

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

FORM 3

AMENDED REPORT

<b>APPLICATION FOR PERMIT TO DRILL</b>		<b>1. WELL NAME and NUMBER</b> GMBU L-7-9-16
<b>2. TYPE OF WORK</b> DRILL NEW WELL <input checked="" type="checkbox"/> REENTER P&A WELL <input type="checkbox"/> DEEPEN WELL <input type="checkbox"/>		<b>3. FIELD OR WILDCAT</b> MONUMENT BUTTE
<b>4. TYPE OF WELL</b> Oil Well Coalbed Methane Well: NO		<b>5. UNIT or COMMUNITIZATION AGREEMENT NAME</b> GMBU (GRRV)
<b>6. NAME OF OPERATOR</b> NEWFIELD PRODUCTION COMPANY		<b>7. OPERATOR PHONE</b> 435 646-4825
<b>8. ADDRESS OF OPERATOR</b> Rt 3 Box 3630 , Myton, UT, 84052		<b>9. OPERATOR E-MAIL</b> mcrozier@newfield.com
<b>10. MINERAL LEASE NUMBER (FEDERAL, INDIAN, OR STATE)</b> UTU-74390	<b>11. MINERAL 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>12. SURFACE OWNERSHIP</b> FEDERAL <input checked="" type="checkbox"/> INDIAN <input type="checkbox"/> STATE <input type="checkbox"/> FEE <input type="checkbox"/>
<b>15. ADDRESS OF SURFACE OWNER (if box 12 = 'fee')</b>		<b>14. SURFACE OWNER PHONE (if box 12 = 'fee')</b>
<b>17. INDIAN ALLOTTEE OR TRIBE NAME (if box 12 = 'INDIAN')</b>		<b>16. SURFACE OWNER E-MAIL (if box 12 = 'fee')</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"/>

20. LOCATION OF WELL	FOOTAGES	QTR-QTR	SECTION	TOWNSHIP	RANGE	MERIDIAN
LOCATION AT SURFACE	2121 FSL 1898 FEL	NWSE	7	9.0 S	16.0 E	S
Top of Uppermost Producing Zone	2475 FSL 1447 FEL	NWSE	7	9.0 S	16.0 E	S
At Total Depth	2488 FNL 999 FEL	SENE	7	9.0 S	16.0 E	S

<b>21. COUNTY</b> DUCHESNE	<b>22. DISTANCE TO NEAREST LEASE LINE (Feet)</b> 3639	<b>23. NUMBER OF ACRES IN DRILLING UNIT</b> 20
<b>27. ELEVATION - GROUND LEVEL</b> 5854	<b>25. DISTANCE TO NEAREST WELL IN SAME POOL (Applied For Drilling or Completed)</b> 635	<b>26. PROPOSED DEPTH</b> MD: 6303 TVD: 6303
	<b>28. BOND NUMBER</b> WYB000493	<b>29. SOURCE OF DRILLING WATER / WATER RIGHTS APPROVAL NUMBER IF APPLICABLE</b> 437478

Hole, Casing, and Cement Information										
String	Hole Size	Casing Size	Length	Weight	Grade & Thread	Max Mud Wt.	Cement	Sacks	Yield	Weight
Surf	12.25	8.625	0 - 300	24.0	J-55 ST&C	8.3	Class G	138	1.17	15.8
Prod	7.875	5.5	0 - 6303	15.5	J-55 LT&C	8.3	Premium Lite High Strength	297	3.26	11.0
							50/50 Poz	363	1.24	14.3

**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> 05/03/2011	<b>EMAIL</b> mcrozier@newfield.com
<b>API NUMBER ASSIGNED</b> 43013507260000	<b>APPROVAL</b>   Permit Manager	

NEWFIELD PRODUCTION COMPANY  
 GMBU L-7-9-16  
 AT SURFACE: NW/SE SECTION 7, 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' – 1535'
Green River	1535'
Wasatch	6125'
<b>Proposed TD</b>	<b>6303'</b>

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

Green River Formation (Oil)	1535' – 6125'
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Fresh water may be encountered in the Uinta Formation, but would not be expected below about 350'. All water shows and water bearing geologic units shall be reported to the geologic and engineering staff of the Vernal Office prior to running the next string of casing or before plugging orders are requested. All water shows must be reported within one (1) business day after being encountered.

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

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

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

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

4. **PROPOSED CASING PROGRAM**

a. **Casing Design: GMBU L-7-9-16**

Size	Interval		Weight	Grade	Coupling	Design Factors		
	Top	Bottom				Burst	Collapse	Tension
Surface casing 8-5/8"	0'	300'	24.0	J-55	STC	2,950 17.53	1,370 14.35	244,000 33.89
Prod casing 5-1/2"	0'	6,303'	15.5	J-55	LTC	4,810 2.40	4,040 2.01	217,000 2.22

Assumptions:

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

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

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

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

b. **Cementing Design: GMBU L-7-9-16**

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	4,303'	Prem Lite II w/ 10% gel + 3% KCl	297	30%	11.0	3.26
			969			
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  $\pm 350$  feet will be drilled with an air/mist system. The air rig is equipped with a 6 1/2" blooie line that is straight run and securely anchored. The blooie line is used with a discharge less than 100 ft from the wellbore in order to minimize the well pad size. The blooie line is not equipped with an automatic igniter or continuous pilot light and the compressor is located less than 100 ft from the well bore due to the low possibility of combustion with the air dust mixture. The trailer mounted compressor (capacity of 2000 CFM) has a safety shut-off valve which is located 15 feet from the air rig. A truck with 70 bbls of water is on stand by to be used as kill fluid, if necessary. From about  $\pm 350$  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:**

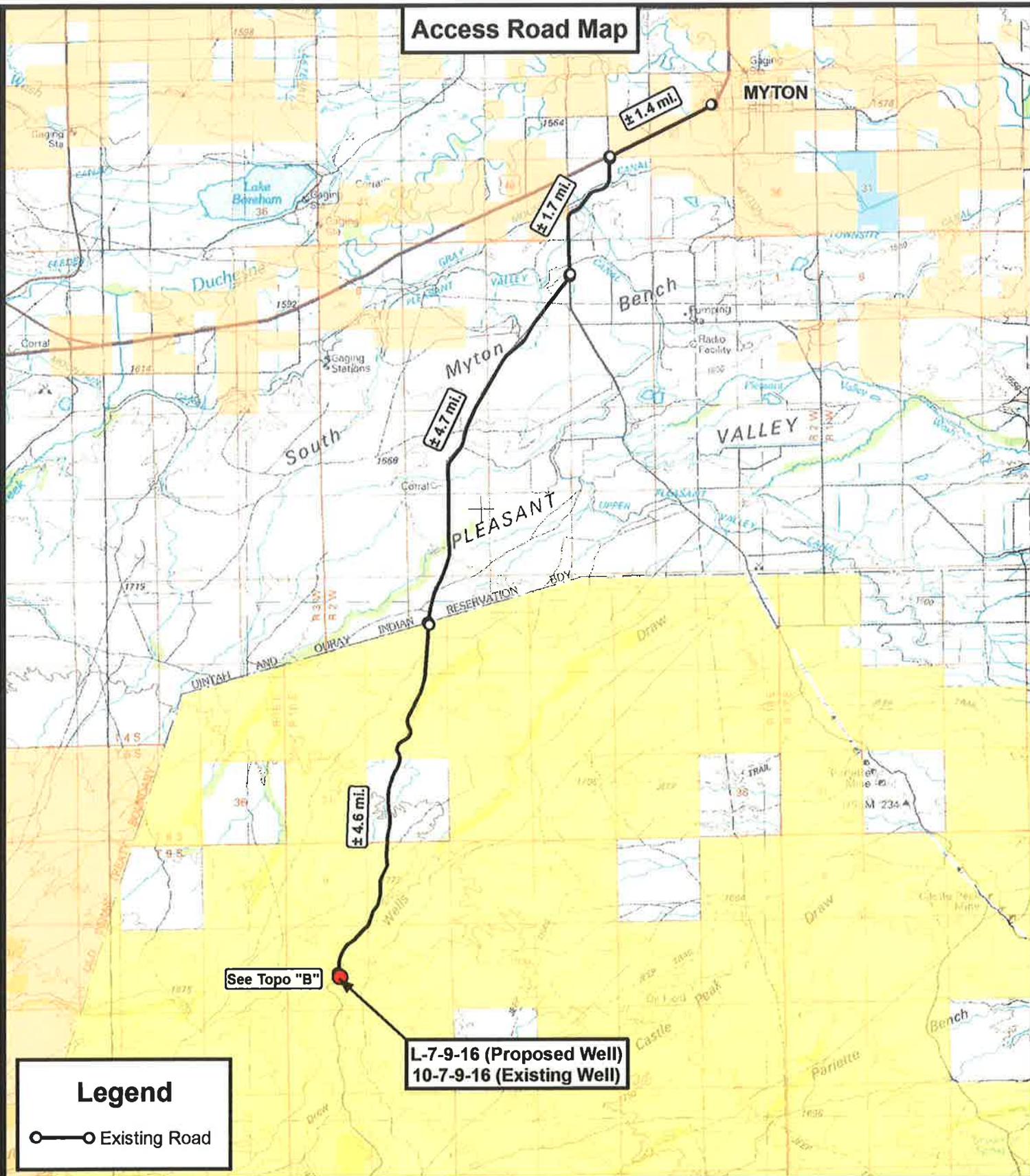
No abnormal temperatures or pressures are anticipated. No hydrogen sulfide has been encountered or is known to exist from previous drilling in the area at this depth. Maximum anticipated bottomhole pressure will approximately equal total depth in feet multiplied by a 0.433 psi/foot gradient.

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

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



**Access Road Map**



See Topo "B"

L-7-9-16 (Proposed Well)  
10-7-9-16 (Existing Well)

**Legend**  
 Existing Road

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

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



**NEWFIELD EXPLORATION COMPANY**

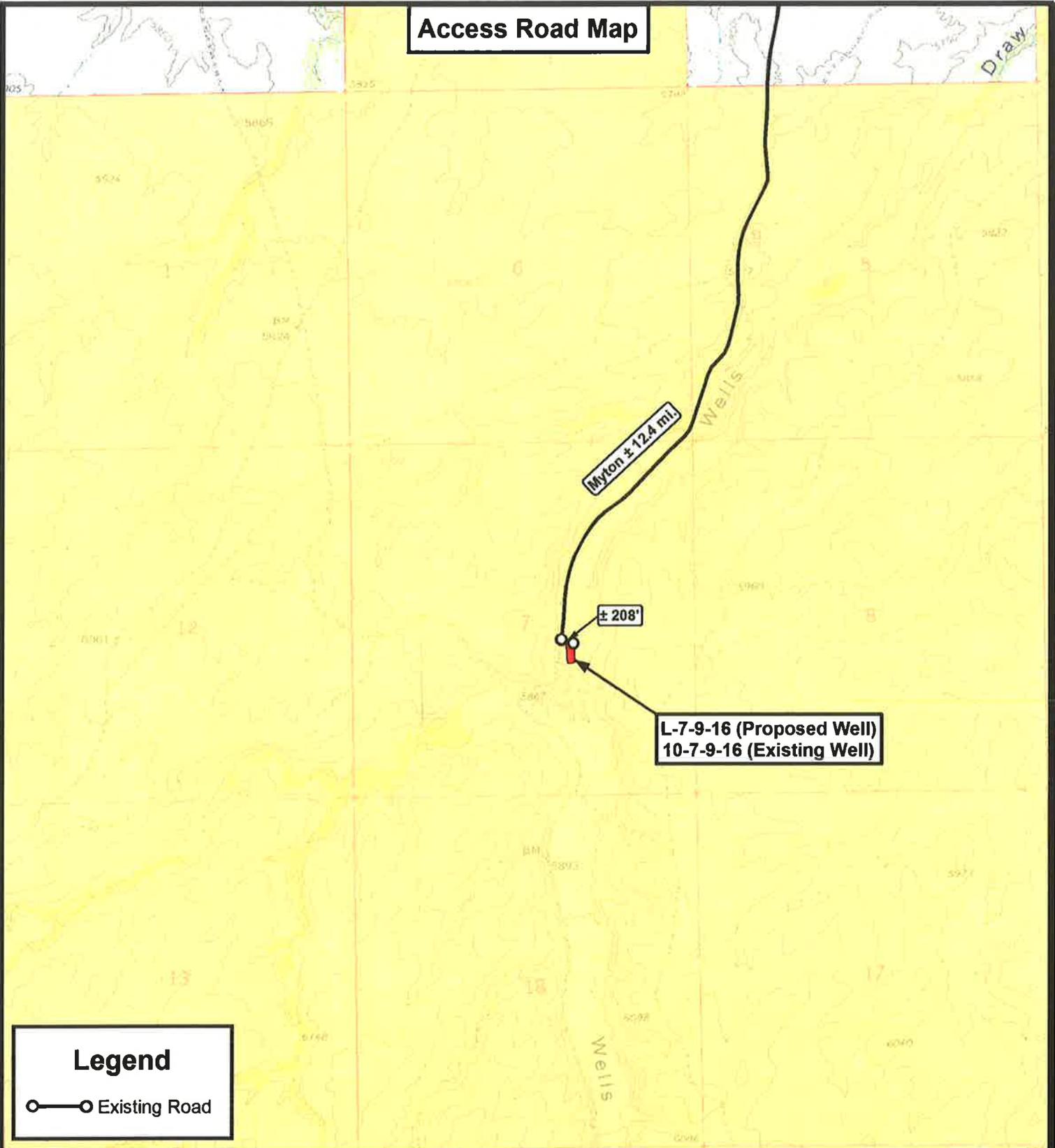
L-7-9-16 (Proposed Well)  
 10-7-9-16 (Existing Well)  
 SEC. 7, T9S, R16E, S.L.B.&M.  
 Duchesne County, UT.

DRAWN BY:	J.A.S.
DATE:	01-21-2011
SCALE:	1:100,000

**TOPOGRAPHIC MAP**

SHEET  
**A**

**Access Road Map**



**Legend**

—○ Existing Road

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

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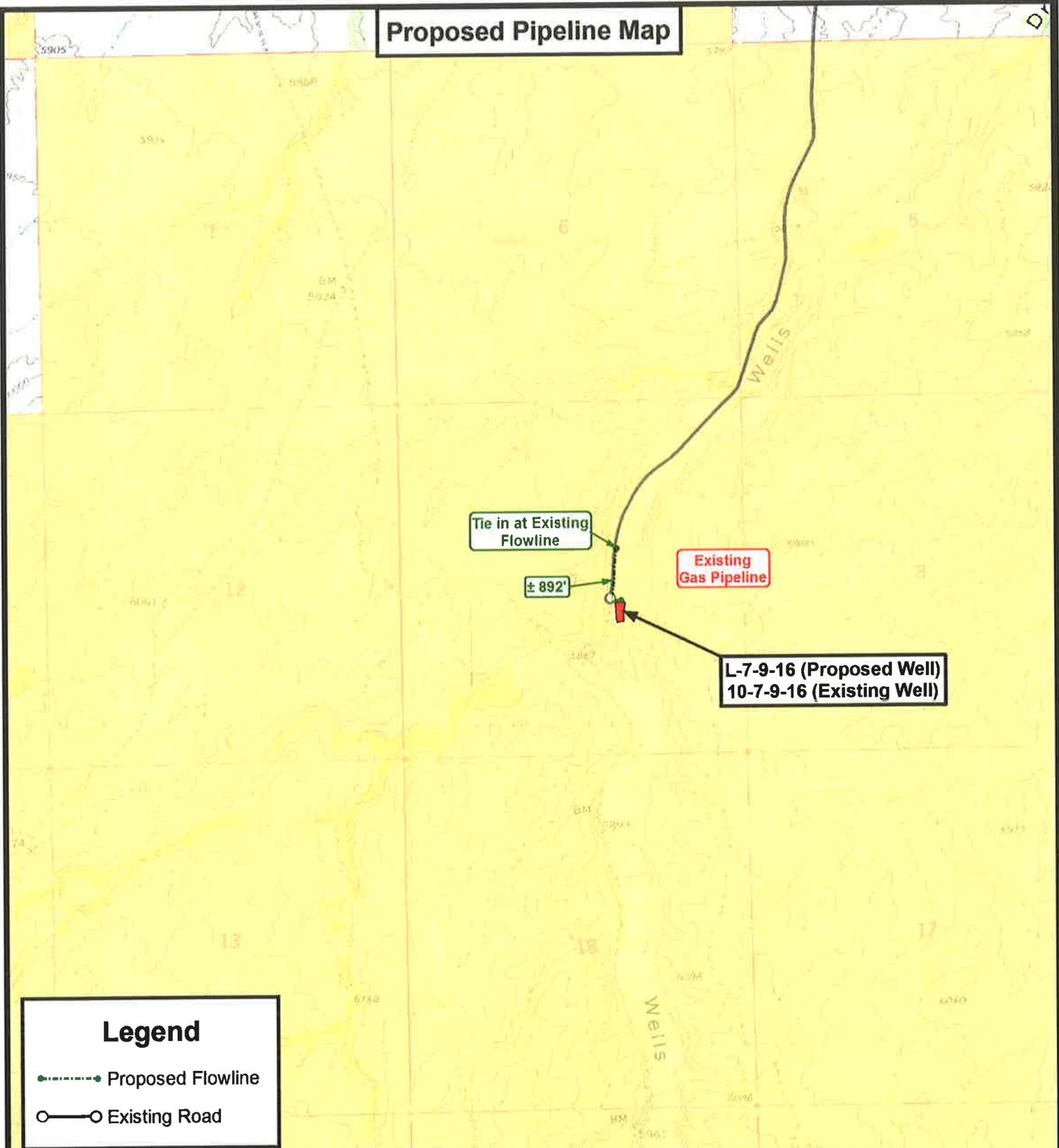
L-7-9-16 (Proposed Well)  
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SEC. 7, T9S, R16E, S.L.B.&M.  
Duchesne County, UT.

DRAWN BY:	J.A.S.
DATE:	01-21-2011
SCALE:	1" = 2,000'

**TOPOGRAPHIC MAP**

SHEET  
**B**

**Proposed Pipeline Map**



**Legend**

- ◆-----◆ Proposed Flowline
- Existing Road

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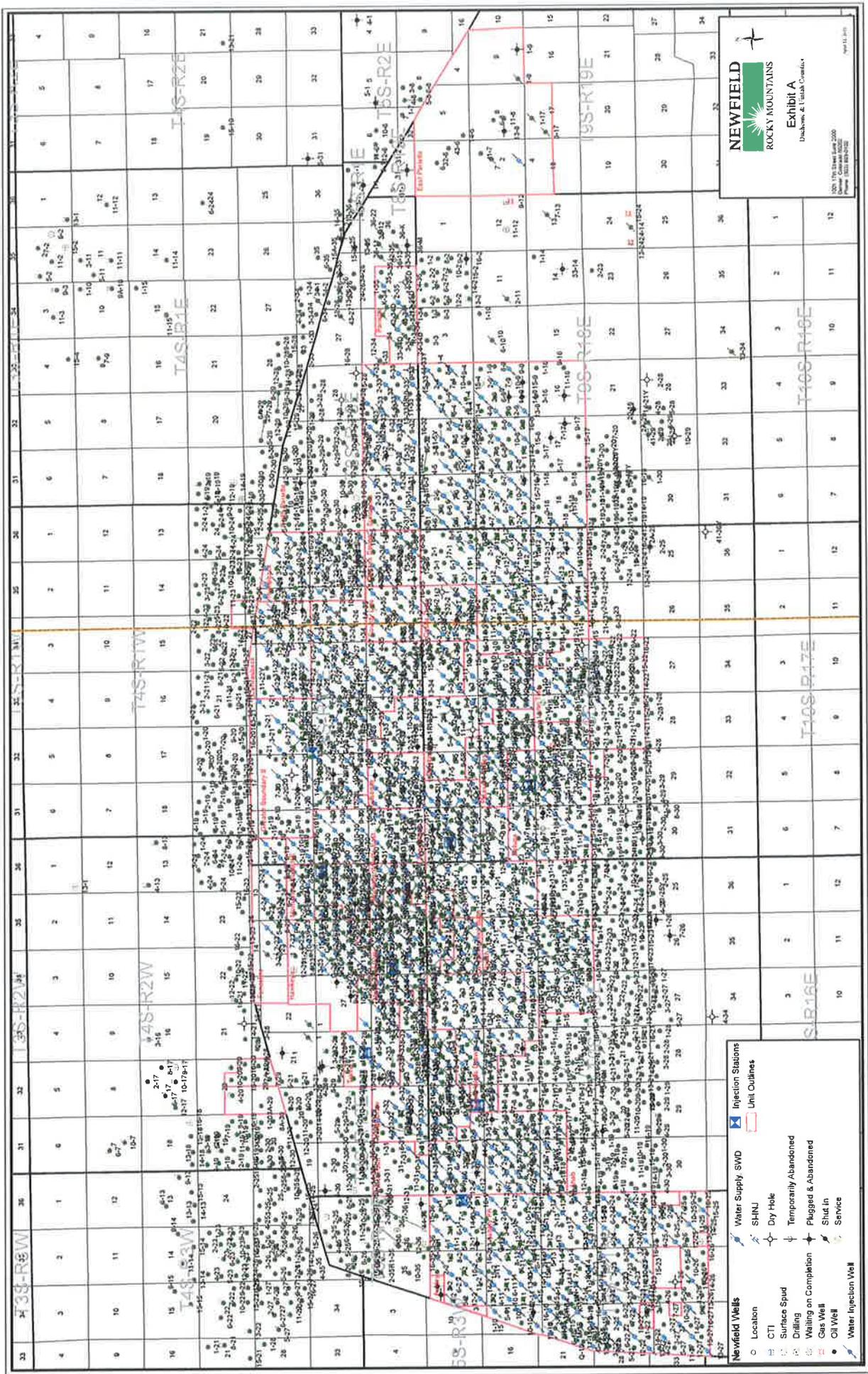
**NEWFIELD EXPLORATION COMPANY**

L-7-9-16 (Proposed Well)  
10-7-9-16 (Existing Well)  
SEC. 7, T9S, R16E, S.L.B.&M.  
Duchesne County, UT.

DRAWN BY:	J.A.S.
DATE:	01-21-2011
SCALE:	1" = 2,000'

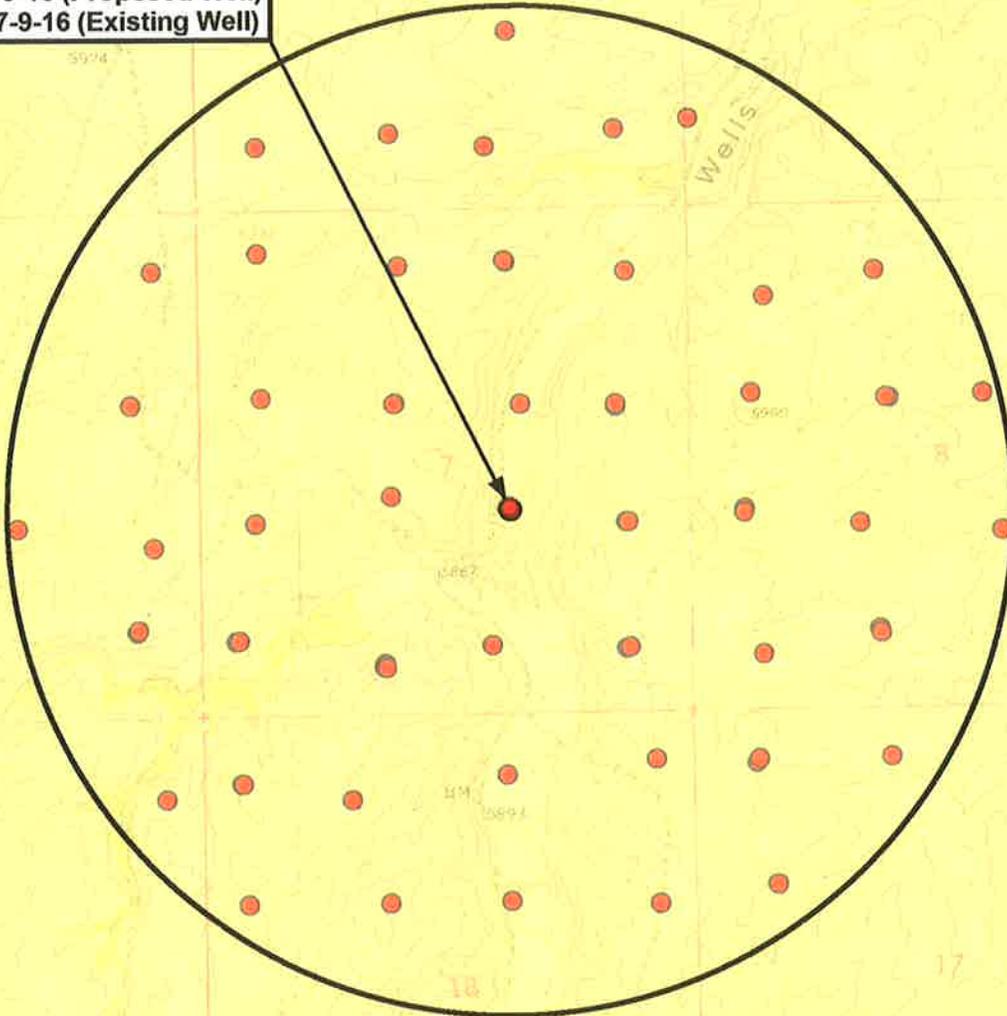
**TOPOGRAPHIC MAP**

SHEET  
**C**



**Exhibit "B" Map**

**L-7-9-16 (Proposed Well)**  
**10-7-9-16 (Existing Well)**



**Legend**

-  1 Mile Radius
-  Proposed Surface Location

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**NEWFIELD EXPLORATION COMPANY**

**L-7-9-16 (Proposed Well)**  
**10-7-9-16 (Existing Well)**  
**SEC. 7, T9S, R16E, S.L.B.&M.**  
**Duchesne County, UT.**

DRAWN BY:	J.A.S.
DATE:	01-21-2011
SCALE:	1" = 2,000'

**TOPOGRAPHIC MAP**

SHEET  
**D**



# **NEWFIELD EXPLORATION**

**USGS Myton SW (UT)**

**SECTION 7**

**L-7-9-16**

**Wellbore #1**

**Plan: Design #1**

## **Standard Planning Report**

**18 January, 2011**





<b>Database:</b>	EDM 2003.21 Single User Db	<b>Local Co-ordinate Reference:</b>	Well L-7-9-16
<b>Company:</b>	NEWFIELD EXPLORATION	<b>TVD Reference:</b>	L-7-9-16 @ 5864.0ft (Original Well Elev)
<b>Project:</b>	USGS Myton SW (UT)	<b>MD Reference:</b>	L-7-9-16 @ 5864.0ft (Original Well Elev)
<b>Site:</b>	SECTION 7	<b>North Reference:</b>	True
<b>Well:</b>	L-7-9-16	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	Wellbore #1		
<b>Design:</b>	Design #1		

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

<b>Site</b>	SECTION 7, SEC 7 T9S, R16E				
<b>Site Position:</b>		<b>Northing:</b>	7,187,175.05 ft	<b>Latitude:</b>	40° 2' 35.000 N
<b>From:</b>	Lat/Long	<b>Easting:</b>	2,012,750.39 ft	<b>Longitude:</b>	110° 10' 12.000 W
<b>Position Uncertainty:</b>	0.0 ft	<b>Slot Radius:</b>	"	<b>Grid Convergence:</b>	0.85 °

<b>Well</b>	L-7-9-16, SHL LAT: 40 02 38.34 LONG: -110 09 33.76					
<b>Well Position</b>	<b>+N/-S</b>	337.8 ft	<b>Northing:</b>	7,187,557.35 ft	<b>Latitude:</b>	40° 2' 38.340 N
	<b>+E/-W</b>	2,973.8 ft	<b>Easting:</b>	2,015,718.79 ft	<b>Longitude:</b>	110° 9' 33.760 W
<b>Position Uncertainty</b>		0.0 ft	<b>Wellhead Elevation:</b>	5,864.0 ft	<b>Ground Level:</b>	5,852.0 ft

<b>Wellbore</b>	Wellbore #1				
<b>Magnetics</b>	<b>Model Name</b>	<b>Sample Date</b>	<b>Declination (°)</b>	<b>Dip Angle (°)</b>	<b>Field Strength (nT)</b>
	IGRF2010	2011/01/18	11.40	65.79	52,293

<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>
	5,000.0	0.0	0.0	51.84

<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	
1,419.5	12.29	51.84	1,413.2	54.1	68.9	1.50	1.50	0.00	51.84	
5,090.4	12.29	51.84	5,000.0	537.0	683.4	0.00	0.00	0.00	0.00	L-7-9-16 TGT
6,303.2	12.29	51.84	6,185.0	696.5	886.4	0.00	0.00	0.00	0.00	



<b>Database:</b>	EDM 2003.21 Single User Db	<b>Local Co-ordinate Reference:</b>	Well L-7-9-16
<b>Company:</b>	NEWFIELD EXPLORATION	<b>TVD Reference:</b>	L-7-9-16 @ 5864.0ft (Original Well Elev)
<b>Project:</b>	USGS Myton SW (UT)	<b>MD Reference:</b>	L-7-9-16 @ 5864.0ft (Original Well Elev)
<b>Site:</b>	SECTION 7	<b>North Reference:</b>	True
<b>Well:</b>	L-7-9-16	<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	51.84	700.0	0.8	1.0	1.3	1.50	1.50	0.00
800.0	3.00	51.84	799.9	3.2	4.1	5.2	1.50	1.50	0.00
900.0	4.50	51.84	899.7	7.3	9.3	11.8	1.50	1.50	0.00
1,000.0	6.00	51.84	999.3	12.9	16.5	20.9	1.50	1.50	0.00
1,100.0	7.50	51.84	1,098.6	20.2	25.7	32.7	1.50	1.50	0.00
1,200.0	9.00	51.84	1,197.5	29.1	37.0	47.0	1.50	1.50	0.00
1,300.0	10.50	51.84	1,296.1	39.5	50.3	64.0	1.50	1.50	0.00
1,400.0	12.00	51.84	1,394.2	51.6	65.6	83.5	1.50	1.50	0.00
1,419.5	12.29	51.84	1,413.2	54.1	68.9	87.6	1.50	1.50	0.00
1,500.0	12.29	51.84	1,491.9	64.7	82.3	104.7	0.00	0.00	0.00
1,600.0	12.29	51.84	1,589.6	77.8	99.1	126.0	0.00	0.00	0.00
1,700.0	12.29	51.84	1,687.3	91.0	115.8	147.3	0.00	0.00	0.00
1,800.0	12.29	51.84	1,785.0	104.2	132.6	168.6	0.00	0.00	0.00
1,900.0	12.29	51.84	1,882.7	117.3	149.3	189.9	0.00	0.00	0.00
2,000.0	12.29	51.84	1,980.4	130.5	166.0	211.2	0.00	0.00	0.00
2,100.0	12.29	51.84	2,078.1	143.6	182.8	232.5	0.00	0.00	0.00
2,200.0	12.29	51.84	2,175.8	156.8	199.5	253.7	0.00	0.00	0.00
2,300.0	12.29	51.84	2,273.5	169.9	216.3	275.0	0.00	0.00	0.00
2,400.0	12.29	51.84	2,371.2	183.1	233.0	296.3	0.00	0.00	0.00
2,500.0	12.29	51.84	2,469.0	196.2	249.7	317.6	0.00	0.00	0.00
2,600.0	12.29	51.84	2,566.7	209.4	266.5	338.9	0.00	0.00	0.00
2,700.0	12.29	51.84	2,664.4	222.5	283.2	360.2	0.00	0.00	0.00
2,800.0	12.29	51.84	2,762.1	235.7	300.0	381.5	0.00	0.00	0.00
2,900.0	12.29	51.84	2,859.8	248.8	316.7	402.8	0.00	0.00	0.00
3,000.0	12.29	51.84	2,957.5	262.0	333.5	424.1	0.00	0.00	0.00
3,100.0	12.29	51.84	3,055.2	275.1	350.2	445.4	0.00	0.00	0.00
3,200.0	12.29	51.84	3,152.9	288.3	366.9	466.6	0.00	0.00	0.00
3,300.0	12.29	51.84	3,250.6	301.5	383.7	487.9	0.00	0.00	0.00
3,400.0	12.29	51.84	3,348.3	314.6	400.4	509.2	0.00	0.00	0.00
3,500.0	12.29	51.84	3,446.0	327.8	417.2	530.5	0.00	0.00	0.00
3,600.0	12.29	51.84	3,543.7	340.9	433.9	551.8	0.00	0.00	0.00
3,700.0	12.29	51.84	3,641.4	354.1	450.6	573.1	0.00	0.00	0.00
3,800.0	12.29	51.84	3,739.2	367.2	467.4	594.4	0.00	0.00	0.00
3,900.0	12.29	51.84	3,836.9	380.4	484.1	615.7	0.00	0.00	0.00
4,000.0	12.29	51.84	3,934.6	393.5	500.9	637.0	0.00	0.00	0.00
4,100.0	12.29	51.84	4,032.3	406.7	517.6	658.3	0.00	0.00	0.00
4,200.0	12.29	51.84	4,130.0	419.8	534.3	679.5	0.00	0.00	0.00
4,300.0	12.29	51.84	4,227.7	433.0	551.1	700.8	0.00	0.00	0.00
4,400.0	12.29	51.84	4,325.4	446.1	567.8	722.1	0.00	0.00	0.00
4,500.0	12.29	51.84	4,423.1	459.3	584.6	743.4	0.00	0.00	0.00
4,600.0	12.29	51.84	4,520.8	472.4	601.3	764.7	0.00	0.00	0.00
4,700.0	12.29	51.84	4,618.5	485.6	618.0	786.0	0.00	0.00	0.00
4,800.0	12.29	51.84	4,716.2	498.8	634.8	807.3	0.00	0.00	0.00
4,900.0	12.29	51.84	4,813.9	511.9	651.5	828.6	0.00	0.00	0.00
5,000.0	12.29	51.84	4,911.6	525.1	668.3	849.9	0.00	0.00	0.00
5,090.4	12.29	51.84	5,000.0	537.0	683.4	869.1	0.00	0.00	0.00
<b>L-7-9-16 TGT</b>									



<b>Database:</b>	EDM 2003.21 Single User Db	<b>Local Co-ordinate Reference:</b>	Well L-7-9-16
<b>Company:</b>	NEWFIELD EXPLORATION	<b>TVD Reference:</b>	L-7-9-16 @ 5864.0ft (Original Well Elev)
<b>Project:</b>	USGS Myton SW (UT)	<b>MD Reference:</b>	L-7-9-16 @ 5864.0ft (Original Well Elev)
<b>Site:</b>	SECTION 7	<b>North Reference:</b>	True
<b>Well:</b>	L-7-9-16	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	Wellbore #1		
<b>Design:</b>	Design #1		

Planned Survey										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	
5,100.0	12.29	51.84	5,009.3	538.2	685.0	871.2	0.00	0.00	0.00	
5,200.0	12.29	51.84	5,107.1	551.4	701.8	892.4	0.00	0.00	0.00	
5,300.0	12.29	51.84	5,204.8	564.5	718.5	913.7	0.00	0.00	0.00	
5,400.0	12.29	51.84	5,302.5	577.7	735.2	935.0	0.00	0.00	0.00	
5,500.0	12.29	51.84	5,400.2	590.8	752.0	956.3	0.00	0.00	0.00	
5,600.0	12.29	51.84	5,497.9	604.0	768.7	977.6	0.00	0.00	0.00	
5,700.0	12.29	51.84	5,595.6	617.1	785.5	998.9	0.00	0.00	0.00	
5,800.0	12.29	51.84	5,693.3	630.3	802.2	1,020.2	0.00	0.00	0.00	
5,900.0	12.29	51.84	5,791.0	643.4	818.9	1,041.5	0.00	0.00	0.00	
6,000.0	12.29	51.84	5,888.7	656.6	835.7	1,062.8	0.00	0.00	0.00	
6,100.0	12.29	51.84	5,986.4	669.8	852.4	1,084.1	0.00	0.00	0.00	
6,200.0	12.29	51.84	6,084.1	682.9	869.2	1,105.3	0.00	0.00	0.00	
6,303.2	12.29	51.84	6,185.0	696.5	886.4	1,127.3	0.00	0.00	0.00	

Targets										
Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (ft)	Easting (ft)	Latitude	Longitude	
L-7-9-16 TGT - hit/miss target - Shape	0.00	0.00	5,000.0	537.0	683.4	7,188,104.49	2,016,394.08	40° 2' 43.647 N	110° 9' 24.972 W	
- plan hits target										
- Circle (radius 75.0)										



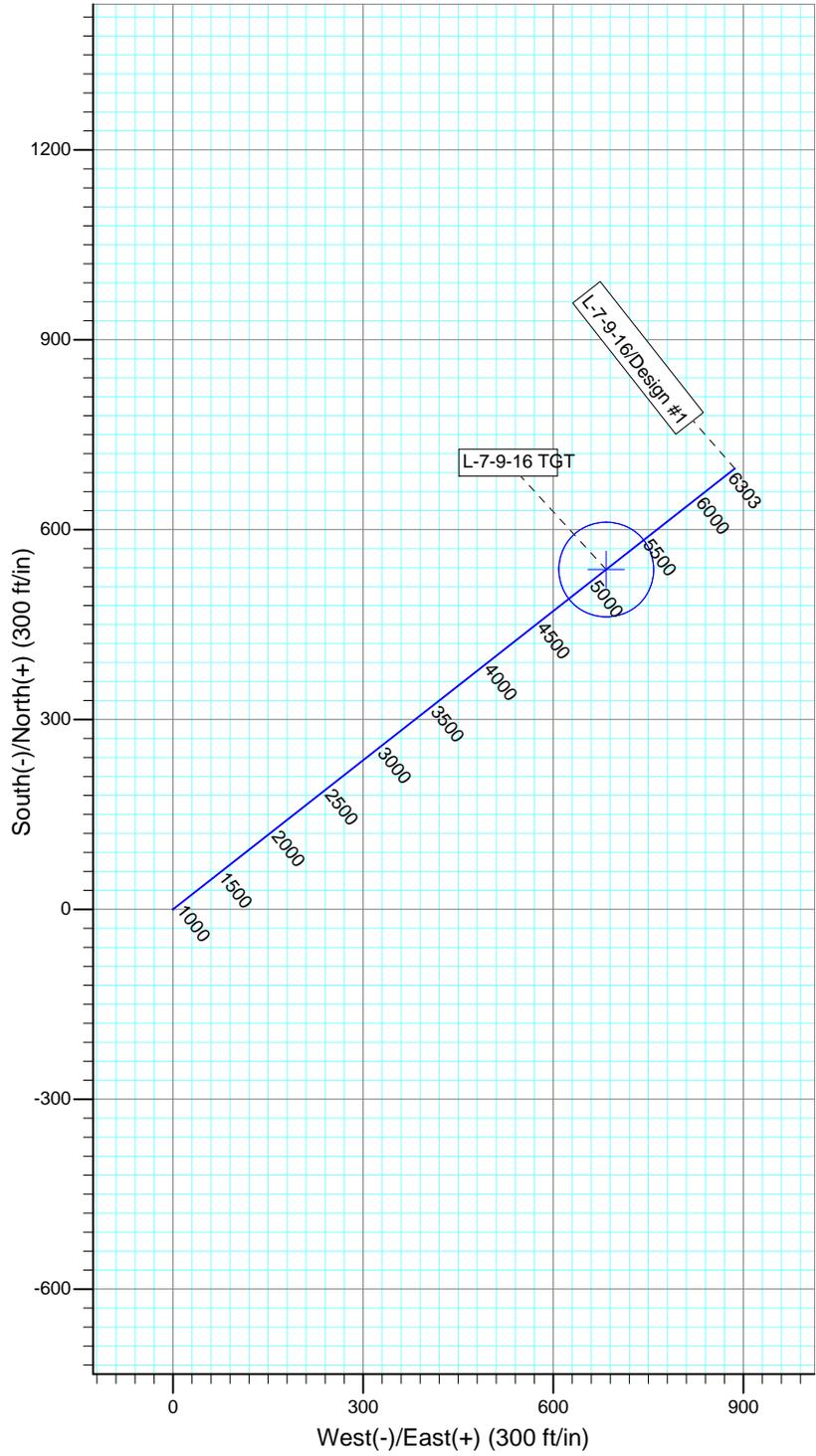
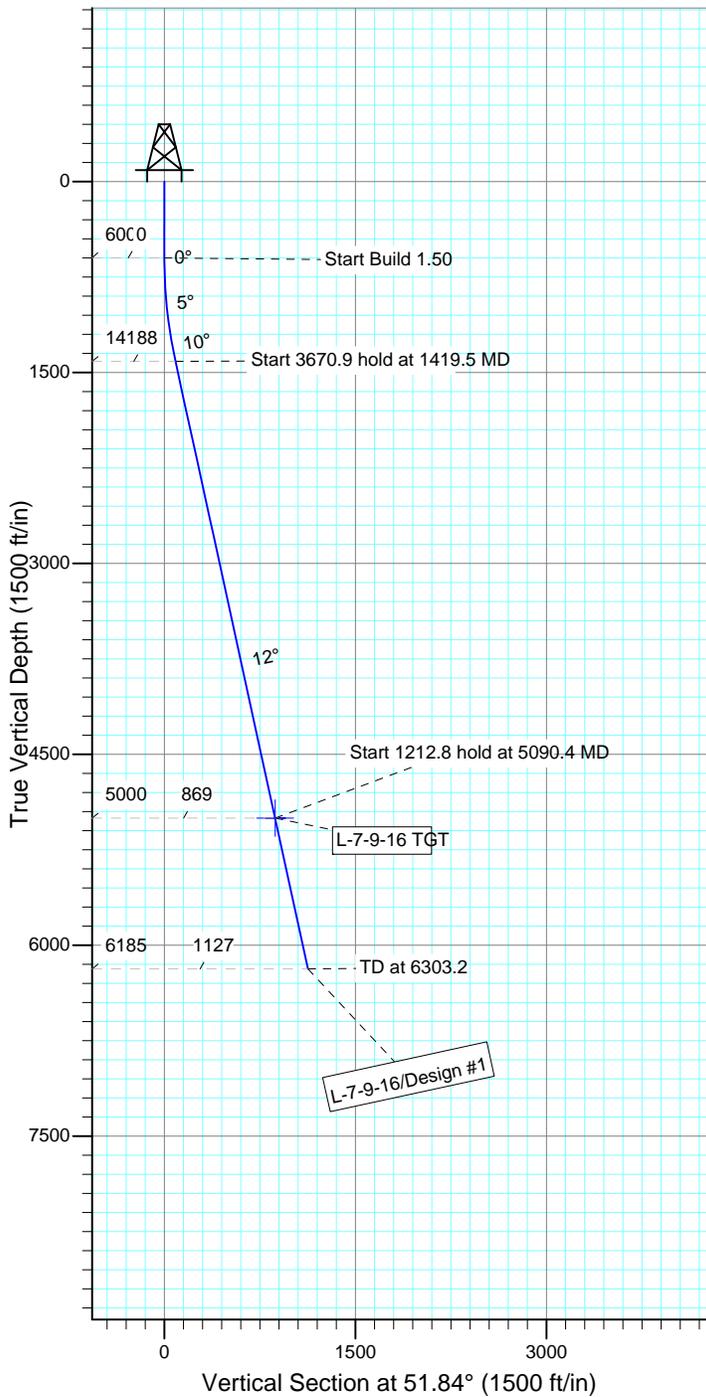
Project: USGS Myton SW (UT)  
 Site: SECTION 7  
 Well: L-7-9-16  
 Wellbore: Wellbore #1  
 Design: Design #1



Azimuths to True North  
 Magnetic North: 11.40°

Magnetic Field  
 Strength: 52293.4snT  
 Dip Angle: 65.79°  
 Date: 2011/01/18  
 Model: IGRF2010

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



WELLBORE TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Shape
L-7-9-16 TGT	5000.0	537.0	683.4	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	1419.5	12.29	51.84	1413.2	54.1	68.9	1.50	51.84	87.6	
4	5090.4	12.29	51.84	5000.0	537.0	683.4	0.00	0.00	869.1	L-7-9-16 TGT
5	6303.2	12.29	51.84	6185.0	696.5	886.4	0.00	0.00	1127.3	



**NEWFIELD PRODUCTION COMPANY  
GMBU L-7-9-16  
AT SURFACE: NW/SE SECTION 7, T9S, R16E  
DUCHESNE COUNTY, UTAH**

**ONSHORE ORDER NO. 1**

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

**1. EXISTING ROADS**

See attached Topographic Map "A"

To reach Newfield Production Company well location site GMBU L-7-9-16 located in the NW 1/4 SE 1/4 Section 7, T9S, R16E, Duchesne County, Utah:

Proceed southwesterly out of Myton, Utah along Highway 40 - 1.4 miles  $\pm$  to the junction of this highway and UT State Hwy 53; proceed in a southwesterly direction - 11.0 miles  $\pm$  to it's junction with the beginning of the access road to the existing 10-7-9-16 well lcoation.

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 directionaly off of the existing 10-7-9-16 well pad. See attached **Topographic Map "B"**.

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

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

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

**3. LOCATION OF EXISTING WELLS**

Refer to Exhibit "B".

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

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

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

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

Tank batteries will be built to State specifications.

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

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

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

Johnson Water District  
Water Right : 43-10136

Maurice Harvey Pond  
Water Right: 47-1358

Neil Moon Pond  
Water Right: 43-11787

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

There will be no water well drilled at this site.

6. **SOURCE OF CONSTRUCTION MATERIALS**

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

A mineral material application is not required for this location.

7. **METHODS FOR HANDLING WASTE DISPOSAL**

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

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

A portable toilet will be provided for human waste.

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

8. **ANCILLARY FACILITIES**

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

9. **WELL SITE LAYOUT**

See attached Location Layout Sheet.

**Fencing Requirements**

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

- a) A 39-inch net wire shall be used with at least one strand of barbed wire on top of the net.
- b) The net wire shall be no more than two (2) inches above the ground. The barbed wire shall be three (3) inches above the net wire. Total height of the fence shall be at least forty-two (42) inches.
- c) Corner posts shall be centered and/or braced in such a manner to keep tight at all times
- d) Standard steel, wood or pipe posts shall be used between the corner braces. Maximum distance between any two posts shall be no greater than sixteen (16) feet.
- e) All wire shall be stretched, by using a stretching device, before it is attached to the corner posts.

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

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

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

- a) Producing Location

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

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

- b) Dry Hole Abandoned Location

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

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

12. **OTHER ADDITIONAL INFORMATION**

The Archaeological Resource Survey and Paleontological Resource Survey for this area are attached. MOAC Report #11-056, 4/27//11. Paleontological Resource Survey prepared by, Wade E. Miller, 4/23/11. See attached report cover pages, Exhibit "D".

### **Surface Flow Line**

Newfield requests 892' of surface flow line be granted. The Surface Flow Line will consist of up to a 14" bundled pipe consisting of 2-2" poly glycol lines and 1-3" production line. For all new wells, Newfield. **Refer to Topographic Map "C"** for the proposed location of the proposed flow line. Flow lines will be tan and will be constructed using the following procedures:

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

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

Termination and Final Reclamation: After abandonment of the associated production facilities, the flow lines will be cut and removed, and any incidental surface disturbance reclaimed. Reclamation procedures will follow those outlined in the Castle Peak and Eight Mile Flat Reclamation and Weed Management Plan.

### **Water Disposal**

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

### **Additional Surface Stipulations**

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

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

The proposed GMBU L-7-9-16 was on-sited on 2/24/11. The following were present; Tim Eaton (Newfield Production), Christine Cimiluca (Bureau of Land Management), and Suzanne Grayson (Bureau of Land Management).

### **Hazardous Material Declaration**

Newfield Production Company guarantees that during the drilling and completion of the GMBU L-7-9-16, Newfield will not use, produce, store, transport or dispose 10,000# annually of any of the hazardous chemicals contained in the Environmental Protection Agency's consolidated list of chemicals subject to reporting under Title III Superfund Amendments and Reauthorization Act (SARA) of 1986. Newfield also guarantees that during the drilling and completion of the GMBU L-7-9-16, Newfield will use, produce, store, transport or dispose less than the threshold planning quantity (T.P.Q.) of any extremely hazardous substances as defined in 40 CFR 355.

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

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

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

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

Certification

Please be advised that NEWFIELD PRODUCTION COMPANY is considered to be the operator of well #L-7-9-16, Section 7, Township 9S, Range 16E: Lease UTU-74390 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.

5/2/11  
Date

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

## 2-M SYSTEM

Blowout Prevention Equipment Systems

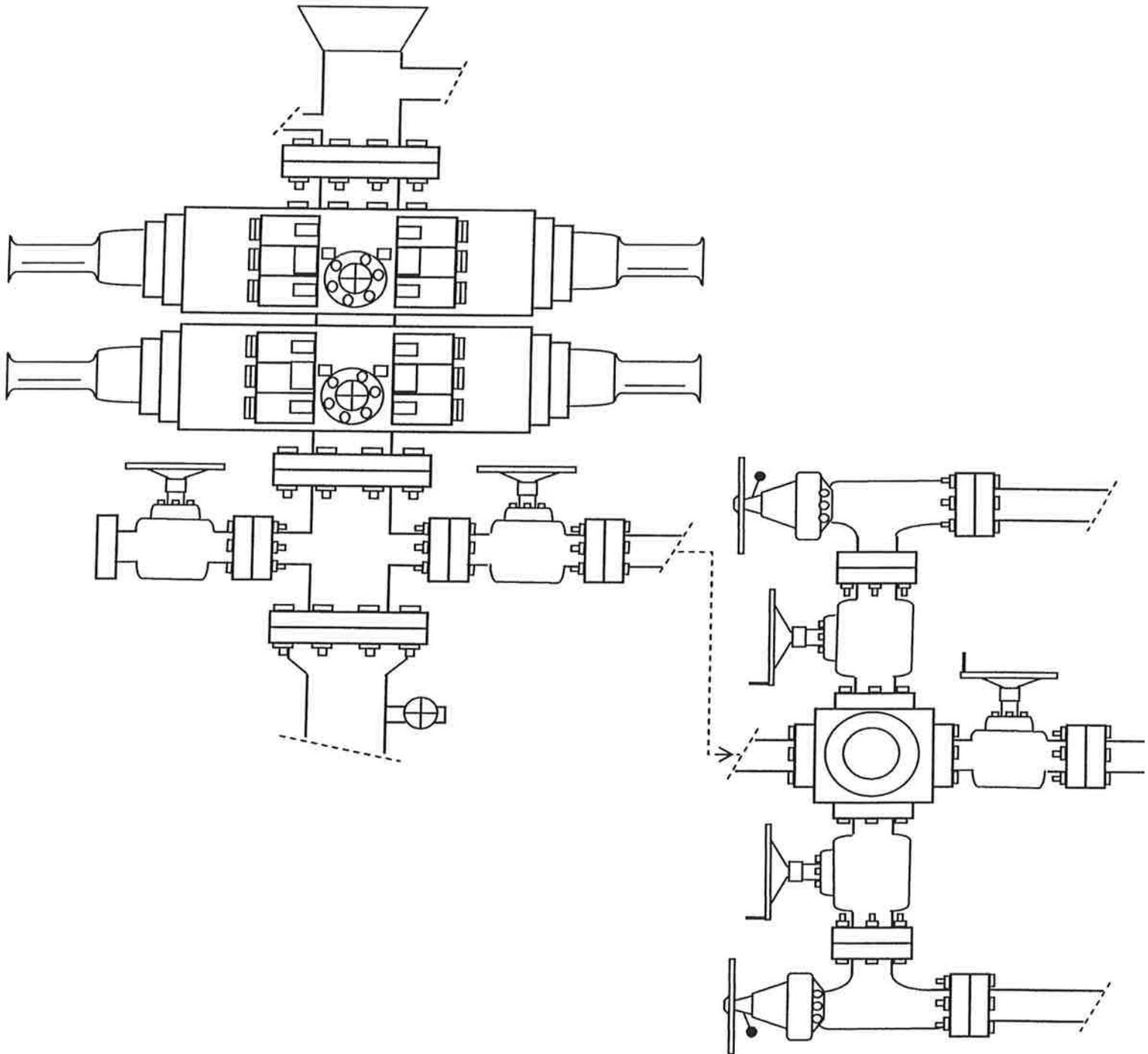


EXHIBIT C

# NEWFIELD EXPLORATION COMPANY

## WELL PAD INTERFERENCE PLAT

**L-7-9-16 (Proposed Well)**

**10-7-9-16 (Existing Well)**

Pad Location: NWSE Section 7, T9S, R16E, S.L.B.&M.



Existing Access

**TOP HOLE FOOTAGES**

L-7-9-16 (PROPOSED)  
2121' FSL & 1898' FEL

Edge of Existing Pad

Existing Anchor (Typ.)

Existing Road

10-7-9-16 (EXISTING)

Injection Shed

(To Bottom Hole)  
N51°50'35"E - 1127.31'  
N51°50'35"E - 869.12'  
(To C.O.P.)

**CENTER OF PATTERN FOOTAGES**

L-7-9-16 (PROPOSED)  
2645' FNL & 1205' FEL

Future Pit

S05°12'20"E

L-7-9-16 (PROPOSED)

**BOTTOM HOLE FOOTAGES**

L-7-9-16 (PROPOSED)  
2488' FSL & 1205' FWL

**Note:**

Bearings are based on GPS Observations.

**RELATIVE COORDINATES**  
From Top Hole to Bottom Hole

WELL	NORTH	EAST
L-7-9-16	697'	886'

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

WELL	NORTH	EAST
L-7-9-16	537'	683'

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

WELL	LATITUDE	LONGITUDE
L-7-9-16	40° 02' 38.34"	110° 09' 33.98"
10-7-9-16	40° 02' 38.48"	110° 09' 34.18"

SURVEYED BY: T.P.	DATE SURVEYED: 11-09-10
DRAWN BY: M.W.	DATE DRAWN: 01-21-11
SCALE: 1" = 50'	REVISED:

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

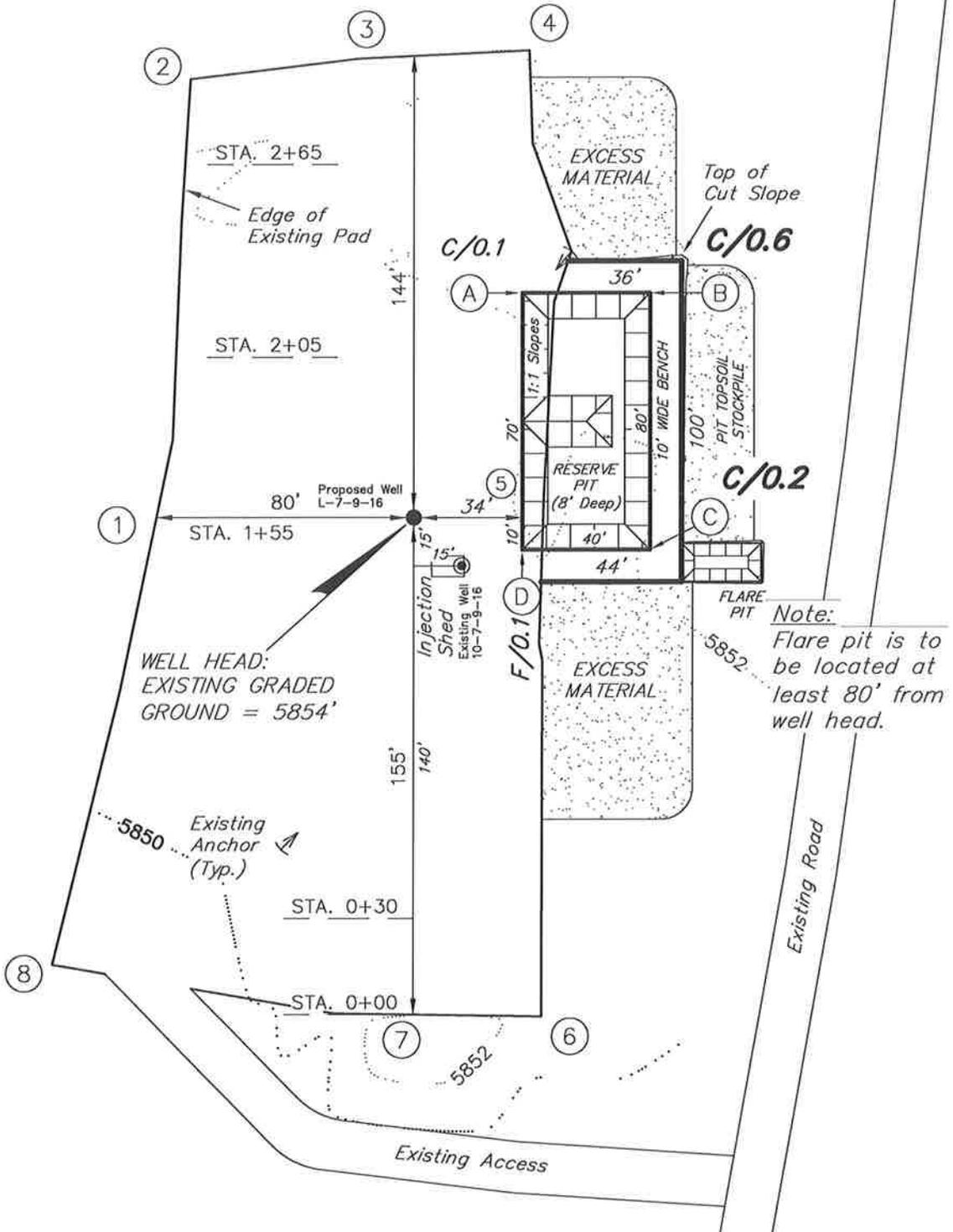
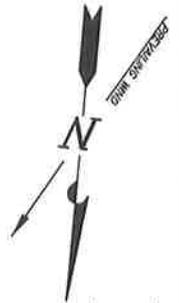
# NEWFIELD EXPLORATION COMPANY

## LOCATION LAYOUT

L-7-9-16 (Proposed Well)

10-7-9-16 (Existing Well)

Pad Location: NWSE Section 7, 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: 11-09-10	<p><b>Tri State</b> Land Surveying, Inc. 180 NORTH VERNAL AVE. VERNAL, UTAH 84078</p>	(435) 781-2501
DRAWN BY: M.W.	DATE DRAWN: 01-21-11		
SCALE: 1" = 50'	REVISED:		

RECEIVED: May. 17, 2011

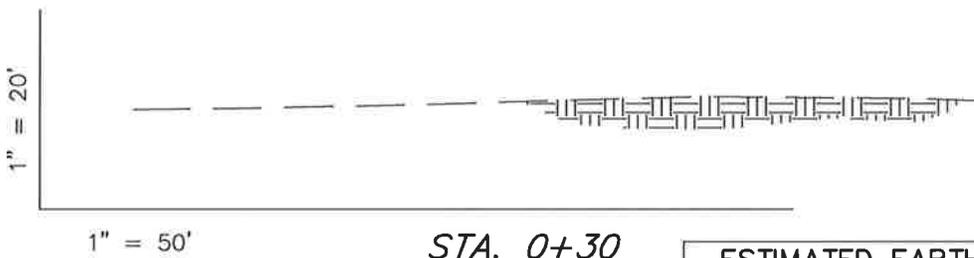
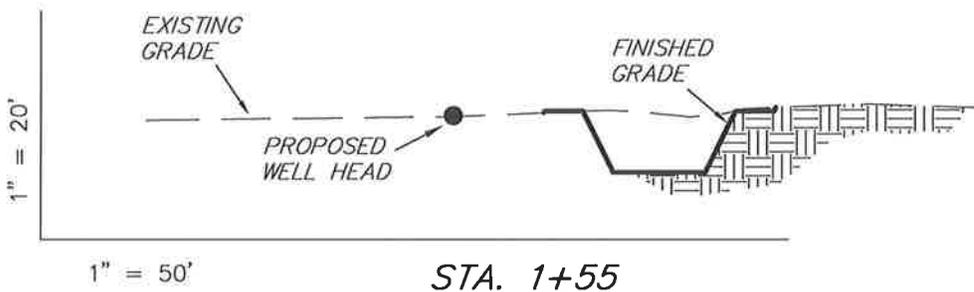
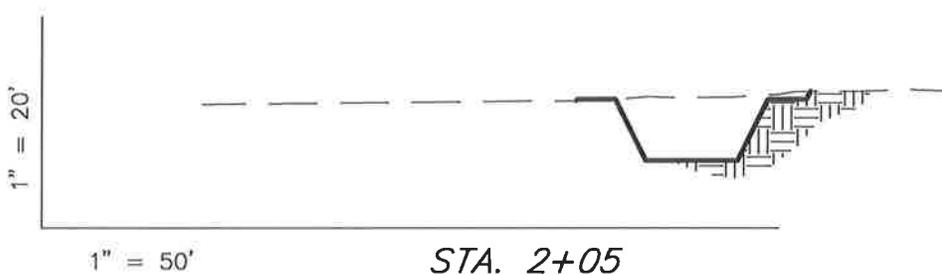
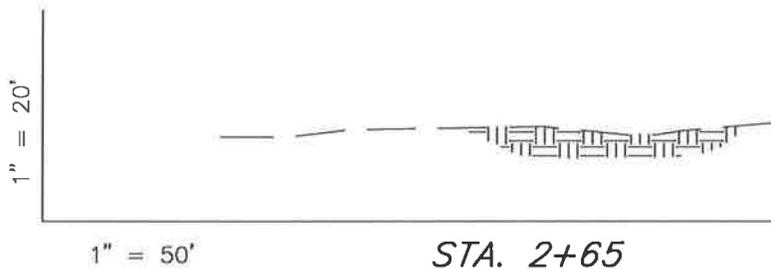
# NEWFIELD EXPLORATION COMPANY

## CROSS SECTIONS

L-7-9-16 (Proposed Well)

10-7-9-16 (Existing Well)

Pad Location: NWSE Section 7, T9S, R16E, S.L.B.&M.



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	0	10	Topsoil is not included in Pad Cut	-10
PIT	640	0		640
TOTALS	640	10	120	630

SURVEYED BY: T.P.	DATE SURVEYED: 11-09-10
DRAWN BY: M.W.	DATE DRAWN: 01-21-11
SCALE: 1" = 50'	REVISED:

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

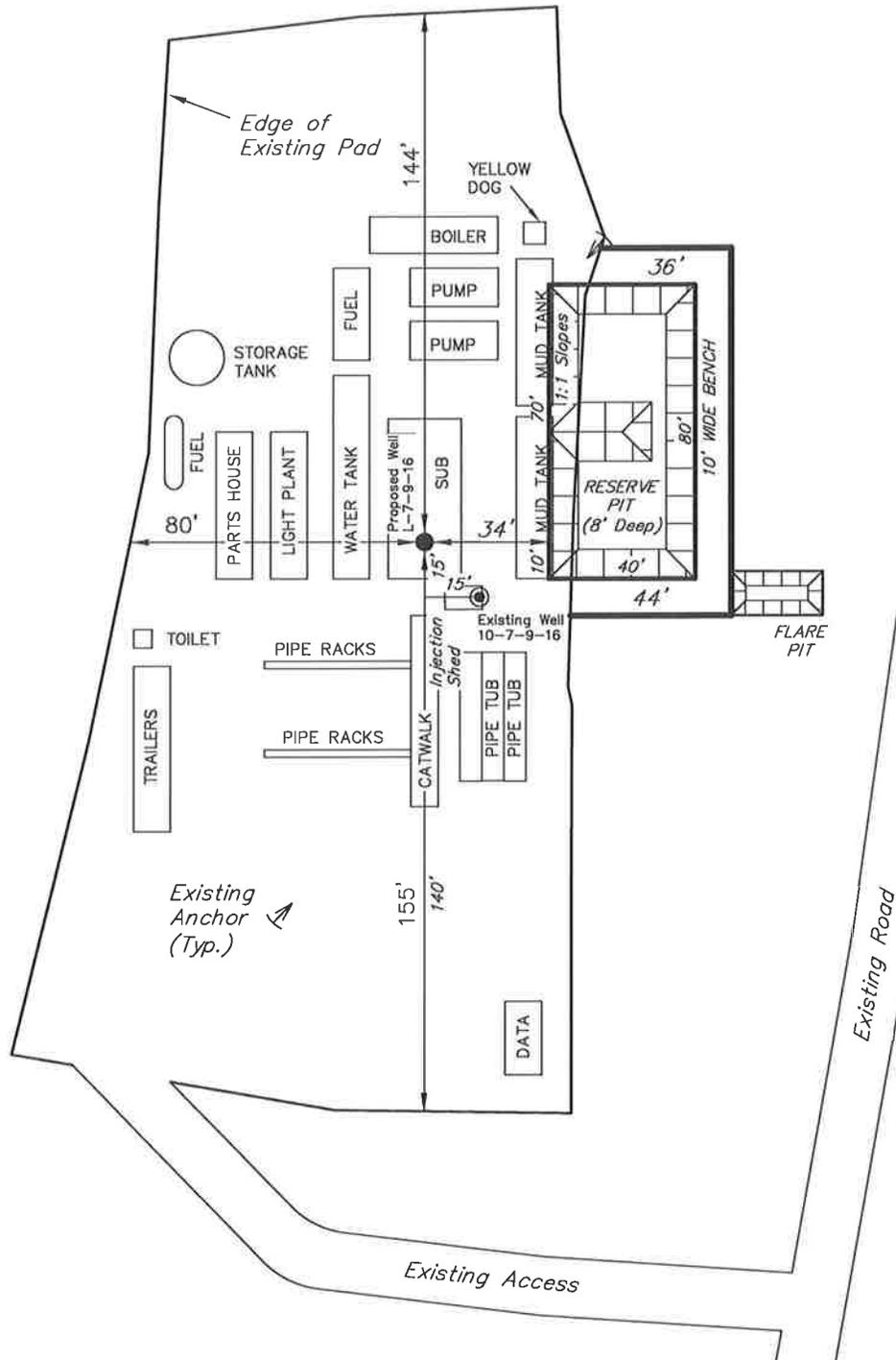
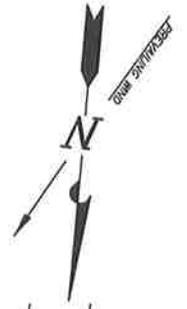
# NEWFIELD EXPLORATION COMPANY

## TYPICAL RIG LAYOUT

L-7-9-16 (Proposed Well)

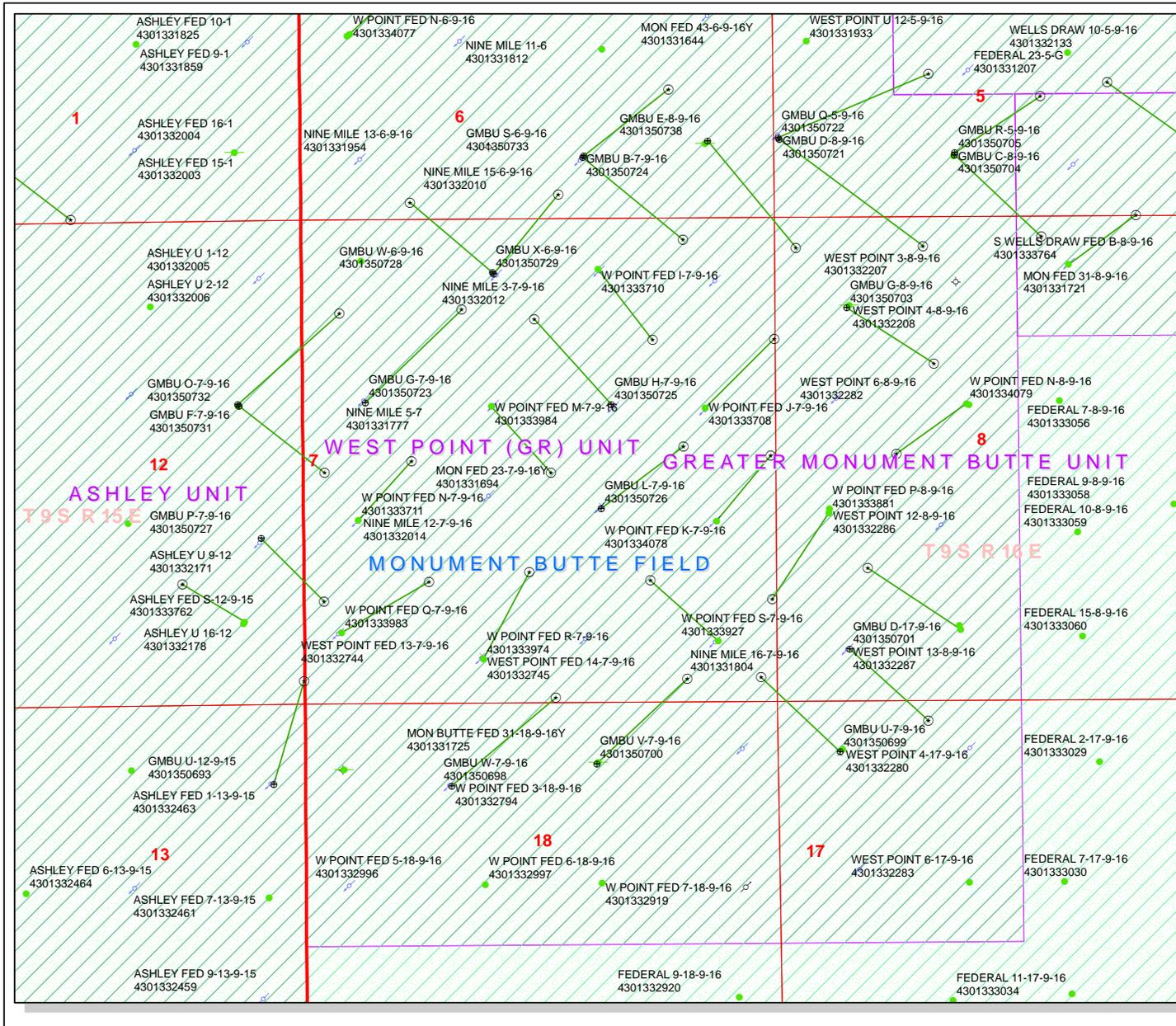
10-7-9-16 (Existing Well)

Pad Location: NWSE Section 7, T9S, R16E, S.L.B.&M.



SURVEYED BY: T.P.	DATE SURVEYED: 11-09-10
DRAWN BY: M.W.	DATE DRAWN: 01-21-11
SCALE: 1" = 50'	REVISED:

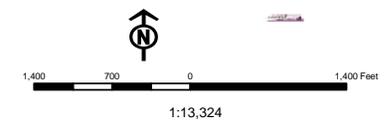
**Tri State** (435) 781-2501  
 Land Surveying, Inc.  
 180 NORTH VERNAL AVE. VERNAL, UTAH 84078



**API Number: 4301350726**  
**Well Name: GMBU L-7-9-16**  
 Township T0.9 . Range R1.6 . Section 07  
 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       | SOW - Shut-in Oil Well             |
| ABANDONED     | TA - Temp. Abandoned               |
| ACTIVE        | TW - Test Well                     |
| COMBINED      | WDW - Water Disposal               |
| INACTIVE      | WIW - Water Injection Well         |
| STORAGE       | WSW - Water Supply Well            |
| TERMINATED    |                                    |
| Sections      |                                    |
| Township      |                                    |



# United States Department of the Interior

## BUREAU OF LAND MANAGEMENT

Utah State Office

P.O. Box 45155

Salt Lake City, Utah 84145-0155

## IN REPLY REFER TO:

3160

(UT-922)

May 12, 2011

## Memorandum

To: Assistant District Manager Minerals, Vernal District

From: Michael Coulthard, Petroleum Engineer

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

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

API#	WELL NAME	LOCATION
(Proposed PZ GREEN RIVER)		
43-013-50699	GMBU U-7-9-16	Sec 17 T09S R16E 0546 FNL 0671 FWL
		BHL Sec 07 T09S R16E 0270 FSL 0178 FEL
43-013-50708	GMBU N-3-9-16	Sec 03 T09S R16E 1963 FSL 0856 FWL
		BHL Sec 03 T09S R16E 2259 FNL 1558 FWL
43-013-50709	GMBU T-4-9-16	Sec 03 T09S R16E 1948 FSL 0871 FWL
		BHL Sec 04 T09S R16E 1102 FSL 0119 FEL
43-013-50710	GMBU W-3-9-16	Sec 10 T09S R16E 0657 FNL 2002 FEL
		BHL Sec 03 T09S R16E 0307 FSL 2284 FWL
43-013-50721	GMBU D-8-9-16	Sec 05 T09S R16E 0854 FSL 0074 FWL
		BHL Sec 08 T09S R16E 0312 FNL 1630 FWL
43-013-50722	GMBU Q-5-9-16	Sec 05 T09S R16E 0873 FSL 0063 FWL
		BHL Sec 05 T09S R16E 1558 FSL 1704 FWL
43-013-50723	GMBU G-7-9-16	Sec 07 T09S R16E 1989 FNL 0685 FWL
		BHL Sec 07 T09S R16E 0984 FNL 1740 FWL
43-013-50724	GMBU B-7-9-16	Sec 06 T09S R16E 0667 FSL 2065 FEL
		BHL Sec 07 T09S R16E 0235 FNL 0982 FEL

**RECEIVED: May. 17, 2011**

API#	WELL NAME	LOCATION
(Proposed PZ GREEN RIVER)		
43-013-50725	GMBU H-7-9-16	Sec 07 T09S R16E 2027 FNL 1779 FEL BHL Sec 07 T09S R16E 1092 FNL 2606 FEL
43-013-50726	GMBU L-7-9-16	Sec 07 T09S R16E 2121 FSL 1898 FEL BHL Sec 07 T09S R16E 2488 FNL 0999 FEL
43-013-50727	GMBU P-7-9-16	Sec 12 T09S R15E 1811 FSL 0464 FEL BHL Sec 07 T09S R16E 1124 FSL 0215 FWL
43-013-50728	GMBU W-6-9-16	Sec 07 T09S R16E 0595 FNL 2092 FWL BHL Sec 06 T09S R16E 0266 FSL 2334 FEL
43-013-50729	GMBU X-6-9-16	Sec 07 T09S R16E 0581 FNL 2077 FWL BHL Sec 06 T09S R16E 0190 FSL 1188 FWL
43-013-50731	GMBU F-7-9-16	Sec 12 T09S R15E 2001 FNL 0704 FEL BHL Sec 07 T09S R16E 1020 FNL 0413 FWL
43-013-50732	GMBU O-7-9-16	Sec 12 T09S R15E 2016 FNL 0689 FEL BHL Sec 07 T09S R16E 2525 FSL 0232 FWL
43-013-50733	GMBU S-6-9-16	Sec 06 T09S R16E 0683 FSL 2051 FEL BHL Sec 06 T09S R16E 1407 FSL 1126 FEL
43-013-50738	GMBU E-8-9-16	Sec 06 T09S R16E 0838 FSL 0704 FEL BHL Sec 08 T09S R16E 0325 FNL 0248 FWL
43-013-50740	GMBU P-5-9-16	Sec 06 T09S R16E 0855 FSL 0692 FEL BHL Sec 05 T09S R16E 1336 FSL 0057 FWL
43-013-50741	GMBU C-31-8-17	Sec 30 T08S R17E 0711 FSL 1936 FWL BHL Sec 31 T08S R17E 0247 FNL 2401 FEL
43-013-50742	GMBU D-31-8-17	Sec 30 T08S R17E 0732 FSL 1933 FWL BHL Sec 31 T08S R17E 0227 FNL 1136 FWL
43-013-50743	GMBU G-31-8-17	Sec 31 T08S R17E 0657 FNL 0557 FWL BHL Sec 31 T08S R17E 1517 FNL 1397 FWL
43-013-50744	GMBU D-2-9-16	Sec 35 T08S R16E 0512 FSL 2111 FWL BHL Sec 02 T09S R16E 0030 FNL 1063 FWL
43-013-50745	GMBU F-8-9-17	Sec 07 T09S R17E 0743 FNL 0669 FEL BHL Sec 08 T09S R17E 1745 FNL 0170 FWL
43-013-50746	GMBU N-7-9-17	Sec 07 T09S R17E 1900 FNL 1774 FWL BHL Sec 07 T09S R17E 2136 FSL 1497 FWL
43-013-50747	GMBU U-6-9-17	Sec 08 T09S R17E 0696 FNL 0516 FWL BHL Sec 06 T09S R17E 0133 FSL 0210 FEL

API#	WELL NAME	LOCATION
(Proposed PZ GREEN RIVER)		
43-013-50748	GMBU V-31-8-17	Sec 06 T09S R17E 0674 FNL 1958 FEL BHL Sec 31 T08S R17E 0046 FSL 1139 FEL
43-013-50749	GMBU Y-6-9-17	Sec 12 T09S R16E 0194 FNL 0416 FEL BHL Sec 06 T09S R17E 0214 FSL 0292 FWL
43-013-50750	GMBU F-3-9-16	Sec 04 T09S R16E 0714 FNL 0558 FEL BHL Sec 03 T09S R16E 1586 FNL 0331 FWL

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

Michael L. Coulthard

Digitally signed by Michael L. Coulthard  
DN: cn=Michael L. Coulthard, o=Bureau of Land Management,  
ou=Branch of Minerals, email=Michael\_Coulthard@blm.gov, c=US  
Date: 2011.05.12 11:18:24 -0600

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

MCoulthard:mc:5-12-11



VIA ELECTRONIC DELIVERY

May 17, 2011

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

RE: Directional Drilling  
**GMBU L-7-9-16**  
Greater Monument Butte (Green River) Unit

Surface Hole: T9S-R16E Section 7: NWSE (UTU-74390)  
2121' FSL 1898' FEL

At Target: T9S-R16E Section 7: SENE (UTU-74390)  
2488' FNL 999' FEL

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 5/2/11, 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

A handwritten signature in blue ink, appearing to read "Shane Gillespie", is written over a light blue circular stamp.

Shane Gillespie  
Land Associate

Form 3160-3  
(August 2007)

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

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

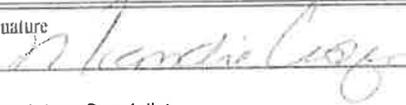
**APPLICATION FOR PERMIT TO DRILL OR REENTER**

5a. Type of work: <input checked="" type="checkbox"/> DRILL <input type="checkbox"/> REENTER		5. Lease Serial No. UTU-74390
1b. Type of Well: <input checked="" type="checkbox"/> Oil Well <input type="checkbox"/> Gas Well <input type="checkbox"/> Other <input checked="" type="checkbox"/> Single Zone <input type="checkbox"/> Multiple Zone		6. If Indian, Allottee or Tribe Name NA
2. Name of Operator Newfield Production Company		7. If Unit or CA Agreement, Name and No. Greater Monument Butte
3a. Address Route #3 Box 3630, Myton UT 84052		8. Lease Name and Well No. GMBU L-7-9-16
3b. Phone No. (include area code) (435) 646-3721		9. API Well No.
4. Location of Well (Report location clearly and in accordance with any State requirements.)* At surface NW/SE 2121' FSL 1898' FEL Sec. 7, T9S R16E (UTU-74390) At proposed prod. zone SE/NE 2488' FNL 999' FEL Sec. 7, T9S R16E (UTU-74390)		10. Field and Pool, or Exploratory Monument Butte
14. Distance in miles and direction from nearest town or post office* Approximately 12.5 miles southwest of Myton, UT		11. Sec., T, R, M. or Blk. and Survey or Area Sec. 7, T9S R16E
15. Distance from proposed* location to nearest property or lease line, ft. Approx. 3,639' f/lse, NA f/unit (Also to nearest drig. unit line, if any)	16. No. of acres in lease 2,037.19	12. County or Parish Duchesne
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. 635'	13. State UT
19. Proposed Depth 6,303'	20. BLM/BIA Bond No. on file WYB000493	
21. Elevations (Show whether DF, KDB, RT, GL, etc.) 5854' GL	22. Approximate date work will start* 3rd Qtr 2011	23. Estimated duration (7) days from SPUD to rig release

**24. Attachments**

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

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

25. Signature 	Name (Printed Typed) Mandie Crozier	Date 5/12/11
Title Regulatory Specialist		
Approved by (Signature)	Name (Printed Typed)	Date
Title 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.

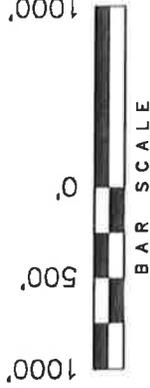
(Continued on page 2)

\*(Instructions on page 2)

**NEWFIELD EXPLORATION COMPANY**

WELL LOCATION, L-7-9-16, LOCATED AS SHOWN IN THE NW 1/4 SE 1/4 OF SECTION 7, T9S, R16E, S.L.B.&M. DUCHESNE COUNTY, UTAH.

TARGET BOTTOM HOLE, L-7-9-16, LOCATED AS SHOWN IN THE SE 1/4 NE 1/4 OF SECTION 7, T9S, R16E, S.L.B.&M. DUCHESNE COUNTY, UTAH.



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

THIS IS TO CERTIFY THAT THE ABOVE WELL WAS PREPARED FROM FIELD NOTES OF ACTUAL SURVEYS MADE BY ME OR UNDER MY SUPERVISION AND THAT THE SAME ARE TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF. BEING 6.189377

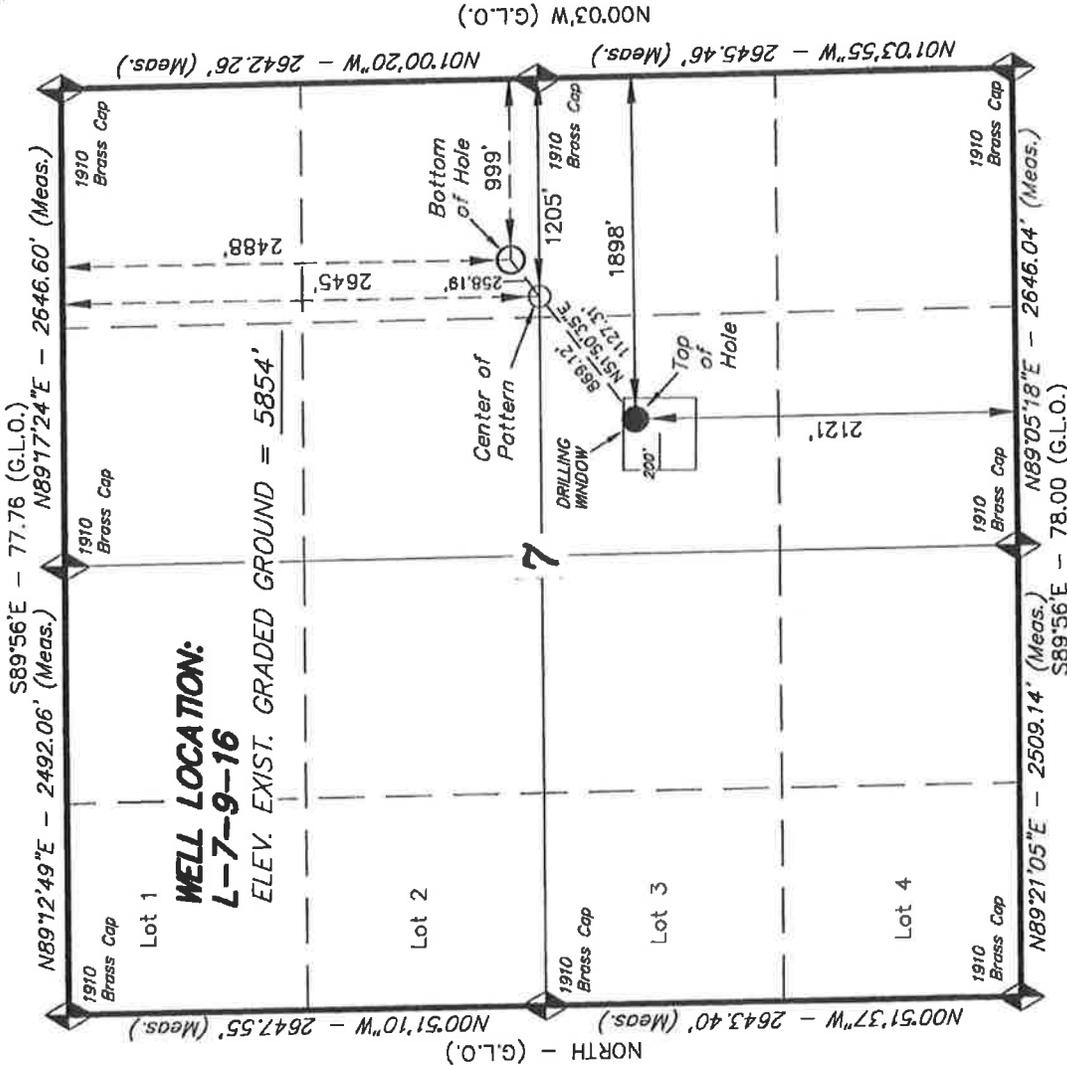
*Stacy W. Stewart*  
 STACY W. STEWART  
 REGISTERED LAND SURVEYOR  
 REGISTRATION NO. 189377  
 STATE OF UTAH

**TRI STATE LAND SURVEYING & CONSULTING**

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

DATE SURVEYED: 11-09-10	SURVEYED BY: T.P.
DATE DRAWN: 01-21-11	DRAWN BY: M.W.
REVISED:	SCALE: 1" = 1000'

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



L-7-9-16  
 (Surface Location) NAD 83  
 LATITUDE = 40° 02' 38.34"  
 LONGITUDE = 110° 09' 33.98"

◆ = 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'

### Access Road Map

Draw

Myton ± 12.4 mi.

± 208'

L-7-9-16 (Proposed Well)  
10-7-9-16 (Existing Well)

**Legend**

—○— Existing Road

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



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

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



**NEWFIELD EXPLORATION COMPANY**

L-7-9-16 (Proposed Well)  
10-7-9-16 (Existing Well)  
SEC. 7, T9S, R16E, S.L.B.&M.  
Duchesne County, UT.

DRAWN BY:	J.A.S.
DATE:	01-21-2011
SCALE:	1" = 2,000'

**TOPOGRAPHIC MAP**

SHEET  
**B**

## WORKSHEET APPLICATION FOR PERMIT TO DRILL

**APD RECEIVED:** 5/3/2011**API NO. ASSIGNED:** 43013507260000**WELL NAME:** GMBU L-7-9-16**OPERATOR:** NEWFIELD PRODUCTION COMPANY (N2695)**PHONE NUMBER:** 435 646-4825**CONTACT:** Mandie Crozier**PROPOSED LOCATION:** NWSE 07 090S 160E**Permit Tech Review:** **SURFACE:** 2121 FSL 1898 FEL**Engineering Review:** **BOTTOM:** 2488 FNL 0999 FEL**Geology Review:** **COUNTY:** DUCHESNE**LATITUDE:** 40.04404**LONGITUDE:** -110.15880**UTM SURF EASTINGS:** 571761.00**NORTHINGS:** 4432774.00**FIELD NAME:** MONUMENT BUTTE**LEASE TYPE:** 1 - Federal**LEASE NUMBER:** UTU-74390**PROPOSED PRODUCING FORMATION(S):** GREEN RIVER**SURFACE OWNER:** 1 - Federal**COALBED METHANE:** NO**RECEIVED AND/OR REVIEWED:**

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

**Commingle Approved****LOCATION AND SITING:**

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

**Comments:** Presite Completed

**Stipulations:** 4 - Federal Approval - dmason  
15 - Directional - dmason  
27 - Other - bhill



GARY R. HERBERT  
*Governor*

GREGORY S. BELL  
*Lieutenant Governor*

## State of Utah

DEPARTMENT OF NATURAL RESOURCES

MICHAEL R. STYLER  
*Executive Director*

Division of Oil, Gas and Mining

JOHN R. BAZA  
*Division Director*

### Permit To Drill

\*\*\*\*\*

**Well Name:** GMBU L-7-9-16  
**API Well Number:** 43013507260000  
**Lease Number:** UTU-74390  
**Surface Owner:** FEDERAL  
**Approval Date:** 5/17/2011

**Issued to:**

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

**Authority:**

Pursuant to Utah Code Ann. §40-6-1 et seq., and Utah Administrative Code R649-3-1 et seq., the Utah Division of Oil, Gas and Mining issues conditions of approval, and permit to drill the listed well. This permit is issued in accordance with the requirements of Cause: 213-11. The expected producing formation or pool is the GREEN RIVER Formation(s), completion into any other zones will require filing a Sundry Notice (Form 9). Completion and commingling of more than one pool will require approval in accordance with R649-3-22.

**Duration:**

This approval shall expire one year from the above date unless substantial and continuous operation is underway, or a request for extension is made prior to the expiration date

**General:**

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

**Conditions of Approval:**

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).

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.

**Notification Requirements:**

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

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

**Reporting Requirements:**

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

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

**Approved By:**

A handwritten signature in black ink, appearing to read "John Rogers", written in a cursive style.

For John Rogers  
Associate Director, Oil & Gas

RECEIVED

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

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

MAY 04 2011

APPLICATION FOR PERMIT TO DRILL OR REENTER UTAH

1a. Type of work: <input checked="" type="checkbox"/> DRILL <input type="checkbox"/> REENTER		7. If Unit or CA Agreement, Name and No. Greater Monument Butte
1b. Type of Well: <input checked="" type="checkbox"/> Oil Well <input type="checkbox"/> Gas Well <input type="checkbox"/> Other <input checked="" type="checkbox"/> Single Zone <input type="checkbox"/> Multiple Zone		8. Lease Name and Well No. GMBU L-7-9-16
2. Name of Operator Newfield Production Company		9. API Well No. 43-013-50720
3a. Address Route #3 Box 3630, Myton UT 84052	3b. Phone No. (include area code) (435) 646-3721	10. Field and Pool, or Exploratory Monument Butte
4. Location of Well (Report location clearly and in accordance with any State requirements.)* At surface NW/SE 2121' FSL 1898' FEL Sec. 7, T9S R16E (UTU-74390) At proposed prod. zone SE/NE 2488' FNL 999' FEL Sec. 7, T9S R16E (UTU-74390)		11. Sec., T. R. M. or Blk. and Survey or Area Sec. 7, T9S R16E
14. Distance in miles and direction from nearest town or post office* Approximately 12.5 miles southwest of Myton, UT		12. County or Parish Duchesne
		13. State UT
15. Distance from proposed* location to nearest property or lease line, ft. Approx. 3,639' f/lse, NA f/unit (Also to nearest drig. unit line, if any)	16. No. of acres in lease 2,037.19	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. 635'	19. Proposed Depth 6,303'	20. BLM/BIA Bond No. on file WYB000493
21. Elevations (Show whether DF, KDB, RT, GL, etc.) 5854' GL	22. Approximate date work will start* 3rd Qtr. 2011	23. Estimated duration (7) days from SPUD to rig release
24. Attachments		

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

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

25. Signature 	Name (Printed/Typed) Mandie Crozier	Date 5/12/11
Title Regulatory Specialist		
Approved by (Signature) 	Name (Printed/Typed) Jerry Kenczka	Date OCT 03 2011
Title Assistant Field Manager Lands & Mineral Resources	Office VERNAL FIELD OFFICE	

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

**CONDITIONS OF APPROVAL ATTACHED**

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

(Continued on page 2)

\*(Instructions on page 2)

RECEIVED

OCT 07 2011

NOTICE OF APPROVAL

DIV. OF OIL, GAS & MINING

NOS 2-4-11

AFMSS# 11SX50343A

UDOGM



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

170 South 500 East

VERNAL, UT 84078

(435) 781-4400



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

Company: Newfield Production Company  
Well No: GMBU L-7-9-16  
API No: 43-013-50726

Location: NWSE, Sec. 7, T9S, R16E  
Lease No: UTU-74390  
Agreement: Greater Monument Butte Unit

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

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

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

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

**NOTIFICATION REQUIREMENTS**

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

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

- All new and replacement internal combustion gas field engines of less than or equal to 300 design-rated horsepower must not emit more than 2 gms of NO<sub>x</sub> per horsepower-hour. This requirement does not apply to gas field engines of less than or equal to 40 design-rated horsepower.
- All and replacement internal combustion gas field engines of greater than 300 design rated horsepower must not emit more than 1.0 gms of NO<sub>x</sub> per horsepower-hour.
- If there is an active Gilsonite mining operation within 2 miles of the well location, operator shall notify the Gilsonite operator at least 48 hours prior to any blasting during construction.
- If paleontological materials are uncovered during construction, the operator is to immediately stop work and contact the Authorized Officer (AO). A determination will be made by the AO as to what mitigation may be necessary for the discovered paleontologic material before construction can continue.
- After cessation of drilling and completion operations, any visible or measurable layer of oil must be removed from the surface of the reserve pit and the pit kept free of oil.
- Pits must be free of oil and other liquid and solid wastes prior to filling. Pit liners must not be breached (cut) or filled (squeezed) while still containing fluids. The pit liner must be removed to the solids level or treated to prevent its reemergence to the surface or its interference with long-term successful revegetation.
- Due to the close proximity of 10 meters from the Wells Draw floodplain additional erosional controls should be applied as necessary.

**If construction and drilling is anticipated during any of the following wildlife seasonal or spatial restrictions, a qualified consulting firm biologist must be contacted at least 2 weeks prior in order to conduct applicable surveys using an accepted protocol prior to any ground disturbing activities.**

- Mountain plover surveys will be conducted to protocol by a professional environmental consulting firm biologist prior to any ground disturbing activities. Reports from survey results must be reviewed by a BLM authorized officer prior to proceeding with the project. A seasonal restriction for all ground disturbing activities in mountain plover habitat from May 1-June 15 is required.
- Three raptor nest surveys must be conducted during the nesting season within ½ mile of the project area(s). It is recommended that these surveys be spaced 3 weeks apart, so nesting status and reproductive success can be verified and documented.
- No surface occupancy or use is allowed within ½ mile of golden eagle nests from January 1 through August 31. If during the surveys known nests/habitat is found to be inactive, an exemption may be requested in writing, survey results reviewed and approved by a BLM minerals biologist before granting the exemption.
- Install hospital mufflers where possible to reduce noise impacts to wildlife.

### **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.
- The reclamation seed mix will incorporate low growing grasses, instead of crested wheatgrass, which negatively impacts mountain plover habitat.
- Appropriate erosion control and revegetation measures will be employed. In areas with unstable soils where seeding alone may not adequately control erosion, grading will be used to minimize slopes and water bars will be installed on disturbed slopes. Erosion control efforts will be monitored by Newfield and, if necessary, modifications will be made to control erosion.

### **Monitoring and Reporting**

- The operator shall submit a Sundry Notice (Form 3160-5) to the BLM Authorized Officer (AO) that designates the proposed site-specific monitoring and reference sites chosen for the location. A description of the proposed sites shall be included, as well as a map showing the locations of the proposed sites.
- The operator shall submit a Sundry Notice (Form 3160-5) to the BLM Authorized Officer (AO) 3 growing seasons after reclamation efforts have occurred evaluating the status of the reclaimed areas in order to determine whether the BLM standards set forth in the Green River District Reclamation Guidelines have been met (30% or greater basal cover).

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

**SITE SPECIFIC DOWNHOLE COAs:**

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

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

**DRILLING/COMPLETION/PRODUCING OPERATING STANDARDS**

- The spud date and time shall be reported orally to Vernal Field Office within 24 hours of spudding.
- Notify Vernal Field Office Supervisory Petroleum Engineering Technician at least 24 hours in advance of casing cementing operations and BOPE & casing pressure tests.
- All requirements listed in Onshore Order #2 III. E. Special Drilling Operations are applicable for air drilling of surface hole.
- Blowout prevention equipment (BOPE) shall remain in use until the well is completed or abandoned. Closing unit controls shall remain unobstructed and readily accessible at all times. Choke manifolds shall be located outside of the rig substructure.
- All BOPE components shall be inspected daily and those inspections shall be recorded in the daily drilling report. Components shall be operated and tested as required by Onshore Oil & Gas Order No. 2 to insure good mechanical working order. All BOPE pressure tests shall be performed by a test pump with a chart recorder and **NOT** by the rig pumps. Test shall be reported in the driller's log.
- BOP drills shall be initially conducted by each drilling crew within 24 hours of drilling out from under the surface casing and weekly thereafter as specified in Onshore Oil & Gas Order No. 2.
- Casing pressure tests are required before drilling out from under all casing strings set and cemented in place.
- No aggressive/fresh hard-banded drill pipe shall be used within casing.
- **Cement baskets shall not be run on surface casing.**
- The operator must report all shows of water or water-bearing sands to the BLM. If flowing water is encountered it must be sampled, analyzed, and a copy of the analyses submitted to the BLM Vernal Field Office.
- The operator must report encounters of all non oil & gas mineral resources (such as Gilsonite, tar sands, oil shale, trona, etc.) to the Vernal Field Office, in writing, within 5 working days of each encounter. Each report shall include the well name/number, well location, date and depth (from KB

or GL) of encounter, vertical footage of the encounter and, the name of the person making the report (along with a telephone number) should the BLM need to obtain additional information.

- A complete set of angular deviation and directional surveys of a directional well will be submitted to the Vernal BLM office engineer within 30 days of the completion of the well.
- While actively drilling, chronologic drilling progress reports shall be filed directly with the BLM, Vernal Field Office on a weekly basis in sundry, letter format or e-mail to the Petroleum Engineers until the well is completed.
- A cement bond log (CBL) will be run from the production casing shoe to the top of cement and shall be utilized to determine the bond quality for the production casing. Submit a field copy of the CBL to this office.
- **Please submit an electronic copy of all other logs run on this well in LAS format to [UT\\_VN\\_Welllogs@BLM.gov](mailto:UT_VN_Welllogs@BLM.gov). This submission will supersede the requirement for submittal of paper logs to the BLM.**
- There shall be no deviation from the proposed drilling, completion, and/or workover program as approved. Safe drilling and operating practices must be observed. Any changes in operation must have prior approval from the BLM Vernal Field Office.

#### **OPERATING REQUIREMENT REMINDERS:**

- All wells, whether drilling, producing, suspended, or abandoned, shall be identified in accordance with 43 CFR 3162.6. There shall be a sign or marker with the name of the operator, lease serial number, well number, and surveyed description of the well.
- For information regarding production reporting, contact the Office of Natural Resources Revenue (ONRR) at [www.ONRR.gov](http://www.ONRR.gov).
- Should the well be successfully completed for production, the BLM Vernal Field office must be notified when it is placed in a producing status. Such notification will be by written communication and must be received in this office by not later than the fifth business day following the date on which the well is placed on production. The notification shall provide, as a minimum, the following informational items:
  - Operator name, address, and telephone number.
  - Well name and number.
  - Well location (¼¼, Sec., Twn, Rng, and P.M.).
  - Date well was placed in a producing status (date of first production for which royalty will be paid).
  - The nature of the well's production, (i.e., crude oil, or crude oil and casing head gas, or natural gas and entrained liquid hydrocarbons).
  - The Federal or Indian lease prefix and number on which the well is located; otherwise the non-Federal or non-Indian land category, i.e., State or private.
  - Unit agreement and/or participating area name and number, if applicable.
  - Communitization agreement number, if applicable.
- Any venting or flaring of gas shall be done in accordance with Notice to Lessees (NTL) 4A and needs prior approval from the BLM Vernal Field Office.
- All undesirable events (fires, accidents, blowouts, spills, discharges) as specified in NTL 3A will be reported to the BLM, Vernal Field Office. Major events, as defined in NTL3A, shall be reported verbally within 24 hours, followed by a written report within 15 days. "Other than Major Events" will be reported in writing within 15 days. "Minor Events" will be reported on the Monthly Report of Operations and Production.
- Whether the well is completed as a dry hole or as a producer, "Well Completion and Recompletion Report and Log" (BLM Form 3160-4) shall be submitted not later than 30 days after completion of the well or after completion of operations being performed, in accordance with 43 CFR 3162.4-1. Two copies of all logs run, core descriptions, and all other surveys or data obtained and compiled during the drilling, workover, and/or completion operations, shall be filed on BLM Form 3160-4. Submit with the well completion report a geologic report including, at a minimum, formation tops, and a summary and conclusions. Also include deviation surveys, sample descriptions, strip logs,

core data, drill stem test data, and results of production tests if performed. Samples (cuttings, fluid, and/or gas) shall be submitted only when requested by the BLM, Vernal Field Office.

- All off-lease storage, off-lease measurement, or commingling on-lease or off-lease, shall have prior written approval from the BLM Vernal Field Office.
- Oil and gas meters shall be calibrated in place prior to any deliveries. The BLM Vernal Field Office Petroleum Engineers will be provided with a date and time for the initial meter calibration and all future meter proving schedules. A copy of the meter calibration reports shall be submitted to the BLM Vernal Field Office. All measurement facilities will conform to the API standards for liquid hydrocarbons and the AGA standards for natural gas measurement. All measurement points shall be identified as the point of sale or allocation for royalty purposes.
- A schematic facilities diagram as required by Onshore Oil & Gas Order No. 3 shall be submitted to the BLM Vernal Field Office within 30 days of installation or first production, whichever occurs first. All site security regulations as specified in Onshore Oil & Gas Order No. 3 shall be adhered to. All product lines entering and leaving hydrocarbon storage tanks will be effectively sealed in accordance with Onshore Oil & Gas Order No. 3.
- Any additional construction, reconstruction, or alterations of facilities, including roads, gathering lines, batteries, etc., which will result in the disturbance of new ground, shall require the filing of a suitable plan and need prior approval of the BLM Vernal Field Office. Emergency approval may be obtained orally, but such approval does not waive the written report requirement.
- No location shall be constructed or moved, no well shall be plugged, and no drilling or workover equipment shall be removed from a well to be placed in a suspended status without prior approval of the BLM Vernal Field Office. If operations are to be suspended for more than 30 days, prior approval of the BLM Vernal Field Office shall be obtained and notification given before resumption of operations.
- Pursuant to Onshore Oil & Gas Order No. 7, this is authorization for pit disposal of water produced from this well for a period of 90 days from the date of initial production. A permanent disposal method must be approved by this office and in operation prior to the end of this 90-day period. In order to meet this deadline, an application for the proposed permanent disposal method shall be submitted along with any necessary water analyses, as soon as possible, but no later than 45 days after the date of first production. Any method of disposal which has not been approved prior to the end of the authorized 90-day period will be considered as an Incident of Noncompliance and will be grounds for issuing a shut-in order until an acceptable manner for disposing of said water is provided and approved by this office.
- Unless the plugging is to take place immediately upon receipt of oral approval, the Field Office Petroleum Engineers must be notified at least 24 hours in advance of the plugging of the well, in order that a representative may witness plugging operations. If a well is suspended or abandoned, all pits must be fenced immediately until they are backfilled. The "Subsequent Report of Abandonment" (Form BLM 3160-5) must be submitted within 30 days after the actual plugging of the well bore, showing location of plugs, amount of cement in each, and amount of casing left in hole, and the current status of the surface restoration.

BLM - Vernal Field Office - Notification Form

Operator Newfield Exploration Rig Name/# Ross 26 Submitted By  
Branden Arnold Phone Number 435-401-0223  
Well Name/Number GMBU L-7-8-16  
Qtr/Qtr NW/SE Section 7 Township 9S Range 16E  
Lease Serial Number UTU-74390  
API Number 43-013-50726

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

Date/Time 11/21/11 9:00 AM  PM

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

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

Date/Time 11/21/11 3:00 AM  PM

BOPE

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

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

Remarks \_\_\_\_\_

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ACTION CODE	CURRENT ENTITY NO.	NEW ENTITY NO.	API NUMBER	WELL NAME	WELL LOCATION					SPUD DATE
					QQ	SC	TP	RG	COUNTY	
B	99999	18331	4301350691	STATE 6-4-3-1W	SENW	4	3S	1W	DUCHESNE	11/10/2011
WELL 1 COMMENTS: <i>GR-WS</i> <span style="float: right;">11/30/11</span>										
B	99999	18332	4301350923	LAMB 9-24-3-2	NESE	24	3S	2W	DUCHESNE	11/10/2011
<i>WSMVD</i> <span style="margin-left: 150px;"><i>BHL = NESE</i></span> <span style="float: right;">11/30/11</span>										
B	99999	18333	4301350813	WHITE 7-6-3-1W	SWNE	<i>6</i> <del>7</del>	3S	1W	DUCHESNE	11/18/2011
<i>WSTC</i> <span style="float: right;">11/30/11</span>										
B	99999	17400	4301350681	GMBU J-10-9-16	NWNW	<i>11</i> <del>10</del>	9S	16E	DUCHESNE	11/22/2011
<i>GRRV</i> <span style="margin-left: 150px;"><i>BHL = Sec 10 SENE</i></span> <span style="float: right;">11/30/11</span>										
B	99999	17400	4301350726	GMBU L-7-9-16	NWSE	7	9S	16E	DUCHESNE	11/21/2011
<i>GRRV</i> <span style="margin-left: 150px;"><i>BHL = SENE</i></span> <span style="float: right;">11/30/11</span>										
B	99999	17400	4301350738	GMBU E-8-9-16	SESE	<i>6</i> <del>8</del>	9S	16E	DUCHESNE	11/21/2011
<i>GRRV</i> <span style="margin-left: 150px;"><i>BHL = Sec 8 NWNW</i></span> <span style="float: right;">11/30/11</span>										
B	99999	17400	4301350740	<i>GMBU</i> P-5-9-16	SESE	<i>6</i> <del>8</del>	9S	16E	DUCHESNE	11/21/2011
<i>GRRV</i> <span style="margin-left: 150px;"><i>BHL = Sec 5 NWSW</i></span> <span style="float: right;">11/30/11</span>										
B	99999	17400	4301350731	GMBU F-7-9-16	<i>SENE</i>	<i>12</i> <del>7</del>	9S	<i>15E</i> <del>16E</del>	DUCHESNE	11/25/2011
<i>GRRV</i> <span style="margin-left: 150px;"><i>BHL = R 16E Sec 7 NWNW</i></span>										
B	99999	17400	4301350732	GMBU O-7-9-16	<i>SENE</i>	<i>12</i> <del>7</del>	9S	<i>15E</i> <del>16E</del>	DUCHESNE	11/26/2011

**CONFIDENTIAL**  
**CONFIDENTIAL**  
**CONFIDENTIAL**

*GRRV*

Signature *Angela Curry*  
 Production Clerk

Angela Curry  
 11/20/11

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 NOV 30 2011

DIV. OF OIL, GAS & MINING

*11/30/11* *BHL = R 16E Sec 7 NWSW*

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		FORM 9	
		<b>5. LEASE DESIGNATION AND SERIAL NUMBER:</b> UTU-74390	
<b>SUNDRY NOTICES AND REPORTS ON WELLS</b>		<b>6. IF INDIAN, ALLOTTEE OR TRIBE NAME:</b>	
Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.		<b>7. UNIT or CA AGREEMENT NAME:</b> GMBU (GRRV)	
<b>1. TYPE OF WELL</b> Oil Well		<b>8. WELL NAME and NUMBER:</b> GMBU L-7-9-16	
<b>2. NAME OF OPERATOR:</b> NEWFIELD PRODUCTION COMPANY		<b>9. API NUMBER:</b> 43013507260000	
<b>3. ADDRESS OF OPERATOR:</b> Rt 3 Box 3630 , Myton, UT, 84052	<b>PHONE NUMBER:</b> 435 646-4825 Ext	<b>9. FIELD and POOL or WILDCAT:</b> MONUMENT BUTTE	
<b>4. LOCATION OF WELL</b> <b>FOOTAGES AT SURFACE:</b> 2121 FSL 1898 FEL <b>QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:</b> Qtr/Qtr: NWSE Section: 07 Township: 09.0S Range: 16.0E Meridian: S		<b>COUNTY:</b> DUCHESNE	
		<b>STATE:</b> UTAH	
11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA			
TYPE OF SUBMISSION	TYPE OF ACTION		
<input type="checkbox"/> NOTICE OF INTENT Approximate date work will start:  <input type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion:  <input type="checkbox"/> SPUD REPORT Date of Spud:  <input checked="" type="checkbox"/> DRILLING REPORT Report Date: 3/3/2012	<input type="checkbox"/> ACIDIZE  <input type="checkbox"/> CHANGE TO PREVIOUS PLANS  <input type="checkbox"/> CHANGE WELL STATUS  <input type="checkbox"/> DEEPEN  <input type="checkbox"/> OPERATOR CHANGE  <input checked="" type="checkbox"/> PRODUCTION START OR RESUME  <input type="checkbox"/> REPERFORATE CURRENT FORMATION  <input type="checkbox"/> TUBING REPAIR  <input type="checkbox"/> WATER SHUTOFF  <input type="checkbox"/> WILDCAT WELL DETERMINATION	<input type="checkbox"/> ALTER CASING  <input type="checkbox"/> CHANGE TUBING  <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS  <input type="checkbox"/> FRACTURE TREAT  <input type="checkbox"/> PLUG AND ABANDON  <input type="checkbox"/> RECLAMATION OF WELL SITE  <input type="checkbox"/> SIDETRACK TO REPAIR WELL  <input type="checkbox"/> VENT OR FLARE  <input type="checkbox"/> SI TA STATUS EXTENSION  <input type="checkbox"/> OTHER	<input type="checkbox"/> CASING REPAIR  <input type="checkbox"/> CHANGE WELL NAME  <input type="checkbox"/> CONVERT WELL TYPE  <input type="checkbox"/> NEW CONSTRUCTION  <input type="checkbox"/> PLUG BACK  <input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION  <input type="checkbox"/> TEMPORARY ABANDON  <input type="checkbox"/> WATER DISPOSAL  <input type="checkbox"/> APD EXTENSION  OTHER: <input style="width: 100px;" type="text"/>
12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.			
The above well was placed on production on 02/08/2012 at 18:00 hours, and was placed on pump on 03/03/2012 at 15:00 hours.			
<b>Accepted by the Utah Division of Oil, Gas and Mining FOR RECORD ONLY May 08, 2012</b>			
<b>NAME (PLEASE PRINT)</b> Jennifer Peatross	<b>PHONE NUMBER</b> 435 646-4885	<b>TITLE</b> Production Technician	
<b>SIGNATURE</b> N/A		<b>DATE</b> 4/16/2012	

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

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

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

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

2. Name of Operator  
NEWFIELD EXPLORATION COMPANY

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

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

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

At surface 2121' FSL & 1898' FEL (NW/SE) SEC. 7, T9S, R16E (UTU-74390)

At top prod. interval reported below 2550' FSL & 1336' FEL (NW/SE) SEC. 7, T9S, R16E (UTU-74390)

At total depth <sup>2434</sup> 2420' FNL & 982' FEL (SE/NE) SEC. 7, T9S, R16E (UTU-74390) *BHL by HSM*

14. Date Spudded  
11/22/2011

15. Date T.D. Reached  
01/26/2012

16. Date Completed 02/08/2012  
 D & A  Ready to Prod.

17. Elevations (DF, RKB, RT, GL)\*  
5854' GL 5864' KB

18. Total Depth: MD 6500'  
TVD 6379'

19. Plug Back T.D.: MD 6471'  
TVD 6321'

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

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

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

Hole Size	Size/Grade	Wt. (#/ft.)	Top (MD)	Bottom (MD)	Stage Cementer Depth	No. of Sk. & Type of Cement	Slurry Vol. (BBL)	Cement Top*	Amount Pulled
12-1/4"	8-5/8" J-55	24#	0	419'		205 CLASS "G"			
7-7/8"	5-1/2" J-55	15.5#	0	6495'		240 PRIMLITE		286'	
						480 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@ 5839'	TA @ 5710'						

25. Producing Intervals

Formation	Top	Bottom	Perforated Interval	Size	No. Holes	Perf. Status
A) Green River	4246'	5754'	4246-5754'	.34"	69	
B)						
C)						
D)						

26. Perforation Record

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

Depth Interval	Amount and Type of Material
4246-5754'	Frac w/ 281922# 20/40 white sand and 1299 bbls 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
3/3/12	3/13/12	24	→	31	52	74			2-1/2" x 1-3/4" x 20' x 21' x 24' RHBC Pump
Choke Size	Tbg. Press. Flwg.	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas/Oil Ratio	Well Status	
	SI		→					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.	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas/Oil Ratio	Well Status	
	SI		→						

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

28b. Production - Interval C

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

28c. Production - Interval D

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

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

SOLD AND 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	4246'	5754'		GARDEN GULCH MARKER	3714'
				GARDEN GULCH 1	3942'
				GARDEN GULCH 2	4050'
				POINT 3 MARKER	4311'
				X MRKR	4593'
				Y MRKR	4628'
				DOUGLAS CREEK MRKR	4742'
				BI-CARBONATE	4987'
				B LIMESTONE	5098'
				CASTLE PEAK	5645'
				BASAL CARBONATE	6115'
				WASATCH	6244'

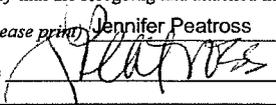
32. Additional remarks (include plugging procedure):

The above well was placed on production on 2/8/2012, but was shut in while flowline was completed. Surface equipment was completed and the pumping unit was activated on 3/3/2012 and test data was taken ten days following, on 3/13/2012.

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

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

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

Name (please print) Jennifer Peatross Title Production Technician  
 Signature  Date 04/17/2012

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

**NEWFIELD**



# **NEWFIELD EXPLORATION**

**USGS Myton SW (UT)**

**SECTION 7 T9, R16**

**L-7-9-16**

**Wellbore #1**

**Design: Actual**

## **Standard Survey Report**

**01 February, 2012**





# Payzone Directional Survey Report



**Company:** NEWFIELD EXPLORATION  
**Project:** USGS Myton SW (UT)  
**Site:** SECTION 7 T9, R16  
**Well:** L-7-9-16  
**Wellbore:** Wellbore #1  
**Design:** Actual

**Local Co-ordinate Reference:** Well L-7-9-16  
**TVD Reference:** L-7-9-16 @ 5864.0ft (NDSI SS #1)  
**MD Reference:** L-7-9-16 @ 5864.0ft (NDSI SS #1)  
**North Reference:** True  
**Survey Calculation Method:** Minimum Curvature  
**Database:** EDM 2003.21 Single User Db

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

<b>Site</b>	SECTION 7 T9, R16, SEC 7 T9S, R16E				
<b>Site Position:</b>		<b>Northing:</b>	7,187,175.05ft	<b>Latitude:</b>	40° 2' 35.000 N
<b>From:</b>	Lat/Long	<b>Easting:</b>	2,012,750.39ft	<b>Longitude:</b>	110° 10' 12.000 W
<b>Position Uncertainty:</b>	0.0 ft	<b>Slot Radius:</b>	"	<b>Grid Convergence:</b>	0.85 °

<b>Well</b>	L-7-9-16, SHL LAT: 40 02 38.34 LONG: -110 09 33.98					
<b>Well Position</b>	<b>+N-S</b>	0.0 ft	<b>Northing:</b>	7,187,557.08 ft	<b>Latitude:</b>	40° 2' 38.340 N
	<b>+E-W</b>	0.0 ft	<b>Easting:</b>	2,015,701.69 ft	<b>Longitude:</b>	110° 9' 33.980 W
<b>Position Uncertainty</b>		0.0 ft	<b>Wellhead Elevation:</b>	5,864.0 ft	<b>Ground Level:</b>	5,854.0 ft

<b>Wellbore</b>	Wellbore #1				
<b>Magnetics</b>	<b>Model Name</b>	<b>Sample Date</b>	<b>Declination (°)</b>	<b>Dip Angle (°)</b>	<b>Field Strength (nT)</b>
	IGRF2010	1/18/2011	11.40	65.79	52,293

<b>Design</b>	Actual				
<b>Audit Notes:</b>					
<b>Version:</b>	1.0	<b>Phase:</b>	ACTUAL	<b>Tie On Depth:</b>	0.0
<b>Vertical Section:</b>		<b>Depth From (TVD) (ft)</b>	<b>+N-S (ft)</b>	<b>+E-W (ft)</b>	<b>Direction (°)</b>
		0.0	0.0	0.0	52.53

<b>Survey Program</b>	Date 2/1/2012				
<b>From (ft)</b>	<b>To (ft)</b>	<b>Survey (Wellbore)</b>	<b>Tool Name</b>	<b>Description</b>	
437.0	6,500.0	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
437.0	0.60	125.00	437.0	-1.3	1.9	0.7	0.14	0.14	0.00
468.0	0.60	116.40	468.0	-1.5	2.2	0.8	0.29	0.00	-27.74
498.0	0.80	86.60	498.0	-1.5	2.5	1.1	1.36	0.67	-99.33
529.0	1.30	62.80	529.0	-1.4	3.0	1.6	2.11	1.61	-76.77
560.0	1.80	54.00	560.0	-0.9	3.7	2.4	1.78	1.61	-28.39
590.0	2.30	49.50	590.0	-0.2	4.6	3.5	1.75	1.67	-15.00
621.0	2.80	46.70	620.9	0.7	5.6	4.9	1.66	1.61	-9.03
652.0	3.30	50.50	651.9	1.8	6.8	6.5	1.74	1.61	12.26
682.0	4.00	56.20	681.8	2.9	8.4	8.4	2.63	2.33	19.00
713.0	4.50	57.40	712.7	4.2	10.3	10.7	1.64	1.61	3.87
743.0	5.00	60.30	742.6	5.4	12.4	13.2	1.85	1.67	9.67
774.0	5.50	61.50	773.5	6.8	14.9	16.0	1.85	1.61	3.87



**Payzone Directional**

Survey Report



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**Well:** L-7-9-16  
**Wellbore:** Wellbore #1  
**Design:** Actual

**Local Co-ordinate Reference:** Well L-7-9-16  
**TVD Reference:** L-7-9-16 @ 5864.0ft (NDSI SS #1)  
**MD Reference:** L-7-9-16 @ 5864.0ft (NDSI SS #1)  
**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)
805.0	6.20	61.70	804.3	8.3	17.7	19.1	2.26	2.26	0.65
835.0	6.80	60.80	834.1	9.9	20.7	22.5	2.03	2.00	-3.00
879.0	7.80	60.30	877.8	12.7	25.5	28.0	2.28	2.27	-1.14
923.0	8.80	58.80	921.3	15.9	31.0	34.3	2.33	2.27	-3.41
967.0	9.40	58.40	964.8	19.5	36.9	41.2	1.37	1.36	-0.91
1,011.0	9.80	55.10	1,008.2	23.6	43.1	48.5	1.55	0.91	-7.50
1,055.0	10.00	52.00	1,051.5	28.1	49.2	56.1	1.29	0.45	-7.05
1,099.0	10.80	52.80	1,094.8	32.9	55.4	64.0	1.85	1.82	1.82
1,143.0	11.30	52.60	1,138.0	38.0	62.2	72.5	1.14	1.14	-0.45
1,187.0	11.20	50.80	1,181.1	43.3	68.9	81.0	0.83	-0.23	-4.09
1,231.0	11.30	50.00	1,224.3	48.8	75.5	89.6	0.42	0.23	-1.82
1,275.0	11.90	49.50	1,267.4	54.5	82.3	98.5	1.38	1.36	-1.14
1,319.0	12.00	49.50	1,310.4	60.4	89.2	107.6	0.23	0.23	0.00
1,363.0	12.30	49.50	1,353.4	66.5	96.2	116.8	0.68	0.68	0.00
1,407.0	11.90	48.80	1,396.5	72.5	103.2	126.0	0.97	-0.91	-1.59
1,451.0	11.70	49.00	1,439.5	78.4	110.0	135.0	0.46	-0.45	0.45
1,495.0	12.30	51.40	1,482.6	84.3	117.0	144.1	1.77	1.36	5.45
1,539.0	11.90	51.00	1,525.6	90.0	124.2	153.4	0.93	-0.91	-0.91
1,583.0	11.50	49.80	1,568.7	95.7	131.1	162.3	1.06	-0.91	-2.73
1,627.0	10.90	48.80	1,611.8	101.3	137.6	170.8	1.43	-1.36	-2.27
1,671.0	10.60	49.80	1,655.1	106.6	143.8	179.0	0.80	-0.68	2.27
1,715.0	11.00	50.80	1,698.3	111.9	150.1	187.2	1.00	0.91	2.27
1,759.0	10.50	52.70	1,741.5	117.0	156.6	195.4	1.39	-1.14	4.32
1,803.0	10.20	55.90	1,784.8	121.6	163.0	203.3	1.47	-0.68	7.27
1,847.0	9.80	55.00	1,828.1	125.9	169.3	211.0	0.98	-0.91	-2.05
1,891.0	9.60	55.80	1,871.5	130.2	175.4	218.4	0.55	-0.45	1.82
1,935.0	9.60	56.30	1,914.9	134.3	181.5	225.7	0.19	0.00	1.14
1,979.0	9.80	56.50	1,958.3	138.4	187.6	233.1	0.46	0.45	0.45
2,023.0	9.90	50.60	2,001.6	142.8	193.7	240.6	2.30	0.23	-13.41
2,067.0	10.60	48.40	2,044.9	147.9	199.6	248.4	1.82	1.59	-5.00
2,111.0	11.50	48.30	2,088.1	153.5	205.9	256.8	2.05	2.05	-0.23
2,155.0	11.70	49.10	2,131.2	159.4	212.6	265.7	0.58	0.45	1.82
2,199.0	12.30	50.10	2,174.2	165.3	219.5	274.8	1.44	1.36	2.27
2,243.0	12.30	52.20	2,217.2	171.2	226.8	284.2	1.02	0.00	4.77
2,287.0	12.30	53.90	2,260.2	176.8	234.3	293.5	0.82	0.00	3.86
2,331.0	12.60	52.20	2,303.2	182.5	241.9	303.0	1.08	0.68	-3.86
2,375.0	12.60	53.80	2,346.1	188.3	249.6	312.6	0.79	0.00	3.64
2,420.0	12.90	55.90	2,390.0	194.0	257.7	322.5	1.23	0.67	4.67
2,464.0	12.80	56.50	2,432.9	199.4	265.8	332.3	0.38	-0.23	1.36
2,508.0	12.30	56.60	2,475.8	204.7	273.8	341.8	1.14	-1.14	0.23
2,552.0	12.10	57.60	2,518.9	209.8	281.6	351.1	0.66	-0.45	2.27
2,596.0	12.30	57.00	2,561.9	214.8	289.4	360.4	0.54	0.45	-1.36
2,640.0	12.50	56.90	2,604.8	219.9	297.4	369.8	0.46	0.45	-0.23
2,683.0	12.30	58.10	2,646.8	224.9	305.1	379.0	0.76	-0.47	2.79
2,727.0	12.10	56.70	2,689.8	229.9	313.0	388.3	0.81	-0.45	-3.18
2,771.0	12.90	55.90	2,732.8	235.2	320.9	397.8	1.86	1.82	-1.82
2,815.0	13.30	52.90	2,775.6	241.0	329.0	407.7	1.79	0.91	-6.82
2,859.0	13.30	53.00	2,818.5	247.1	337.1	417.8	0.05	0.00	0.23
2,903.0	13.80	52.70	2,861.2	253.3	345.3	428.2	1.15	1.14	-0.68
2,947.0	12.90	52.10	2,904.1	259.5	353.4	438.3	2.07	-2.05	-1.36
2,991.0	12.10	51.00	2,947.0	265.4	360.8	447.8	1.90	-1.82	-2.50
3,035.0	12.10	51.10	2,990.0	271.2	368.0	457.1	0.05	0.00	0.23
3,079.0	10.70	50.40	3,033.2	276.7	374.7	465.8	3.20	-3.18	-1.59
3,123.0	10.40	50.60	3,076.4	281.9	380.9	473.8	0.69	-0.68	0.45



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Local Co-ordinate Reference: Well L-7-9-16  
 TVD Reference: L-7-9-16 @ 5864.0ft (NDSI SS #1)  
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 Survey Calculation Method: Minimum Curvature  
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Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	
3,167.0	10.90	51.00	3,119.7	287.0	387.2	481.9	1.15	1.14	0.91	
3,211.0	11.60	50.90	3,162.8	292.4	393.9	490.5	1.59	1.59	-0.23	
3,255.0	11.50	50.40	3,205.9	298.0	400.7	499.3	0.32	-0.23	-1.14	
3,299.0	11.40	50.90	3,249.1	303.5	407.5	508.0	0.32	-0.23	1.14	
3,343.0	11.80	50.60	3,292.2	309.1	414.3	516.9	0.92	0.91	-0.68	
3,387.0	12.40	50.60	3,335.2	315.0	421.5	526.1	1.36	1.36	0.00	
3,431.0	12.40	50.90	3,378.1	321.0	428.8	535.6	0.15	0.00	0.68	
3,475.0	11.90	49.90	3,421.2	326.9	435.9	544.8	1.23	-1.14	-2.27	
3,519.0	12.30	49.30	3,464.2	332.8	442.9	554.0	0.95	0.91	-1.36	
3,563.0	12.80	49.30	3,507.1	339.1	450.2	563.6	1.14	1.14	0.00	
3,607.0	12.50	50.10	3,550.1	345.3	457.5	573.2	0.79	-0.68	1.82	
3,651.0	11.70	50.40	3,593.1	351.2	464.6	582.4	1.82	-1.82	0.68	
3,695.0	11.30	49.50	3,636.2	356.8	471.3	591.2	1.00	-0.91	-2.05	
3,739.0	11.50	50.10	3,679.3	362.5	478.0	599.9	0.53	0.45	1.36	
3,783.0	11.40	50.20	3,722.5	368.1	484.7	608.6	0.23	-0.23	0.23	
3,827.0	10.90	50.30	3,765.6	373.5	491.2	617.1	1.14	-1.14	0.23	
3,871.0	11.10	50.50	3,808.8	378.8	497.7	625.5	0.46	0.45	0.45	
3,915.0	10.80	49.00	3,852.0	384.2	504.1	633.8	0.94	-0.68	-3.41	
3,959.0	11.20	48.50	3,895.2	389.8	510.4	642.2	0.93	0.91	-1.14	
4,003.0	11.60	49.30	3,938.3	395.5	516.9	650.9	0.98	0.91	1.82	
4,047.0	12.20	50.80	3,981.4	401.3	523.9	659.9	1.53	1.36	3.41	
4,091.0	12.50	51.80	4,024.4	407.2	531.2	669.3	0.84	0.68	2.27	
4,135.0	12.50	53.40	4,067.3	413.0	538.8	678.9	0.79	0.00	3.64	
4,179.0	12.30	54.50	4,110.3	418.5	546.4	688.3	0.70	-0.45	2.50	
4,223.0	11.90	55.30	4,153.3	423.9	554.0	697.5	0.99	-0.91	1.82	
4,267.0	12.10	56.00	4,196.4	429.0	561.5	706.7	0.56	0.45	1.59	
4,311.0	11.80	55.50	4,239.4	434.1	569.1	715.8	0.72	-0.68	-1.14	
4,355.0	11.50	55.40	4,282.5	439.2	576.4	724.6	0.68	-0.68	-0.23	
4,399.0	11.60	53.50	4,325.6	444.3	583.6	733.4	0.89	0.23	-4.32	
4,443.0	11.70	52.30	4,368.7	449.7	590.6	742.3	0.60	0.23	-2.73	
4,487.0	12.20	52.90	4,411.8	455.2	597.9	751.4	1.17	1.14	1.36	
4,531.0	12.90	51.00	4,454.7	461.1	605.4	761.0	1.85	1.59	-4.32	
4,575.0	12.90	51.10	4,497.6	467.3	613.0	770.8	0.05	0.00	0.23	
4,619.0	12.80	50.80	4,540.5	473.4	620.6	780.6	0.27	-0.23	-0.68	
4,663.0	12.70	51.70	4,583.4	479.5	628.2	790.3	0.51	-0.23	2.05	
4,707.0	12.70	51.50	4,626.3	485.5	635.8	800.0	0.10	0.00	-0.45	
4,751.0	12.80	50.90	4,669.3	491.6	643.4	809.7	0.38	0.23	-1.36	
4,795.0	13.10	51.40	4,712.1	497.8	651.0	819.5	0.73	0.68	1.14	
4,839.0	13.00	51.80	4,755.0	504.0	658.8	829.5	0.31	-0.23	0.91	
4,883.0	12.50	52.00	4,797.9	509.9	666.5	839.2	1.14	-1.14	0.45	
4,927.0	12.20	52.30	4,840.9	515.7	673.9	848.6	0.70	-0.68	0.68	
4,971.0	11.70	52.40	4,883.9	521.3	681.1	857.7	1.14	-1.14	0.23	
5,015.0	11.30	54.10	4,927.1	526.5	688.1	866.5	1.19	-0.91	3.86	
5,059.0	11.40	55.00	4,970.2	531.6	695.2	875.1	0.46	0.23	2.05	
5,089.7	11.26	56.04	5,000.3	535.0	700.2	881.1	0.81	-0.46	3.39	
<b>L-7-9-16 TGT</b>										
5,103.0	11.20	56.50	5,013.3	536.4	702.3	883.7	0.81	-0.45	3.45	
5,147.0	10.80	57.30	5,056.5	541.0	709.4	892.1	0.97	-0.91	1.82	
5,191.0	11.30	55.00	5,099.7	545.7	716.4	900.5	1.51	1.14	-5.23	
5,235.0	11.20	53.70	5,142.9	550.7	723.3	909.1	0.62	-0.23	-2.95	
5,279.0	11.10	53.10	5,186.0	555.8	730.2	917.6	0.35	-0.23	-1.36	
5,323.0	11.50	51.10	5,229.2	561.1	737.0	926.2	1.27	0.91	-4.55	
5,367.0	12.10	49.60	5,272.3	566.8	743.9	935.2	1.53	1.36	-3.41	
5,411.0	12.60	47.90	5,315.2	573.0	751.0	944.6	1.40	1.14	-3.86	



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**Well:** L-7-9-16  
**Wellbore:** Wellbore #1  
**Design:** Actual

**Local Co-ordinate Reference:** Well L-7-9-16  
**TVD Reference:** L-7-9-16 @ 5864.0ft (NDSI SS #1)  
**MD Reference:** L-7-9-16 @ 5864.0ft (NDSI SS #1)  
**North Reference:** True  
**Survey Calculation Method:** Minimum Curvature  
**Database:** EDM 2003.21 Single User Db

## Survey

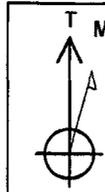
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
5,455.0	12.50	46.10	5,358.2	579.5	757.9	954.1	0.92	-0.23	-4.09
5,499.0	12.70	42.30	5,401.1	586.4	764.6	963.6	1.94	0.45	-8.64
5,543.0	12.90	41.00	5,444.0	593.7	771.1	973.2	0.80	0.45	-2.95
5,587.0	12.30	40.60	5,487.0	601.0	777.4	982.6	1.38	-1.36	-0.91
5,631.0	11.80	39.20	5,530.0	608.0	783.3	991.5	1.32	-1.14	-3.18
5,675.0	12.60	39.60	5,573.0	615.2	789.2	1,000.6	1.83	1.82	0.91
5,719.0	13.30	40.30	5,615.9	622.8	795.5	1,010.2	1.63	1.59	1.59
5,763.0	13.60	43.00	5,658.7	630.4	802.3	1,020.3	1.58	0.68	6.14
5,807.0	14.00	45.60	5,701.4	637.9	809.6	1,030.7	1.68	0.91	5.91
5,851.0	14.00	47.50	5,744.1	645.2	817.4	1,041.2	1.04	0.00	4.32
5,895.0	13.80	48.10	5,786.8	652.3	825.2	1,051.8	0.56	-0.45	1.36
5,939.0	14.00	48.30	5,829.5	659.4	833.1	1,062.3	0.47	0.45	0.45
5,983.0	14.40	48.40	5,872.2	666.5	841.1	1,073.1	0.91	0.91	0.23
6,027.0	14.00	49.90	5,914.8	673.6	849.3	1,083.9	1.24	-0.91	3.41
6,071.0	13.20	50.10	5,957.6	680.3	857.2	1,094.2	1.82	-1.82	0.45
6,115.0	12.30	50.80	6,000.5	686.4	864.7	1,103.9	2.08	-2.05	1.59
6,159.0	12.00	50.20	6,043.5	692.3	871.9	1,113.2	0.74	-0.68	-1.36
6,203.0	11.90	49.50	6,086.6	698.2	878.8	1,122.3	0.40	-0.23	-1.59
6,247.0	10.30	47.70	6,129.8	703.8	885.2	1,130.7	3.72	-3.64	-4.09
6,291.0	9.40	47.30	6,173.1	708.9	890.7	1,138.2	2.05	-2.05	-0.91
6,335.0	9.90	47.10	6,216.5	713.9	896.2	1,145.5	1.14	1.14	-0.45
6,379.0	10.20	46.90	6,259.8	719.1	901.8	1,153.2	0.69	0.68	-0.45
6,423.0	9.80	46.70	6,303.1	724.4	907.3	1,160.8	0.91	-0.91	-0.45
6,446.0	9.10	46.20	6,325.8	727.0	910.1	1,164.5	3.06	-3.04	-2.17
6,500.0	8.60	46.20	6,379.2	732.7	916.1	1,172.8	0.93	-0.93	0.00

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

# NEWFIELD

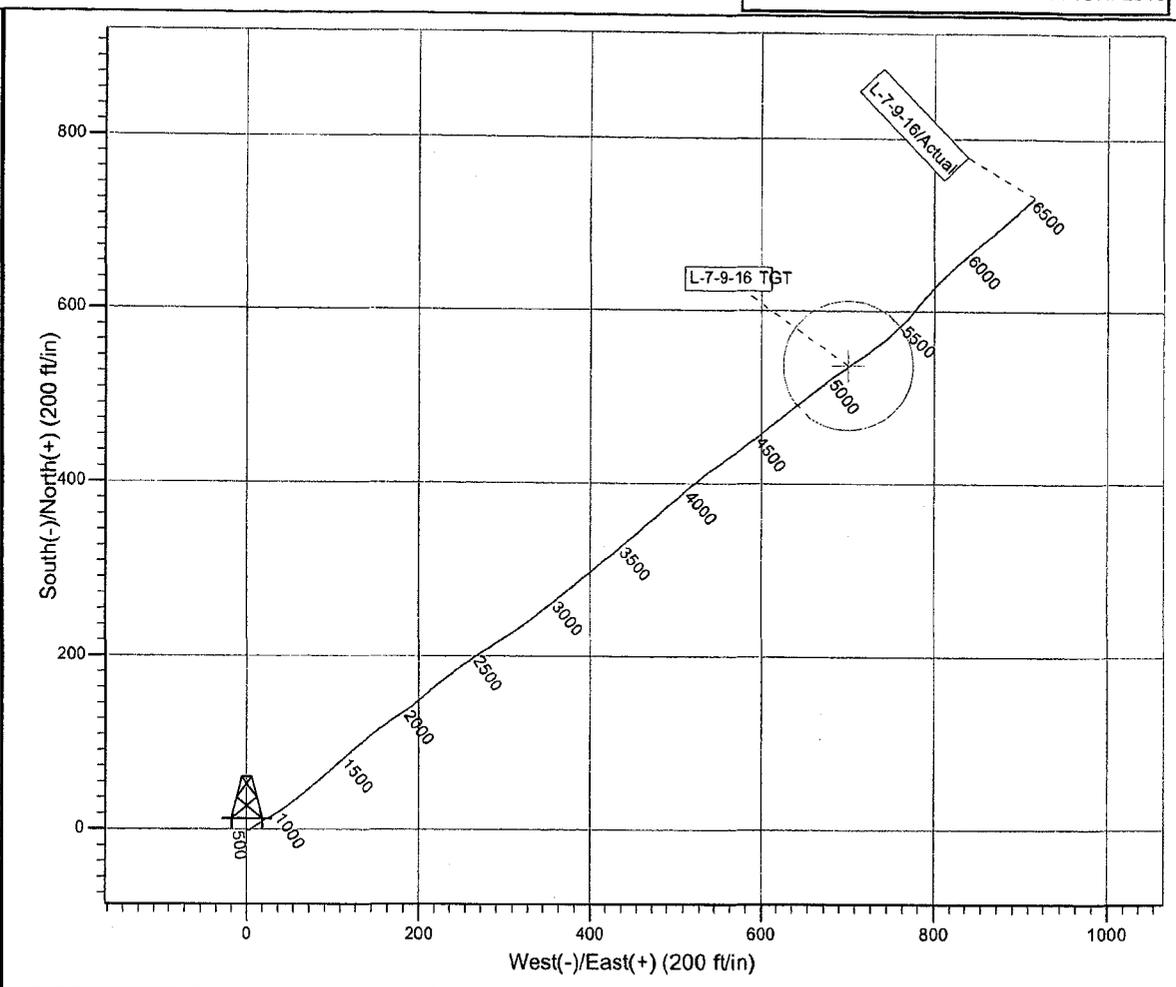
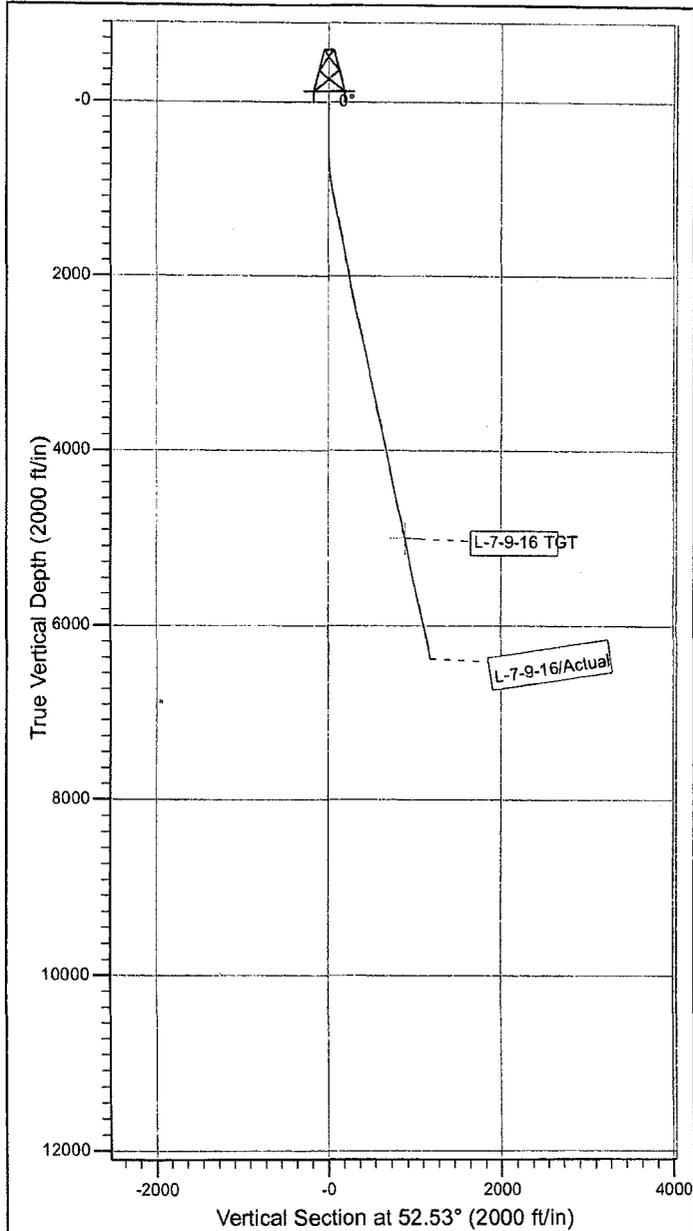


Project: USGS Myton SW (UT)  
 Site: SECTION 7 T9, R16  
 Well: L-7-9-16  
 Wellbore: Wellbore #1  
 Design: Actual



Azimuths to True North  
 Magnetic North: 11.40°

Magnetic Field  
 Strength: 52293.3snT  
 Dip Angle: 65.79°  
 Date: 1/18/2011  
 Model: IGRF2010



Design: Actual (L-7-9-16/Wellbore #1)

Created By: Sarah Webb

Date:

18:08, February 01 2012

THIS SURVEY IS CORRECT TO THE BEST OF  
 MY KNOWLEDGE AND IS SUPPORTED  
 BY ACTUAL FIELD DATA