

**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 F-2-9-16		
<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 <input type="checkbox"/> Coalbed Methane Well: NO <input type="checkbox"/>				<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-47172		<b>11. MINERAL OWNERSHIP</b> FEDERAL <input checked="" type="checkbox"/> INDIAN <input type="checkbox"/> STATE <input type="checkbox"/> FEE <input type="checkbox"/>		<b>12. SURFACE OWNERSHIP</b> FEDERAL <input checked="" type="checkbox"/> INDIAN <input type="checkbox"/> STATE <input type="checkbox"/> FEE <input type="checkbox"/>		
<b>13. NAME OF SURFACE OWNER (if box 12 = 'fee')</b>				<b>14. SURFACE OWNER PHONE (if box 12 = 'fee')</b>		
<b>15. ADDRESS OF SURFACE OWNER (if box 12 = 'fee')</b>				<b>16. SURFACE OWNER E-MAIL (if box 12 = 'fee')</b>		
<b>17. INDIAN ALLOTTEE OR TRIBE NAME (if box 12 = 'INDIAN')</b>		<b>18. INTEND TO COMMINGLE PRODUCTION FROM MULTIPLE FORMATIONS</b> YES <input type="checkbox"/> (Submit Commingling Application) NO <input checked="" type="checkbox"/>		<b>19. SLANT</b> VERTICAL <input type="checkbox"/> DIRECTIONAL <input checked="" type="checkbox"/> HORIZONTAL <input type="checkbox"/>		
<b>20. LOCATION OF WELL</b>	<b>FOOTAGES</b>	<b>QTR-QTR</b>	<b>SECTION</b>	<b>TOWNSHIP</b>	<b>RANGE</b>	<b>MERIDIAN</b>
LOCATION AT SURFACE	2103 FNL 451 FEL	SENE	3	9.0 S	16.0 E	S
Top of Uppermost Producing Zone	1620 FNL 150 FEL	SENE	3	9.0 S	16.0 E	S
At Total Depth	1390 FNL 10 FWL	SWNW	2	9.0 S	16.0 E	S
<b>21. COUNTY</b> DUCHESNE		<b>22. DISTANCE TO NEAREST LEASE LINE (Feet)</b> 10		<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> 1504		<b>26. PROPOSED DEPTH</b> MD: 6419 TVD: 6419		
<b>27. ELEVATION - GROUND LEVEL</b> 5543		<b>28. BOND NUMBER</b> WYB000493		<b>29. SOURCE OF DRILLING WATER / WATER RIGHTS APPROVAL NUMBER IF APPLICABLE</b> 43-7478		

**ATTACHMENTS**

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

<input checked="" type="checkbox"/> WELL PLAT OR MAP PREPARED BY LICENSED SURVEYOR OR ENGINEER	<input checked="" type="checkbox"/> COMPLETE DRILLING PLAN
<input 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> 02/08/2010	<b>EMAIL</b> mcrozier@newfield.com
<b>API NUMBER ASSIGNED</b> 43013502550000	<b>APPROVAL</b>   Permit Manager	

**Proposed Hole, Casing, and Cement**

<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	6419		
<b>Pipe</b>	<b>Grade</b>	<b>Length</b>	<b>Weight</b>			
	Grade J-55 LT&C	6419	15.5			

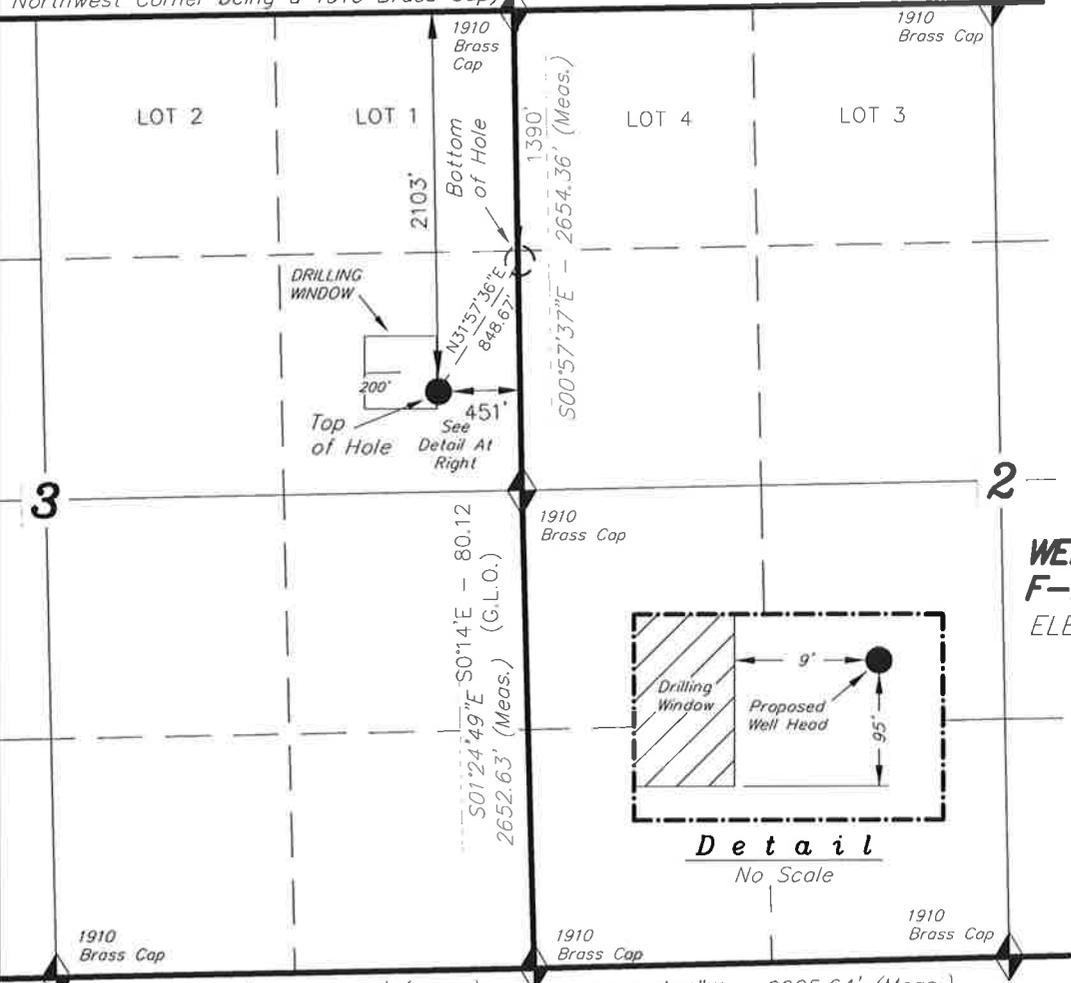
**Proposed Hole, Casing, and Cement**

<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			

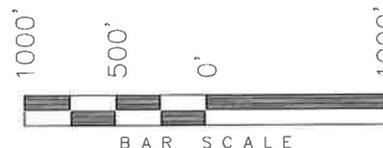
# T9S, R16E, S.L.B.&M.

## NEWFIELD PRODUCTION COMPANY

S89°57'E (G.L.O.)  
 N89°12'10"E - 5280.95' (Meas. to  
 Northwest Corner being a 1910 Brass Cap) 2644.27' (Measured) S89°57'E (G.L.O.)  
 N89°10'51"E (Basis of Bearings)



WELL LOCATION, F-2-9-16, LOCATED AS SHOWN IN THE SE 1/4 NE 1/4 OF SECTION 3, T9S, R16E, S.L.B.&M. DUCHESNE COUNTY, UTAH.

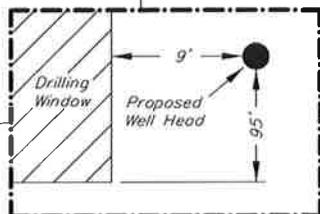


**Note:**

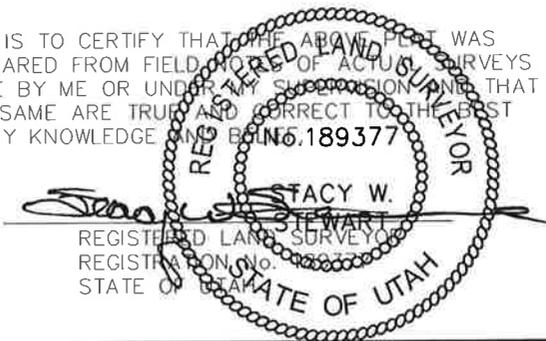
1. The bottom of hole footages are 1390' FNL & 10' FWL of Sec 2, T9S, R16E.

**WELL LOCATION:  
 F-2-9-16**

ELEV. EXIST. GRADED GROUND = 5543'



THIS IS TO CERTIFY THAT THE ABOVE PLAT WAS PREPARED FROM FIELD BOOKS 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'

**F-2-9-16**  
 (Surface Location) NAD 83  
 LATITUDE = 40° 03' 40.99"  
 LONGITUDE = 110° 05' 51.72"

<b>TRI STATE LAND SURVEYING &amp; CONSULTING</b> 180 NORTH VERNAL AVE. - VERNAL, UTAH 84078 (435) 781-2501	
DATE SURVEYED: 09-23-09	SURVEYED BY: T.P.
DATE DRAWN: 10-15-09	DRAWN BY: F.T.M.
REVISED: 01-20-10 - M.W.	SCALE: 1" = 1000'



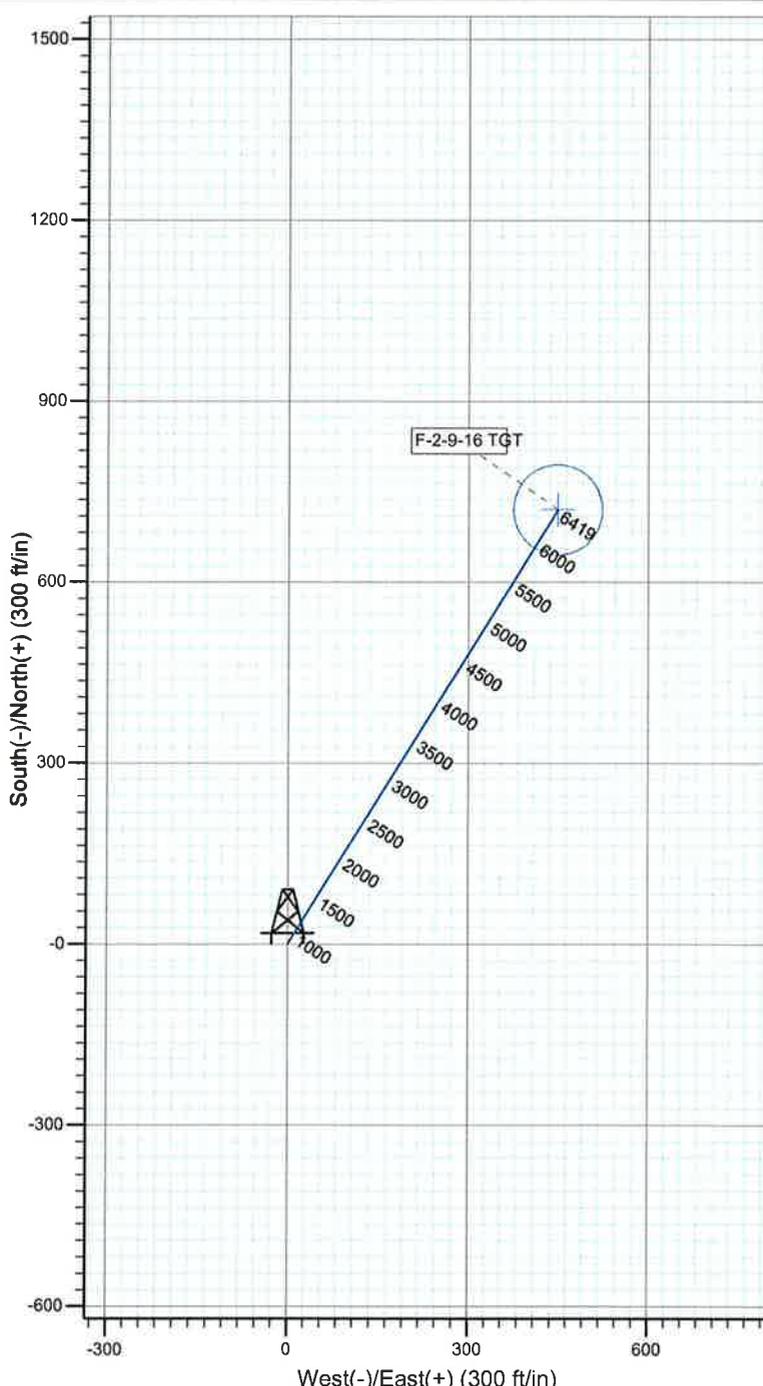
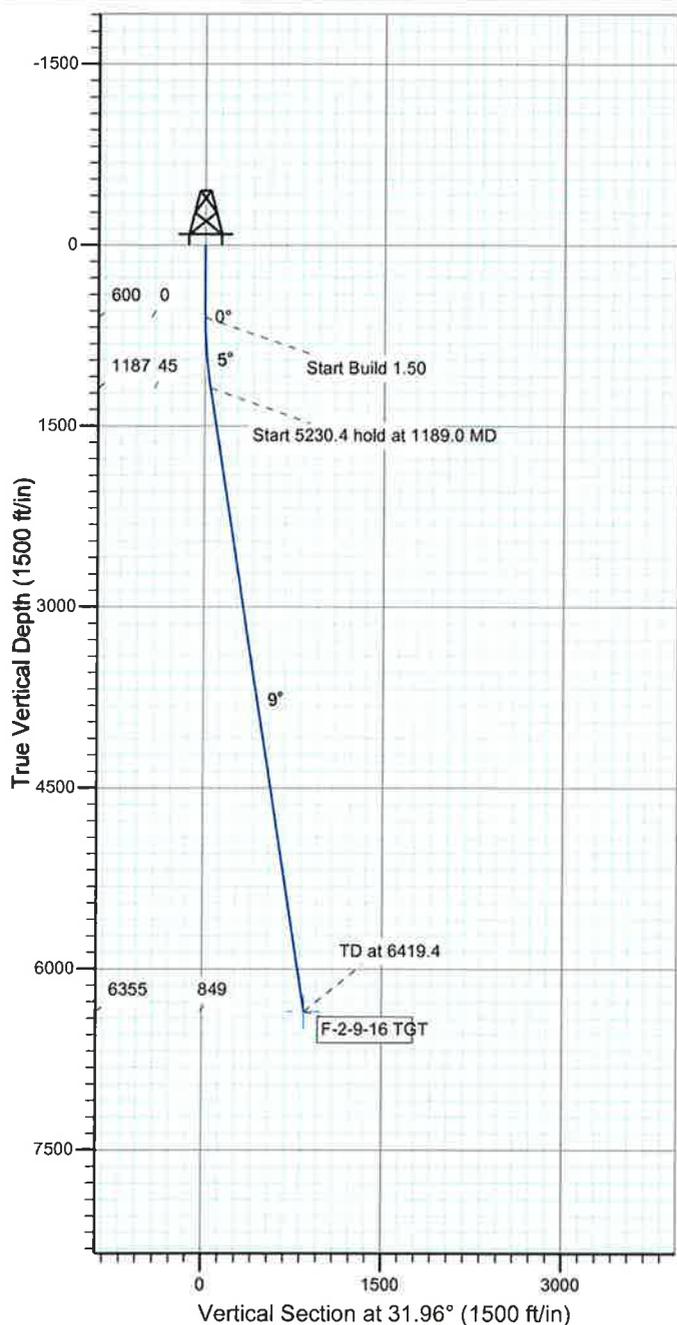
Project: USGS Myton SW (UT)  
 Site: SECTION 3 T9S, R16E  
 Well: F-2-9-16  
 Wellbore: Wellbore #1  
 Design: Design #1



Azimuths to True North  
 Magnetic North: 11.52°

Magnetic Field  
 Strength: 52464.2snT  
 Dip Angle: 65.85°  
 Date: 2009/11/04  
 Model: IGRF200510

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



WELLBORE TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Shape
F-2-9-16 TGT	6355.0	720.0	449.2	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	1189.0	8.84	31.96	1186.7	38.5	24.0	1.50	31.96	45.3	
4	6419.4	8.84	31.96	6355.0	720.0	449.2	0.00	0.00	848.7	F-2-9-16 TGT



**NEWFIELD**



# **NEWFIELD EXPLORATION**

**USGS Myton SW (UT)  
SECTION 3 T9S, R16E  
F-2-9-16**

**Wellbore #1**

**Plan: Design #1**

## **Standard Planning Report**

**22 November, 2009**

**HATHAWAY <sup>HB</sup> BURNHAM**  
**DIRECTIONAL & MWD SERVICES**



## HATHAWAY BURNHAM

Planning Report



<b>Database:</b>	EDM 2003.21 Single User Db	<b>Local Co-ordinate Reference:</b>	Well F-2-9-16
<b>Company:</b>	NEWFIELD EXPLORATION	<b>TVD Reference:</b>	F-2-9-16 @ 5555.0ft (Original Well Elev)
<b>Project:</b>	USGS Myton SW (UT)	<b>MD Reference:</b>	F-2-9-16 @ 5555.0ft (Original Well Elev)
<b>Site:</b>	SECTION 3 T9S, R16E	<b>North Reference:</b>	True
<b>Well:</b>	F-2-9-16	<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		Using geodetic scale factor

<b>Site</b> SECTION 3 T9S, R16E					
<b>Site Position:</b>		<b>Northing:</b>	7,193,000.00ft	<b>Latitude:</b>	40° 3' 29.861 N
<b>From:</b>	Map	<b>Easting:</b>	2,030,700.00ft	<b>Longitude:</b>	110° 6' 20.047 W
<b>Position Uncertainty:</b>	0.0 ft	<b>Slot Radius:</b>	"	<b>Grid Convergence:</b>	0.89 °

<b>Well</b> F-2-9-16, SHL LAT: 40 03 40.99, LONG: -110 05 51.72						
<b>Well Position</b>	<b>+N/-S</b>	1,126.1 ft	<b>Northing:</b>	7,194,160.37 ft	<b>Latitude:</b>	40° 3' 40.990 N
	<b>+E/-W</b>	2,202.6 ft	<b>Easting:</b>	2,032,884.49 ft	<b>Longitude:</b>	110° 5' 51.720 W
<b>Position Uncertainty</b>		0.0 ft	<b>Wellhead Elevation:</b>	5,555.0 ft	<b>Ground Level:</b>	5,543.0 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>
	IGRF200510	2009/11/04	11.52	65.85	52,464

<b>Design</b> Design #1					
<b>Audit Notes:</b>					
<b>Version:</b>	<b>Phase:</b>	PROTOTYPE	<b>Tie On Depth:</b>	0.0	
<b>Vertical Section:</b>	<b>Depth From (TVD) (ft)</b>	<b>+N/-S (ft)</b>	<b>+E/-W (ft)</b>	<b>Direction (°)</b>	
	0.0	0.0	0.0	31.96	

<b>Plan Sections</b>										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	TFO (°)	Target
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.00	0.00	
600.0	0.00	0.00	600.0	0.0	0.0	0.00	0.00	0.00	0.00	
1,189.0	8.84	31.96	1,186.7	38.5	24.0	1.50	1.50	0.00	31.96	
6,419.4	8.84	31.96	6,355.0	720.0	449.2	0.00	0.00	0.00	0.00	F-2-9-16 TGT



## HATHAWAY BURNHAM

Planning Report



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<b>Company:</b>	NEWFIELD EXPLORATION	<b>TVD Reference:</b>	F-2-9-16 @ 5555.0ft (Original Well Elev)
<b>Project:</b>	USGS Myton SW (UT)	<b>MD Reference:</b>	F-2-9-16 @ 5555.0ft (Original Well Elev)
<b>Site:</b>	SECTION 3 T9S, R16E	<b>North Reference:</b>	True
<b>Well:</b>	F-2-9-16	<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	31.96	700.0	1.1	0.7	1.3	1.50	1.50	0.00
800.0	3.00	31.96	799.9	4.4	2.8	5.2	1.50	1.50	0.00
900.0	4.50	31.96	899.7	10.0	6.2	11.8	1.50	1.50	0.00
1,000.0	6.00	31.96	999.3	17.8	11.1	20.9	1.50	1.50	0.00
1,100.0	7.50	31.96	1,098.6	27.7	17.3	32.7	1.50	1.50	0.00
1,189.0	8.84	31.96	1,186.7	38.5	24.0	45.3	1.50	1.50	0.00
1,200.0	8.84	31.96	1,197.5	39.9	24.9	47.0	0.00	0.00	0.00
1,300.0	8.84	31.96	1,296.4	52.9	33.0	62.4	0.00	0.00	0.00
1,400.0	8.84	31.96	1,395.2	65.9	41.1	77.7	0.00	0.00	0.00
1,500.0	8.84	31.96	1,494.0	79.0	49.3	93.1	0.00	0.00	0.00
1,600.0	8.84	31.96	1,592.8	92.0	57.4	108.4	0.00	0.00	0.00
1,700.0	8.84	31.96	1,691.6	105.0	65.5	123.8	0.00	0.00	0.00
1,800.0	8.84	31.96	1,790.4	118.1	73.7	139.2	0.00	0.00	0.00
1,900.0	8.84	31.96	1,889.2	131.1	81.8	154.5	0.00	0.00	0.00
2,000.0	8.84	31.96	1,988.0	144.1	89.9	169.9	0.00	0.00	0.00
2,100.0	8.84	31.96	2,086.9	157.2	98.1	185.2	0.00	0.00	0.00
2,200.0	8.84	31.96	2,185.7	170.2	106.2	200.6	0.00	0.00	0.00
2,300.0	8.84	31.96	2,284.5	183.2	114.3	216.0	0.00	0.00	0.00
2,400.0	8.84	31.96	2,383.3	196.3	122.4	231.3	0.00	0.00	0.00
2,500.0	8.84	31.96	2,482.1	209.3	130.6	246.7	0.00	0.00	0.00
2,600.0	8.84	31.96	2,580.9	222.3	138.7	262.0	0.00	0.00	0.00
2,700.0	8.84	31.96	2,679.7	235.4	146.8	277.4	0.00	0.00	0.00
2,800.0	8.84	31.96	2,778.6	248.4	155.0	292.8	0.00	0.00	0.00
2,900.0	8.84	31.96	2,877.4	261.4	163.1	308.1	0.00	0.00	0.00
3,000.0	8.84	31.96	2,976.2	274.4	171.2	323.5	0.00	0.00	0.00
3,100.0	8.84	31.96	3,075.0	287.5	179.4	338.8	0.00	0.00	0.00
3,200.0	8.84	31.96	3,173.8	300.5	187.5	354.2	0.00	0.00	0.00
3,300.0	8.84	31.96	3,272.6	313.5	195.6	369.6	0.00	0.00	0.00
3,400.0	8.84	31.96	3,371.4	326.6	203.7	384.9	0.00	0.00	0.00
3,500.0	8.84	31.96	3,470.2	339.6	211.9	400.3	0.00	0.00	0.00
3,600.0	8.84	31.96	3,569.1	352.6	220.0	415.6	0.00	0.00	0.00
3,700.0	8.84	31.96	3,667.9	365.7	228.1	431.0	0.00	0.00	0.00
3,800.0	8.84	31.96	3,766.7	378.7	236.3	446.4	0.00	0.00	0.00
3,900.0	8.84	31.96	3,865.5	391.7	244.4	461.7	0.00	0.00	0.00
4,000.0	8.84	31.96	3,964.3	404.8	252.5	477.1	0.00	0.00	0.00
4,100.0	8.84	31.96	4,063.1	417.8	260.7	492.4	0.00	0.00	0.00
4,200.0	8.84	31.96	4,161.9	430.8	268.8	507.8	0.00	0.00	0.00
4,300.0	8.84	31.96	4,260.8	443.8	276.9	523.1	0.00	0.00	0.00
4,400.0	8.84	31.96	4,359.6	456.9	285.0	538.5	0.00	0.00	0.00
4,500.0	8.84	31.96	4,458.4	469.9	293.2	553.9	0.00	0.00	0.00
4,600.0	8.84	31.96	4,557.2	482.9	301.3	569.2	0.00	0.00	0.00
4,700.0	8.84	31.96	4,656.0	496.0	309.4	584.6	0.00	0.00	0.00
4,800.0	8.84	31.96	4,754.8	509.0	317.6	599.9	0.00	0.00	0.00
4,900.0	8.84	31.96	4,853.6	522.0	325.7	615.3	0.00	0.00	0.00
5,000.0	8.84	31.96	4,952.4	535.1	333.8	630.7	0.00	0.00	0.00
5,100.0	8.84	31.96	5,051.3	548.1	342.0	646.0	0.00	0.00	0.00
5,200.0	8.84	31.96	5,150.1	561.1	350.1	661.4	0.00	0.00	0.00



## HATHAWAY BURNHAM

Planning Report



**Database:** EDM 2003.21 Single User Db  
**Company:** NEWFIELD EXPLORATION  
**Project:** USGS Myton SW (UT)  
**Site:** SECTION 3 T9S, R16E  
**Well:** F-2-9-16  
**Wellbore:** Wellbore #1  
**Design:** Design #1

**Local Co-ordinate Reference:** Well F-2-9-16  
**TVD Reference:** F-2-9-16 @ 5555.0ft (Original Well Elev)  
**MD Reference:** F-2-9-16 @ 5555.0ft (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)
5,300.0	8.84	31.96	5,248.9	574.2	358.2	676.7	0.00	0.00	0.00
5,400.0	8.84	31.96	5,347.7	587.2	366.3	692.1	0.00	0.00	0.00
5,500.0	8.84	31.96	5,446.5	600.2	374.5	707.5	0.00	0.00	0.00
5,600.0	8.84	31.96	5,545.3	613.3	382.6	722.8	0.00	0.00	0.00
5,700.0	8.84	31.96	5,644.1	626.3	390.7	738.2	0.00	0.00	0.00
5,800.0	8.84	31.96	5,743.0	639.3	398.9	753.5	0.00	0.00	0.00
5,900.0	8.84	31.96	5,841.8	652.3	407.0	768.9	0.00	0.00	0.00
6,000.0	8.84	31.96	5,940.6	665.4	415.1	784.3	0.00	0.00	0.00
6,100.0	8.84	31.96	6,039.4	678.4	423.3	799.6	0.00	0.00	0.00
6,200.0	8.84	31.96	6,138.2	691.4	431.4	815.0	0.00	0.00	0.00
6,300.0	8.84	31.96	6,237.0	704.5	439.5	830.3	0.00	0.00	0.00
6,400.0	8.84	31.96	6,335.8	717.5	447.6	845.7	0.00	0.00	0.00
6,419.4	8.84	31.96	6,355.0	720.0	449.2	848.7	0.00	0.00	0.00

NEWFIELD PRODUCTION COMPANY  
GREATER MONUMENT BUTTE F-2-9-16  
AT SURFACE: SE/NE SECTION 3, 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 – 1605'
Green River	1605'
Wasatch	6419'

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

Green River Formation 1605' – 6419' – Oil

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 F-2-9-16**

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'	6,419'	15.5	J-55	LTC	4,810	4,040	217,000
						2.36	1.98	2.18

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 F-2-9-16**

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	4,419'	Prem Lite II w/ 10% gel + 3% KCl	305	30%	11.0	3.26
			995			
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 PBTD to cement top. No drill stem testing or coring is planned for this well.

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

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

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

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

It is anticipated that the drilling operations will commence the third quarter of 2010, and take approximately seven (7) days from spud to rig release.

# 2-M SYSTEM

Blowout Prevention Equipment Systems

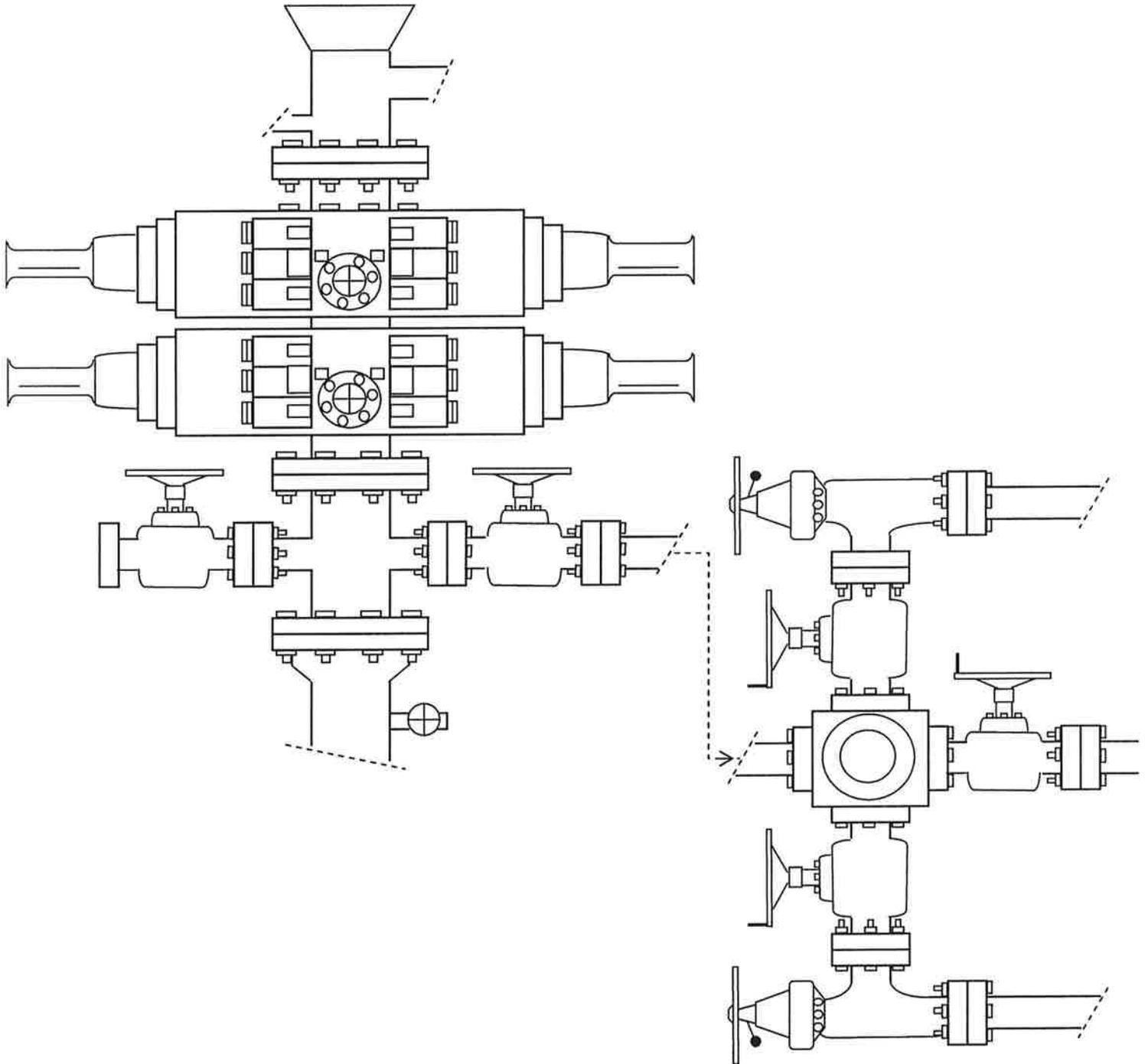
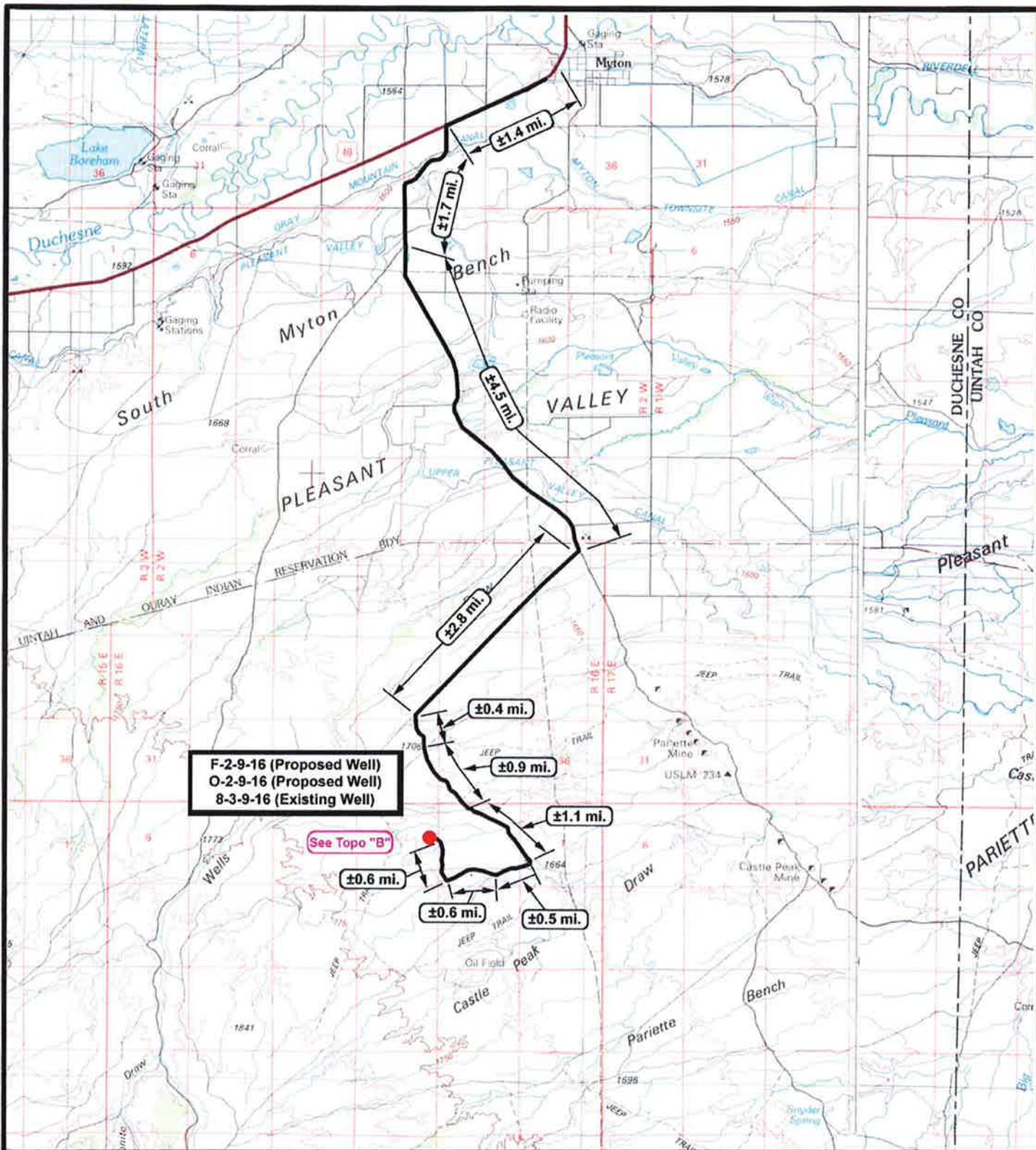


EXHIBIT C



**F-2-9-16 (Proposed Well)  
O-2-9-16 (Proposed Well)  
8-3-9-16 (Existing Well)**

See Topo "B"

**NEWFIELD**  
Exploration Company

**F-2-9-16 (Proposed Well)  
O-2-9-16 (Proposed Well)  
8-3-9-16 (Existing Well)**

**Pad Location SENE SEC. 3, T9S, R16E, S.L.B.&M.**

**Tri-State**  
Land Surveying Inc.  
(435) 781-2501  
180 North Vernal Ave. Vernal, Utah 84078

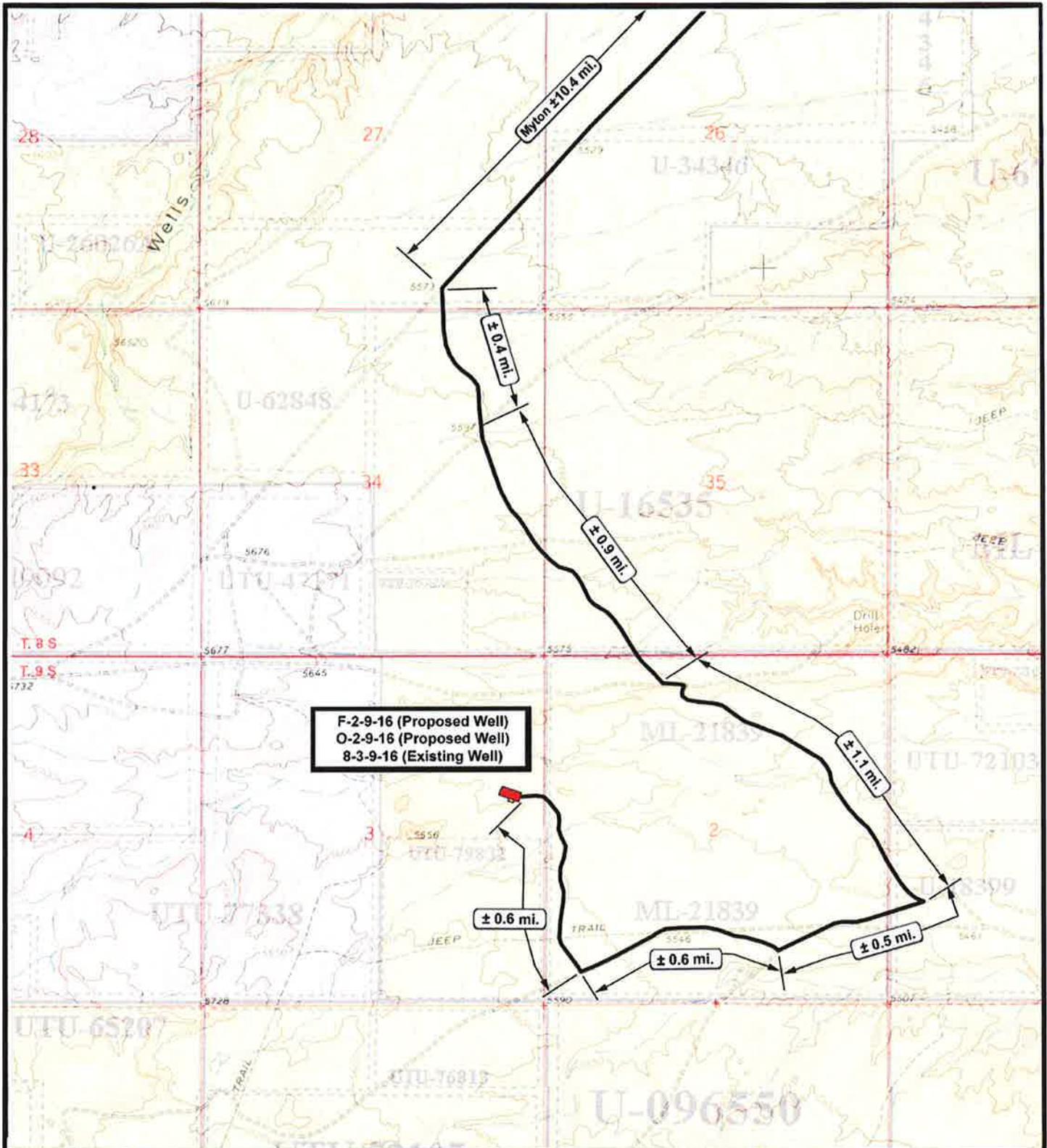
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DATE: 01-20-2010

**Legend**

Existing Road

**TOPOGRAPHIC MAP**

**"A"**



F-2-9-16 (Proposed Well)  
 O-2-9-16 (Proposed Well)  
 8-3-9-16 (Existing Well)



**NEWFIELD**  
 Exploration Company

F-2-9-16 (Proposed Well)  
 O-2-9-16 (Proposed Well)  
 8-3-9-16 (Existing Well)  
 Pad Location SENE SEC. 3, T9S, R16E, S.L.B.&M.



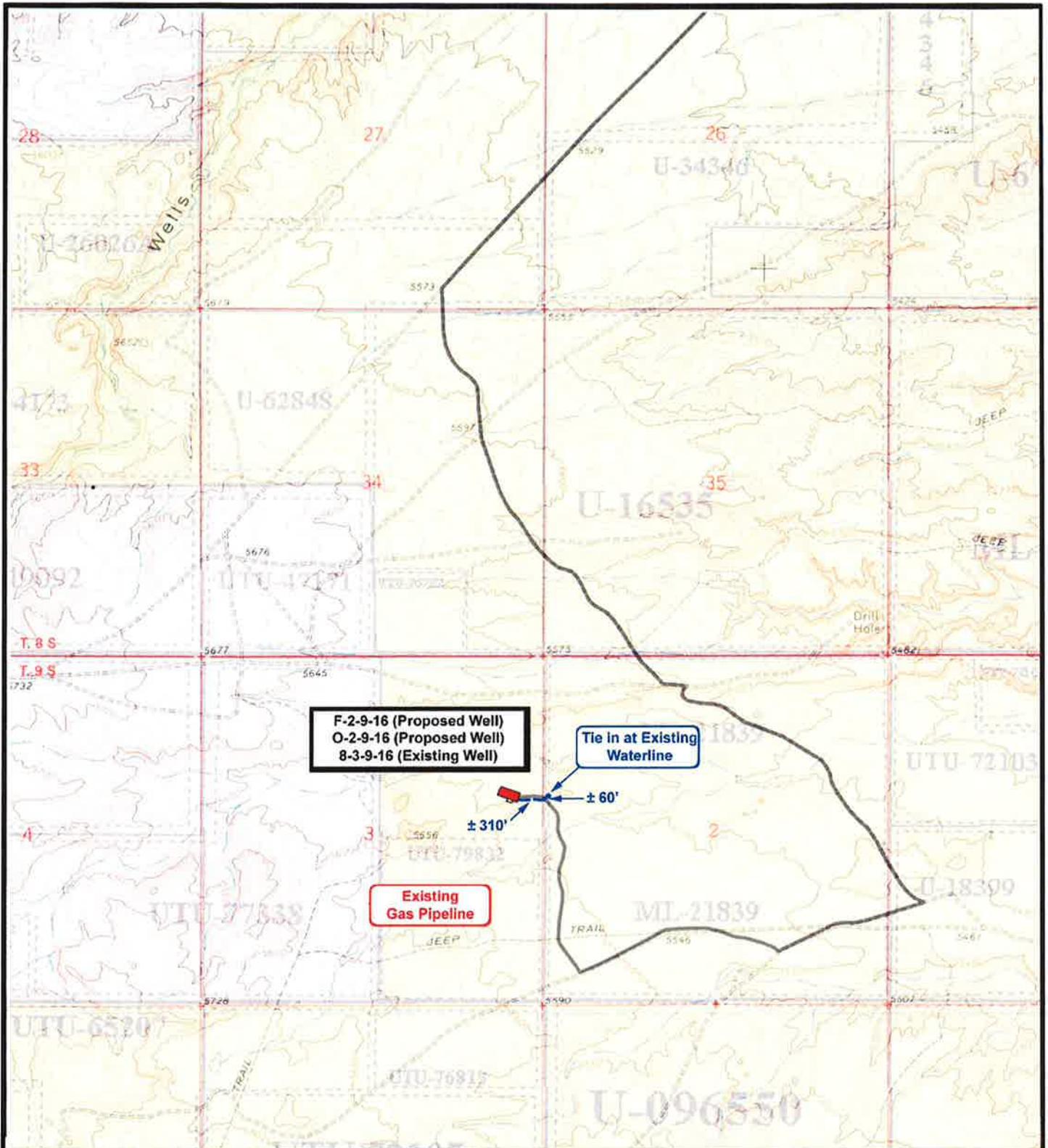

**Tri-State**  
 Land Surveying Inc.  
 (435) 781-2501  
 180 North Vernal Ave. Vernal, Utah 84078

SCALE: 1" = 2,000'  
 DRAWN BY: mw  
 DATE: 01-20-2010

**Legend**

 Existing Road

TOPOGRAPHIC MAP  
**"B"**



F-2-9-16 (Proposed Well)  
 O-2-9-16 (Proposed Well)  
 8-3-9-16 (Existing Well)

Tie in at Existing  
 Waterline

Existing  
 Gas Pipeline

± 310'  
 ± 60'

**NEWFIELD**  
 Exploration Company

F-2-9-16 (Proposed Well)  
 O-2-9-16 (Proposed Well)  
 8-3-9-16 (Existing Well)  
 Pad Location SENE SEC. 3, T9S, R16E, S.L.B.&M.



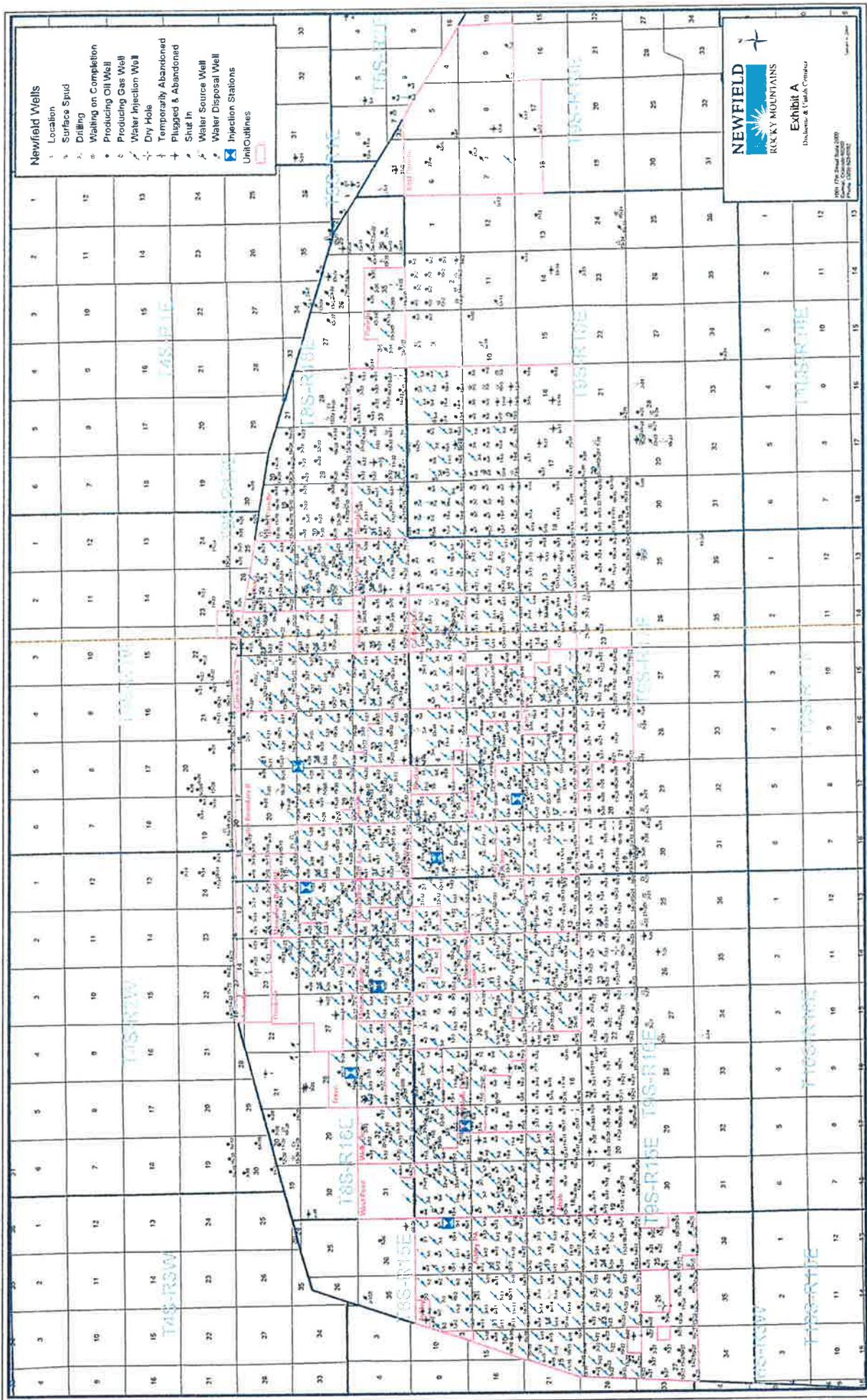
*Tri-State*  
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 (435) 781-2501  
 180 North Vernal Ave. Vernal, Utah 84078

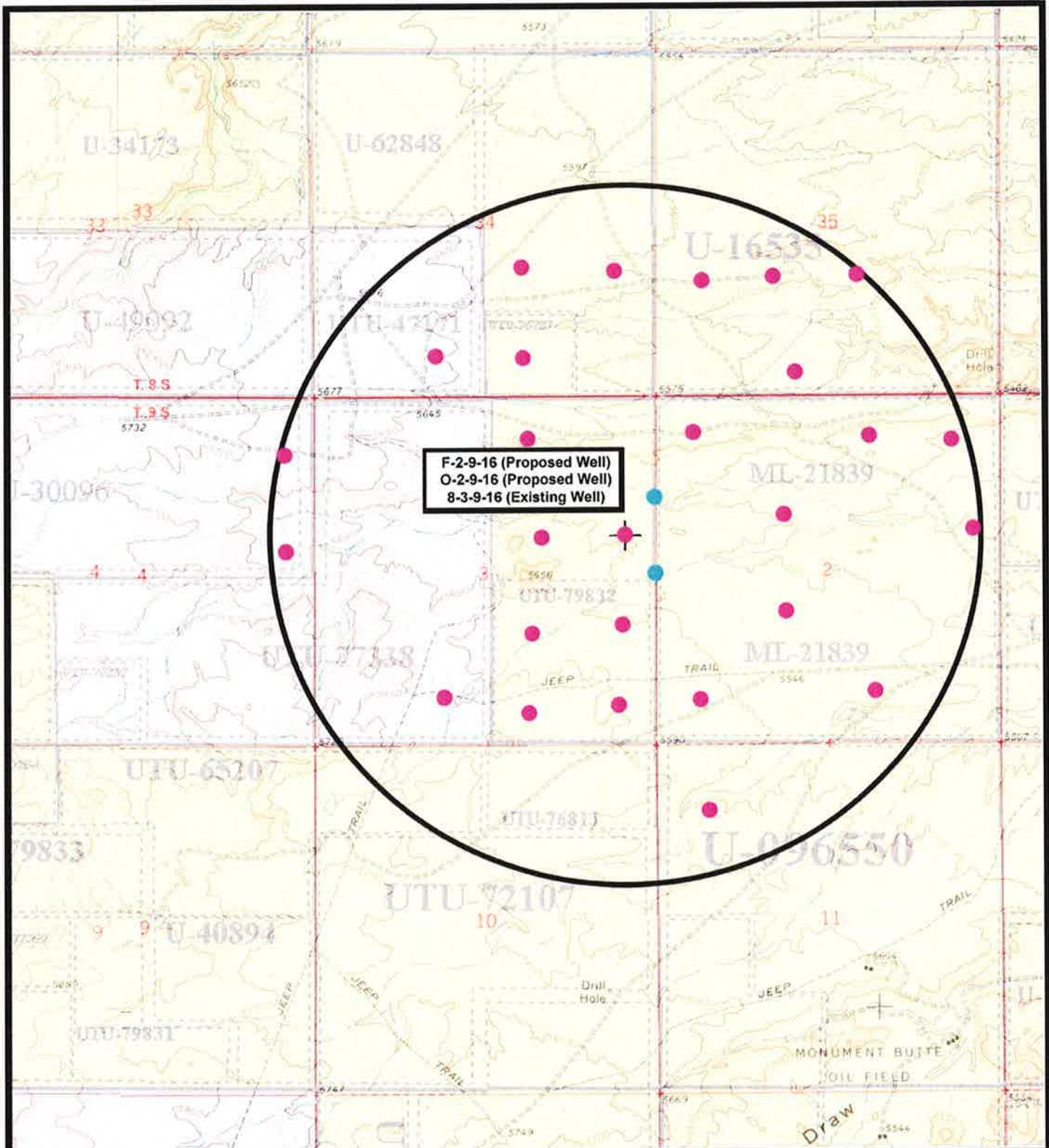
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 DRAWN BY: mw  
 DATE: 01-20-2010

**Legend**

- Roads
- Proposed Water Line

TOPOGRAPHIC MAP  
**"C"**





**NEWFIELD**  
Exploration Company

**F-2-9-16 (Proposed Well)**  
**O-2-9-16 (Proposed Well)**  
**8-3-9-16 (Existing Well)**  
 Pad Location SENE SEC. 3, T9S, R16E, S.L.B.&M.



*Tri-State*  
Land Surveying Inc.  
(435) 781-2501  
180 North Vernal Ave. Vernal, Utah 84078

**SCALE: 1" = 2,000'**  
**DRAWN BY: mw**  
**DATE: 01-20-2010**

**Legend**

- Pad Location
- Bottom Hole Location
- One-Mile Radius

**Exhibit "B"**

**NEWFIELD PRODUCTION COMPANY  
GREATER MONUMENT BUTTE F-2-9-16  
AT SURFACE: SE/NE SECTION 3, 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 F-2-9-16 located in the SE 1/4 NE 1/4 Section 3, T9S, R16E, Duchesne County, Utah:

Proceed southwesterly out of Myton, Utah along Highway 40 - 1.4 miles  $\pm$  to the junction of this highway and UT State Hwy 53; proceed southeasterly - 6.2 miles  $\pm$  to it's junction with an existing dirt road to the southwest; proceed southwesterly - 2.8 miles  $\pm$  to it's junction with an existing road to the southeast; proceed southeasterly - 2.4 miles  $\pm$  to it's junction with an existing road to the west; proceed westerly - 1.1 miles  $\pm$  to it's junction with an existing road to the north; proceed northerly - 0.6 miles  $\pm$  to the existing access road to the 8-3-9-16 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 off of the existing 8-3-9-16 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.

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

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

Tank batteries will be built to State specifications.

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

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

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

Johnson Water District  
Water Right : 43-7478

Neil Moon Pond  
Water Right: 43-11787

Maurice Harvey Pond  
Water Right: 47-1358

Newfield Collector Well  
Water Right: 41-3530 (A30414DV, contracted with the Duchesne County Conservancy District).

Please refer to the Monument Butte Field SOP. See Exhibit "A".

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.

Immediately upon first production, all produced water will be confined to a steel storage tank. If the production water meets quality guidelines, it is transported to the Ashley, Monument Butte, Jonah, 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, is disposed at Newfield's Pariette #4 disposal well (Sec. 7, T9S R19E), State of Utah approved surface disposal facilities, or Federally approved surface disposal facilities.

**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**

Newfield Production Company is responsible for informing all persons in the area who are associated with this project that they will be subject to prosecution for knowingly disturbing historic or archaeological sites, or for collecting artifacts. If historic or archaeological materials are uncovered during construction, Newfield is to immediately stop work that might further disturb such materials and contact the Authorized Officer.

- a) Newfield Production will control noxious weeds along rights-of-way for roads, pipelines, well sites or other applicable facilities. On State administered land it is required that a Pesticide Use Proposal shall be submitted and given approval prior to the application of herbicides or other possible hazardous chemicals.
- b) Drilling rigs and/or equipment used during drilling operations on this well site will not be stacked or stored on State Lands after the conclusion of drilling operations or at any other time without State authorization. However, if State authorization is obtained, it is only a temporary measure to allow time to make arrangements for permanent storage on commercial facilities.

The Archaeological Resource Survey and Paleontological Resource Survey for this area are attached. MOAC Report #05-175, 5/27/05. Paleontological Resource Survey prepared by, Wade E. Miller, 6/2/05. See attached report cover pages, Exhibit "D".

**Additional Surface Stipulations**

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

**Hazardous Material Declaration**

Newfield Production Company guarantees that during the drilling and completion of the Greater Monument Butte F-2-9-16, 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 F-2-9-16, 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.

The State office shall be notified upon site completion prior to moving on the drilling rig.

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 #F-2-9-16, 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.

2/5/10  
Date

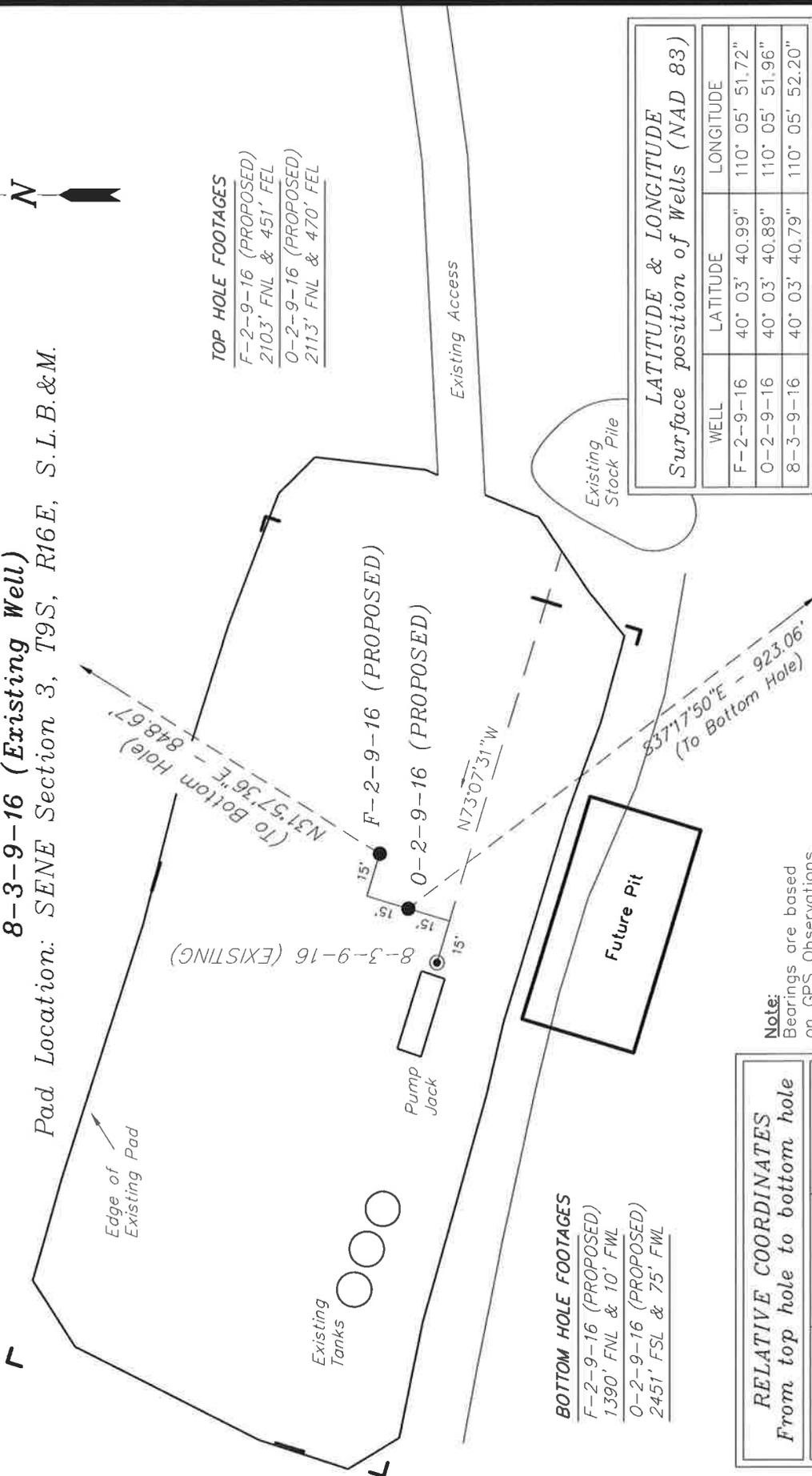
  
Mandie Crozier  
Regulatory Specialist  
Newfield Production Company

# NEWFIELD PRODUCTION COMPANY

## WELL PAD INTERFERENCE PLAT

- F-2-9-16 (Proposed Well)
- O-2-9-16 (Proposed Well)
- 8-3-9-16 (Existing Well)

Pad Location: SENE Section 3, T9S, R16E, S.L.B.&M.



### TOP HOLE FOOTAGES

- F-2-9-16 (PROPOSED)  
2103' FNL & 451' FEL
- O-2-9-16 (PROPOSED)  
2113' FNL & 470' FEL

### BOTTOM HOLE FOOTAGES

- F-2-9-16 (PROPOSED)  
1390' FNL & 10' FWL
- O-2-9-16 (PROPOSED)  
2451' FSL & 75' FWL

### LATITUDE & LONGITUDE

Surface position of Wells (NAD 83)

WELL	LATITUDE	LONGITUDE
F-2-9-16	40° 03' 40.99"	110° 05' 51.72"
O-2-9-16	40° 03' 40.89"	110° 05' 51.96"
8-3-9-16	40° 03' 40.79"	110° 05' 52.20"

### RELATIVE COORDINATES

From top hole to bottom hole

WELL	NORTH	EAST
F-2-9-16	720'	449'
O-2-9-16	-734'	559'

Note:  
Bearings are based on GPS Observations.

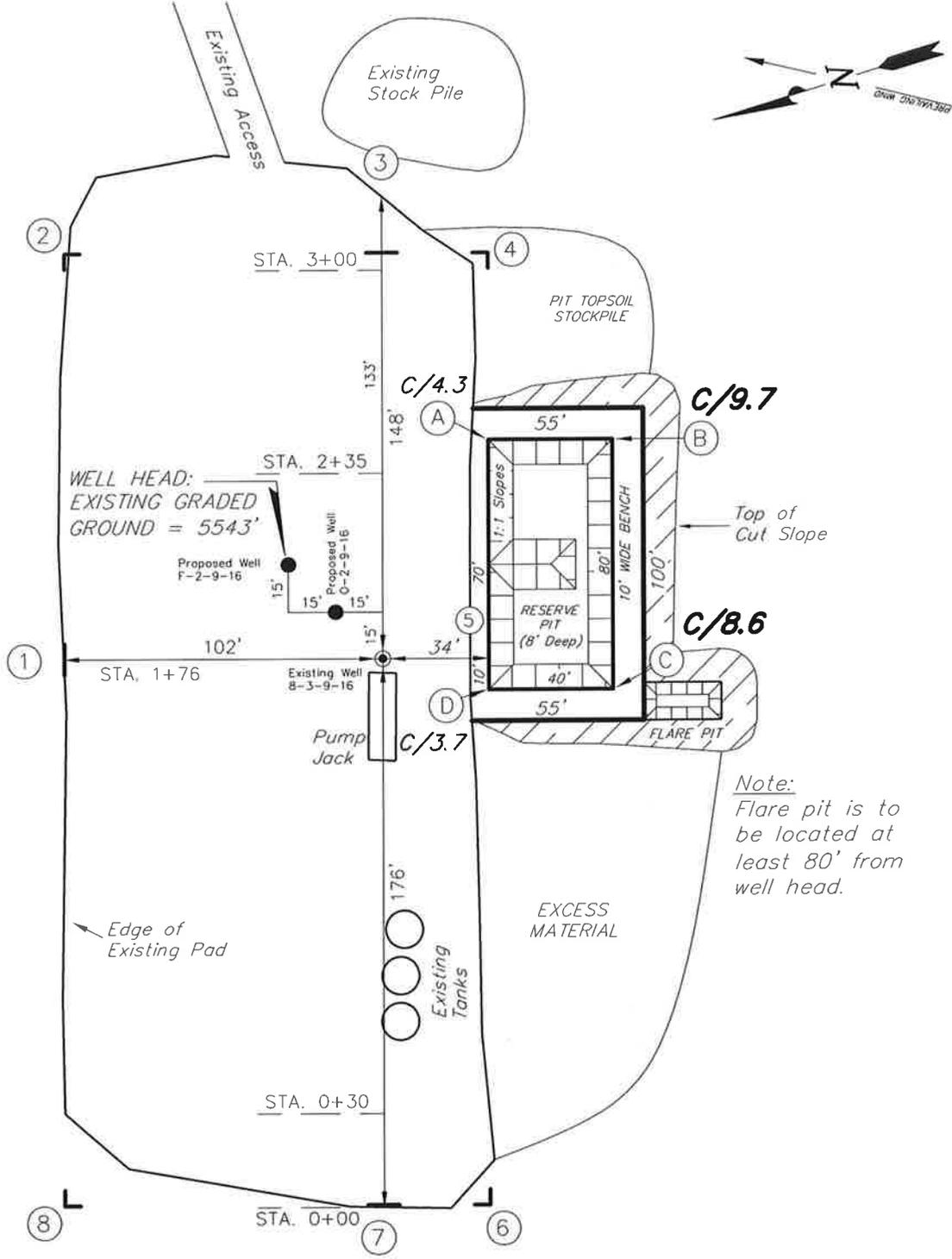
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DRAWN BY: F.T.M.	DATE DRAWN: 10-15-09
SCALE: 1" = 50'	REVISED: M.W. - 01-20-10

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

# NEWFIELD PRODUCTION COMPANY

**F-2-9-16 (Proposed Well)**  
**0-2-9-16 (Proposed Well)**  
**8-3-9-16 (Existing Well)**

Pad Location: SENE Section 3, T9S, R16E, S.L.B.&M.



*Note:*  
Flare pit is to be located at least 80' from well head.

SURVEYED BY: T.P.	DATE SURVEYED: 09-23-09
DRAWN BY: F.T.M.	DATE DRAWN: 10-15-09
SCALE: 1" = 50'	REVISED: M.W. - 01-20-10

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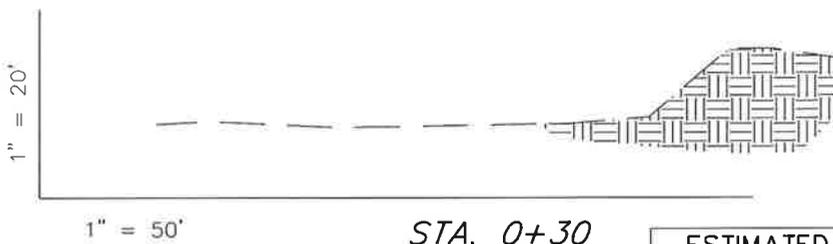
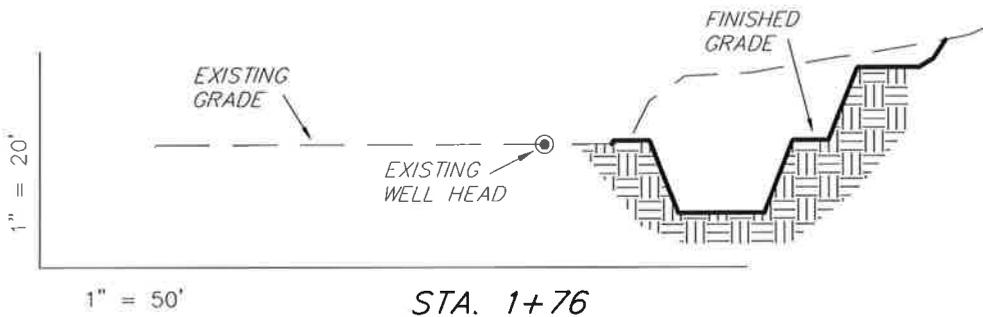
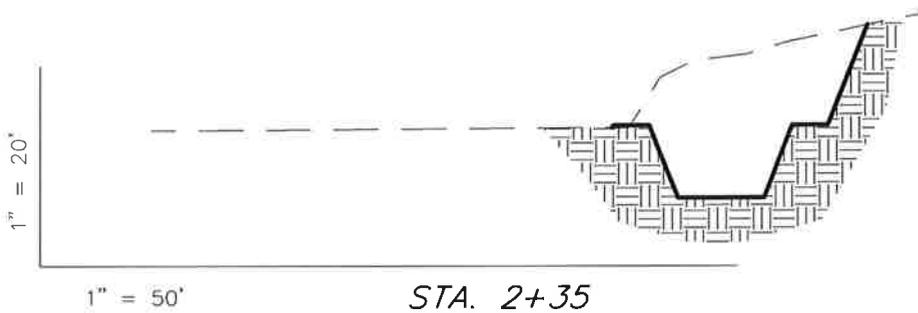
# NEWFIELD PRODUCTION COMPANY

## CROSS SECTIONS

*F-2-9-16 (Proposed Well)*

*O-2-9-16 (Proposed Well)*

*8-3-9-16 (Existing Well)*



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

ESTIMATED EARTHWORK QUANTITIES (No Shrink or swell adjustments have been used) (Expressed in Cubic Yards)				
ITEM	CUT	FILL	6" TOPSOIL	EXCESS
PAD	1,820	10	Topsoil is not included in Pad Cut	1,810
PIT	640	0		640
<b>TOTALS</b>	<b>2,460</b>	<b>10</b>	<b>160</b>	<b>2,450</b>

SURVEYED BY: T.P.	DATE SURVEYED: 09-23-09
DRAWN BY: F.T.M.	DATE DRAWN: 10-15-09
SCALE: 1" = 50'	REVISED: M.W. - 01-20-10

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# Newfield Production Company Proposed Site Facility Diagram

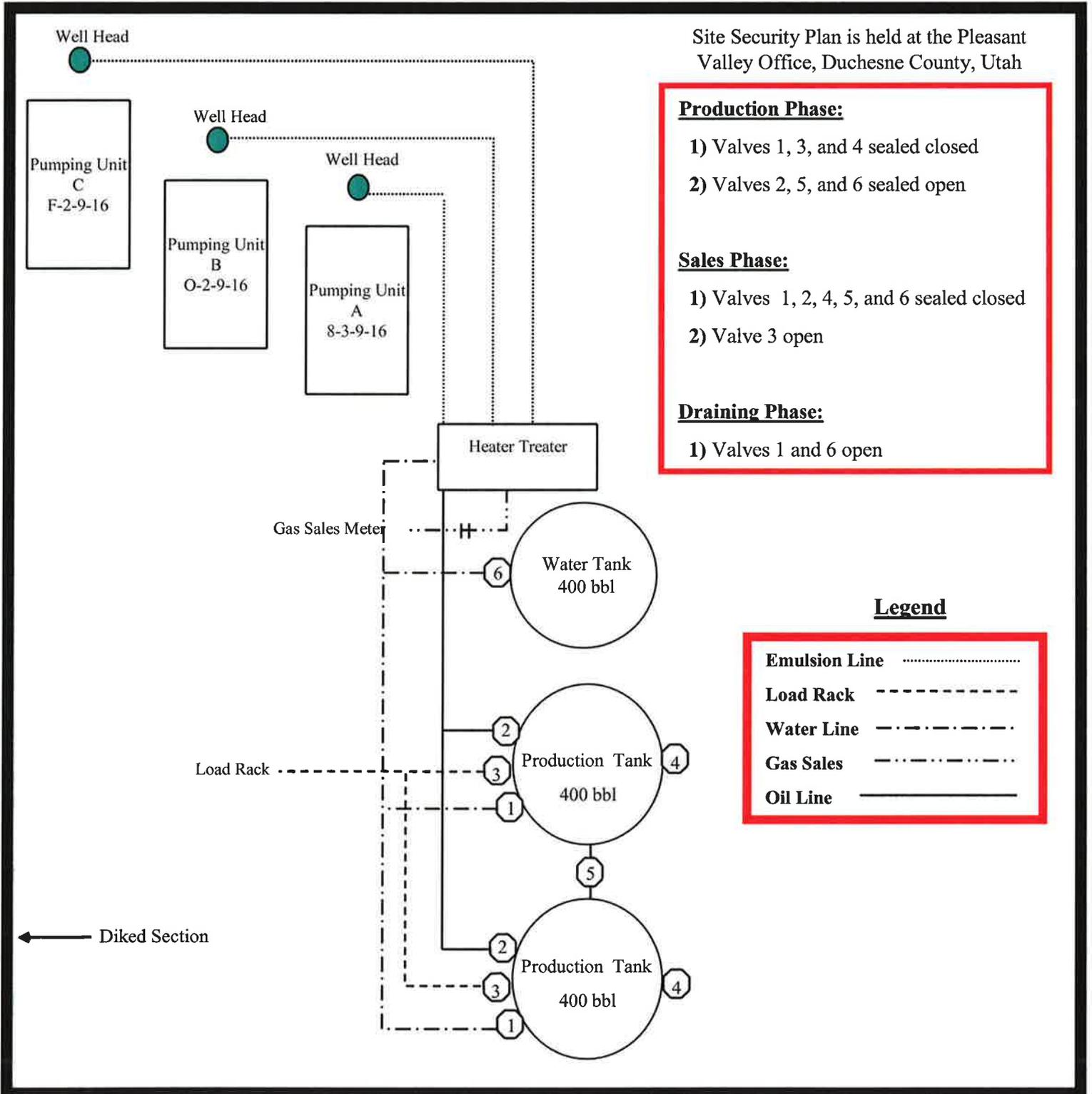
Greater Monument Butte F-2-9-16

From the 8-3-9-16 Location

SE/NE Sec. 3 T9S, R16E

Duchesne County, Utah

UTU-47172



Site Security Plan is held at the Pleasant Valley Office, Duchesne County, Utah

**Production Phase:**

- 1) Valves 1, 3, and 4 sealed closed
- 2) Valves 2, 5, and 6 sealed open

**Sales Phase:**

- 1) Valves 1, 2, 4, 5, and 6 sealed closed
- 2) Valve 3 open

**Draining Phase:**

- 1) Valves 1 and 6 open

**Legend**

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

F-2-9-16

Exhibit "D"

1 of 2

A CULTURAL RESOURCE INVENTORY OF  
NEWPORT EXPLORATION'S TWO BLOCK SURVEYS  
IN T9S, R18E, SEC. 8 UINTAH COUNTY, UTAH  
AND T9S, R16E, SEC.3, DUCHESNE COUNTY, UTAH.

By:  
Keith R. Montgomery  
and  
Kate Freudenberg

Prepared For:

Bureau of Land Management  
Vernal Field Office

Prepared Under Contract With:

Newfield Exploration  
Route 3 Box 3630  
Myton, UT 84052

Prepared By:

Montgomery Archaeological Consultants  
P.O. Box 147  
Moab, Utah 84532

MOAC Report No. 05-175

May 27, 2005

United States Department of Interior (FLPMA)  
Permit No. 05-UT-60122

State of Utah Antiquities Project (Survey)  
Permit No. U-05-MQ-0483b

F-2-9-16

2 of 2

**NEWFIELD PRODUCTION COMPANY**

**PALEONTOLOGICAL SURVEY OF PROPOSED  
PRODUCTION DEVELOPMENT AREAS,  
DUCHESNE COUNTY, UTAH**

Section 20, T 9 S, R 17 E [entire section excluding the NE 1/4, NE 1/4; NW 1/4, NE 1/4; NE 1/4, NW 1/4; and NW 1/4, NW 1/4]; Section 21, T 9 S, R 17 E [entire section excluding the NE 1/4, NE 1/4], and Section 3, T 9 S, R, 16 E, the following parcels [NW 1/4, NE 1/4; SW 1/4, NE 1/4; SE 1/4, NE 1/4; NE 1/4, SE 1/4; NW 1/4, SE 1/4; SW 1/4, SE 1/4 and SE 1/4, SE 1/4].

**REPORT OF SURVEY**

Prepared for:

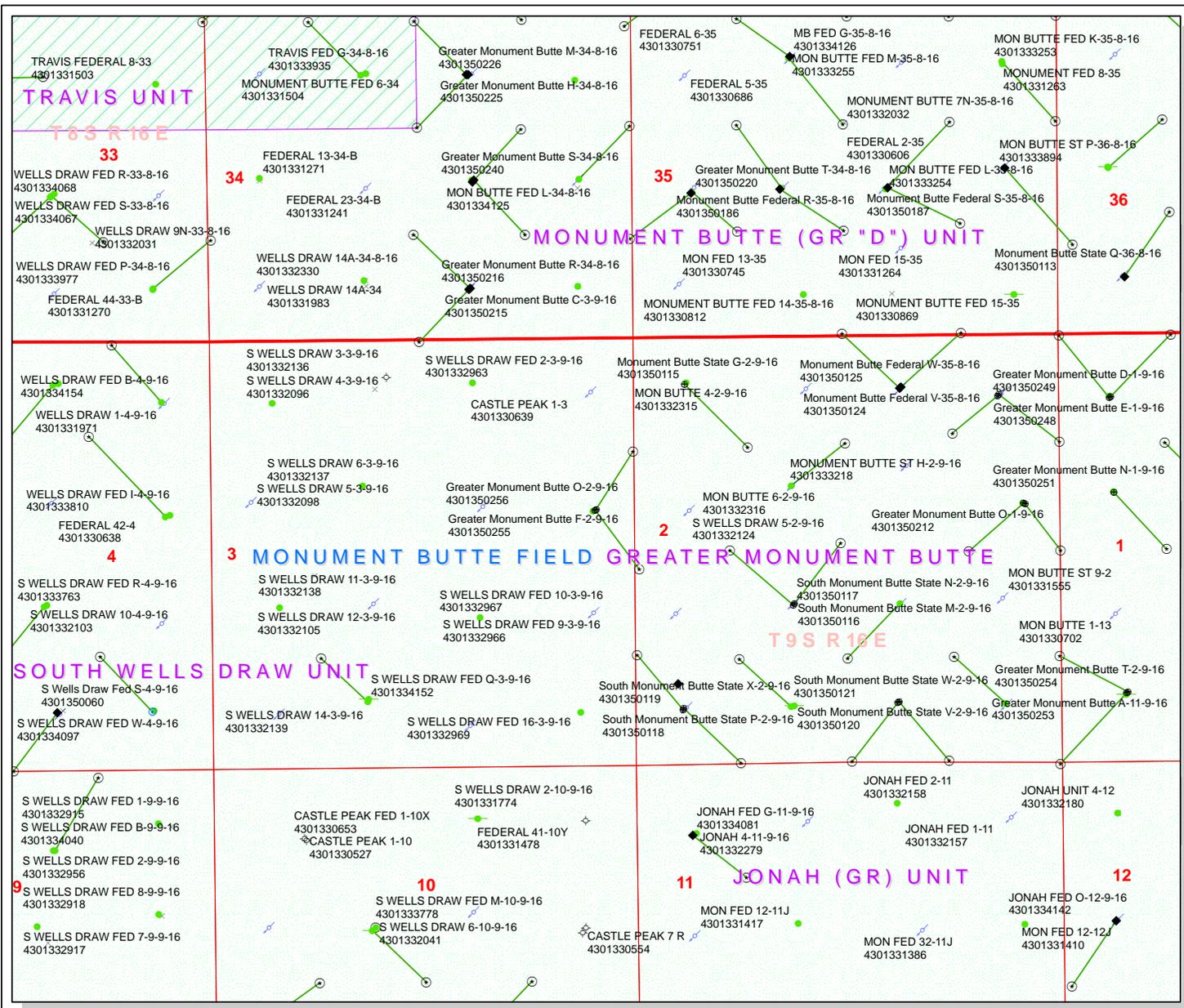
**Newfield Production Company**

Prepared by:

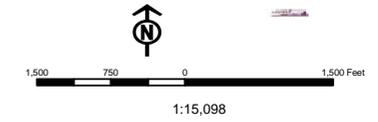
Wade E. Miller  
Consulting Paleontologist  
June 2, 2005

**API Number: 4301350255**  
**Well Name: Greater Monument Butte F-2-9-16**  
**Township 09.0 S Range 16.0 E Section 3**  
**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 GEOTHERMAL	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	SGW - Shut-in Oil Well
ABANDONED	SOW - Shut-in Oil Well
ACTIVE	TA - Temp. Abandoned
COMBINED	TW - Test Well
INACTIVE	WDW - Water Disposal
STORAGE	WWI - Water Injection Well
TERMINATED	WSW - Water Supply Well
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)

February 10, 2010

Memorandum

To: Assistant District Manager Minerals, Vernal District  
From: Michael Coulthard, Petroleum Engineer  
Subject: 2010 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 vertical and horizontal wells are planned for calendar year 2010 within the Greater Monument Butte Unit, Duchesne and Uintah Counties, Utah.

API#	WELL NAME	LOCATION
(Proposed PZ GREEN RIVER)		
43-013-34222	GMBBU 14-36-8-15H	Sec 36 T08S R15E 0502 FSL 2096 FWL
	Lateral 1	Sec 36 T08S R15E 0386 FNL 0824 FEL
43-013-50242	GMBU 14-14T-9-15H	Sec 14 T09S R15E 0510 FSL 2307 FWL
	Lateral 1	Sec 14 T09S R15E 0283 FNL 1150 FEL
43-013-50243	GMBU 15-22-9-15H	Sec 22 T09S R15E 0661 FSL 1978 FEL
	Lateral 1	Sec 15 T09S R15E 0172 FSL 0375 FEL
43-013-50244	GMBU I-2-9-16	Sec 02 T09S R16E 0750 FNL 0755 FEL
	BHL	Sec 02 T09S R16E 1207 FNL 1320 FEL
43-013-50248	GMBU E-1-9-16	Sec 01 T09S R16E 0787 FNL 0628 FWL
	BHL	Sec 01 T09S R16E 0010 FNL 0010 FWL
43-013-50249	GMBU D-1-9-16	Sec 01 T09S R16E 0775 FNL 0645 FWL
	BHL	Sec 01 T09S R16E 0010 FNL 1395 FWL
43-013-50250	GMBU M-1-9-16	Sec 01 T09S R16E 1998 FSL 1974 FWL
	BHL	Sec 01 T09S R16E 2630 FNL 2630 FEL
43-013-50251	GMBU N-1-9-16	Sec 01 T09S R16E 1965 FNL 0674 FWL
	BHL	Sec 01 T09S R16E 2635 FSL 1325 FWL

43-013-50252	GMBU C-26-8-16	Sec 23 T08S R16E 0635 FSL 1972 FWL
		BHL Sec 26 T08S R16E 0010 FNL 2635 FEL
43-013-50253	GMBU A-11-9-16	Sec 01 T09S R16E 0856 FSL 0817 FWL
		BHL Sec 11 T09S R16E 0010 FNL 0010 FEL
43-013-50254	GMBU T-2-9-16	Sec 01 T09S R16E 0871 FSL 0831 FWL
		BHL Sec 02 T09S R16E 1325 FSL 0010 FEL
43-013-50255	GMBU F-2-9-16	Sec 03 T09S R16E 2103 FNL 0451 FEL
		BHL Sec 02 T09S R16E 1390 FNL 0010 FWL
43-013-50256	GMBU O-2-9-16	Sec 03 T09S R16E 2113 FNL 0470 FEL
		BHL Sec 02 T09S R16E 2451 FSL 0075 FWL
43-013-50257	GMBU H-1-9-16	Sec 01 T09S R16E 0679 FNL 1992 FEL
		BHL Sec 01 T09S R16E 1325 FNL 2635 FWL
43-013-50258	GMBU R-26-8-16	Sec 26 T08S R16E 1970 FSL 2033 FEL
		BHL Sec 26 T08S R16E 1310 FSL 2635 FWL

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

/s/ Michael L. Coulthard

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

MCoulthard:mc:2-10-10



February 9, 2010

State of Utah, Division of Oil, Gas and Mining  
ATTN: Diana Mason  
P.O. Box 145801  
Salt Lake City, UT 84114-5801

2346

RE: Directional Drilling  
**Greater Monument Butte F-2-9-16**  
Greater Monument Butte (Green River) Unit

Surface Hole: T9S-R16E Section 3: SENE (UTU-47172)  
2103' FNL 451' FEL

At Target: T9S-R16E Section 2: SWNW (ML-21839)  
1390' FNL 10' FWL

Duchesne County, Utah

Dear Ms. Mason;

Pursuant to the filing by Newfield Production Company (NPC) of an Application for Permit to Drill the above referenced well dated 2/5/10, a copy of which is attached, and in accordance with Oil and Gas Conservation Rule R649-3-11, NPC hereby submits this letter as notice of our intention to directionally drill this well.

The surface hole and target locations of this well are both within the boundaries of the Greater Monument Butte Unit (UTU-87538X), of which Newfield certifies that it is the operator. Further, Newfield Certifies that all lands within 460 feet of the entire directional well bore are within the Greater Monument Butte Unit.

NPC is permitting this well as a directional well in order to mitigate surface disturbance by utilizing pre-existing roads and pipelines.

NPC hereby requests our application for permit to drill be granted pursuant to R649-3-11. If you have any questions or require further information, please contact the undersigned at 303-383-4197 or by email at [sgillespie@newfield.com](mailto:sgillespie@newfield.com). Your consideration in this matter is greatly appreciated.

Sincerely,  
Newfield Production Company

  
Shane Gillespie  
Land Associate

RECEIVED

FEB 16 2010

DIV. OF OIL, GAS & MINING

# WORKSHEET APPLICATION FOR PERMIT TO DRILL

**APD RECEIVED:** 2/8/2010

**API NO. ASSIGNED:** 43013502550000

**WELL NAME:** Greater Monument Butte F-2-9-16

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

**PHONE NUMBER:** 435 646-4825

**CONTACT:** Mandie Crozier

**PROPOSED LOCATION:** SENE 3 090S 160E

**Permit Tech Review:**

**SURFACE:** 2103 FNL 0451 FEL

**Engineering Review:**

**BOTTOM:** 1390 FNL 0010 FWL

**Geology Review:**

**COUNTY:** DUCHESNE

**LATITUDE:** 40.06135

**LONGITUDE:** -110.09704

**UTM SURF EASTINGS:** 577010.00

**NORTHINGS:** 4434747.00

**FIELD NAME:** MONUMENT BUTTE

**LEASE TYPE:** 1 - Federal

**LEASE NUMBER:** UTU-47172

**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: 43-7478
- RDCC Review:
- Fee Surface Agreement
- Intent to Commingle

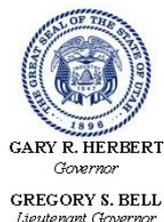
Commingling Approved

## 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



# 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 F-2-9-16  
**API Well Number:** 43013502550000  
**Lease Number:** UTU-47172  
**Surface Owner:** FEDERAL  
**Approval Date:** 2/18/2010

### 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:

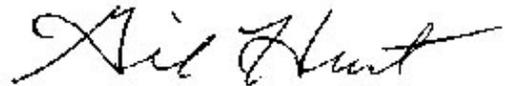
- Within 24 hours following the spudding of the well – contact Carol Daniels at 801-538-5284 (please leave a voicemail message if not available)  
OR  
submit an electronic sundry notice (pre-registration required) via the Utah Oil & Gas website at <https://oilgas.ogm.utah.gov>

**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 that reads "Gil Hunt". The signature is written in a cursive, flowing style.

Gil Hunt  
Associate Director, Oil & Gas

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

**APPLICATION FOR PERMIT TO DRILL OR REENTER**

5. Lease Serial No. UTU-47172	
6. If Indian, Allottee or Tribe Name NA	
7. If Unit or CA Agreement, Name and No. Greater Monument Butte	
8. Lease Name and Well No. Greater Monument Butte F-2-9-16	
9. API Well No. 43-013-50255	
10. Field and Pool, or Exploratory Monument Butte	
11. Sec., T. R. M. or Blk. and Survey or Area Sec. 3, T9S R16E	
12. County or Parish Duchesne	13. State UT
14. Distance in miles and direction from nearest town or post office* Approximately 14.5 miles south of Myton, UT	
15. Distance from proposed* location to nearest property or lease line, ft. Approx. 10' f/lse, NA' f/unit (Also to nearest drig. unit line, if any)	16. No. of acres in lease 160.60
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. 1504'
19. Proposed Depth 6,419'	20. BLM/BIA Bond No. on file WYB000493
21. Elevations (Show whether DF, KDB, RT, GL, etc.) 5543' GL	22. Approximate date work will start* 3rd Qtr. 2010
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 2/5/10
Title Regulatory Specialist		
Approved by (Signature) 	Name (Printed/Typed) James H. Sparger	Date OCT 07 2010
Title Acting 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.

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

(Continued on page 2)

\*(Instructions on page 2)



RECEIVED  
NOV 17 2010

DIV. OF OIL, GAS & MINING

RECEIVED

FEB 10 2010

BLM VERNAL, UTAH

NOS 11/20/2009  
AFMSS# 10SX50080A

NOTICE OF APPROVAL

CONDITIONS OF APPROVAL ATTACHED



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: Greater Monument Butte F-2-9-16  
API No: 43-013-50255

Location: SENE, Sec. 3, T9S R16E  
Lease No: UTU-47172  
Agreement: Greater Monument Butte

**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.

**SITE SPECIFIC CONDITIONS OF APPROVAL:**

- Construction and drilling is not allowed from February 1 – August 15 to minimize impacts during golden eagle nesting.
- If it is anticipated that construction or drilling will occur during the given timing restriction, a BLM or qualified biologist should 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 biologist.
- A hospital muffler will be used on the pump-jack upon completion in order to reduce noise levels for nesting raptors in the area.
- Prior to construction, an invasive plants/noxious weeds inventory will be completed for all areas where surface disturbance will occur, and a completed Weed Inventory Form will be submitted to the BLM Authorized Officer.

**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.

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

Common name	Latin name	lbs/acre	Recommended seed planting depth
Squirreltail grass	<i>Elymus elymoides</i>	3.0	1/4 - 1/2"
Bluebunch wheatgrass	<i>Pseudoroegneria spicata</i>	3.0	1/2"
Shadscale saltbush	<i>Atriplex confertifolia</i>	3.0	1/2"
Four-wing saltbush	<i>Atriplex canescens</i>	3.0	1/2"
Gardner's saltbush	<i>Atriplex gardneri</i>	2.0	1/2"

Scarlet globemallow	<i>Sphaeralcea coccinea</i>	1.0	1/8 - 1/4"
---------------------	---------------------------------	-----	------------

- All pounds are pure live seed.
- All seed and mulch would 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:**

- The operator shall comply with all applicable requirements in the SOP (version: "Monument Butte Development Program", June 24, 2008). The operator shall also comply with applicable laws and regulations; with the 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. 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.
- In accordance with 43 CFR 3162.4-3, this well shall be reported on the "Monthly Report of Operations" (Oil and Gas Operations Report ((OGOR)) starting with the month in which operations commence and continue each month until the well is physically plugged and abandoned. This report shall be filed in duplicate, directly with the Minerals Management Service, P.O. Box 17110, Denver, Colorado 80217-0110, or call 1-800-525-7922 (303) 231-3650 for reporting information.
- 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 ( $\frac{1}{4}\frac{1}{4}$ , 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 - <sup>Spud</sup> Notification Form

Operator Newfield Exploration Rig Name/# Ross #21  
Submitted By Mitch Benson Phone Number (435) 823-5885  
Name/Numer GREATER MONUMENT BUTTE F-2-9-16  
Qtr/Qrt SW/NW Section 3 Township 9S Range 16E  
Lease Serial Number UTU-47172  
API Number 43-013-50255

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

Date/Time 11/18/2010 8:00:00 AM

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

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

Date/Time 11/18/2010 2:00:00 PM

Remarks:

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

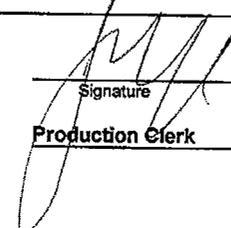
OPERATOR: **NEWFIELD PRODUCTION COMPANY**  
 ADDRESS: **RT. 3 BOX 3630**  
**MYTON, UT 84052**

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		
A	99999	17872	4301334241	UTE TRIBAL 9-19-4-2	NESE	19	4S	2W	DUCHESNE	11/20/2010	11/29/10
WELL 1 COMMENTS: <b>GRRV</b>											
<b>CONFIDENTIAL</b>											
A	99999	17873	4301350400	MEAGHER 10-20-4-2	NWSE	20	4S	2W	DUCHESNE	11/20/2010	11/29/10
WELL 1 COMMENTS: <b>GRRV</b>											
B	99999	17400	4301350241	GREATER MON BUTTE T-25-8-16	NWSW	30 25	8S	17E 18E	DUCHESNE	11/17/2010	11/29/10
WELL 1 COMMENTS: <b>GRRV</b> <span style="float: right;"><b>BHL = Sec 2.5 Range 16E SESE</b></span>											
B	99999	17400	4301350283	GREATER MON BUTTE A-10-9-16	SESE	3 10	9S	16E	DUCHESNE	11/22/2010	11/29/10
WELL 1 COMMENTS: <b>GRRV</b> <span style="float: right;"><b>BHL = Sec 10 NENE</b></span>											
B	99999	17400	4301350256	GREATER MON BUTTE O-2-9-16	SENE	3 2	9S	16E	DUCHESNE	11/18/2010	11/29/10
WELL 1 COMMENTS: <b>GRRV</b> <span style="float: right;"><b>BHL = Sec 2 NWSW</b></span>											
B	99999	17400	4301350255 4301347472	GREATER MON BUTTE F-2-9-16	SENE SWNW	3 2	9S	16E	DUCHESNE	11/18/2010	11/29/10
WELL 1 COMMENTS: <b>GRRV</b> <span style="float: right;"><b>BHL = Sec 2 SWNW</b></span>											

- ACTION CODES (See instructions on back of form)  
 A - 1 new entity for new well (single well only)  
 B - 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 - ther (explain in comments section)

**RECEIVED**  
**NOV 23 2010**

Signature   
**Jentri Park**  
 Production Clerk  
 11/23/10

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

BLM - Vernal Field Office - Notification Form

Operator Newfield Exploration Rig Name/# Ross # 29 Submitted  
By Ryan Crum Phone Number 823-7065  
Well Name/Number GMB H-34-8-16  
Qtr/Qtr SW/NE Section 34 Township 8s Range 16e  
Lease Serial Number UTU-16535  
API Number 43-013-50255

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

Date/Time 12/9/10      8:00 AM  PM

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

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

Date/Time 12/9/10      2:00 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 \_\_\_\_\_

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ACTION CODE	CURRENT ENTITY NO.	NEW ENTITY NO.	API NUMBER	WELL NAME	WELL LOCATION				COUNTY	SPUD DATE	EFFECTIVE DATE
					QQ	SC	TP	RG			
A	99999	17865	4301350339	UTE TRIBAL 9-15-4-3W	NESE	15	4S	3W	DUCHESNE	11/12/2010	11/29/10
WELL 1 COMMENTS: <i>GRRV Correction</i>											
B	99999	17400	4301350255	GREATER MON BUTTE F-2-9-16	SENE SWNW	3 2	9S	16E	DUCHESNE	11/18/2010	11/29/10
<i>GRRV Correction BML - Sec 2 SWNW</i>											
A	99999	17884	4301350355	UTE TRIBAL 10-7-4-2	NWSE	7	4S	2W 2E	DUCHESNE	11/17/2010	12/14/10
<i>GR-WS</i>											
B	99999	17400	4301350137	FEDERAL 1-28-8-16	NENE	28	8S	16E	DUCHESNE	9/20/2010	12/14/10
<i>GRRV</i>											
A	99999	17885	4301350173	UTE TRIBAL 9-24-4-3	NESE	24	4S	3W	DUCHESNE	11/12/2010	12/14/10
<i>GRRV</i>											
B	99999	17400	4301334184	FEDERAL 10-30-8-16	NWSE	30	8S	16E	DUCHESNE	11/15/2010	12/14/10
<i>GRRV</i>											

ACTION CODES (See Instructions on back of form)

- A - new entity for new well (single well only)
- B - 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.

RECEIVED  
 DEC 06 2010

Signature *Jentri Park*  
 Jentri Park  
 Production Clerk  
 11/30/10

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  
 Oil Well  Gas Well  Other

2. Name of Operator  
NEWFIELD PRODUCTION COMPANY

3a. Address Route 3 Box 3630  
Myton, UT 84052

3b. Phone (include area code)  
435.646.3721

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)

Section 3 T9S R16E

5. Lease Serial No.

USA UTU-47172

6. If Indian, Allottee or Tribe Name.

7. If Unit or CA/Agreement, Name and/or

GMBU

8. Well Name and No.

MON BUTTE F-2-9-16

9. API Well No.

4301350255

10. Field and Pool, or Exploratory Area

GREATER MB UNIT

11. County or Parish, State

DUCHESNE, UT

**12. CHECK APPROPRIATE BOX(ES) TO INDICATE 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 recomplete horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports shall be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompletion in a new interval, a Form 3160-4 shall be filed once testing has been completed. Final Abandonment Notices shall be filed only after all requirements, including reclamation, have been completed, and the operator has determined that the site is ready for final inspection.)

On 11/18/10 MIRU Ross # 29. Spud well @ 8:00 am. Drill 310' of 12 1/4" hole with air mist. TIH W/ 7 Jt's 8 5/8" J-55 24 # csgn. Set @ 313.38' KB. On 11/22/10 cement with 160 sks of class "G" w/ 3% CaCL2 + 1/4# sk Cello- Flake Mixed @ 15.8 ppg > 1.17 cf/ sk yeild. Returned 7 bbls cement to pit. WOC.

**RECEIVED**

**DEC 07 2010**

**DIV. OF OIL, GAS & MINING**

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

Jim Smith

Title

Drilling Foreman

Signature

Date

11/30/2010

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

Approved by

Title

Date

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

Office

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

(Instructions on page 2)





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

5. LEASE DESIGNATION AND SERIAL NUMBER:  
USA UTU-47172

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

7. UNIT or CA AGREEMENT NAME:  
GMBU

8. WELL NAME and NUMBER:  
MON BUTTE F-2-9-16

9. API NUMBER:  
4301350255

10. FIELD AND POOL, OR WILDCAT:  
GREATER MB UNIT

**SUNDRY NOTICES AND REPORTS ON WELLS**

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

1. TYPE OF WELL: OIL WELL  GAS WELL  OTHER

2. NAME OF OPERATOR:  
NEWFIELD PRODUCTION COMPANY

3. ADDRESS OF OPERATOR:  
Route 3 Box 3630 CITY Myton STATE UT ZIP 84052 PHONE NUMBER 435.646.3721

4. LOCATION OF WELL:  
FOOTAGES AT SURFACE:  
OTR/OTR. SECTION. TOWNSHIP. RANGE. MERIDIAN: 3, 7 T9S, R16E

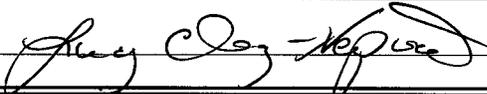
COUNTY: DUCHESNE  
STATE: UT

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

TYPE OF SUBMISSION	TYPE OF ACTION		
<input type="checkbox"/> NOTICE OF INTENT (Submit in Duplicate)  Approximate date work will _____	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> REPERFORATE CURRENT FORMATION
	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> SIDETRACK TO REPAIR WELL
<input checked="" type="checkbox"/> SUBSEQUENT REPORT (Submit Original Form Only)  Date of Work Completion: 01/10/2011	<input type="checkbox"/> CASING REPAIR	<input type="checkbox"/> NEW CONSTRUCTION	<input type="checkbox"/> TEMPORARITLY ABANDON
	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> TUBING REPAIR
	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> VENT OR FLAIR
	<input type="checkbox"/> CHANGE WELL NAME	<input type="checkbox"/> PLUG BACK	<input type="checkbox"/> WATER DISPOSAL
	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> PRODUCTION (START/STOP)	<input type="checkbox"/> WATER SHUT-OFF
	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input checked="" type="checkbox"/> OTHER: - Weekly Status Report
	<input type="checkbox"/> CONVERT WELL TYPE	<input type="checkbox"/> RECOMPLETE - DIFFERENT FORMATION	

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.  
The above subject well was completed on 01-10-11, attached is a daily completion status report.

NAME (PLEASE PRINT) Lucy Chavez-Naupoto TITLE Administrative Assistant

SIGNATURE  DATE 01/10/2011

(This space for State use only)

**RECEIVED**  
**JAN 12 2011**  
DIV. OF OIL, GAS & MINING

## Daily Activity Report

Format For Sundry

**MON BUTTE F-2-9-16**

**11/1/2010 To 3/28/2011**

**12/20/2010 Day: 1**

**Completion**

Rigless on 12/20/2010 - Run CBL & perforated 1st stage. SIWFN w/ 151 BWTR. - NU frac head & Cameron BOP's. RU Hot oiler & test casing, frac head, frac valves & BOP to 4500 psi. RU WLT w/ mast & pack off tool. Run CBL under pressure. WLTD was 6325' w/ TOC @ 310'. RIH w/ 3 1/8" ported guns & perforate CP5 sds @ 6122- 32' & 6110- 15' w/ (11 gram, .36"EH, 16.82¢ pen. 120°) 3 spf for total of 45 shots. RD WLT & Hot Oiler. SIWFN w/ 151 BWTR.

**Daily Cost:** \$0

**Cumulative Cost:** \$16,141

**12/23/2010 Day: 2**

**Completion**

Rigless on 12/23/2010 - Fractured stage 1 with BJ. Fractured and perforated stages 2-4 with BJ and PSI Wireline. Flowed well back for 3 hours and well turned to oil. - RU BJ Services. Frac Stg 1- CP5 sands as shown in stimulation report. 807 BWTR. - Open well to pit for immediate flowback at 2 am at approximately 3 bpm. Well flowed for 3 hrs and turned to oil. Recovered 432 bbls. SWIFN. 1509 BWTR. - RU PSI wireline. Set CFTP @ 4830' & perf Xstary and PB10 sands as shown in perforation report. RU BJ Services. Frac Stg 4- Xstray and PB10 sands as shown in stimulation report. 1941 BWTR. - RU PSI wireline. Set CFTP @ 5090' & perf D2 sands as shown in perforation report. RU BJ Services. Frac Stg 3- D2 sands as shown in stimulation report. 1525 BWTR. - RU PSI wireline. Set CFTP @ 6020' & perf CP3 and CP1 sands as shown in perforation report. RU BJ Services. Frac Stg 2- CP3 and CP1 sands as shown in stimulation report. 1230 BWTR.

**Daily Cost:** \$0

**Cumulative Cost:** \$98,233

**1/5/2011 Day: 3**

**Completion**

WWS #1 on 1/5/2011 - Set kill plug. MIRU WWS #1. ND Cameron BOP. NU Schaeffer BOP. RIH w/ bit & tbg. DU CBP. - 1000 psi on well. RU The Perforators wireline. Set kill plug @ 4620'. Bleed off well. RD wireline. MIRU WWS #1. ND Camreon BOP & 5m frac head. NU 3m production head & Schaeffer BOP. RIH w/ 4 3/4" chomp bit, bit sub & new 2 7/8" tbg. from pipe racks (tallying & drifting). Tag CBP @ 4620'. RU powerswivel & pump. DU CBP in 31 mins. Circulate well clean. SWIFN.

**Daily Cost:** \$0

**Cumulative Cost:** \$152,871

**1/6/2011 Day: 4**

**Completion**

WWS #1 on 1/6/2011 - DU CBPs. C/O to PBSD. - Csg. @ 650 psi, tbg. @ 525 psi. Bleed off well. Cont. RIH w/ tbg. Tag CBP @ 5090'. DU CBP in 37 min. Cont. RIH w/ tbg. Tag fill @ 5860'. C/O to CBP @ 6020'. DU CBP in 28 min. Cont. RIH w/ tbg. Tag fill @ 6211'. C/O to PBSD @ 6348'. Circulate well clean. Pull up to 6274'. SWIFN. 1329 BWTR.

**Daily Cost:** \$0

**Cumulative Cost:** \$158,971

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**1/7/2011 Day: 5****Completion**

WWS #1 on 1/7/2011 - Swab & flow well. Round trip tbg. ND BOP. NU wellhead. - Csg. @ 200 psi, tbg. @ 0 psi. RU hotoiler to tbg. Pump 40 bbls water down tbg. RIH w/ swab. SFL @ surface. Made 9 runs & well kicked off flowing. Recovered total of 185 bbls. Ending oil cut @ approx. 15%. Circulate well clean. RIH w/ tbg. Tag PBTD @ 6348' (no new fill). POOH w/ tbg. LD BHA. RIH w/ production string. ND BOP. Set TAC @ 6098' W/ 18,000# tension. NU wellhead. X-over for rods. SWIFN. 1064 BWTR.

**Daily Cost:** \$0

**Cumulative Cost:** \$164,540

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**1/10/2011 Day: 6****Completion**

WWS #1 on 1/10/2011 - RIH w/ rods. RU pumping unit. Hang off rods. Stroke test to 800 psi. Good pump action. PWOP @ 2:00 p.m. 144" stroke length, 5 spm. 1119 BWTR. Final Report. - Csg. @ 300 psi, tbg. @ 150 psi. Flush tbg. w/ 55 bbls water. RIH w/ Central Hydraulic 2 1/2" x 1 3/4" x 20' x 24' RHAC rod pump, 4- 1 1/2" weight bars, 239- 7/8" guided rods (8 per), 1- 8', 2' x 7/8" pony subs, 1 1/2" x 30' polished rod. Seat pump. RU pumping unit. Hang off rods. Stroke test to 800 psi. Good pump action. RD. PWOP @ 2:00 p.m. 144" stroke length, 5 spm. Final Report. 1119 BWTR. **Finalized**

**Daily Cost:** \$0

**Cumulative Cost:** \$199,961

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**Pertinent Files: Go to File List**

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.  
UTU-47172

la. 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

2. Name of Operator  
NEWFIELD EXPLORATION COMPANY

7. Unit or CA Agreement Name and No.  
GMBU

3. Address  
1401 17TH ST. SUITE 1000 DENVER, CO 80202

3a. Phone No. (include area code)  
(435)646-3721

8. Lease Name and Well No.  
GREATER MONUMENT BT F-2-9-16

4. Location of Well (Report location clearly and in accordance with Federal requirements)\*  
At surface 2103' FNL & 451' FEL (SE/NE) SEC. 3, T9S, R16E (UTU-47172)

*BHL Reviewed  
by HSM*

10. Field and Pool or Exploratory  
GREATER MB UNIT

At top prod. interval reported below 1455' FNL & 51' FEL (SE/NE) SEC. 3, T9S, R16E (UTU-47172)

11. Sec., T., R., M., on Block and  
Survey or Area  
SEC. 3, T9S, R16E

At total depth 1184' FNL & 123' FWL (NW/NW) SEC. 2, T9S, R16E (ML-21839)

12. County or Parish  
DUCHESNE

13. State  
UT

14. Date Spudded  
11/18/2010

15. Date T.D. Reached  
12/10/2010

16. Date Completed 01/07/2011  
 D & A  Ready to Prod.

17. Elevations (DF, RKB, RT, GL)\*  
5543' GL 5555' KB

18. Total Depth: MD 6405'  
TVD 6298'

19. Plug Back T.D.: MD 6325'  
TVD 6226

20. Depth Bridge Plug Set: MD  
TVD

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

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

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

Hole Size	Size/Grade	Wt. (#/ft.)	Top (MD)	Bottom (MD)	Stage Cementer Depth	No. of Sks. & Type of Cement	Slurry Vol. (BBL)	Cement Top*	Amount Pulled
12-1/4"	8-5/8" J-55	24#	0	313'		160 CLASS G			
7-7/8"	5-1/2" J-55	15.5#	0	6394'		300 PRIMLITE		310'	
						400 50/50 POZ			

24. Tubing Record

Size	Depth Set (MD)	Packer Depth (MD)	Size	Depth Set (MD)	Packer Depth (MD)	Size	Depth Set (MD)	Packer Depth (MD)
2-7/8"	EOT @ 6197'	TA @ 6098'						

25. Producing Intervals

Formation	Top	Bottom	Perforated Interval	Size	No. Holes	Perf. Status
A) Green River	4648'	6132'	4648-6132'	.36"	129	
B)						
C)						
D)						

26. Perforation Record

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

Depth Interval	Amount and Type of Material
4648-6132'	Frac w/ 177418#'s 20/40 sand in 1264 bbls of Lightning 17 fluid in 4 stages

28. Production - Interval A

Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
01/05/11	01/17/11	24	→	123	0.00	79			2-1/2" x 1-3/4" x 20' x 24' RHAC Pump
Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas/Oil Ratio	Well Status	
			→					PRODUCING	

28a. Production - Interval B

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

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

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28b. Production - Interval C

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

28c. Production - Interval D

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

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

USED FOR FUEL

30. Summary of Porous Zones (Include Aquifers):

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

31. Formation (Log) Markers

GEOLOGICAL MARKERS

Formation	Top	Bottom	Descriptions, Contents, etc.	Name	Top
					Meas. Depth
GREEN RIVER	4648'	6132'		GARDEN GULCH MRK	3860'
				GARDEN GULCH 1	4075'
				GARDEN GULCH 2	4196'
				POINT 3	4464'
				X MRKR	4734'
				Y MRKR	4768'
				DOUGALS CREEK MRK	4896'
				BI CARBONATE MRK	5147'
				B LIMESTON MRK	5279'
				CASTLE PEAK	5761'
				BASAL CARBONATE	6206'
				WASATCH	6335'

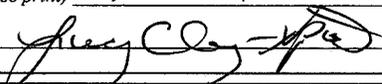
32. Additional remarks (include plugging procedure):

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

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

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

Name (please print) Lucy Chavez-Naupoto Title Administrative Assistant

Signature  Date 01/18/2011

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 2 9S 16E**

**F-2-9-16**

**Wellbore #1**

**Design: Wellbore #1**

## **Standard Survey Report**

**13 December, 2010**



# PayZone Directional Services, LLC.

## Survey Report



<b>Company:</b>	NEWFIELD EXPLORATION	<b>Local Co-ordinate Reference:</b>	Well F-2-9-16
<b>Project:</b>	USGS Myton SW (UT)	<b>TVD Reference:</b>	F-2-9-16 @ 5555.0ft (Original Well Elev)
<b>Site:</b>	SECTION 2 9S 16E	<b>MD Reference:</b>	F-2-9-16 @ 5555.0ft (Original Well Elev)
<b>Well:</b>	F-2-9-16	<b>North Reference:</b>	True
<b>Wellbore:</b>	Wellbore #1	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Design:</b>	Wellbore #1	<b>Database:</b>	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 2 9S 16E, SEC 2 9S 16E				
<b>Site Position:</b>		<b>Northing:</b>	7,193,600.00 ft	<b>Latitude:</b>	40° 3' 34.952 N
<b>From:</b>	Map	<b>Easting:</b>	2,036,100.00 ft	<b>Longitude:</b>	110° 5' 10.480 W
<b>Position Uncertainty:</b>	0.0 ft	<b>Slot Radius:</b>	"	<b>Grid Convergence:</b>	0.91 °

<b>Well</b>	F-2-9-16, SHL LAT: 40 03 40.99, LONG: -110 05 51.72					
<b>Well Position</b>	<b>+N/-S</b>	0.0 ft	<b>Northing:</b>	7,194,160.36 ft	<b>Latitude:</b>	40° 3' 40.990 N
	<b>+E/-W</b>	0.0 ft	<b>Easting:</b>	2,032,884.49 ft	<b>Longitude:</b>	110° 5' 51.720 W
<b>Position Uncertainty</b>		0.0 ft	<b>Wellhead Elevation:</b>	5,555.0 ft	<b>Ground Level:</b>	5,543.0 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>
	IGRF200510	2009/11/04	11.52	65.85	52,464

<b>Design</b>	Wellbore #1				
<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	31.96	

<b>Survey Program</b>	<b>Date</b>	2010/12/13			
<b>From (ft)</b>	<b>To (ft)</b>	<b>Survey (Wellbore)</b>	<b>Tool Name</b>	<b>Description</b>	
319.0	6,404.0	Survey #1 (Wellbore #1)	MWD	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
319.0	3.38	92.60	318.8	-0.4	9.4	4.6	1.06	1.06	0.00
349.0	3.30	98.97	348.8	-0.6	11.1	5.4	1.26	-0.27	21.23
380.0	3.40	98.80	379.7	-0.9	12.9	6.1	0.32	0.32	-0.55
410.0	3.60	94.50	409.7	-1.1	14.7	6.9	1.10	0.67	-14.33
441.0	3.70	95.00	440.6	-1.3	16.7	7.8	0.34	0.32	1.61
472.0	3.80	89.90	471.5	-1.3	18.7	8.8	1.12	0.32	-16.45
503.0	4.30	87.70	502.4	-1.3	20.9	10.0	1.69	1.61	-7.10
533.0	4.70	81.40	532.4	-1.1	23.3	11.4	2.12	1.33	-21.00
564.0	4.50	80.20	563.3	-0.7	25.7	13.0	0.72	-0.65	-3.87
595.0	4.40	78.70	594.2	-0.2	28.1	14.7	0.49	-0.32	-4.84
625.0	4.60	70.40	624.1	0.4	30.3	16.4	2.27	0.67	-27.67
656.0	4.60	67.80	655.0	1.3	32.7	18.4	0.67	0.00	-8.39



# PayZone Directional Services, LLC.

## Survey Report



Company: NEWFIELD EXPLORATION  
 Project: USGS Myton SW (UT)  
 Site: SECTION 2 9S 16E  
 Well: F-2-9-16  
 Wellbore: Wellbore #1  
 Design: Wellbore #1

Local Co-ordinate Reference: Well F-2-9-16  
 TVD Reference: F-2-9-16 @ 5555.0ft (Original Well Elev)  
 MD Reference: F-2-9-16 @ 5555.0ft (Original Well Elev)  
 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)
686.0	4.50	62.60	684.9	2.3	34.8	20.4	1.41	-0.33	-17.33
717.0	4.60	54.30	715.8	3.6	36.9	22.6	2.15	0.32	-26.77
747.0	4.90	47.80	745.7	5.1	38.8	24.9	2.05	1.00	-21.67
779.0	5.10	41.60	777.6	7.1	40.8	27.6	1.80	0.63	-19.38
809.0	5.00	32.30	807.4	9.2	42.4	30.3	2.75	-0.33	-31.00
839.0	4.70	26.50	837.3	11.4	43.6	32.8	1.91	-1.00	-19.33
883.0	4.80	16.40	881.2	14.8	44.9	36.3	1.91	0.23	-22.95
927.0	5.40	17.20	925.0	18.5	46.1	40.1	1.37	1.36	1.82
971.0	5.80	17.00	968.8	22.6	47.3	44.3	0.91	0.91	-0.45
1,015.0	6.40	13.70	1,012.5	27.2	48.6	48.8	1.58	1.36	-7.50
1,059.0	7.30	16.90	1,056.2	32.2	50.0	53.8	2.22	2.05	7.27
1,103.0	7.70	16.10	1,099.9	37.7	51.6	59.3	0.94	0.91	-1.82
1,147.0	8.30	18.30	1,143.4	43.6	53.4	65.2	1.53	1.36	5.00
1,191.0	8.60	18.70	1,187.0	49.7	55.5	71.5	0.69	0.68	0.91
1,235.0	8.70	18.90	1,230.5	56.0	57.6	78.0	0.24	0.23	0.45
1,279.0	9.20	21.30	1,273.9	62.4	60.0	84.7	1.42	1.14	5.45
1,323.0	9.30	21.80	1,317.3	69.0	62.5	91.6	0.29	0.23	1.14
1,367.0	9.70	24.40	1,360.7	75.6	65.4	98.8	1.33	0.91	5.91
1,411.0	10.20	26.50	1,404.1	82.5	68.7	106.4	1.40	1.14	4.77
1,455.0	10.70	30.00	1,447.3	89.5	72.5	114.3	1.84	1.14	7.95
1,499.0	11.10	29.80	1,490.6	96.7	76.6	122.6	0.91	0.91	-0.45
1,543.0	11.20	28.60	1,533.7	104.2	80.7	131.1	0.57	0.23	-2.73
1,587.0	11.10	29.70	1,576.9	111.6	84.9	139.6	0.53	-0.23	2.50
1,631.0	11.20	29.10	1,620.1	119.0	89.1	148.1	0.35	0.23	-1.36
1,675.0	11.30	29.30	1,663.2	126.5	93.3	156.7	0.24	0.23	0.45
1,719.0	11.10	29.80	1,706.4	133.9	97.5	165.2	0.51	-0.45	1.14
1,763.0	10.70	29.90	1,749.6	141.2	101.6	173.5	0.91	-0.91	0.23
1,807.0	10.40	29.10	1,792.8	148.2	105.6	181.6	0.76	-0.68	-1.82
1,851.0	10.30	27.00	1,836.1	155.1	109.3	189.5	0.89	-0.23	-4.77
1,895.0	10.20	24.20	1,879.4	162.2	112.7	197.3	1.15	-0.23	-6.36
1,939.0	10.00	26.20	1,922.7	169.2	116.0	204.9	0.92	-0.45	4.55
1,983.0	10.40	31.50	1,966.0	176.0	119.7	212.7	2.32	0.91	12.05
2,027.0	10.50	32.50	2,009.3	182.8	124.0	220.7	0.47	0.23	2.27
2,071.0	10.30	28.00	2,052.6	189.6	128.0	228.6	1.90	-0.45	-10.23
2,115.0	10.50	27.50	2,095.9	196.7	131.7	236.5	0.50	0.45	-1.14
2,159.0	11.20	28.80	2,139.1	204.0	135.6	244.8	1.69	1.59	2.95
2,203.0	11.80	31.40	2,182.2	211.5	140.0	253.6	1.80	1.36	5.91
2,247.0	12.40	32.30	2,225.2	219.4	144.8	262.8	1.43	1.36	2.05
2,291.0	12.80	32.60	2,268.2	227.5	150.0	272.4	0.92	0.91	0.68
2,335.0	12.30	34.20	2,311.1	235.5	155.2	281.9	1.38	-1.14	3.64
2,379.0	11.70	33.30	2,354.2	243.1	160.3	291.1	1.43	-1.36	-2.05
2,423.0	11.60	29.50	2,397.2	250.6	165.0	300.0	1.76	-0.23	-8.64
2,467.0	11.30	26.40	2,440.4	258.3	169.1	308.7	1.56	-0.68	-7.05
2,511.0	11.30	26.40	2,483.5	266.1	172.9	317.3	0.00	0.00	0.00
2,555.0	10.90	26.60	2,526.7	273.7	176.7	325.7	0.91	-0.91	0.45
2,599.0	10.80	25.70	2,569.9	281.1	180.3	333.9	0.45	-0.23	-2.05
2,643.0	11.30	28.30	2,613.1	288.6	184.1	342.3	1.60	1.14	5.91
2,687.0	11.60	27.50	2,656.2	296.3	188.2	351.0	0.77	0.68	-1.82
2,731.0	12.50	27.90	2,699.2	304.4	192.5	360.2	2.05	2.05	0.91
2,775.0	13.20	29.40	2,742.1	313.0	197.2	370.0	1.76	1.59	3.41
2,819.0	14.30	31.90	2,784.9	322.0	202.5	380.4	2.84	2.50	5.68
2,863.0	15.40	32.60	2,827.4	331.6	208.6	391.7	2.53	2.50	1.59
2,907.0	16.20	33.90	2,869.8	341.6	215.1	403.7	1.99	1.82	2.95
2,951.0	16.20	32.50	2,912.0	351.8	221.8	415.9	0.89	0.00	-3.18



# PayZone Directional Services, LLC.

## Survey Report



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### Survey

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2,995.0	16.00	33.10	2,954.3	362.1	228.5	428.1	0.59	-0.45	1.36
3,039.0	14.90	35.30	2,996.7	371.8	235.0	439.9	2.83	-2.50	5.00
3,083.0	13.90	36.20	3,039.3	380.7	241.4	450.8	2.33	-2.27	2.05
3,127.0	14.00	34.10	3,082.0	389.4	247.5	461.4	1.17	0.23	-4.77
3,171.0	12.80	31.80	3,124.8	397.9	253.1	471.6	2.98	-2.73	-5.23
3,215.0	12.00	31.60	3,167.8	405.9	258.1	481.0	1.82	-1.82	-0.45
3,259.0	12.40	31.10	3,210.8	413.9	262.9	490.3	0.94	0.91	-1.14
3,303.0	12.90	30.10	3,253.7	422.2	267.8	499.9	1.24	1.14	-2.27
3,347.0	12.70	30.00	3,296.6	430.6	272.7	509.7	0.46	-0.45	-0.23
3,391.0	12.60	30.30	3,339.6	438.9	277.5	519.3	0.27	-0.23	0.68
3,435.0	12.50	27.10	3,382.5	447.3	282.1	528.8	1.60	-0.23	-7.27
3,479.0	12.00	26.90	3,425.5	455.6	286.3	538.1	1.14	-1.14	-0.45
3,523.0	11.80	28.30	3,468.6	463.7	290.5	547.2	0.80	-0.45	3.18
3,567.0	11.40	30.70	3,511.7	471.4	294.9	556.0	1.42	-0.91	5.45
3,611.0	10.90	33.00	3,554.8	478.6	299.4	564.5	1.52	-1.14	5.23
3,655.0	10.40	34.60	3,598.1	485.4	303.9	572.7	1.32	-1.14	3.64
3,699.0	9.80	35.50	3,641.4	491.7	308.3	580.4	1.41	-1.36	2.05
3,743.0	9.10	33.90	3,684.8	497.6	312.4	587.6	1.70	-1.59	-3.64
3,787.0	8.80	30.30	3,728.3	503.4	316.1	594.4	1.44	-0.68	-8.18
3,831.0	8.60	28.10	3,771.8	509.2	319.3	601.1	0.88	-0.45	-5.00
3,875.0	8.90	29.30	3,815.2	515.1	322.6	607.8	0.80	0.68	2.73
3,919.0	9.30	29.10	3,858.7	521.2	325.9	614.7	0.91	0.91	-0.45
3,963.0	9.70	31.60	3,902.1	527.4	329.6	622.0	1.31	0.91	5.68
4,007.0	10.10	32.00	3,945.4	533.9	333.6	629.5	0.92	0.91	0.91
4,051.0	10.60	34.10	3,988.7	540.5	337.9	637.4	1.42	1.14	4.77
4,095.0	11.10	31.40	4,031.9	547.5	342.4	645.7	1.62	1.14	-6.14
4,139.0	12.10	31.10	4,075.0	555.0	347.0	654.6	2.28	2.27	-0.68
4,183.0	12.40	31.60	4,118.0	563.0	351.8	663.9	0.72	0.68	1.14
4,227.0	12.50	31.20	4,161.0	571.1	356.8	673.4	0.30	0.23	-0.91
4,271.0	12.50	32.00	4,203.9	579.2	361.8	682.9	0.39	0.00	1.82
4,315.0	12.20	30.90	4,246.9	587.2	366.7	692.3	0.87	-0.68	-2.50
4,359.0	12.10	27.30	4,289.9	595.3	371.2	701.6	1.74	-0.23	-8.18
4,403.0	12.10	28.60	4,333.0	603.5	375.5	710.8	0.62	0.00	2.95
4,447.0	11.70	27.30	4,376.0	611.5	379.8	719.8	1.09	-0.91	-2.95
4,491.0	11.20	27.30	4,419.1	619.2	383.8	728.5	1.14	-1.14	0.00
4,535.0	10.70	28.40	4,462.3	626.6	387.7	736.8	1.23	-1.14	2.50
4,579.0	10.40	30.70	4,505.6	633.6	391.6	744.9	1.17	-0.68	5.23
4,623.0	10.90	31.00	4,548.8	640.6	395.8	753.0	1.14	1.14	0.68
4,667.0	10.60	33.10	4,592.1	647.6	400.2	761.2	1.12	-0.68	4.77
4,711.0	10.70	32.70	4,635.3	654.4	404.6	769.4	0.28	0.23	-0.91
4,755.0	10.90	34.10	4,678.5	661.3	409.1	777.6	0.75	0.45	3.18
4,799.0	10.70	37.10	4,721.8	668.0	413.9	785.8	1.36	-0.45	6.82
4,843.0	10.60	39.30	4,765.0	674.4	418.9	793.9	0.95	-0.23	5.00
4,887.0	10.50	39.50	4,808.3	680.6	424.1	801.9	0.24	-0.23	0.45
4,931.0	9.80	36.70	4,851.6	686.7	428.8	809.6	1.95	-1.59	-6.36
4,975.0	9.40	34.10	4,894.9	692.7	433.1	816.9	1.34	-0.91	-5.91
5,019.0	8.80	31.90	4,938.4	698.5	436.9	823.9	1.58	-1.36	-5.00
5,063.0	8.80	31.20	4,981.9	704.2	440.4	830.6	0.24	0.00	-1.59
5,107.0	8.70	31.60	5,025.4	710.0	443.9	837.3	0.27	-0.23	0.91
5,151.0	8.70	28.50	5,068.9	715.7	447.2	844.0	1.07	0.00	-7.05
5,195.0	9.10	28.20	5,112.3	721.7	450.5	850.8	0.92	0.91	-0.68
5,239.0	9.60	31.90	5,155.7	727.9	454.0	857.9	1.78	1.14	8.41
5,281.1	9.79	33.34	5,197.2	733.9	457.9	865.0	0.73	0.45	3.41

F-2-9-16 TGT



# PayZone Directional Services, LLC.

## Survey Report



Company: NEWFIELD EXPLORATION  
 Project: USGS Myton SW (UT)  
 Site: SECTION 2 9S 16E  
 Well: F-2-9-16  
 Wellbore: Wellbore #1  
 Design: Wellbore #1

Local Co-ordinate Reference: Well F-2-9-16  
 TVD Reference: F-2-9-16 @ 5555.0ft (Original Well Elev)  
 MD Reference: F-2-9-16 @ 5555.0ft (Original Well Elev)  
 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)
5,283.0	9.80	33.40	5,199.1	734.1	458.0	865.3	0.73	0.46	3.34
5,327.0	9.30	34.30	5,242.5	740.2	462.1	872.6	1.19	-1.14	2.05
5,371.0	9.70	32.50	5,285.9	746.3	466.1	879.9	1.13	0.91	-4.09
5,415.0	10.30	31.90	5,329.2	752.7	470.2	887.5	1.38	1.36	-1.36
5,459.0	11.10	36.10	5,372.5	759.5	474.8	895.7	2.54	1.82	9.55
5,503.0	10.90	37.10	5,415.7	766.2	479.8	904.0	0.63	-0.45	2.27
5,547.0	10.20	36.20	5,458.9	772.7	484.6	912.1	1.63	-1.59	-2.05
5,591.0	11.10	35.30	5,502.2	779.3	489.3	920.2	2.08	2.05	-2.05
5,635.0	10.90	31.00	5,545.3	786.3	493.9	928.6	1.92	-0.45	-9.77
5,679.0	10.60	29.50	5,588.6	793.4	498.0	936.8	0.93	-0.68	-3.41
5,723.0	10.20	29.00	5,631.9	800.3	501.9	944.7	0.93	-0.91	-1.14
5,767.0	10.60	29.30	5,675.1	807.3	505.8	952.6	0.92	0.91	0.68
5,811.0	11.70	29.01	5,718.3	814.7	509.9	961.1	2.50	2.50	-0.66
5,855.0	11.80	27.60	5,761.4	822.6	514.2	970.1	0.69	0.23	-3.20
5,899.0	12.50	27.70	5,804.4	830.8	518.5	979.3	1.59	1.59	0.23
5,943.0	13.10	31.00	5,847.3	839.3	523.3	989.0	2.15	1.36	7.50
5,987.0	12.60	30.80	5,890.2	847.7	528.3	998.8	1.14	-1.14	-0.45
6,031.0	12.80	31.70	5,933.1	855.9	533.3	1,008.5	0.64	0.45	2.05
6,075.0	12.90	30.50	5,976.0	864.3	538.4	1,018.3	0.65	0.23	-2.73
6,119.0	12.50	30.50	6,018.9	872.7	543.3	1,027.9	0.91	-0.91	0.00
6,295.0	11.20	35.00	6,191.2	903.1	562.7	1,064.1	0.91	-0.74	2.56
6,360.0	9.84	34.00	6,255.1	912.8	569.5	1,075.9	2.11	-2.09	-1.54
6,404.0	9.84	34.00	6,298.5	919.1	573.7	1,083.4	0.00	0.00	0.00

### Wellbore Targets

Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (ft)	Easting (ft)	Latitude	Longitude
F-2-9-16 TGT	0.00	0.00	5,200.0	720.0	449.2	7,194,887.34	2,033,322.37	40° 3' 48.106 N	110° 5' 45.942 W
- hit/miss target									
- Shape									
- actual wellpath misses by 16.5ft at 5281.1ft MD (5197.2 TVD, 733.9 N, 457.9 E)									
- Circle (radius 75.0)									

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



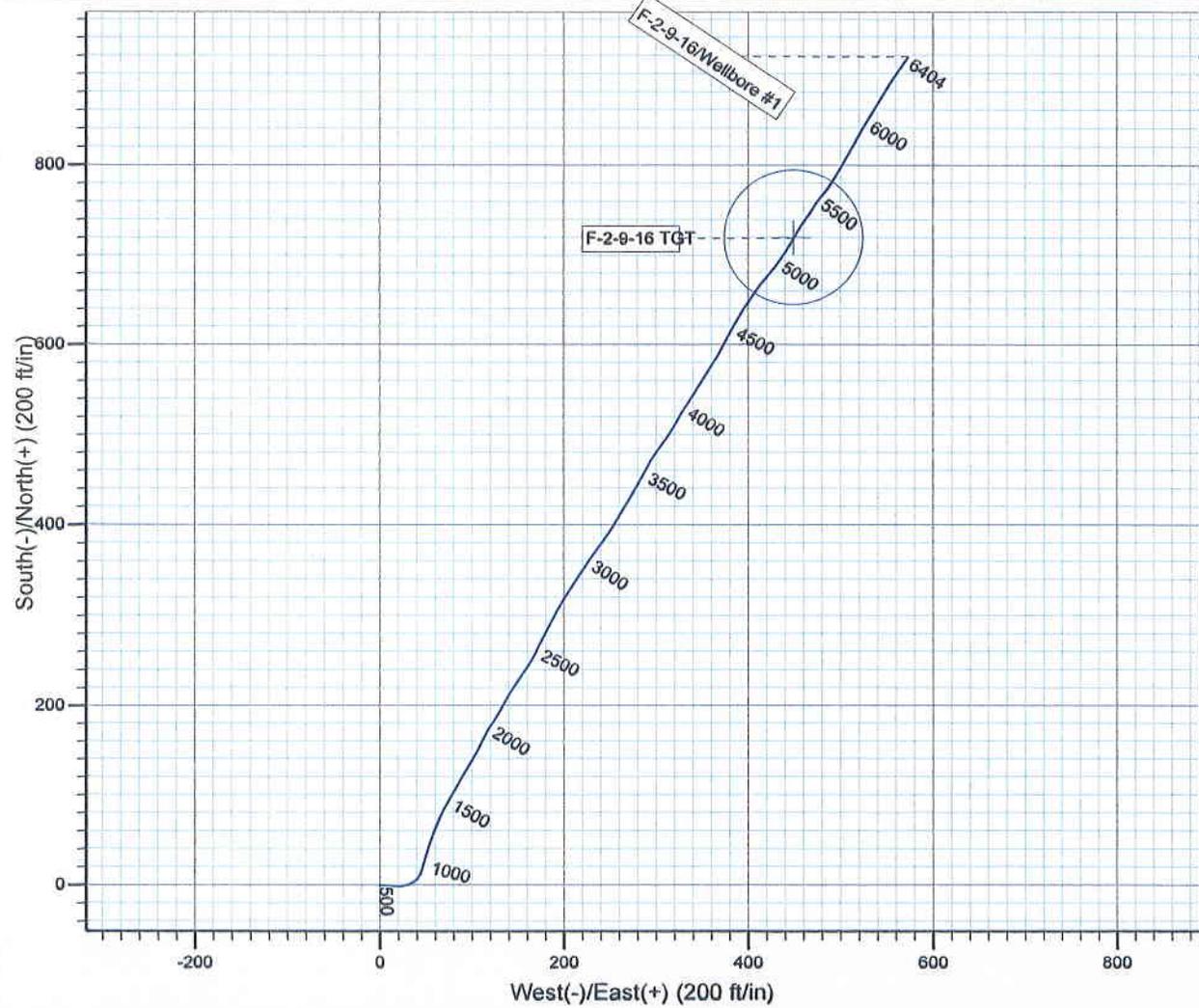
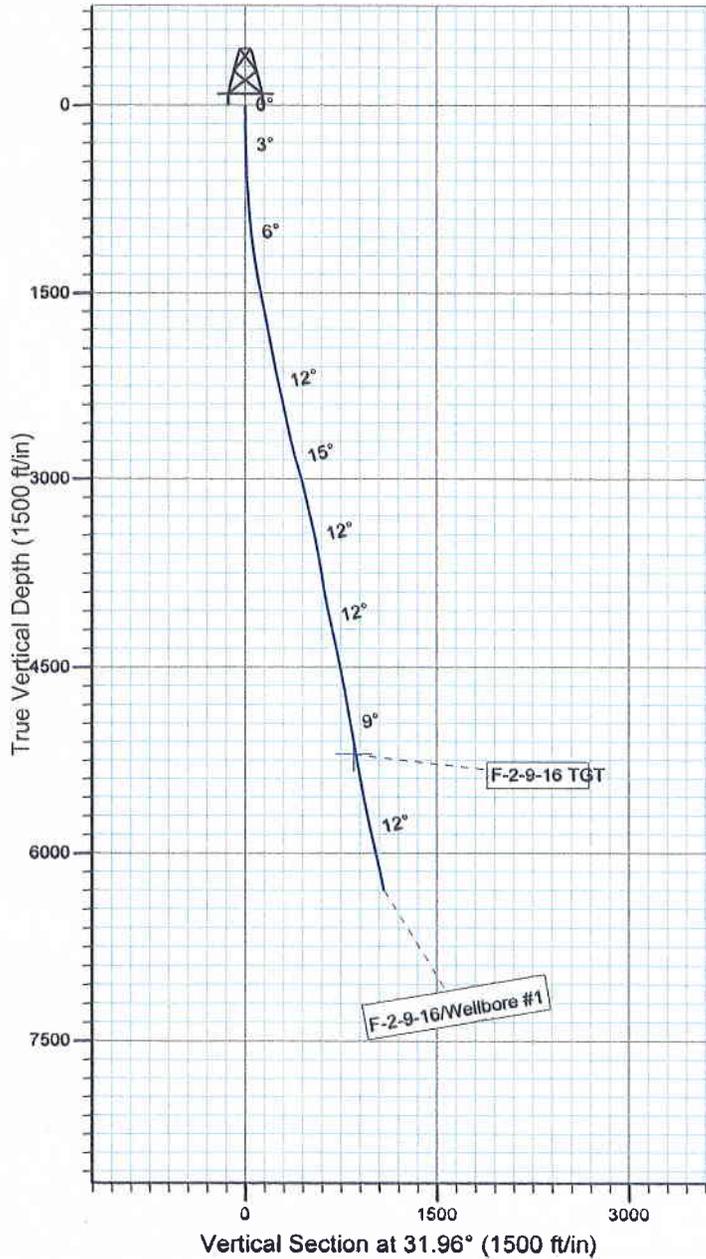
Project: USGS Myton SW (UT)  
 Site: SECTION 2 9S 16E  
 Well: F-2-9-16  
 Wellbore: Wellbore #1  
 SURVEY: Wellbore #1

FINAL SURVEY REPORT



Azimuths to True North  
 Magnetic North: 11.52°

Magnetic Field  
 Strength: 52464.2snT  
 Dip Angle: 65.85°  
 Date: 2009/11/04  
 Model: IGRF200510



Design: Wellbore #1 (F-2-9-16/Wellbore #1)

Created By: *Jim Hudson* Date: 16:42, December 13 2010  
 THIS SURVEY IS CORRECT TO THE BEST OF MY  
 KNOWLEDGE AND IS SUPPORTED BY ACTUAL FIELD DATA.



**Daily Activity Report****Format For Sundry****MON BUTTE F-2-9-16****9/1/2010 To 1/30/2011****MON BUTTE F-2-9-16****Waiting on Cement****Date:** 11/22/2010

Ross #29 at 310. Days Since Spud - Notfy BLM and state of Spud and csg run on 11/17/10 - On 11/22/10 CMT w/ BJ 160 sks class "G" cmt return 7 bbls to pit bump plug @ 500 PSI - On 11/18/10 Spud @ 8:00 am drilled 310' P/U and run 7 jts 8 5/8" csg set @ 313.38' KB

**Daily Cost:** \$0**Cumulative Cost:** \$42,044**MON BUTTE F-2-9-16****Rigging down****Date:** 12/5/2010

Ross #29 at 310. 0 Days Since Spud - Rig down Repair F/ Move

**Daily Cost:** \$0**Cumulative Cost:** \$48,994**MON BUTTE F-2-9-16****Drill 7 7/8" hole with fresh water****Date:** 12/6/2010

NDSI SS #1 at 2523. 1 Days Since Spud - Work on mud pump - No H2S or flow reported in last 24 hours - Drill 280' to 620' w/ 18K WOB,TRPM-170,GPM-370,Avg ROP-226 ft/hr - Pick up bit,mud motor and directional tool and TIH - R/U B&C and test pipe&blind rams, choke,safety valve to 2000#/10 min and Casing to 1500#/30 minutes - move rig to F-2-9-16,set equipment and rig up - Drill 7 7/8" F/620' to 2523' w/ 18K WOB,TRPM-170,GPM-370,Avg ROP-141 ft/hr

**Daily Cost:** \$0**Cumulative Cost:** \$100,125**MON BUTTE F-2-9-16****Drill 7 7/8" hole with fresh water****Date:** 12/7/2010

NDSI SS #1 at 3931. 2 Days Since Spud - Rig Service, BOP Drill held - Drill 7 7/8" hole F/ 3315' to 3623' w/ 18K WOB,TRPM-170,GPM-370,Avg ROP- 88 ft/hr - Circulate, and prepare to TOOH - TOOH, Change bit and mud motor, orient tools and TIH - Drill 7 7/8" hole F/ 3623' to 3931' w/ 18K WOB,TRPM-170,GPM-370,Avg ROP- 77 ft/hr - NO H2S or flow in last 24 hours - Drill 7 7/8" hole F/ 2523' to 3315' w/ 18K WOB,TRPM-170,GPM-370,Avg ROP-132 ft/hr

**Daily Cost:** \$0**Cumulative Cost:** \$132,256**MON BUTTE F-2-9-16****Drill 7 7/8" hole with fresh water****Date:** 12/8/2010

NDSI SS #1 at 5515. 3 Days Since Spud - No H2S or flow in last 24 hours - Drill 7 7/8" hole F/ 3931' to 4503' w/ 18K WOB,TRPM-170,GPM-370,Avg ROP-95 ft/hr - Rig Service, Function test BOP - Drill 7 7/8" hole F/ 4503' to 5515' w/ 20K WOB,TRPM-170,GPM-370,Avg ROP-60 ft/hr

**Daily Cost:** \$0**Cumulative Cost:** \$161,475**MON BUTTE F-2-9-16****Logging**

**Date:** 12/9/2010

NDSI SS #1 at 6405. 4 Days Since Spud - Lay down drill pipe to 4000' - Circulate for lay down - Drill 7 7/8" hole F/ 6103' to 6405' w/ 20K WOB,TRPM-170,GPM-370,Avg ROP-55 ft/hr - Prime yellow dog and fill tanks ( due to very small reserve pit) - Drill 7 7/8" hole F/5515' to 5999' w/ 20K WOB,TRPM-170,GPM-370,Avg ROP-75 ft/hr - Drill 7 7/8" hole F/ 5999' to 6103' w/ 20K WOB,TRPM-170,GPM-370,Avg ROP-52 ft/hr - Pump 260 bbls of 9.9lb brine water - Lay down drill pipe and BHA, - Hold Safety meeting w/ Halliburton and Log well - No H2S reported in last 24 hours - Rig Service

**Daily Cost:** \$0**Cumulative Cost:** \$204,954

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**MON BUTTE F-2-9-16****Cementing****Date:** 12/10/2010

NDSI SS #1 at 6405. 5 Days Since Spud - Mixed @ 14.4 ppg yeild @ 1.24 return 30 bbls to pit Bump plug to 2402 psi - yield @ 3.54 Then tail of 400 sk 50:50:2+3%KCL+0.5%EC-1+.25# SK CF+.05#SF+.3SMS+FP-6L - CMT w/BJ Pump 300 sks PL II +3% KCL +5#CSE+0.5#CF+2#KOL+.5SMS+FP+SF mixed @ 11ppg - Circulate csg and wait on BJ - R/U csg run 150 jt 5.5 15.5# j-55 LTC-tag -GS set @ 6394.36' KB -FC set @ 6348.36' KB - Test csg rams @ 2000 psi - R/U Hallibuton run DISGL/SP/GR suite TD to surface-DSN/SDL/GR/CAL suite TD to 3000'( LTD 6320')

**Daily Cost:** \$0**Cumulative Cost:** \$247,104

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**MON BUTTE F-2-9-16****Wait on Completion****Date:** 12/11/2010

NDSI SS #1 at 6405. 6 Days Since Spud - Clean mud tanks - Nipple down set 5.5 csg slips w/ 110,000 # tention - Release rig @ 10:30 am on 12/10/10 **Finalized**

**Daily Cost:** \$0**Cumulative Cost:** \$344,273

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**Pertinent Files: [Go to File List](#)**