	2.1	1.4	0.51	0.33	-34.67
496.0	1.00	92.20	496.0	-0.6	2.6	1.8	1.08	0.97	32.58
527.0	1.20	89.40	527.0	-0.6	3.2	2.3	0.67	0.65	-9.03
557.0	1.30	89.60	557.0	-0.6	3.8	2.8	0.33	0.33	0.67
588.0	1.50	100.90	588.0	-0.7	4.6	3.4	1.10	0.65	36.45
619.0	2.20	96.70	619.0	-0.8	5.5	4.2	2.30	2.26	-13.55
649.0	2.70	94.10	648.9	-1.0	6.8	5.2	1.71	1.67	-8.67
680.0	3.10	96.70	679.9	-1.1	8.4	6.4	1.36	1.29	8.39

**Payzone Directional  
Survey Report**

**Company:** NEWFIELD EXPLORATION  
**Project:** USGS Myton SW (UT)  
**Site:** SECTION 11 T9S, R16E  
**Well:** R-11-9-16  
**Wellbore:** Wellbore #1  
**Design:** Actual

**Local Co-ordinate Reference:** Well R-11-9-16  
**TVD Reference:** R-11-9-16 @ 5782.0ft (Capstar 328)  
**MD Reference:** R-11-9-16 @ 5782.0ft (Capstar 328)  
**North Reference:** True  
**Survey Calculation Method:** Minimum Curvature  
**Database:** EDM 2003.21 Single User Db

**Survey**

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
711.0	3.60	93.60	710.8	-1.3	10.2	7.8	1.71	1.61	-10.00
742.0	4.30	93.80	741.8	-1.4	12.3	9.5	2.26	2.26	0.65
773.0	4.80	90.80	772.7	-1.5	14.8	11.5	1.79	1.61	-9.68
804.0	5.10	86.80	803.5	-1.4	17.5	13.7	1.47	0.97	-12.90
835.0	5.30	81.10	834.4	-1.1	20.2	16.2	1.79	0.65	-18.39
880.0	5.40	68.90	879.2	-0.1	24.3	20.2	2.53	0.22	-27.11
925.0	5.80	59.90	924.0	1.8	28.2	24.5	2.14	0.89	-20.00
971.0	6.50	52.90	969.7	4.6	32.3	29.4	2.23	1.52	-15.22
1,016.0	7.30	50.20	1,014.4	8.0	36.5	34.8	1.92	1.78	-6.00
1,061.0	8.00	51.40	1,059.0	11.7	41.2	40.8	1.60	1.56	2.67
1,107.0	8.96	55.10	1,104.5	15.8	46.6	47.6	2.40	2.09	8.04
1,152.0	9.60	57.40	1,148.9	19.8	52.6	54.8	1.64	1.42	5.11
1,197.0	10.00	58.10	1,193.3	23.9	59.1	62.5	0.93	0.89	1.56
1,243.0	10.33	62.20	1,238.5	27.9	66.2	70.6	1.73	0.72	8.91
1,288.0	10.80	63.40	1,282.8	31.7	73.5	78.8	1.15	1.04	2.67
1,333.0	11.30	64.80	1,326.9	35.5	81.3	87.3	1.26	1.11	3.11
1,378.0	11.40	62.90	1,371.1	39.4	89.2	96.1	0.86	0.22	-4.22
1,424.0	11.60	56.70	1,416.1	44.0	97.1	105.2	2.72	0.43	-13.48
1,469.0	11.70	57.10	1,460.2	48.9	104.7	114.3	0.29	0.22	0.89
1,514.0	12.00	58.30	1,504.3	53.9	112.5	123.6	0.86	0.67	2.67
1,560.0	11.80	57.90	1,549.3	58.9	120.6	133.0	0.47	-0.43	-0.87
1,605.0	11.50	56.90	1,593.3	63.8	128.3	142.1	0.80	-0.67	-2.22
1,650.0	11.40	57.90	1,637.4	68.6	135.8	151.1	0.49	-0.22	2.22
1,696.0	11.70	58.60	1,682.5	73.4	143.6	160.3	0.72	0.65	1.52
1,741.0	12.00	56.50	1,726.6	78.4	151.4	169.5	1.17	0.67	-4.67
1,786.0	11.40	56.80	1,770.6	83.4	159.0	178.6	1.34	-1.33	0.67
1,831.0	10.60	59.10	1,814.8	88.0	166.3	187.2	2.03	-1.78	5.11
1,877.0	10.80	56.40	1,860.0	92.5	173.5	195.7	1.17	0.43	-5.87
1,922.0	11.30	55.30	1,904.2	97.4	180.7	204.4	1.21	1.11	-2.44
1,968.0	11.30	54.60	1,949.3	102.6	188.0	213.4	0.30	0.00	-1.52
2,013.0	11.30	55.60	1,993.4	107.6	195.3	222.2	0.44	0.00	2.22
2,058.0	11.70	59.40	2,037.5	112.4	202.8	231.2	1.90	0.89	8.44
2,103.0	12.10	60.10	2,081.5	117.1	210.9	240.4	0.94	0.89	1.56
2,149.0	12.20	58.90	2,126.5	122.0	219.2	250.1	0.59	0.22	-2.61
2,194.0	12.80	56.40	2,170.4	127.2	227.4	259.8	1.80	1.33	-5.56
2,239.0	13.10	56.10	2,214.3	132.8	235.8	269.9	0.68	0.67	-0.67
2,285.0	12.80	55.60	2,259.1	138.6	244.3	280.2	0.70	-0.65	-1.09
2,330.0	12.40	55.50	2,303.0	144.2	252.4	290.0	0.89	-0.89	-0.22
2,375.0	12.80	57.10	2,347.0	149.6	260.6	299.8	1.18	0.89	3.56
2,421.0	12.70	56.80	2,391.8	155.1	269.1	310.0	0.26	-0.22	-0.65
2,466.0	12.00	54.30	2,435.8	160.6	277.0	319.6	1.96	-1.56	-5.56
2,511.0	11.50	52.10	2,479.8	166.1	284.4	328.8	1.49	-1.11	-4.89
2,556.0	11.40	52.10	2,523.9	171.6	291.4	337.7	0.22	-0.22	0.00
2,602.0	11.60	52.30	2,569.0	177.2	298.7	346.8	0.44	0.43	0.43
2,647.0	11.90	53.50	2,613.1	182.7	306.0	356.0	0.86	0.67	2.67
2,692.0	12.70	55.80	2,657.0	188.2	313.8	365.5	2.08	1.78	5.11
2,738.0	13.50	56.20	2,701.8	194.1	322.5	376.0	1.75	1.74	0.87
2,783.0	13.40	56.10	2,745.6	199.9	331.1	386.4	0.23	-0.22	-0.22
2,828.0	13.10	56.40	2,789.4	205.6	339.7	396.8	0.68	-0.67	0.67
2,874.0	12.40	56.70	2,834.3	211.2	348.2	406.9	1.53	-1.52	0.65
2,919.0	13.10	56.90	2,878.2	216.7	356.5	416.8	1.56	1.56	0.44
2,964.0	13.80	56.60	2,921.9	222.4	365.3	427.3	1.56	1.56	-0.67
3,009.0	13.40	55.70	2,965.7	228.3	374.0	437.9	1.01	-0.89	-2.00
3,054.0	12.40	53.50	3,009.5	234.1	382.2	447.9	2.48	-2.22	-4.89



# Payzone Directional Survey Report



**Company:** NEWFIELD EXPLORATION  
**Project:** USGS Myton SW (UT)  
**Site:** SECTION 11 T9S, R16E  
**Well:** R-11-9-16  
**Wellbore:** Wellbore #1  
**Design:** Actual

**Local Co-ordinate Reference:** Well R-11-9-16  
**TVD Reference:** R-11-9-16 @ 5782.0ft (Capstar 328)  
**MD Reference:** R-11-9-16 @ 5782.0ft (Capstar 328)  
**North Reference:** True  
**Survey Calculation Method:** Minimum Curvature  
**Database:** EDM 2003.21 Single User Db

### Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
3,099.0	12.00	53.10	3,053.5	239.8	389.9	457.4	0.91	-0.89	-0.89
3,145.0	12.90	53.10	3,098.4	245.7	397.8	467.3	1.96	1.96	0.00
3,190.0	13.40	53.80	3,142.3	251.8	406.0	477.5	1.17	1.11	1.56
3,235.0	12.90	54.11	3,186.1	257.9	414.3	487.8	1.12	-1.11	0.69
3,281.0	13.30	53.70	3,230.9	264.0	422.7	498.2	0.89	0.87	-0.89
3,326.0	13.50	52.80	3,274.6	270.2	431.1	508.6	0.64	0.44	-2.00
3,371.0	13.90	53.30	3,318.4	276.7	439.6	519.2	0.93	0.89	1.11
3,417.0	13.50	52.70	3,363.1	283.2	448.3	530.1	0.92	-0.87	-1.30
3,462.0	13.20	52.80	3,406.8	289.5	456.6	540.5	0.67	-0.67	0.22
3,507.0	13.20	54.90	3,450.7	295.6	464.9	550.7	1.07	0.00	4.67
3,553.0	12.60	54.20	3,495.5	301.5	473.2	561.0	1.35	-1.30	-1.52
3,598.0	12.20	53.06	3,539.4	307.2	481.0	570.7	1.04	-0.89	-2.53
3,643.0	12.40	54.10	3,583.4	312.9	488.7	580.2	0.66	0.44	2.31
3,688.0	11.60	51.92	3,627.4	318.6	496.2	589.6	2.04	-1.78	-4.84
3,734.0	11.70	50.50	3,672.5	324.4	503.4	598.8	0.66	0.22	-3.09
3,779.0	12.00	52.36	3,716.5	330.1	510.7	608.0	1.08	0.67	4.13
3,824.0	12.60	53.80	3,760.5	335.9	518.3	617.6	1.50	1.33	3.20
3,870.0	12.50	55.10	3,805.4	341.7	526.5	627.6	0.65	-0.22	2.83
3,915.0	12.10	54.90	3,849.4	347.2	534.3	637.2	0.89	-0.89	-0.44
3,960.0	12.00	55.40	3,893.4	352.6	542.0	646.6	0.32	-0.22	1.11
4,006.0	12.10	59.30	3,938.4	357.7	550.1	656.2	1.78	0.22	8.48
4,051.0	11.60	58.80	3,982.4	362.5	558.0	665.4	1.13	-1.11	-1.11
4,096.0	11.30	55.40	4,026.5	367.3	565.5	674.3	1.64	-0.67	-7.56
4,141.0	11.13	55.90	4,070.6	372.3	572.7	683.1	0.44	-0.38	1.11
4,186.0	11.40	57.15	4,114.8	377.1	580.1	691.9	0.81	0.60	2.78
4,231.0	11.80	57.70	4,158.9	382.0	587.7	700.9	0.92	0.89	1.22
4,276.0	11.60	56.00	4,202.9	387.0	595.3	710.0	0.89	-0.44	-3.78
4,321.0	11.20	55.40	4,247.0	392.0	602.7	718.9	0.93	-0.89	-1.33
4,366.0	10.70	54.20	4,291.2	396.9	609.7	727.5	1.22	-1.11	-2.67
4,411.0	11.20	56.40	4,335.4	401.8	616.7	736.0	1.45	1.11	4.89
4,456.0	11.80	56.00	4,379.5	406.8	624.2	745.0	1.35	1.33	-0.89
4,501.0	11.70	56.90	4,423.5	411.8	631.8	754.2	0.46	-0.22	2.00
4,549.0	11.20	54.60	4,470.6	417.2	639.7	763.7	1.41	-1.04	-4.79
4,595.0	11.10	52.05	4,515.7	422.5	646.8	772.6	1.09	-0.22	-5.54
4,640.0	11.00	53.20	4,559.9	427.8	653.7	781.2	0.54	-0.22	2.56
4,685.0	10.10	53.40	4,604.1	432.7	660.3	789.4	2.00	-2.00	0.44
4,731.0	10.50	53.90	4,649.4	437.5	666.9	797.6	0.89	0.87	1.09
4,776.0	10.20	52.90	4,693.7	442.4	673.4	805.7	0.78	-0.67	-2.22
4,821.0	10.40	51.80	4,737.9	447.3	679.8	813.7	0.62	0.44	-2.44
4,867.0	10.50	50.20	4,783.2	452.5	686.2	822.0	0.67	0.22	-3.48
4,912.0	11.10	51.00	4,827.4	457.9	692.8	830.4	1.37	1.33	1.78
4,957.0	11.40	53.90	4,871.5	463.2	699.7	839.2	1.42	0.67	6.44
4,984.1	11.52	55.54	4,898.1	466.3	704.1	844.5	1.28	0.43	6.04
<b>R-11-9-16 TGT</b>									
5,002.0	11.60	56.60	4,915.6	468.3	707.1	848.1	1.28	0.46	5.94
5,047.0	11.60	57.50	4,959.7	473.3	714.7	857.2	0.40	0.00	2.00
5,094.0	10.30	56.70	5,005.8	478.1	722.2	866.1	2.78	-2.77	-1.70
5,139.0	10.20	53.70	5,050.1	482.7	728.7	874.1	1.21	-0.22	-6.67
5,184.0	10.30	56.00	5,094.4	487.3	735.3	882.1	0.94	0.22	5.11
5,229.0	10.40	56.40	5,138.7	491.8	742.0	890.2	0.27	0.22	0.89
5,274.0	10.50	57.00	5,182.9	496.3	748.8	898.3	0.33	0.22	1.33
5,319.0	10.42	55.00	5,227.2	500.8	755.6	906.5	0.83	-0.18	-4.44
5,365.0	10.70	53.40	5,272.4	505.8	762.4	914.9	0.88	0.61	-3.48
5,410.0	10.30	59.00	5,316.6	510.3	769.2	923.1	2.43	-0.89	12.44

**Company:** NEWFIELD EXPLORATION  
**Project:** USGS Myton SW (UT)  
**Site:** SECTION 11 T9S, R16E  
**Well:** R-11-9-16  
**Wellbore:** Wellbore #1  
**Design:** Actual

**Local Co-ordinate Reference:** Well R-11-9-16  
**TVD Reference:** R-11-9-16 @ 5782.0ft (Capstar 328)  
**MD Reference:** R-11-9-16 @ 5782.0ft (Capstar 328)  
**North Reference:** True  
**Survey Calculation Method:** Minimum Curvature  
**Database:** EDM 2003.21 Single User Db

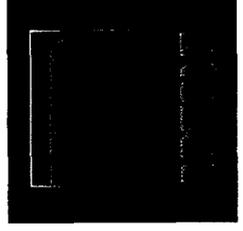
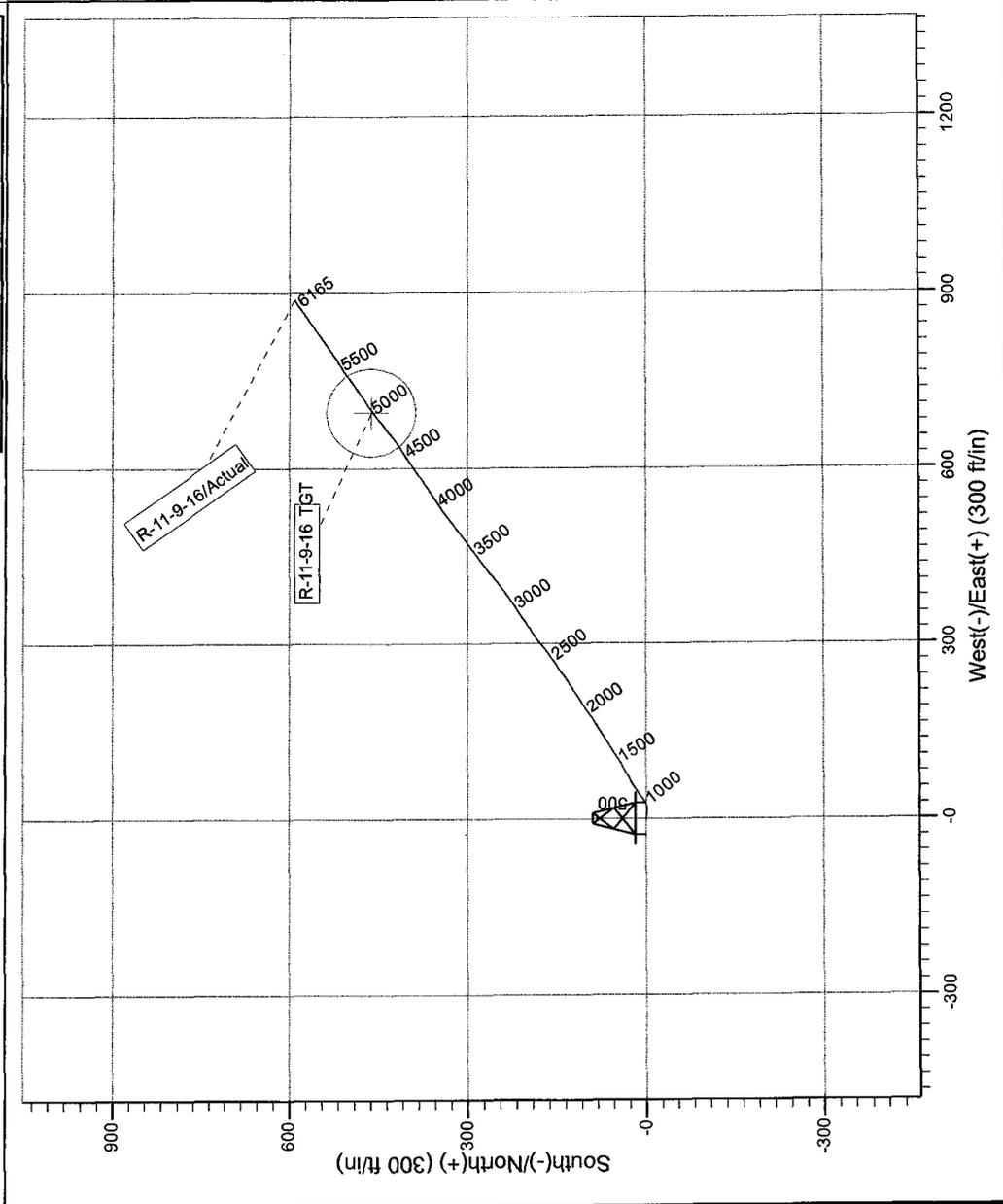
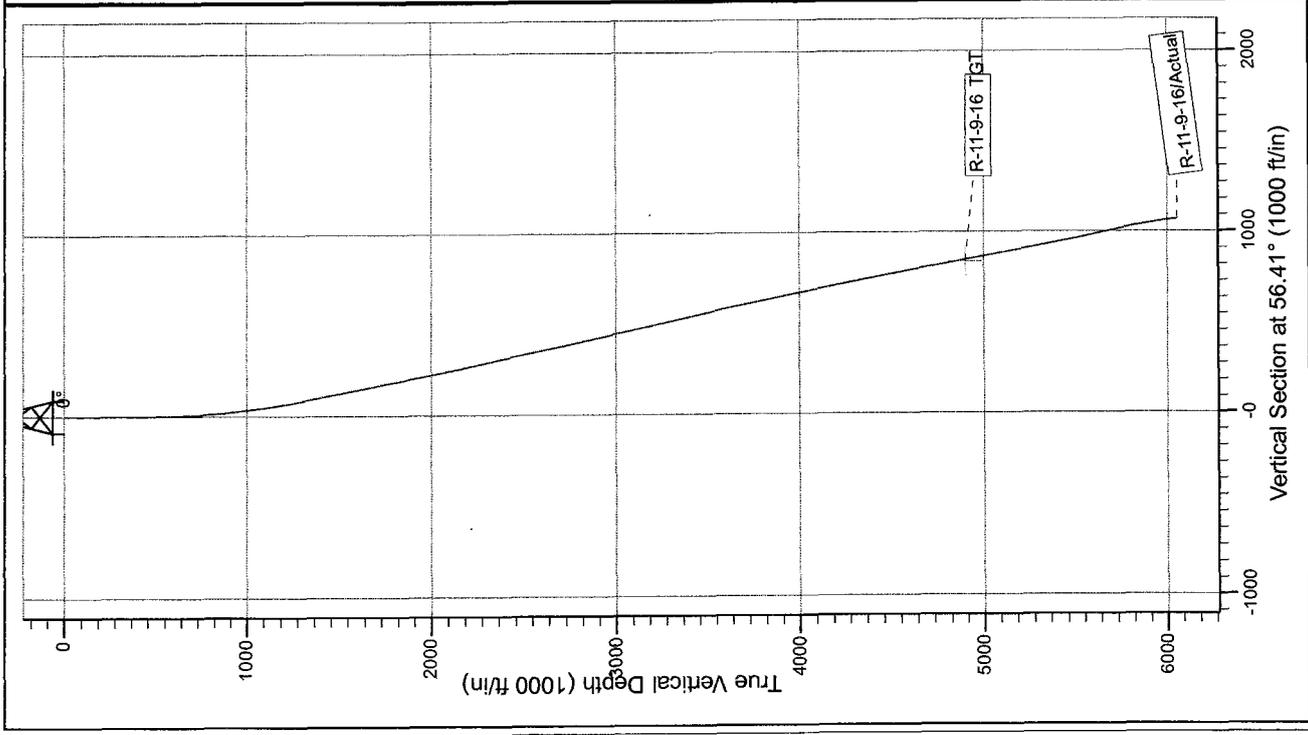
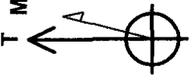
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/S (ft)	+E/W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
5,455.0	10.90	60.00	5,360.9	514.5	776.4	931.4	1.39	1.33	2.22
5,500.0	10.80	60.00	5,405.1	518.8	783.7	939.8	0.22	-0.22	0.00
5,546.0	11.30	56.20	5,450.2	523.4	791.2	948.7	1.92	1.09	-8.26
5,591.0	12.04	54.70	5,494.3	528.6	798.7	957.8	1.78	1.64	-3.33
5,636.0	12.80	54.00	5,538.2	534.2	806.5	967.4	1.72	1.69	-1.56
5,681.0	13.10	54.70	5,582.1	540.1	814.7	977.5	0.75	0.67	1.56
5,727.0	12.60	53.80	5,626.9	546.1	823.0	987.7	1.17	-1.09	-1.96
5,772.0	13.01	53.70	5,670.8	552.0	831.1	997.7	0.91	0.91	-0.22
5,818.0	13.00	55.20	5,715.6	558.0	839.5	1,008.0	0.73	-0.02	3.26
5,863.0	12.10	55.10	5,759.6	563.6	847.5	1,017.8	2.00	-2.00	-0.22
5,908.0	11.30	54.20	5,803.6	568.9	855.0	1,026.9	1.82	-1.78	-2.00
5,954.0	10.40	55.30	5,848.8	573.9	862.0	1,035.6	2.01	-1.96	2.39
5,999.0	9.70	54.90	5,893.1	578.4	868.5	1,043.4	1.56	-1.56	-0.89
6,044.0	8.80	55.20	5,937.5	582.5	874.4	1,050.7	2.00	-2.00	0.67
6,090.0	7.80	56.10	5,983.0	586.2	879.9	1,057.3	2.19	-2.17	1.96
6,104.0	7.70	54.80	5,996.9	587.3	881.5	1,059.2	1.44	-0.71	-9.29
6,158.0	7.70	54.80	6,050.4	591.5	887.4	1,066.4	0.00	0.00	0.00
6,165.0	7.70	54.80	6,057.4	592.0	888.1	1,067.4	0.00	0.00	0.00

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



Project: USGS Myton SW (JT)  
 Site: SECTION 11 T9S, R16E  
 Well: R-11-9-16  
 Wellbore: Wellbore #1  
 Design: Actual

Azimuths to True North  
 Magnetic North: 11.40°  
 Magnetic Field  
 Strength: 52322.9snT  
 Dip Angle: 65.80°  
 Date: 11/2/2010  
 Model: IGRF2010



Design: Actual (R-11-9-16/Wellbore #1)  
 Created By: Sarah Webb Date: 19:07, December 05 2011  
 THIS SURVEY IS CORRECT TO THE BEST OF  
 MY KNOWLEDGE AND IS SUPPORTED  
 BY ACTUAL FIELD DATA

## Daily Activity Report

Format For Sundry

**GMBU R-11-9-16**

**9/1/2011 To 1/30/2012**

**GMBU R-11-9-16**

**Waiting on Cement**

**Date:** 11/17/2011

Ross #26 at 331. Days Since Spud - 330.77'KB. On 11/17/11 cement w/BJ w/160 sks of class G+2%kcl+.25#CF mixed @ 15.8ppg and 1.17 - On 11/15/11 Ross #26 spud and drilled 330' of 12 1/4" hole, P/U and run 7 jts of 8 5/8" casing set - yield. Returned 5bbls to pit, bump plug to 700psi, BLM and State were notified of spud via email.

**Daily Cost:** \$0

**Cumulative Cost:** \$61,619

**GMBU R-11-9-16**

**Drill 7 7/8" hole with fresh water**

**Date:** 11/19/2011

Capstar #328 at 1115. 1 Days Since Spud - Nipple Up - MIRU (Accept Rig @ 12:00 Hrs. ) - R/U flare lines Strap BHA, complete rig Inspection - M/U Bit & Dir Tools RIH tag cmt @ 285' drill cmt & shoe to 331' - Rotate/Slide Drill 7 7/8" hole f/ 331' - 1115' WOB 8-10, TQ 7000, PP 1096, TOT rpm 195, GPM 414 - Test BOP's as per program

**Daily Cost:** \$0

**Cumulative Cost:** \$137,525

**GMBU R-11-9-16**

**Drill 7 7/8" hole with fresh water**

**Date:** 11/20/2011

Capstar #328 at 3742. 2 Days Since Spud - Service Rig - Slide Rotate Drill F/1115' - 2384' WOB 14-16, TQ 8000, RPM 61, PP 1060, GPM 404 - Slide Rotate Drill F/2384' - 3742' WOB 14-16, TQ 8000, RPM 61, PP 1060, GPM 404

**Daily Cost:** \$0

**Cumulative Cost:** \$237,382

**GMBU R-11-9-16**

**Drill 7 7/8" hole with fresh water**

**Date:** 11/21/2011

Capstar #328 at 5238. 3 Days Since Spud - Slide/Rotate Drill F/ 3742' - 4422' WOB 20-22, RPM 61, TOQ 9500, PP 1300, GPM 404 - Slide/Rotate Drill F/ 4422' - 5238' WOB 20-22, RPM 61, TOQ 9500, PP 1300, GPM 404 - Service Rig

**Daily Cost:** \$0

**Cumulative Cost:** \$258,731

**GMBU R-11-9-16**

**Logging**

**Date:** 11/22/2011

Capstar #328 at 6165. 4 Days Since Spud - Wait on loggers - Service Rig - Slide/Rotate Drill F/ 5690' - 6165' WOB 20-22, RPM 61, TOQ 9500, PP 1300, GPM 404 (TD @ 6165' ) - Circ., Flow Check, Slug Pipe Circ., Flow Check, Slug Pipe - POOH Lay Down Pipe - Slide/Rotate Drill F/ 5238' - 5690' WOB 20-22, RPM 61, TOQ 9500, PP 1300, GPM 404 - PJSM Rig up Loggers

**Daily Cost:** \$0

**Cumulative Cost:** \$277,236

**GMBU R-11-9-16**

**Logging**

**Date:** 11/23/2011

Capstar #328 at 6165. 5 Days Since Spud - PJSM R/U and run 5.5" Casing RIH 142 Jts - Circulate and rig up cementers - Repair pump truck - Cement as per program - R/U and run wireline logs - rig Down & Clean Tanks (Release Rig @ 02:30 ) **Finalized**

**Daily Cost:** \$0

**Cumulative Cost:** \$332,126

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**Pertinent Files: Go to File List**

# Greater Monument Butte R-11-9-16

Spud Date: 11/15/2011  
 Put on Production: 12/29/2011  
 GL: 5570' KB: 5582'

Wellbore Diagram

**SURFACE CASING**

CSG SIZE: 8-5/8"  
 GRADE: J-55  
 WEIGHT: 24#  
 LENGTH: 7 jts. (317.45')  
 DEPTH LANDED: 330.77' KB  
 HOLE SIZE: 12-1/4"  
 CEMENT DATA: 160 sxs Class "G" cmt

**PRODUCTION CASING**

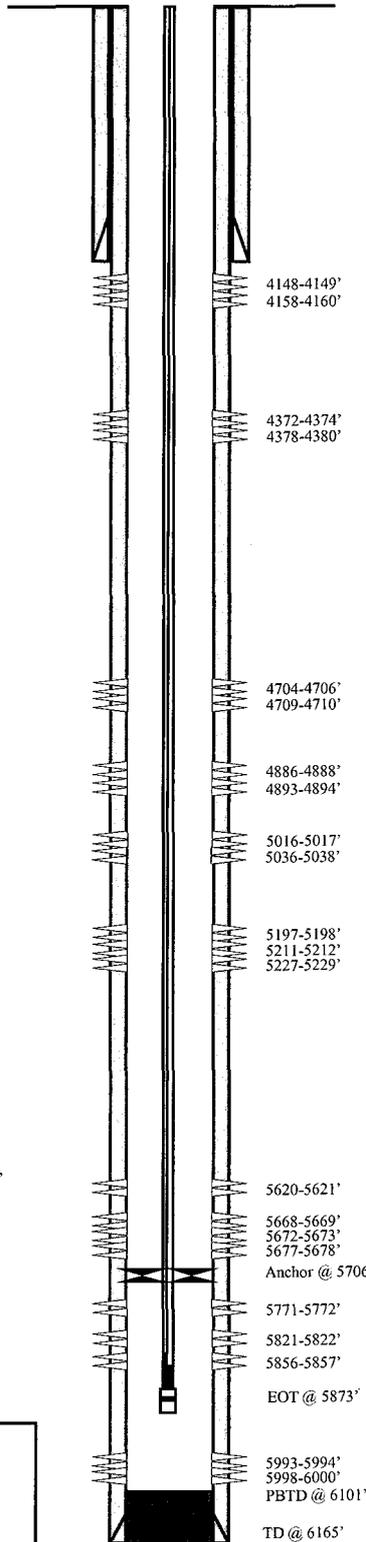
CSG SIZE: 5-1/2"  
 GRADE: J-55  
 WEIGHT: 15.5#  
 LENGTH: 142 jts. (6124.62') - Includes 44.28' Shoe Joint  
 HOLE SIZE: 7-7/8"  
 TOTAL DEPTH: 6148.15' KB  
 CEMENT DATA: 230 sxs Prem. Lite II mixed & 435 sxs 50/50 POZ.  
 CEMENT TOP AT: 45'

**TUBING**

SIZE/GRADE/WT.: 2-7/8" / J-55 / 6.5#  
 NO. OF JOINTS: 183 jts. (5705.9')  
 TUBING ANCHOR: 5705.9' KB  
 NO. OF JOINTS: 1 jt. (31.7')  
 SEATING NIPPLE: 2-7/8" (1.1') / SN LANDED AT: 5740.4' KB  
 NO. OF JOINTS: 1 jt. (31.3')  
 GAS ANCHOR: 5772.8' KB  
 NO. OF JOINTS: 3 jts. (93.9')  
 BULL PLUG: 5872.5' KB  
 TOTAL STRING LENGTH: EOT @ 5873' KB

**SUCKER RODS**

POLISHED ROD: 1 1/2" x 30' Polished Rod  
 SUCKER RODS: 1 - 7/8" x 2' Pony Rod, 1 - 7/8" x 8' Pony Rod, 74 - 7/8" 8per Guided Rods (1850'), 148 - 3/4" 4per Guided Rods (3700'), 5 - 1 1/2" Weight Bars (125'), 5 - 1" x 4' Stabilizer Bars (20')  
 PUMP SIZE: 2 1/2 x 1 3/4" x 20' x 21' x 24' RHAC  
 STROKE LENGTH: 225 max  
 PUMP SPEED: 5 SPM



**FRAC JOB**

Date	Job ID	Description
12/13/2011	5771-6000'	Frac CP3, CP4 and CP5, sands as follows: Frac with 49967# 20/40 white sand in 646 bbls Lightning 17 fluid; 842 total bbls fluid to recover.
12/19/2011	5620-5678'	Frac CP1 and CP2, sands as follows: Frac with 24942# 20/40 white sand in 313 bbls Lightning 17 fluid; 491 total bbls fluid to recover.
12/19/2011	5016-5229'	Frac B2 and A3, sands as follows: Frac with 49322# 20/40 white sand in 409 bbls Lightning 17 fluid; 528 total bbls fluid to recover.
12/19/2011	4704-4894'	Frac D1 and C-Sand, sands as follows: Frac with 60203# 20/40 white sand in 479 bbls Lightning 17 fluid; 591 total bbls fluid to recover.
12/19/2011	4148-4380'	Frac PB8 and GB4, sands as follows: Frac with 106133# 20/40 white sand in 813 bbls Lightning 17 fluid; 985 total bbls fluid to recover.

**RECEIVED**  
**JAN 19 2012**  
 DIV. OF OIL, GAS & MINING

**PERFORATION RECORD**

Depth Range	Perforation Type	Number of Holes
4148-4149'	3 JSPF	3 holes
4158-4160'	3 JSPF	6 holes
4372-4374'	3 JSPF	6 holes
4378-4380'	3 JSPF	6 holes
4704-4706'	3 JSPF	6 holes
4709-4710'	3 JSPF	6 holes
4886-4888'	3 JSPF	6 holes
4893-4894'	3 JSPF	6 holes
5016-5017'	3 JSPF	6 holes
5036-5038'	3 JSPF	6 holes
5197-5198'	3 JSPF	6 holes
5211-5212'	3 JSPF	6 holes
5227-5229'	3 JSPF	6 holes
5620-5621'	3 JSPF	6 holes
5668-5669'	3 JSPF	6 holes
5672-5673'	3 JSPF	6 holes
5677-5678'	3 JSPF	6 holes
5771-5772'	3 JSPF	6 holes
5821-5822'	3 JSPF	6 holes
5856-5857'	3 JSPF	6 holes
5993-5994'	3 JSPF	6 holes
5998-6000'	3 JSPF	6 holes
PBTD @ 6101'	3 JSPF	6 holes
TD @ 6165'	3 JSPF	6 holes



**Greater Monument Butte R-11-9-16**  
 799' FSL & 2047' FWL (SE/SW)  
 Section 11, T9S, R16E  
 Duchesne County, Utah  
 API # 43-013-50579; Lease #UTU-096547