

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 J-18-9-16				
<b>2. TYPE OF WORK</b> DRILL NEW WELL <input checked="" type="checkbox"/> REENTER P&A WELL <input type="checkbox"/> DEEPEN WELL <input type="checkbox"/>						<b>3. FIELD OR WILDCAT</b> MONUMENT BUTTE				
<b>4. TYPE OF WELL</b> Oil Well      Coalbed Methane Well: NO						<b>5. UNIT or COMMUNITIZATION AGREEMENT NAME</b> GMBU (GRRV)				
<b>6. NAME OF OPERATOR</b> NEWFIELD PRODUCTION COMPANY						<b>7. OPERATOR PHONE</b> 435 646-4825				
<b>8. ADDRESS OF OPERATOR</b> Rt 3 Box 3630 , Myton, UT, 84052						<b>9. OPERATOR E-MAIL</b> mcrozier@newfield.com				
<b>10. MINERAL LEASE NUMBER (FEDERAL, INDIAN, OR STATE)</b> UTU-74390			<b>11. MINERAL OWNERSHIP</b> FEDERAL <input checked="" type="checkbox"/> INDIAN <input type="checkbox"/> STATE <input type="checkbox"/> FEE <input type="checkbox"/>			<b>12. SURFACE OWNERSHIP</b> FEDERAL <input checked="" type="checkbox"/> INDIAN <input type="checkbox"/> STATE <input type="checkbox"/> FEE <input type="checkbox"/>				
<b>13. NAME OF SURFACE OWNER (if box 12 = 'fee')</b>						<b>14. SURFACE OWNER PHONE (if box 12 = 'fee')</b>				
<b>15. ADDRESS OF SURFACE OWNER (if box 12 = 'fee')</b>						<b>16. SURFACE OWNER E-MAIL (if box 12 = 'fee')</b>				
<b>17. INDIAN ALLOTTEE OR TRIBE NAME (if box 12 = 'INDIAN')</b>			<b>18. INTEND TO COMMINGLE PRODUCTION FROM MULTIPLE FORMATIONS</b> YES <input type="checkbox"/> (Submit Commingling Application) NO <input checked="" type="checkbox"/>			<b>19. SLANT</b> VERTICAL <input type="checkbox"/> DIRECTIONAL <input checked="" type="checkbox"/> HORIZONTAL <input type="checkbox"/>				
<b>20. LOCATION OF WELL</b>		<b>FOOTAGES</b>		<b>QTR-QTR</b>	<b>SECTION</b>	<b>TOWNSHIP</b>	<b>RANGE</b>	<b>MERIDIAN</b>		
LOCATION AT SURFACE		1876 FNL 858 FWL		SWNW	17	9.0 S	16.0 E	S		
Top of Uppermost Producing Zone		1480 FNL 356 FWL		SWNW	17	9.0 S	16.0 E	S		
At Total Depth		1055 FNL 155 FEL		NENE	18	9.0 S	16.0 E	S		
<b>21. COUNTY</b> DUCHESNE			<b>22. DISTANCE TO NEAREST LEASE LINE (Feet)</b> 1585			<b>23. NUMBER OF ACRES IN DRILLING UNIT</b> 20				
<b>27. ELEVATION - GROUND LEVEL</b> 5985			<b>25. DISTANCE TO NEAREST WELL IN SAME POOL (Applied For Drilling or Completed)</b> 827			<b>26. PROPOSED DEPTH</b> MD: 6441 TVD: 6285				
<b>28. BOND NUMBER</b> WYB000493			<b>29. SOURCE OF DRILLING WATER / WATER RIGHTS APPROVAL NUMBER IF APPLICABLE</b> 437478							
<b>Hole, Casing, and Cement Information</b>										
<b>String</b>	<b>Hole Size</b>	<b>Casing Size</b>	<b>Length</b>	<b>Weight</b>	<b>Grade &amp; Thread</b>	<b>Max Mud Wt.</b>	<b>Cement</b>	<b>Sacks</b>	<b>Yield</b>	<b>Weight</b>
Surf	12.25	8.625	0 - 300	24.0	J-55 ST&C	8.3	Class G	138	1.17	15.8
Prod	7.875	5.5	0 - 6441	15.5	J-55 LT&C	8.3	Premium Lite High Strength	307	3.26	11.0
							50/50 Poz	363	1.24	14.3
<b>ATTACHMENTS</b>										
<b>VERIFY THE FOLLOWING ARE ATTACHED IN ACCORDANCE WITH THE UTAH OIL AND GAS CONSERVATION GENERAL RULES</b>										
<input checked="" type="checkbox"/> WELL PLAT OR MAP PREPARED BY LICENSED SURVEYOR OR ENGINEER					<input checked="" type="checkbox"/> COMPLETE DRILLING PLAN					
<input type="checkbox"/> AFFIDAVIT OF STATUS OF SURFACE OWNER AGREEMENT (IF FEE SURFACE)					<input type="checkbox"/> FORM 5. IF OPERATOR IS OTHER THAN THE LEASE OWNER					
<input checked="" type="checkbox"/> DIRECTIONAL SURVEY PLAN (IF DIRECTIONALLY OR HORIZONTALLY DRILLED)					<input checked="" type="checkbox"/> TOPOGRAPHICAL MAP					
<b>NAME</b> Mandie Crozier				<b>TITLE</b> Regulatory Tech			<b>PHONE</b> 435 646-4825			
<b>SIGNATURE</b>				<b>DATE</b> 01/10/2012			<b>EMAIL</b> mcrozier@newfield.com			
<b>API NUMBER ASSIGNED</b> 43013511690000				<b>APPROVAL</b>  Permit Manager						

NEWFIELD PRODUCTION COMPANY  
GMBU J-18-9-16  
AT SURFACE: SW/NW SECTION 17, 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' – 1595'
Green River	1595'
Wasatch	6135'
<b>Proposed TD</b>	<b>6441'</b>

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

Green River Formation (Oil)	1595' – 6135'
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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 J-18-9-16**

Size	Interval		Weight	Grade	Coupling	Design Factors		
	Top	Bottom				Burst	Collapse	Tension
Surface casing 8-5/8"	0'	300'	24.0	J-55	STC	2,950 17.53	1,370 14.35	244,000 33.89
Prod casing 5-1/2"	0'	6,441'	15.5	J-55	LTC	4,810 2.35	4,040 1.97	217,000 2.17

## 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 J-18-9-16**

Job	Fill	Description	Sacks	OH Excess*	Weight (ppg)	Yield (ft <sup>3</sup> /sk)
			ft <sup>3</sup>			
Surface casing	300'	Class G w/ 2% CaCl	138	30%	15.8	1.17
			161			
Prod casing Lead	4,441'	Prem Lite II w/ 10% gel + 3% KCl	307	30%	11.0	3.26
			1000			
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  $\pm 300$  feet will be drilled with an air/mist system. The air rig is equipped with a 6 1/2" blooie line that is straight run and securely anchored. The blooie line is used with a discharge less than 100 ft from the wellbore in order to minimize the well pad size. The blooie line is not equipped with an automatic igniter or continuous pilot light and the compressor is located less than 100 ft from the well bore due to the low possibility of combustion with the air dust mixture. The trailer mounted compressor (capacity of 2000 CFM) has a safety shut-off valve which is located 15 feet from the air rig. A truck with 70 bbls of water is on stand by to be used as kill fluid, if necessary. From about  $\pm 300$  feet to TD, a fresh water system will be utilized. Clay inhibition and hole stability will be achieved with a KCl substitute additive. This additive will be identified in the APD and reviewed to determine if the reserve pit shall be lined. This fresh water system will typically contain Total Dissolved Solids (TDS) of less than 3000 PPM. Anticipated mud weight is 8.4 lbs/gal. If necessary to control formation fluids or pressure, the system will be weighted with the addition of bentonite gel, and if pressure conditions warrant, with barite

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

No chemicals subject to reporting under SARA Title III in an amount equal to or greater than 10,000 pounds will be used, produced, stored, transported, or disposed of annually in association with the drilling, testing, or completing of this well. Furthermore, no extremely hazardous substances, as defined in 40 CFR 355, in threshold planning quantities, will be used, produced, stored, transported, or disposed of in association with the drilling, testing, or completing of this well.

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

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

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

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

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

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

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

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

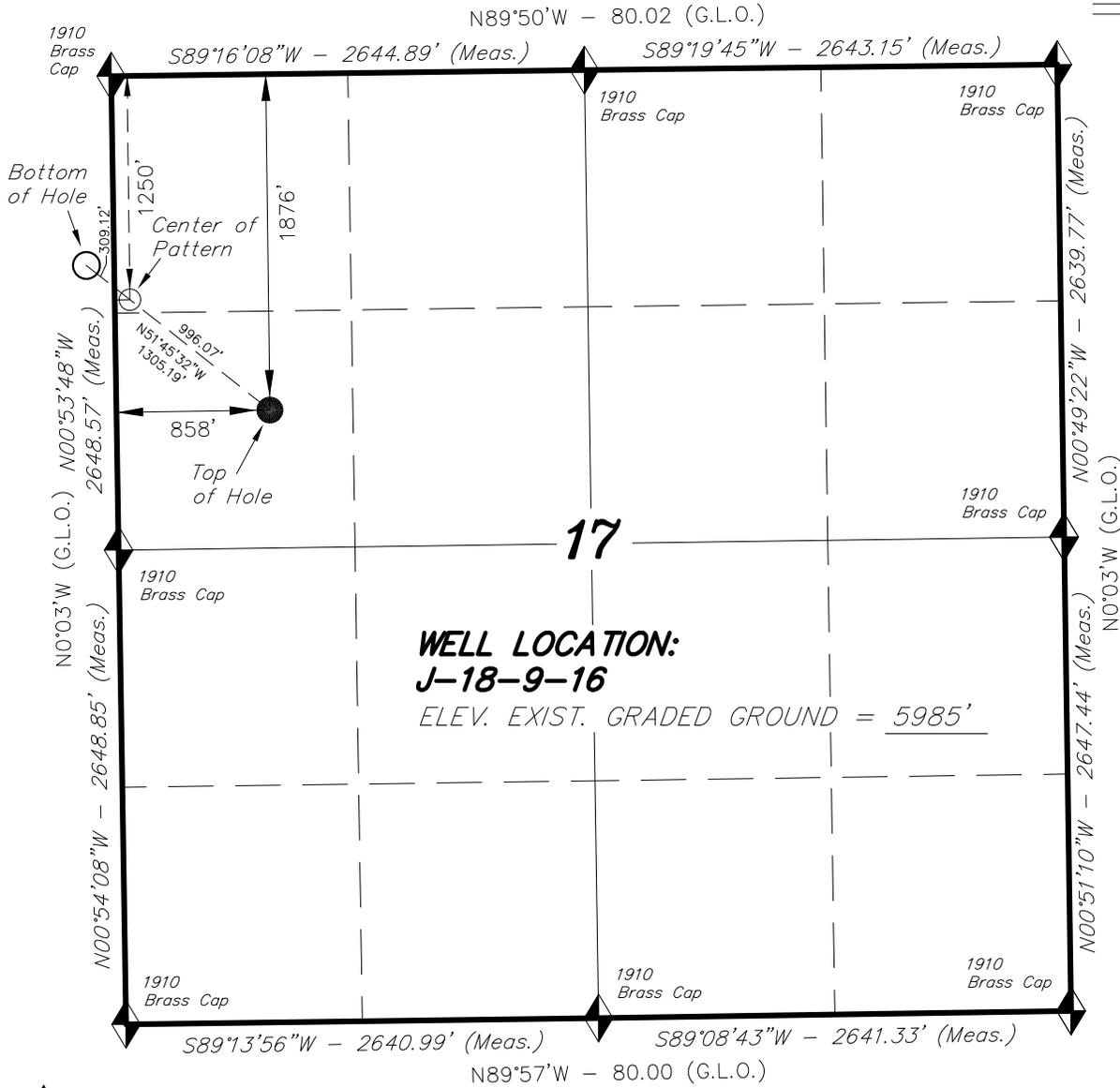
bottomhole pressure will approximately equal total depth in feet multiplied by a 0.433 psi/foot gradient.

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

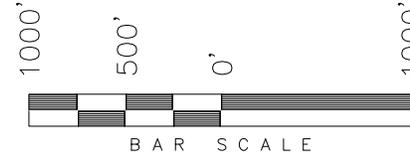
It is anticipated that the drilling operations will commence the second quarter of 2012, and take approximately seven (7) days from spud to rig release.

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

## NEWFIELD EXPLORATION COMPANY



WELL LOCATION, J-18-9-16, LOCATED AS SHOWN IN THE SW 1/4 NW 1/4 OF SECTION 17, 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.
3. The Center of Pattern footages are 1250' FNL & 85' FWL.



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

REGISTERED LAND SURVEYOR  
 11-04-11  
 STACY W. STEWART  
 REGISTERED LAND SURVEYOR  
 REGISTRATION No. 189377  
 STATE OF UTAH

◆ = SECTION CORNERS LOCATED

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

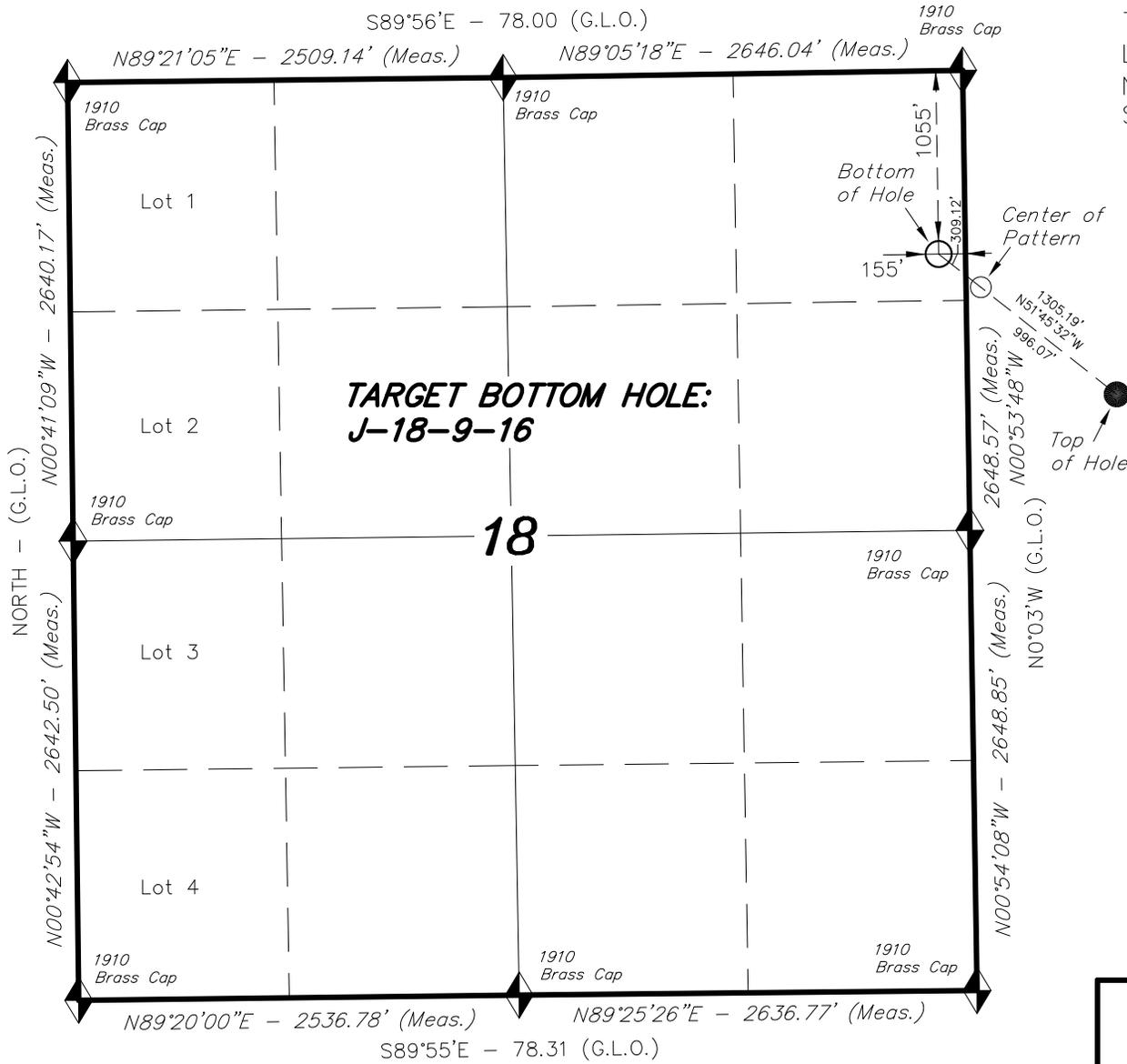
J-18-9-16  
 (Surface Location) NAD 83  
 LATITUDE = 40° 01' 58.85"  
 LONGITUDE = 110° 08' 58.44"

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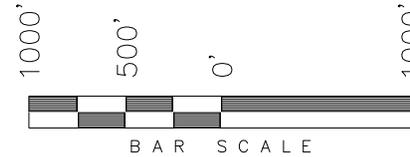
DATE SURVEYED: 05-24-11	SURVEYED BY: D.G.	VERSION:
DATE DRAWN: 08-26-11	DRAWN BY: F.T.M.	V1
REVISED:	SCALE: 1" = 1000'	

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

# NEWFIELD EXPLORATION COMPANY



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

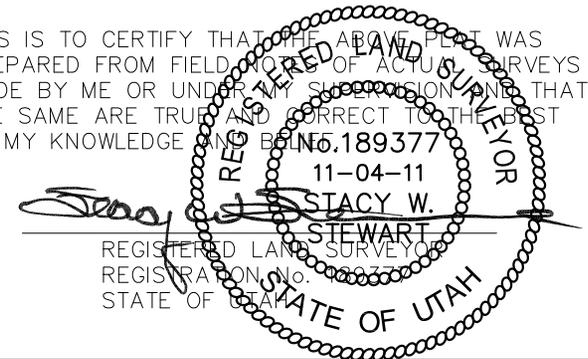


**NOTES:**

1. Well footages are measured at right angles to the Section Lines.
2. Bearings are based on Global Positioning Satellite observations.
3. The Bottom of Hole footages are 1055' FNL & 155' FEL.

◆ = SECTION CORNERS LOCATED

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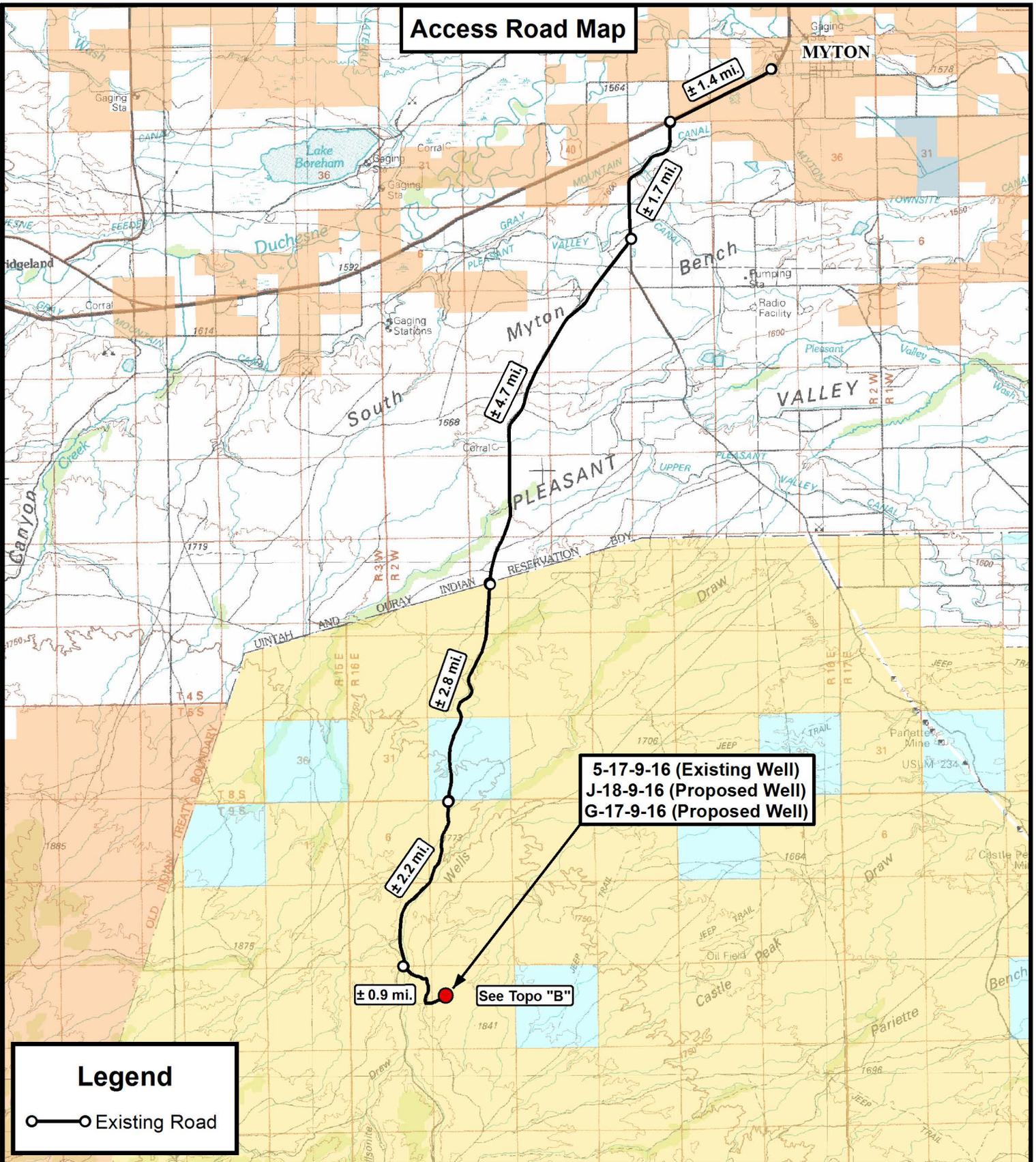


BASIS OF ELEV; Elevations are based on an N.G.S. OPUS Correction. LOCATION: LAT. 40°04'09.56" LONG. 110°00'43.28" (Tristate Aluminum Cap) Elev. 5281.57'

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DATE SURVEYED: 05-24-11	SURVEYED BY: D.G.	VERSION:
DATE DRAWN: 08-26-11	DRAWN BY: F.T.M.	V1
REVISED:	SCALE: 1" = 1000'	

**Access Road Map**



**Legend**

○—○ Existing Road



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DRAWN BY:	A.P.C.	REVISED:	VERSION:
DATE:	09-19-2011		<b>V1</b>
SCALE:	1:100,000		



**NEWFIELD EXPLORATION COMPANY**

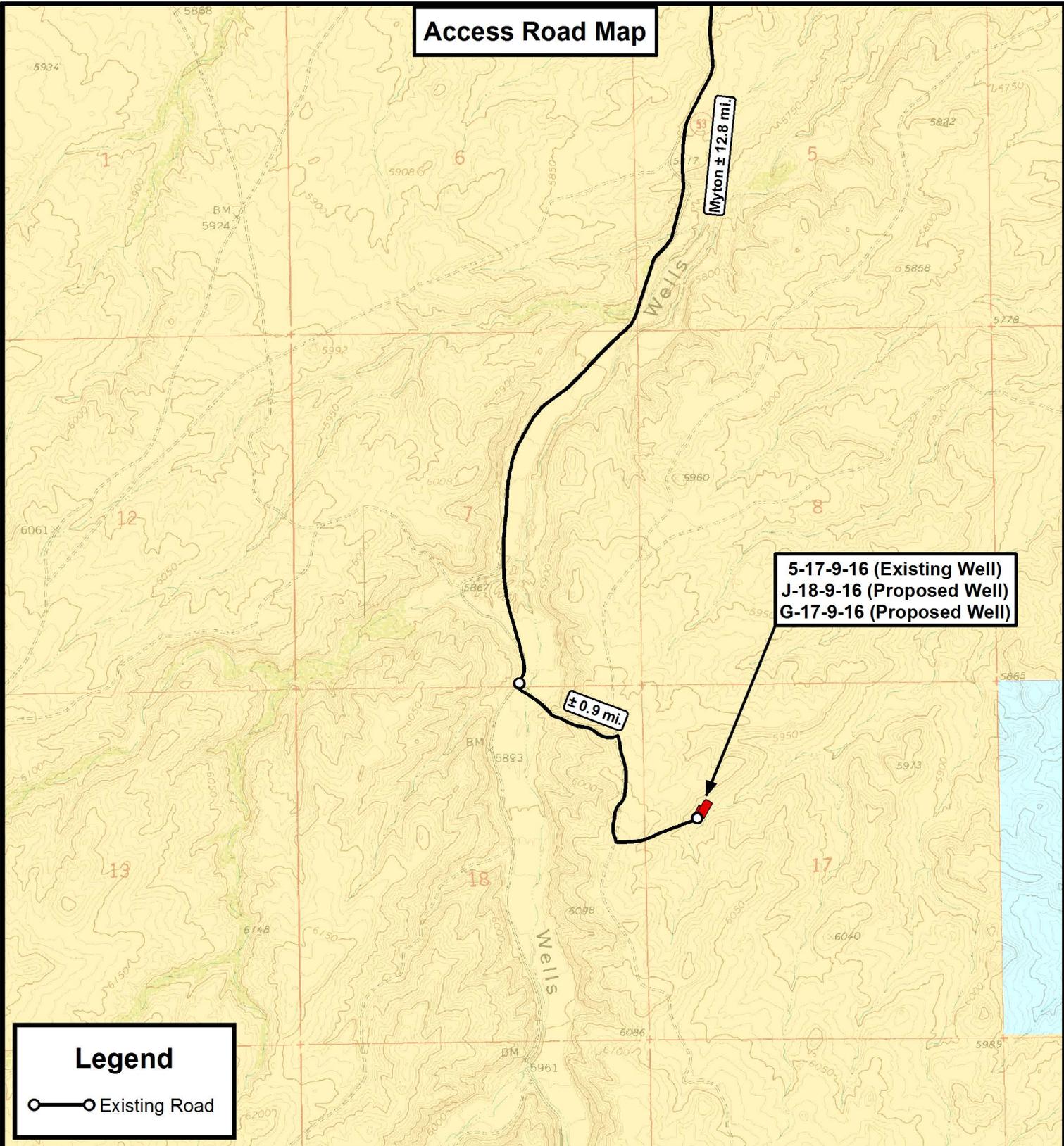
5-17-9-16 (Existing Well)  
J-18-9-16 (Proposed Well)  
G-17-9-16 (Proposed Well)

SEC. 17, T9S, R16E, S.L.B.&M. Duchesne County, UT.

**TOPOGRAPHIC MAP**

SHEET **A**

**Access Road Map**



**5-17-9-16 (Existing Well)  
J-18-9-16 (Proposed Well)  
G-17-9-16 (Proposed Well)**

**± 0.9 mi.**

**Myton ± 12.8 mi.**

**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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**NEWFIELD EXPLORATION COMPANY**

5-17-9-16 (Existing Well)  
J-18-9-16 (Proposed Well)  
G-17-9-16 (Proposed Well)

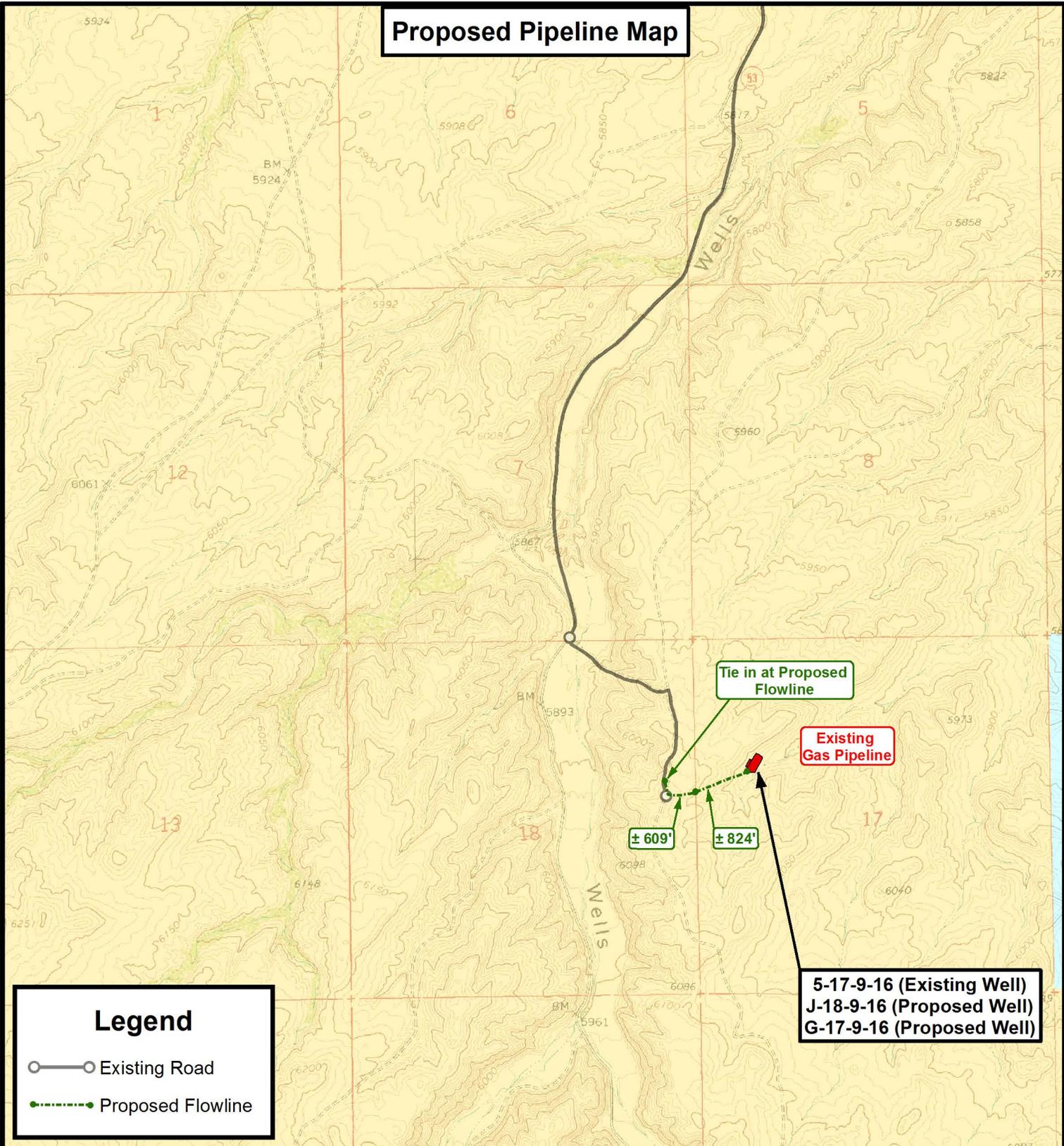
SEC. 17, T9S, R16E, S.L.B.&M. Duchesne County, UT.

DRAWN BY:	A.P.C.	REVISED:	VERSION:
DATE:	09-19-2011		<b>V1</b>
SCALE:	1" = 2,000'		

**TOPOGRAPHIC MAP**

SHEET **B**

**Proposed Pipeline Map**



**Legend**

- Existing Road
- Proposed Flowline

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**NEWFIELD EXPLORATION COMPANY**

5-17-9-16 (Existing Well)  
J-18-9-16 (Proposed Well)  
G-17-9-16 (Proposed Well)

SEC. 17, T9S, R16E, S.L.B.&M. Duchesne County, UT.

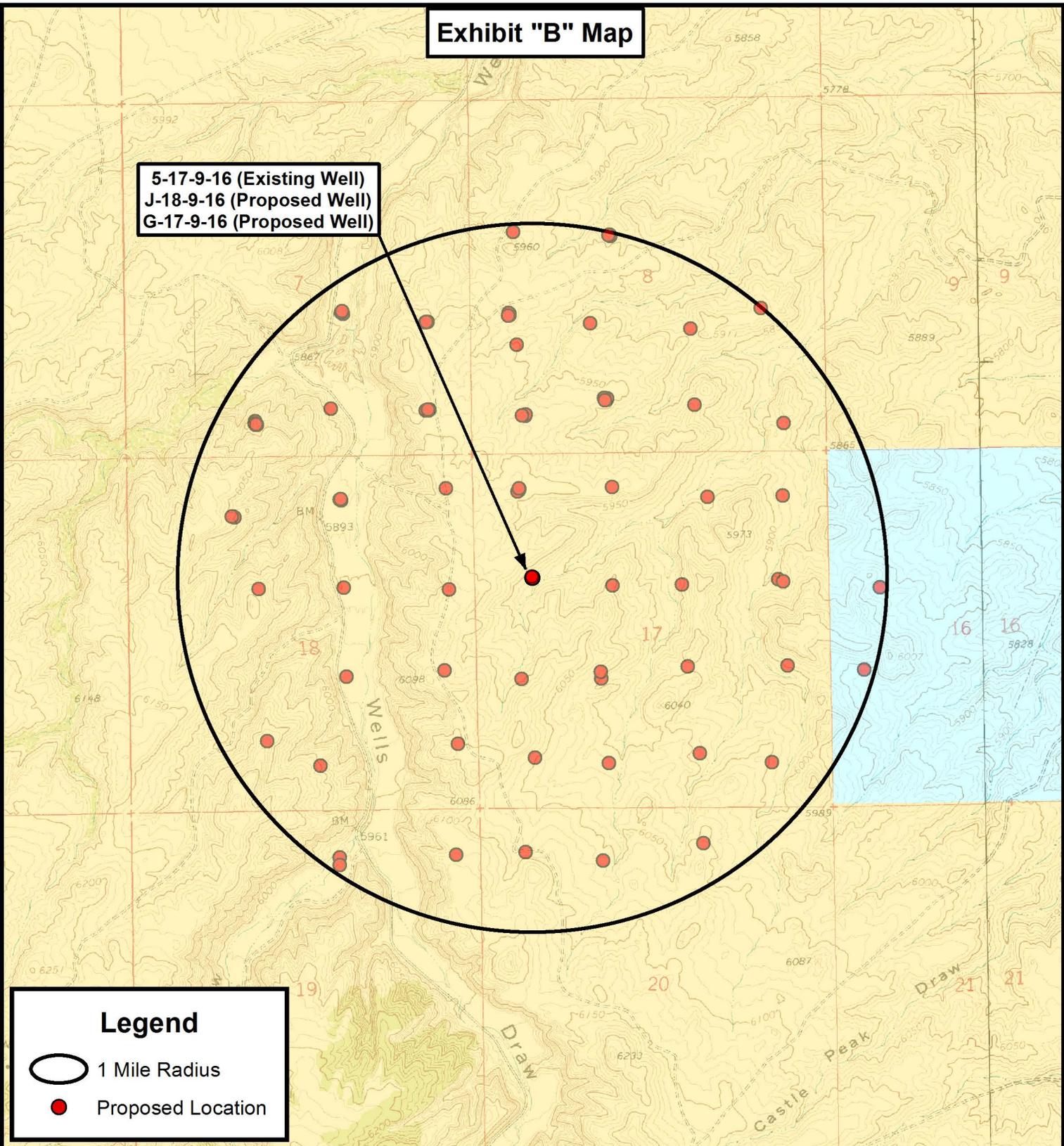
DRAWN BY:	A.P.C.	REVISED:	VERSION:
DATE:	09-19-2011		<b>V1</b>
SCALE:	1" = 2,000'		

**TOPOGRAPHIC MAP**

SHEET **C**

**Exhibit "B" Map**

**5-17-9-16 (Existing Well)**  
**J-18-9-16 (Proposed Well)**  
**G-17-9-16 (Proposed Well)**



**Legend**

-  1 Mile Radius
-  Proposed Location

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**NEWFIELD EXPLORATION COMPANY**

5-17-9-16 (Existing Well)  
 J-18-9-16 (Proposed Well)  
 G-17-9-16 (Proposed Well)

SEC. 17, T9S, R16E, S.L.B.&M. Duchesne County, UT.

DRAWN BY:	A.P.C.	REVISED:	VERSION:
DATE:	09-19-2011		<b>V1</b>
SCALE:	1" = 2,000'		

**TOPOGRAPHIC MAP**

SHEET **D**



# **NEWFIELD EXPLORATION**

**USGS Myton SW (UT)**

**SECTION 17 T9, R16**

**J-18-9-16**

**Wellbore #1**

**Plan: Design #1**

## **Standard Planning Report**

**29 August, 2011**





**PayZone Directional Services, LLC.**

Planning Report



<b>Database:</b>	EDM 2003.21 Single User Db	<b>Local Co-ordinate Reference:</b>	Well J-18-9-16
<b>Company:</b>	NEWFIELD EXPLORATION	<b>TVD Reference:</b>	J-18-9-16 @ 5997.0ft (Newfield Rig)
<b>Project:</b>	USGS Myton SW (UT)	<b>MD Reference:</b>	J-18-9-16 @ 5997.0ft (Newfield Rig)
<b>Site:</b>	SECTION 17 T9, R16	<b>North Reference:</b>	True
<b>Well:</b>	J-18-9-16	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	Wellbore #1		
<b>Design:</b>	Design #1		

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

<b>Site</b>	SECTION 17 T9, R16				
<b>Site Position:</b>		<b>Northing:</b>	7,185,000.00 ft	<b>Latitude:</b>	40° 2' 12.729 N
<b>From:</b>	Map	<b>Easting:</b>	2,018,000.00 ft	<b>Longitude:</b>	110° 9' 4.925 W
<b>Position Uncertainty:</b>	0.0 ft	<b>Slot Radius:</b>	"	<b>Grid Convergence:</b>	0.86 °

<b>Well</b>	J-18-9-16, SHL LAT: 40 01 58.85 LONG: -110 08 58.44					
<b>Well Position</b>	<b>+N/-S</b>	-1,404.3 ft	<b>Northing:</b>	7,183,603.46 ft	<b>Latitude:</b>	40° 1' 58.850 N
	<b>+E/-W</b>	504.4 ft	<b>Easting:</b>	2,018,525.50 ft	<b>Longitude:</b>	110° 8' 58.440 W
<b>Position Uncertainty</b>		0.0 ft	<b>Wellhead Elevation:</b>	5,997.0 ft	<b>Ground Level:</b>	5,985.0 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	2011/08/29	11.32	65.76	52,227

<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>	
	5,050.0	0.0	0.0	308.24	

<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	
1,536.9	14.05	308.24	1,527.5	70.8	-89.8	1.50	1.50	0.00	308.24	
5,168.0	14.05	308.24	5,050.0	616.5	-782.3	0.00	0.00	0.00	0.00	J-18-9-16 TGT
6,441.2	14.05	308.24	6,285.0	807.9	-1,025.1	0.00	0.00	0.00	0.00	



**PayZone Directional Services, LLC.**

Planning Report



<b>Database:</b>	EDM 2003.21 Single User Db	<b>Local Co-ordinate Reference:</b>	Well J-18-9-16
<b>Company:</b>	NEWFIELD EXPLORATION	<b>TVD Reference:</b>	J-18-9-16 @ 5997.0ft (Newfield Rig)
<b>Project:</b>	USGS Myton SW (UT)	<b>MD Reference:</b>	J-18-9-16 @ 5997.0ft (Newfield Rig)
<b>Site:</b>	SECTION 17 T9, R16	<b>North Reference:</b>	True
<b>Well:</b>	J-18-9-16	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	Wellbore #1		
<b>Design:</b>	Design #1		

Planned Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.00	0.00	0.00
100.0	0.00	0.00	100.0	0.0	0.0	0.0	0.00	0.00	0.00
200.0	0.00	0.00	200.0	0.0	0.0	0.0	0.00	0.00	0.00
300.0	0.00	0.00	300.0	0.0	0.0	0.0	0.00	0.00	0.00
400.0	0.00	0.00	400.0	0.0	0.0	0.0	0.00	0.00	0.00
500.0	0.00	0.00	500.0	0.0	0.0	0.0	0.00	0.00	0.00
600.0	0.00	0.00	600.0	0.0	0.0	0.0	0.00	0.00	0.00
700.0	1.50	308.24	700.0	0.8	-1.0	1.3	1.50	1.50	0.00
800.0	3.00	308.24	799.9	3.2	-4.1	5.2	1.50	1.50	0.00
900.0	4.50	308.24	899.7	7.3	-9.2	11.8	1.50	1.50	0.00
1,000.0	6.00	308.24	999.3	13.0	-16.4	20.9	1.50	1.50	0.00
1,100.0	7.50	308.24	1,098.6	20.2	-25.7	32.7	1.50	1.50	0.00
1,200.0	9.00	308.24	1,197.5	29.1	-36.9	47.0	1.50	1.50	0.00
1,300.0	10.50	308.24	1,296.1	39.6	-50.2	64.0	1.50	1.50	0.00
1,400.0	12.00	308.24	1,394.2	51.7	-65.6	83.5	1.50	1.50	0.00
1,500.0	13.50	308.24	1,491.7	65.3	-82.9	105.5	1.50	1.50	0.00
1,536.9	14.05	308.24	1,527.5	70.8	-89.8	114.3	1.50	1.50	0.00
1,600.0	14.05	308.24	1,588.7	80.2	-101.8	129.6	0.00	0.00	0.00
1,700.0	14.05	308.24	1,685.8	95.3	-120.9	153.9	0.00	0.00	0.00
1,800.0	14.05	308.24	1,782.8	110.3	-140.0	178.2	0.00	0.00	0.00
1,900.0	14.05	308.24	1,879.8	125.3	-159.0	202.5	0.00	0.00	0.00
2,000.0	14.05	308.24	1,976.8	140.4	-178.1	226.8	0.00	0.00	0.00
2,100.0	14.05	308.24	2,073.8	155.4	-197.2	251.1	0.00	0.00	0.00
2,200.0	14.05	308.24	2,170.8	170.4	-216.3	275.3	0.00	0.00	0.00
2,300.0	14.05	308.24	2,267.8	185.5	-235.3	299.6	0.00	0.00	0.00
2,400.0	14.05	308.24	2,364.8	200.5	-254.4	323.9	0.00	0.00	0.00
2,500.0	14.05	308.24	2,461.8	215.5	-273.5	348.2	0.00	0.00	0.00
2,600.0	14.05	308.24	2,558.8	230.5	-292.6	372.5	0.00	0.00	0.00
2,700.0	14.05	308.24	2,655.8	245.6	-311.6	396.8	0.00	0.00	0.00
2,800.0	14.05	308.24	2,752.8	260.6	-330.7	421.0	0.00	0.00	0.00
2,900.0	14.05	308.24	2,849.8	275.6	-349.8	445.3	0.00	0.00	0.00
3,000.0	14.05	308.24	2,946.8	290.7	-368.8	469.6	0.00	0.00	0.00
3,100.0	14.05	308.24	3,043.8	305.7	-387.9	493.9	0.00	0.00	0.00
3,200.0	14.05	308.24	3,140.9	320.7	-407.0	518.2	0.00	0.00	0.00
3,300.0	14.05	308.24	3,237.9	335.8	-426.1	542.5	0.00	0.00	0.00
3,400.0	14.05	308.24	3,334.9	350.8	-445.1	566.7	0.00	0.00	0.00
3,500.0	14.05	308.24	3,431.9	365.8	-464.2	591.0	0.00	0.00	0.00
3,600.0	14.05	308.24	3,528.9	380.8	-483.3	615.3	0.00	0.00	0.00
3,700.0	14.05	308.24	3,625.9	395.9	-502.3	639.6	0.00	0.00	0.00
3,800.0	14.05	308.24	3,722.9	410.9	-521.4	663.9	0.00	0.00	0.00
3,900.0	14.05	308.24	3,819.9	425.9	-540.5	688.2	0.00	0.00	0.00
4,000.0	14.05	308.24	3,916.9	441.0	-559.6	712.4	0.00	0.00	0.00
4,100.0	14.05	308.24	4,013.9	456.0	-578.6	736.7	0.00	0.00	0.00
4,200.0	14.05	308.24	4,110.9	471.0	-597.7	761.0	0.00	0.00	0.00
4,300.0	14.05	308.24	4,207.9	486.1	-616.8	785.3	0.00	0.00	0.00
4,400.0	14.05	308.24	4,304.9	501.1	-635.9	809.6	0.00	0.00	0.00
4,500.0	14.05	308.24	4,401.9	516.1	-654.9	833.8	0.00	0.00	0.00
4,600.0	14.05	308.24	4,499.0	531.1	-674.0	858.1	0.00	0.00	0.00
4,700.0	14.05	308.24	4,596.0	546.2	-693.1	882.4	0.00	0.00	0.00
4,800.0	14.05	308.24	4,693.0	561.2	-712.1	906.7	0.00	0.00	0.00
4,900.0	14.05	308.24	4,790.0	576.2	-731.2	931.0	0.00	0.00	0.00
5,000.0	14.05	308.24	4,887.0	591.3	-750.3	955.3	0.00	0.00	0.00
5,100.0	14.05	308.24	4,984.0	606.3	-769.4	979.5	0.00	0.00	0.00
5,168.0	14.05	308.24	5,050.0	616.5	-782.3	996.1	0.00	0.00	0.00

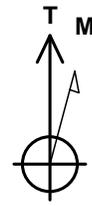


<b>Database:</b>	EDM 2003.21 Single User Db	<b>Local Co-ordinate Reference:</b>	Well J-18-9-16
<b>Company:</b>	NEWFIELD EXPLORATION	<b>TVD Reference:</b>	J-18-9-16 @ 5997.0ft (Newfield Rig)
<b>Project:</b>	USGS Myton SW (UT)	<b>MD Reference:</b>	J-18-9-16 @ 5997.0ft (Newfield Rig)
<b>Site:</b>	SECTION 17 T9, R16	<b>North Reference:</b>	True
<b>Well:</b>	J-18-9-16	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	Wellbore #1		
<b>Design:</b>	Design #1		

Planned Survey										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	
5,200.0	14.05	308.24	5,081.0	621.3	-788.4	1,003.8	0.00	0.00	0.00	
5,300.0	14.05	308.24	5,178.0	636.4	-807.5	1,028.1	0.00	0.00	0.00	
5,400.0	14.05	308.24	5,275.0	651.4	-826.6	1,052.4	0.00	0.00	0.00	
5,500.0	14.05	308.24	5,372.0	666.4	-845.6	1,076.7	0.00	0.00	0.00	
5,600.0	14.05	308.24	5,469.0	681.4	-864.7	1,101.0	0.00	0.00	0.00	
5,700.0	14.05	308.24	5,566.0	696.5	-883.8	1,125.2	0.00	0.00	0.00	
5,800.0	14.05	308.24	5,663.0	711.5	-902.9	1,149.5	0.00	0.00	0.00	
5,900.0	14.05	308.24	5,760.0	726.5	-921.9	1,173.8	0.00	0.00	0.00	
6,000.0	14.05	308.24	5,857.1	741.6	-941.0	1,198.1	0.00	0.00	0.00	
6,100.0	14.05	308.24	5,954.1	756.6	-960.1	1,222.4	0.00	0.00	0.00	
6,200.0	14.05	308.24	6,051.1	771.6	-979.2	1,246.7	0.00	0.00	0.00	
6,300.0	14.05	308.24	6,148.1	786.7	-998.2	1,270.9	0.00	0.00	0.00	
6,400.0	14.05	308.24	6,245.1	801.7	-1,017.3	1,295.2	0.00	0.00	0.00	
6,441.2	14.05	308.24	6,285.0	807.9	-1,025.1	1,305.2	0.00	0.00	0.00	



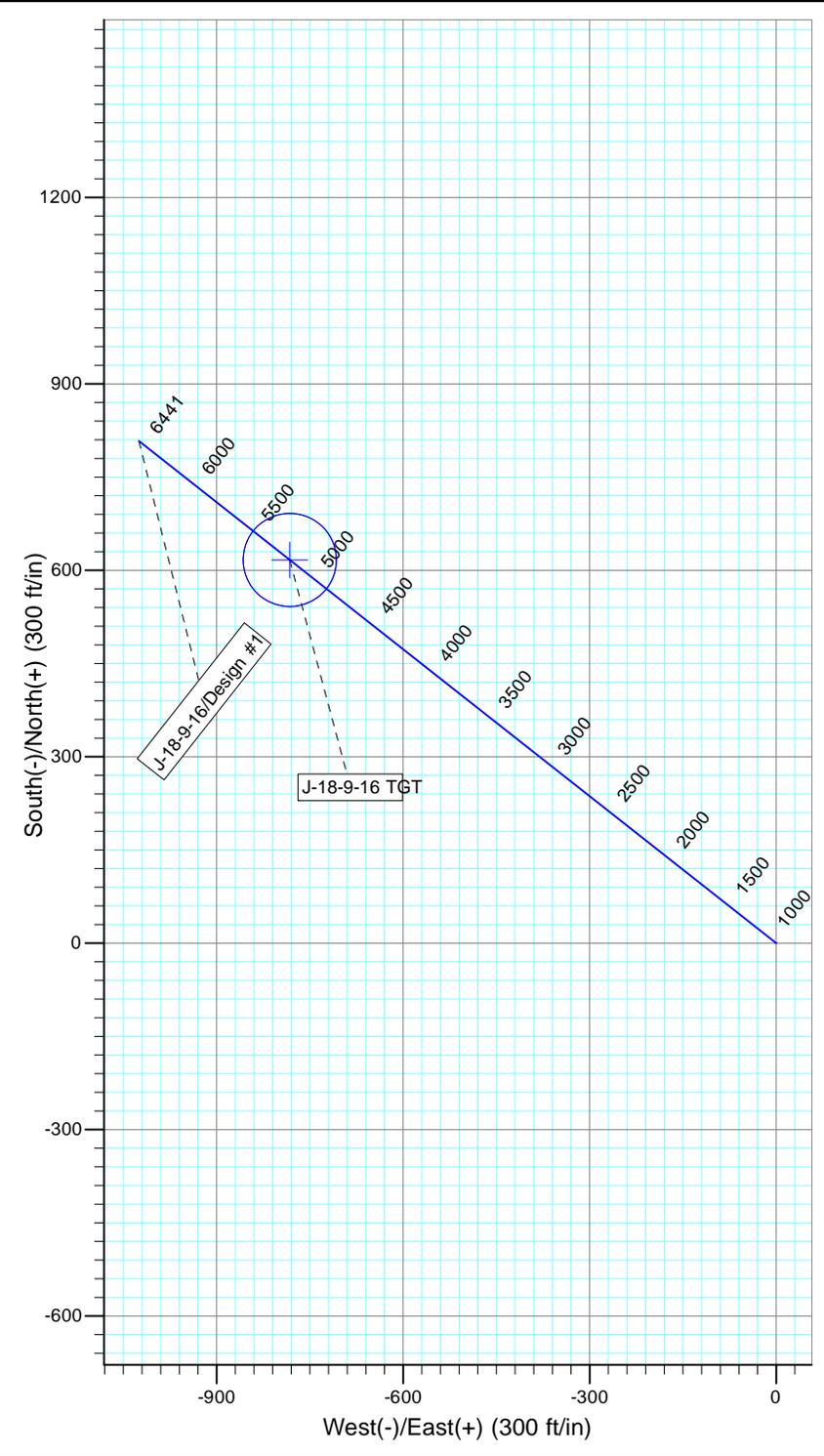
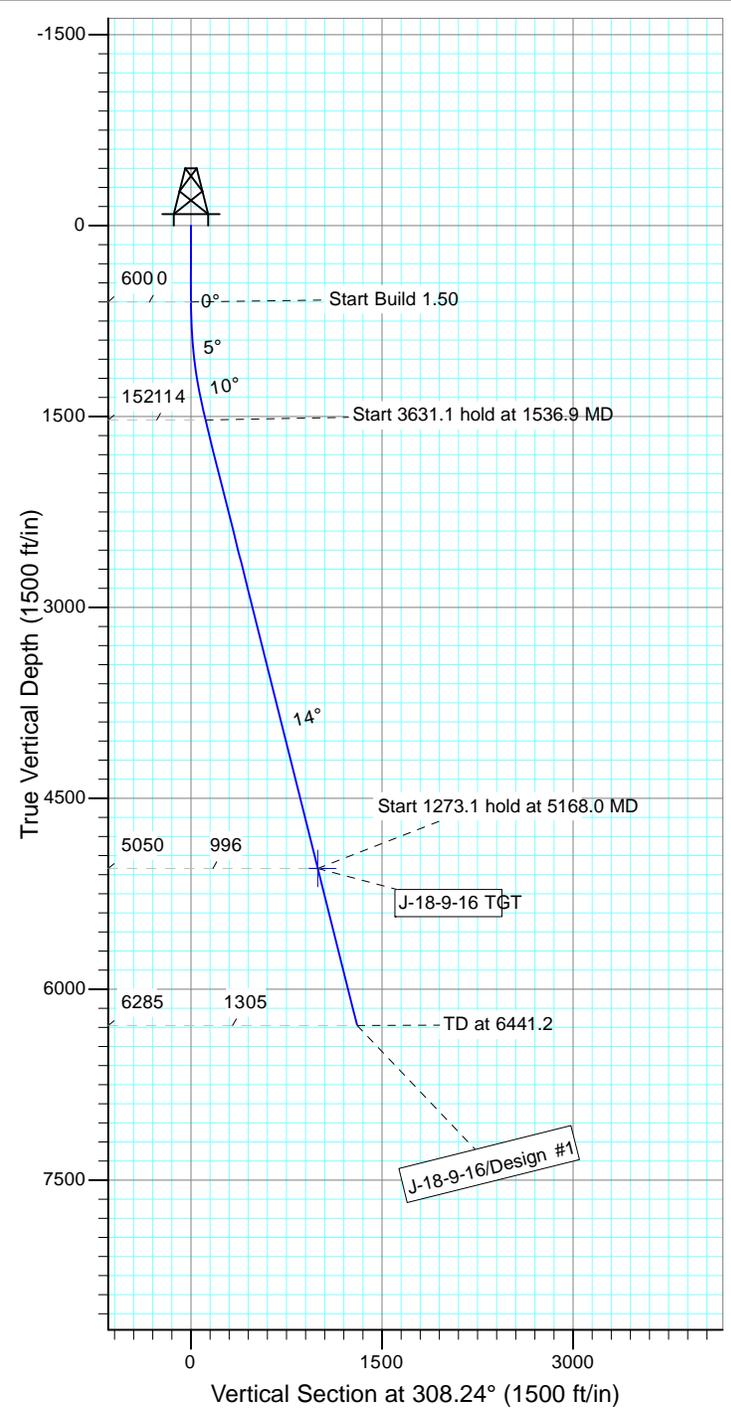
Project: USGS Myton SW (UT)  
 Site: SECTION 17 T9, R16  
 Well: J-18-9-16  
 Wellbore: Wellbore #1  
 Design: Design #1



Azimuths to True North  
 Magnetic North: 11.32°

Magnetic Field  
 Strength: 52227.4snT  
 Dip Angle: 65.76°  
 Date: 2011/08/29  
 Model: IGRF2010

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



WELLBORE TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Shape
J-18-9-16 TGT	5050.0	616.5	-782.3	Circle (Radius: 75.0)

SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	DLeg	TFace	VSec	Target
1	0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0	
2	600.0	0.00	0.00	600.0	0.0	0.0	0.00	0.00	0.0	
3	1536.9	14.05	308.24	1527.5	70.8	-89.8	1.50	308.24	114.3	
4	5168.0	14.05	308.24	5050.0	616.5	-782.3	0.00	0.00	996.1	J-18-9-16 TGT
5	6441.2	14.05	308.24	6285.0	807.9	-1025.1	0.00	0.00	1305.2	



**NEWFIELD PRODUCTION COMPANY  
GMBU J-18-9-16  
AT SURFACE: SW/NW SECTION 17, 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 J-18-9-16 located in the SW 1/4 NW 1/4 Section 17, 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 – 11.4 miles  $\pm$  to it's junction with an existing road to the southeast; proceed in a southeasterly direction – 0.9 miles  $\pm$  to it's junction with the beginning of the access road the existing 5-17-9-16 well location.

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

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

**2. PLANNED ACCESS ROAD**

There is no proposed access road for this location. The proposed well will be drilled directionally off of the existing 5-17-9-16 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. State of Utah Antiquities Project Permit # U-11-MQ-1055b 12/6/11, prepared by Montgomery Archaeological Consultants. Paleontological Resource Survey prepared by, Wade Miller, 10/26/11. See attached report cover pages, Exhibit "D".

### **Surface Flow Line**

Newfield requests 1,433' 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 J-18-9-16 was on-sited on 11/10/11. 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 J-18-9-16, Newfield will not use, produce, store, transport or dispose 10,000# annually of any of the hazardous chemicals contained in the Environmental Protection Agency's consolidated list of chemicals subject to reporting under Title III Superfund Amendments and Reauthorization Act (SARA) of 1986. Newfield also guarantees that during the drilling and completion of the GMBU J-18-9-16, Newfield will use, produce, store, transport or dispose less than the threshold planning quantity (T.P.Q.) of any extremely hazardous substances as defined in 40 CFR 355.

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

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

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

Representative

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

Certification

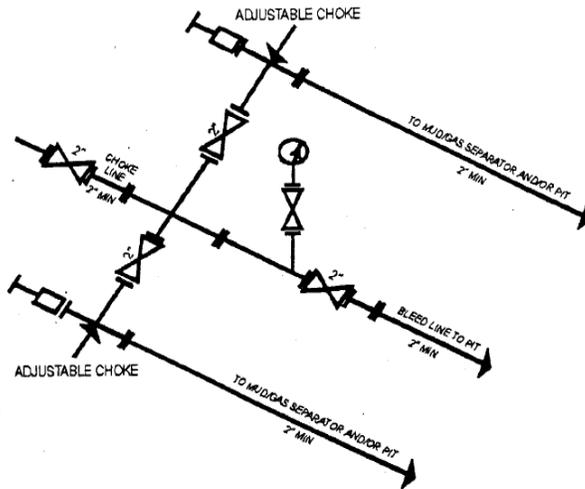
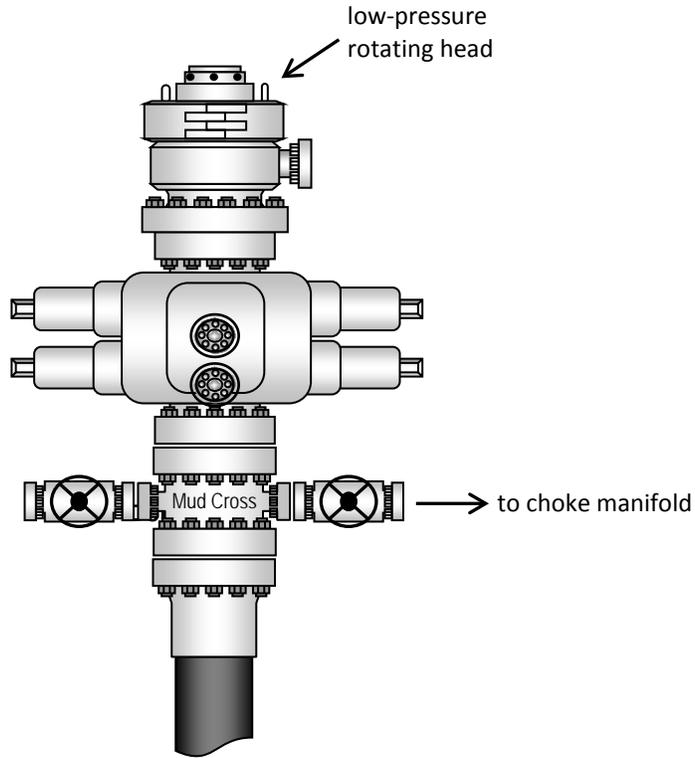
Please be advised that NEWFIELD PRODUCTION COMPANY is considered to be the operator of well #J-18-9-16, Section 17, Township 9S, Range 16E: Lease UTU-74390 Duchesne County, Utah: and is responsible under the terms and conditions of the lease for the operations conducted upon the leased lands. Bond coverage 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.

1/10/12  
Date

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

### Typical 2M BOP stack configuration



2M CHOKE MANIFOLD EQUIPMENT - CONFIGURATION OF CHOKES MAY VARY

# NEWFIELD EXPLORATION COMPANY

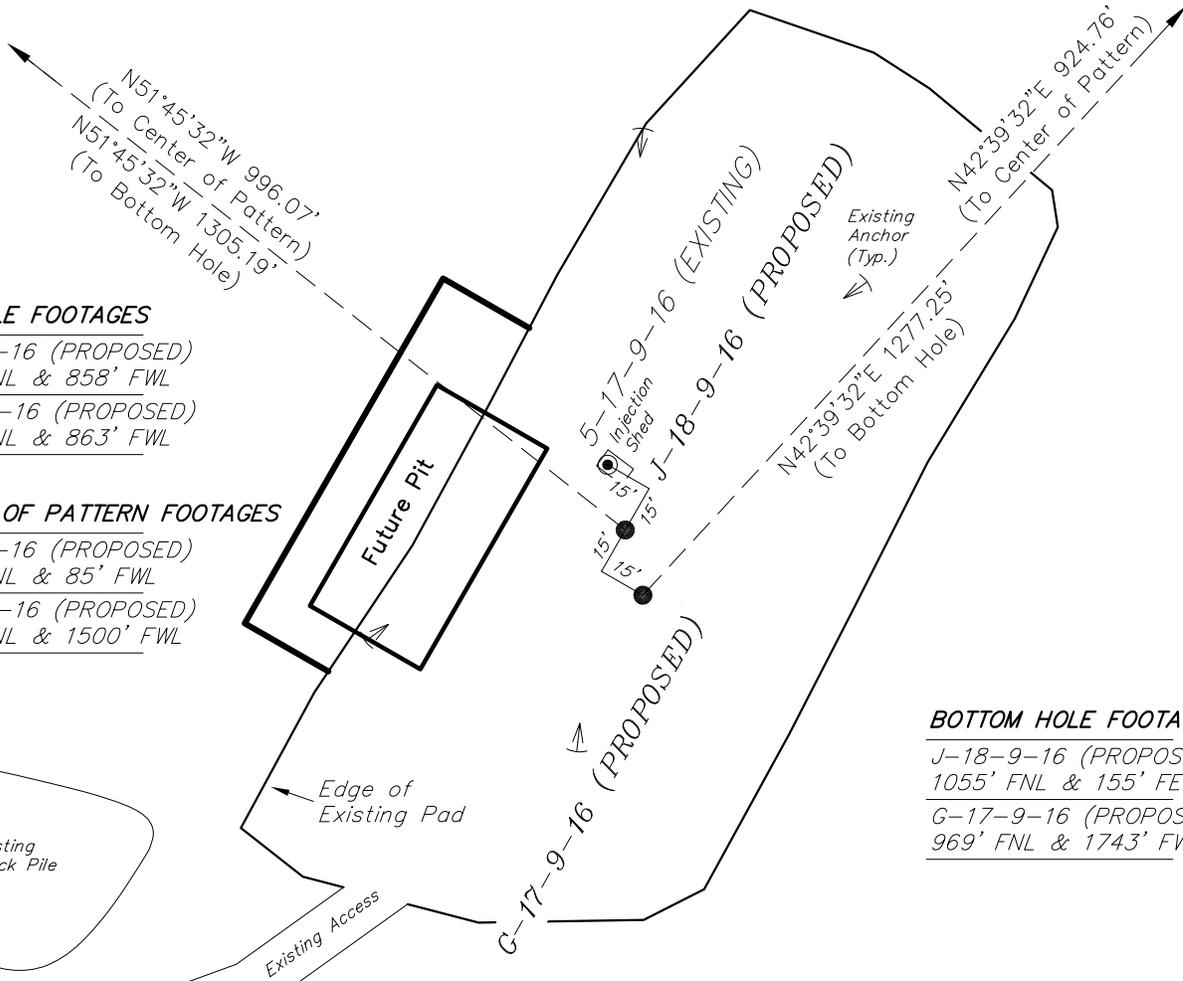
## WELL PAD INTERFERENCE PLAT

5-17-9-16 (Existing Well)

J-18-9-16 (Proposed Well)

G-17-9-16 (Proposed Well)

Pad Location: SWNW Section 17, T9S, R16E, S.L.B.&M.



**TOP HOLE FOOTAGES**

J-18-9-16 (PROPOSED)  
1876' FNL & 858' FWL

G-17-9-16 (PROPOSED)  
1897' FNL & 863' FWL

**CENTER OF PATTERN FOOTAGES**

J-18-9-16 (PROPOSED)  
1250' FNL & 85' FWL

G-17-9-16 (PROPOSED)  
1225' FNL & 1500' FWL

**BOTTOM HOLE FOOTAGES**

J-18-9-16 (PROPOSED)  
1055' FNL & 155' FEL

G-17-9-16 (PROPOSED)  
969' FNL & 1743' FWL

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

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

WELL	LATITUDE	LONGITUDE
5-17-9-16	40° 01' 59.05"	110° 08' 58.51"
J-18-9-16	40° 01' 58.85"	110° 08' 58.44"
G-17-9-16	40° 01' 58.64"	110° 08' 58.37"

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

WELL	NORTH	EAST
J-18-9-16	617'	-782'
G-17-9-16	680'	627'

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

WELL	NORTH	EAST
J-18-9-16	808'	-1,025'
G-17-9-16	939'	866'

SURVEYED BY: D.G.	DATE SURVEYED: 05-24-11	VERSION: V1
DRAWN BY: F.T.M.	DATE DRAWN: 08-26-11	
SCALE: 1" = 60'	REVISED:	

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

# NEWFIELD EXPLORATION COMPANY

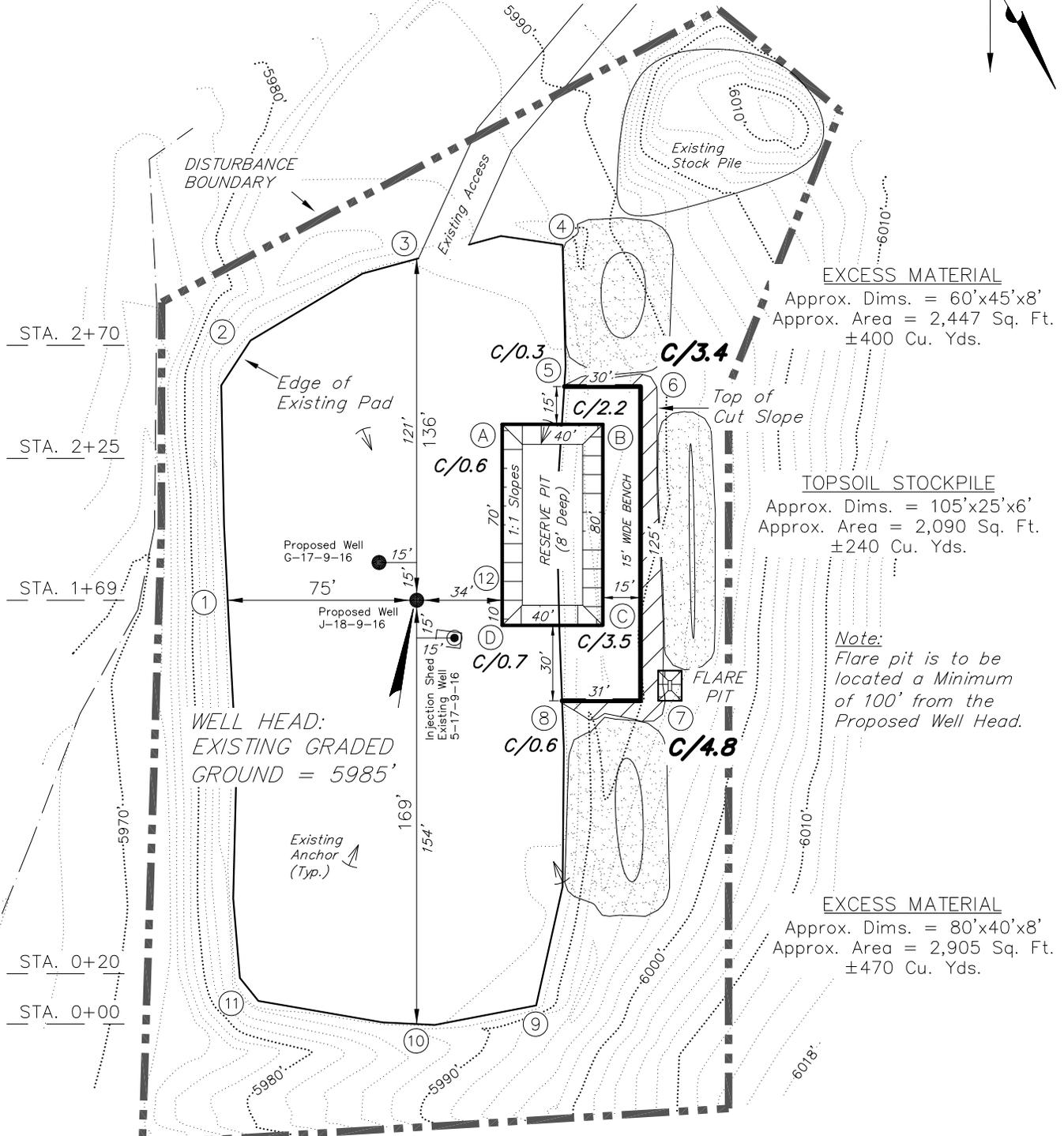
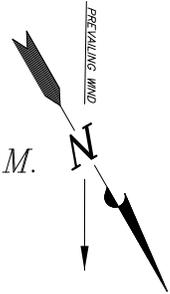
## LOCATION LAYOUT

5-17-9-16 (Existing Well)

J-18-9-16 (Proposed Well)

G-17-9-16 (Proposed Well)

Pad Location: SWNW Section 17, T9S, R16E, S.L.B.&M.



**EXCESS MATERIAL**  
 Approx. Dims. = 60'x45'x8'  
 Approx. Area = 2,447 Sq. Ft.  
 ±400 Cu. Yds.

**TOPSOIL STOCKPILE**  
 Approx. Dims. = 105'x25'x6'  
 Approx. Area = 2,090 Sq. Ft.  
 ±240 Cu. Yds.

*Note:*  
 Flare pit is to be located a Minimum of 100' from the Proposed Well Head.

**EXCESS MATERIAL**  
 Approx. Dims. = 80'x40'x8'  
 Approx. Area = 2,905 Sq. Ft.  
 ±470 Cu. Yds.

**NOTE:**  
 The topsoil & excess material areas are calculated as being mounds containing 1,110 cubic yards of dirt (a 10% fluff factor is included). The mound areas are calculated with push slopes of 1.5:1 & fall slopes of 1.5:1.

*Note:*  
 Topsoil to be Stripped From All New Construction Areas and Proposed Stock Pile Locations

SURVEYED BY: D.G.	DATE SURVEYED: 05-24-11	VERSION:
DRAWN BY: F.T.M.	DATE DRAWN: 08-26-11	V1
SCALE: 1" = 60'	REVISED:	

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

# NEWFIELD EXPLORATION COMPANY

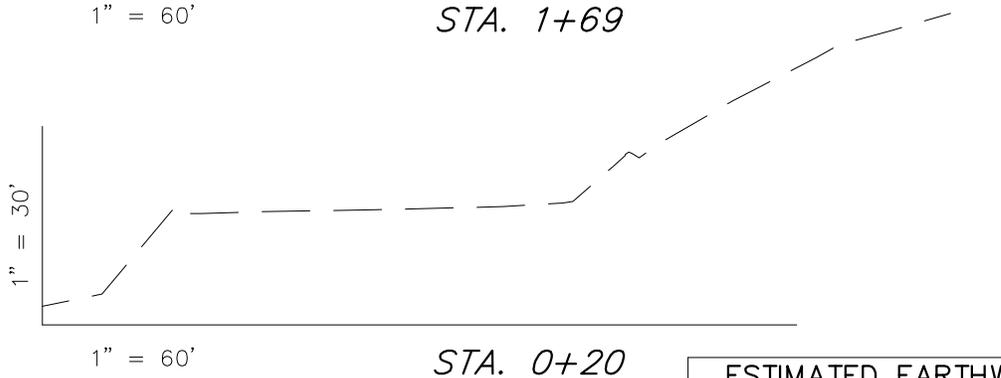
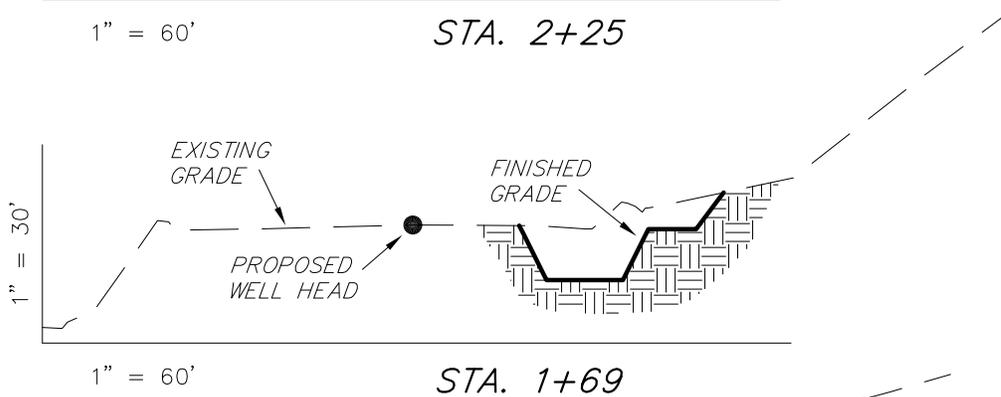
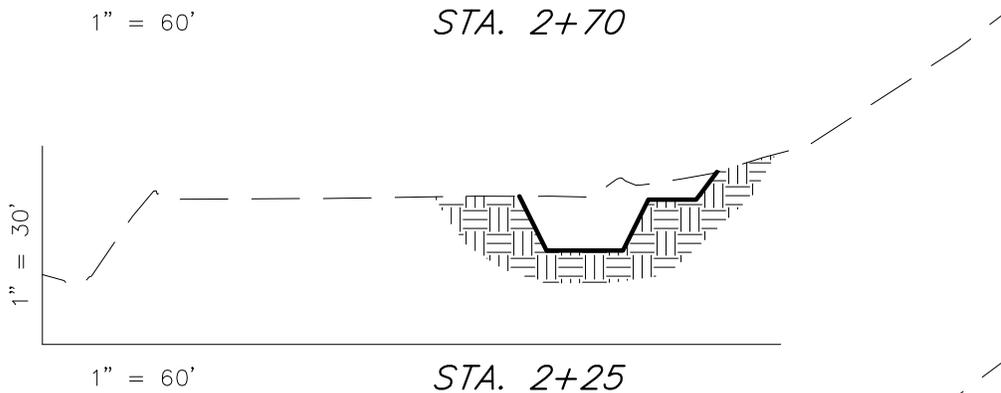
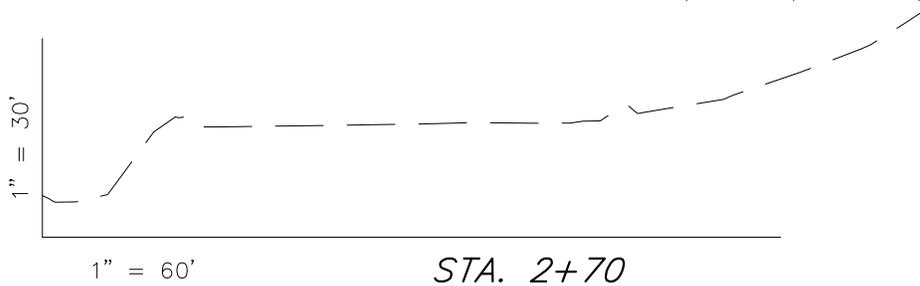
## CROSS SECTIONS

**5-17-9-16 (Existing Well)**

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

**G-17-9-16 (Proposed Well)**

*Pad Location: SWNW Section 17, T9S, R16E, S.L.B.&M.*



ESTIMATED EARTHWORK QUANTITIES (No Shrink or swell adjustments have been used) (Expressed in Cubic Yards)				
ITEM	CUT	FILL	6" TOPSOIL	EXCESS
PAD	100	0	Topsoil is not included in Pad Cut	100
PIT	690	0		690
TOTALS	790	0	220	790

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

SURVEYED BY: D.G.	DATE SURVEYED: 05-24-11	VERSION: V1
DRAWN BY: F.T.M.	DATE DRAWN: 08-26-11	
SCALE: 1" = 60'	REVISED:	

180 NORTH VERNAL AVE. VERNAL, UTAH 84078

(435) 781-2501

RECEIVED: January 10, 2012

# NEWFIELD EXPLORATION COMPANY

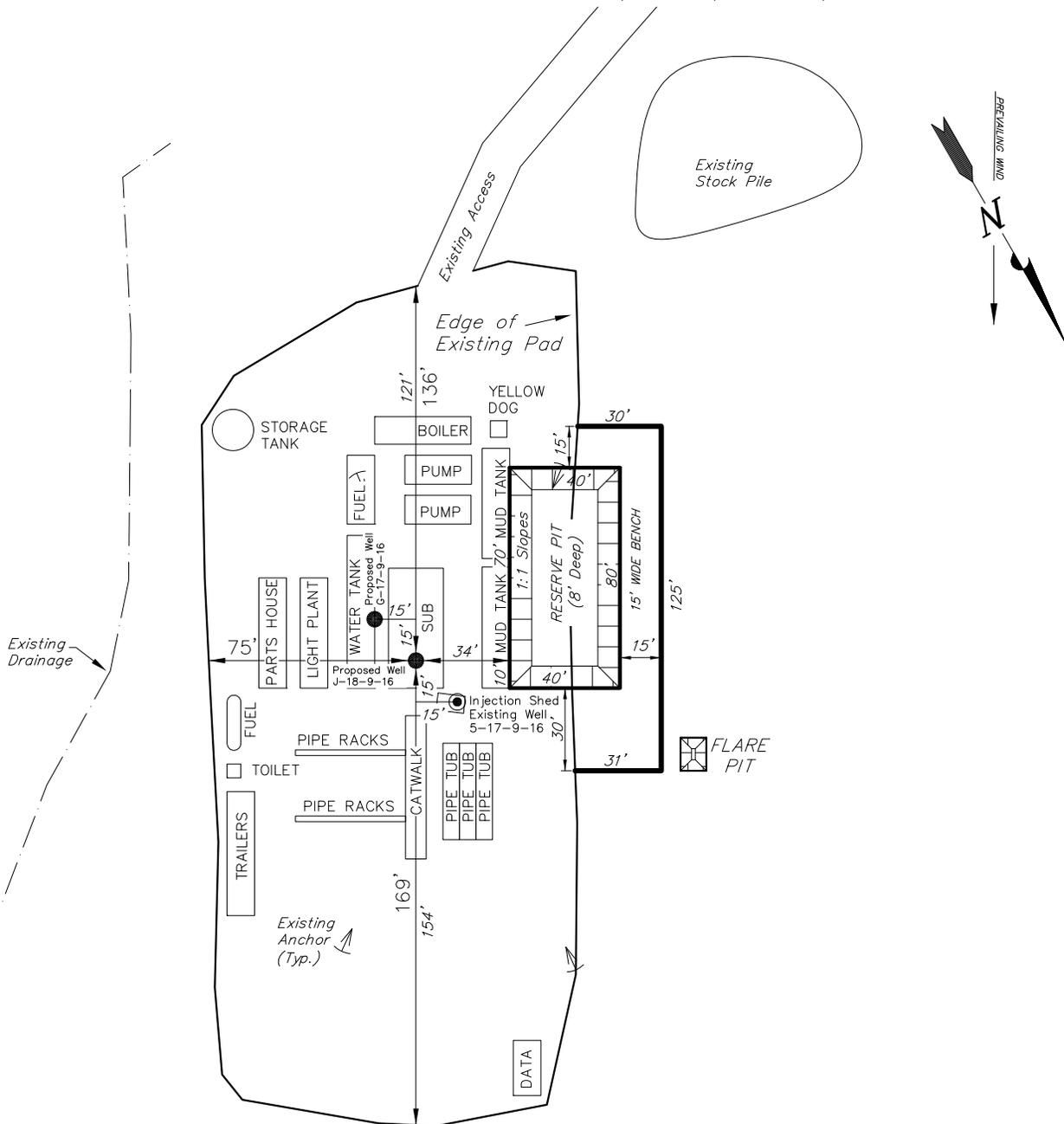
## TYPICAL RIG LAYOUT

5-17-9-16 (Existing Well)

J-18-9-16 (Proposed Well)

G-17-9-16 (Proposed Well)

Pad Location: SWNW Section 17, T9S, R16E, S.L.B.&M.

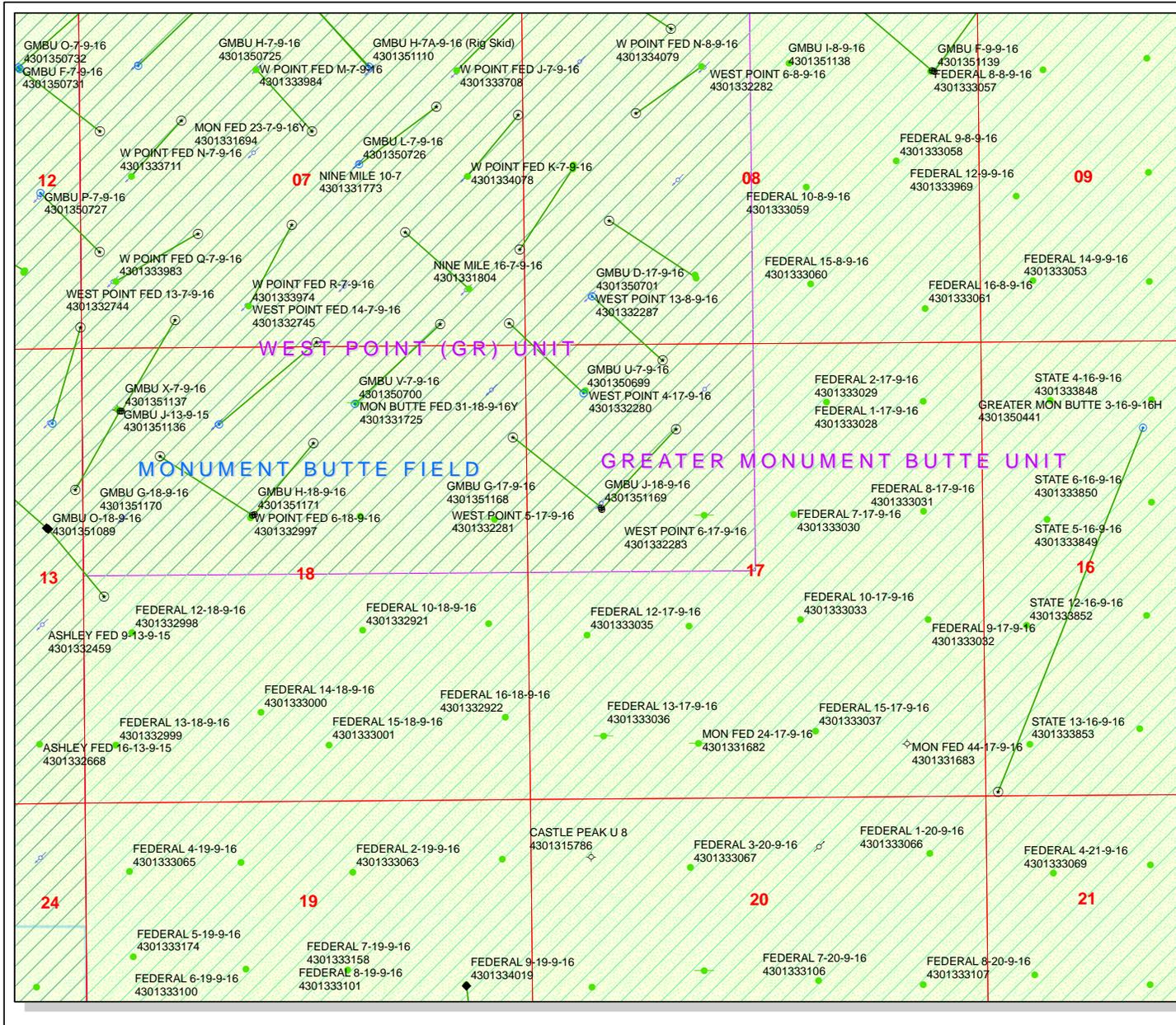


SURVEYED BY: D.G.	DATE SURVEYED: 05-24-11	VERSION:
DRAWN BY: F.T.M.	DATE DRAWN: 08-26-11	V1
SCALE: 1" = 60'	REVISED:	

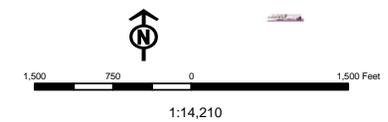
**Tri State** (435) 781-2501  
 Land Surveying, Inc.  
 180 NORTH VERNAL AVE. VERNAL, UTAH 84078

**API Number: 4301351169**  
**Well Name: GMBU J-18-9-16**  
 Township T09. Range R1.6. Section 17  
 Meridian: SLBM  
 Operator: NEWFIELD PRODUCTION COMPANY

Map Prepared:  
 Map Produced by Diana Mason



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





VIA ELECTRONIC DELIVERY

January 12, 2012

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 J-18-9-16**  
Greater Monument Butte (Green River) Unit

Surface Hole: T9S-R16E Section 17: SWNW (UTU-74390)  
1876' FNL 858' FWL

At Target: T9S-R16E Section 18: NENE (UTU-74390)  
1055' FNL 155' 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 1/11/2012, 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 303-383-4153 or by email at [pburns@newfield.com](mailto:pburns@newfield.com). Your consideration in this matter is greatly appreciated.

Sincerely,  
Newfield Production Company

A handwritten signature in blue ink, appearing to read "P. Burns", with a horizontal line extending to the right.

Peter Burns  
Land Associate

Form 3160-3  
(August 2007)

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

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

**APPLICATION FOR PERMIT TO DRILL OR REENTER**

1a. Type of Work: <input checked="" type="checkbox"/> DRILL <input type="checkbox"/> REENTER		5. Lease Serial No. UTU74390
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
2. Name of Operator NEWFIELD PRODUCTION COMPANY Contact: MANDIE CROZIER Email: mcrozier@newfield.com		7. If Unit or CA Agreement, Name and No. GREATER MONUMENT
3a. Address ROUTE #3 BOX 3630 MYTON, UT 84052	3b. Phone No. (include area code) Ph: 435-646-4825 Fx: 435-646-3031	8. Lease Name and Well No. GMBU J-18-9-16
4. Location of Well (Report location clearly and in accordance with any State requirements. *) At surface SWNW 1876FNL 858FWL At proposed prod. zone NENE 1055FNL 155FEL		9. API Well No.
14. Distance in miles and direction from nearest town or post office* 13.7		10. Field and Pool, or Exploratory MONUMENT BUTTE
15. Distance from proposed location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any) 1585'	16. No. of Acres in Lease 2037.20	11. Sec., T., R., M., or Blk. and Survey or Area Sec 17 T9S R16E Mer SLB
18. Distance from proposed location to nearest well, drilling, completed, applied for, on this lease, ft. 827'	19. Proposed Depth 6441 MD 6285 TVD	12. County or Parish DUCHESNE
21. Elevations (Show whether DF, KB, RT, GL, etc.) 5985 GL	22. Approximate date work will start 03/31/2012	13. State UT
		17. Spacing Unit dedicated to this well 20.00
		20. BLM/BIA Bond No. on file WYB000493
		23. Estimated duration 7 DAYS

24. Attachments

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

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

25. Signature (Electronic Submission)	Name (Printed/Typed) MANDIE CROZIER Ph: 435-646-4825	Date 01/11/2012
Title REGULATORY ANALYST		
Approved by (Signature)	Name (Printed/Typed)	Date
Title	Office	

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

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

**Additional Operator Remarks (see next page)**

**Electronic Submission #127882 verified by the BLM Well Information System  
For NEWFIELD PRODUCTION COMPANY, sent to the Vernal**

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

API Well Number: 43013511690000

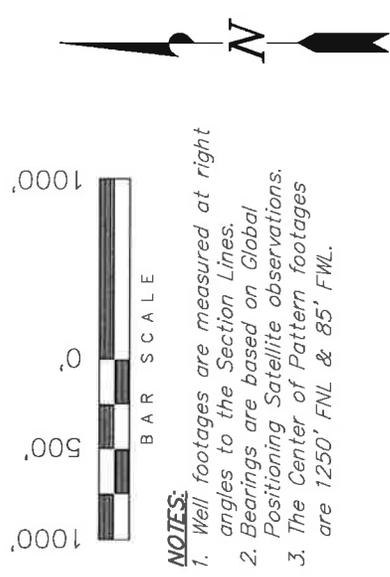
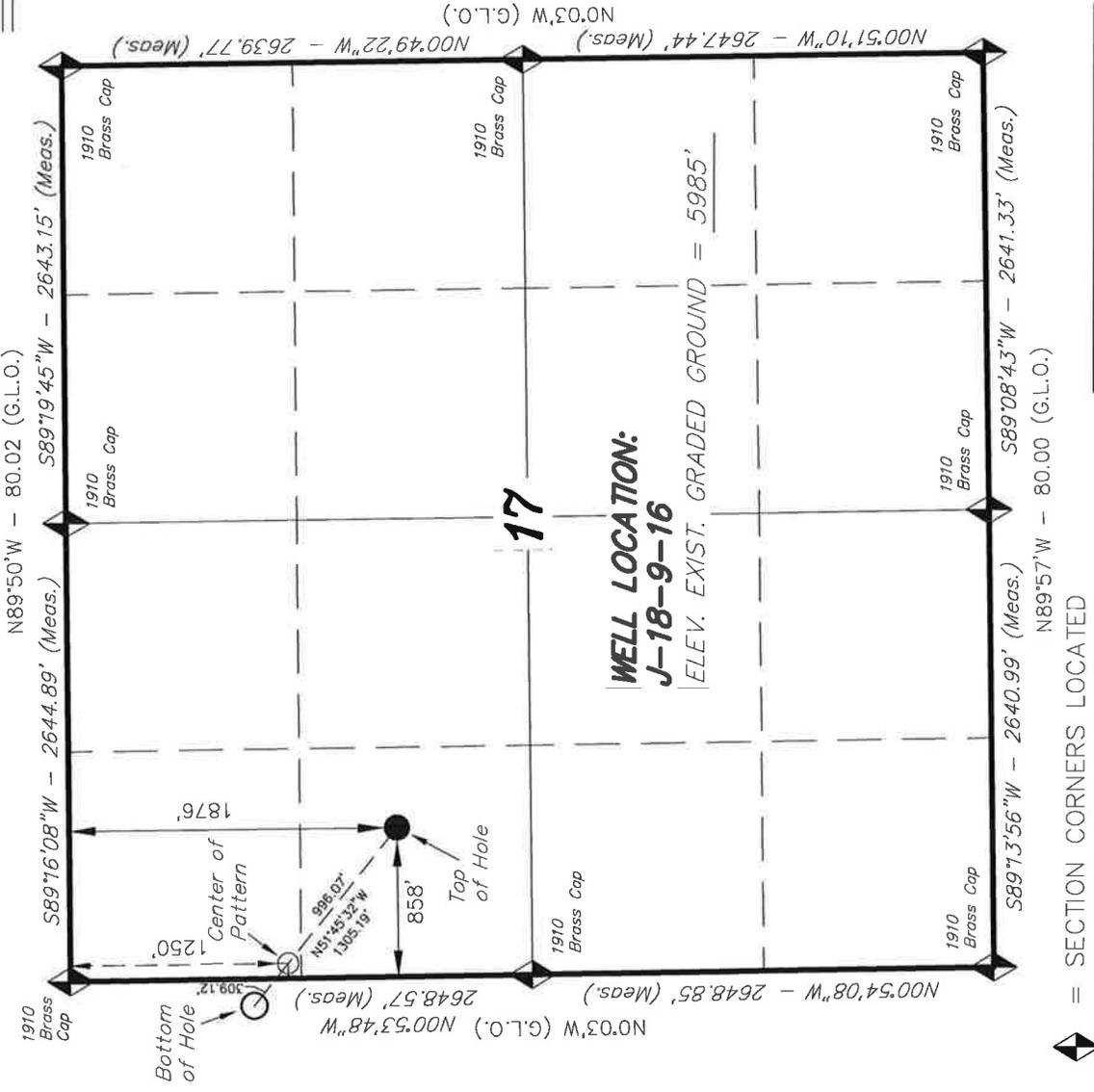
**Additional Operator Remarks:**

SURFACE LEASE: UTU-74390  
BOTTOM HOLE LEASE: UTU-74390

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

## NEWFIELD EXPLORATION COMPANY

WELL LOCATION, J-18-9-16, LOCATED AS SHOWN IN THE SW 1/4 NW 1/4 OF SECTION 17, T9S, R16E, S.L.B.&M. DUCHESNE COUNTY, UTAH.



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

**STACY W.**  
 REGISTERED LAND SURVEYOR  
 REGISTRATION NO. 11-04-11  
 No. 189377

**STATE OF UTAH**

**TRI STATE LAND SURVEYING & CONSULTING**  
 180 NORTH VERNAL AVE. - VERNAL, UTAH 84078  
 (435) 781-2501

DATE SURVEYED: 05-24-11	SURVEYED BY: D.G.	VERSION:
DATE DRAWN: 08-26-11	DRAWN BY: F.T.M.	V1
REVISED:	SCALE: 1" = 1000'	

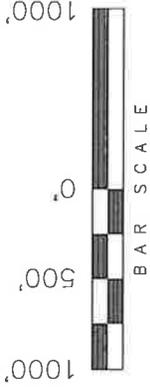
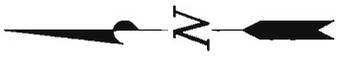
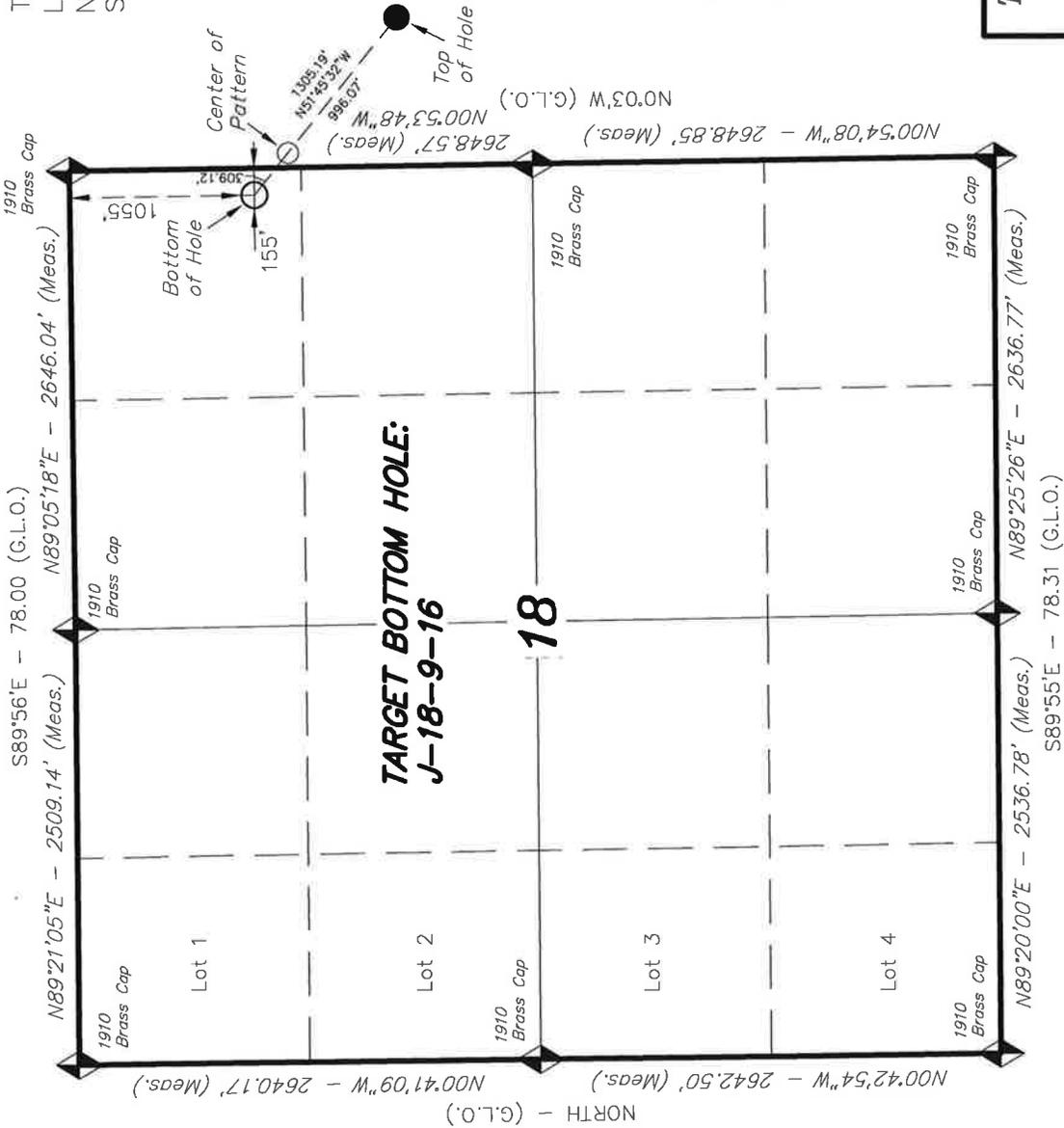
**J-18-9-16**  
 (Surface Location) **NAD 83**  
 LATITUDE = 40° 01' 58.85"  
 LONGITUDE = 110° 08' 58.44"

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

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

# NEWFIELD EXPLORATION COMPANY

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



**NOTES:**

1. Well footages are measured at right angles to the Section Lines.
2. Bearings are based on Global Positioning Satellite observations.
3. The Bottom of Hole footages are 1055' FNL & 155' FEL.

◆ = SECTION CORNERS LOCATED

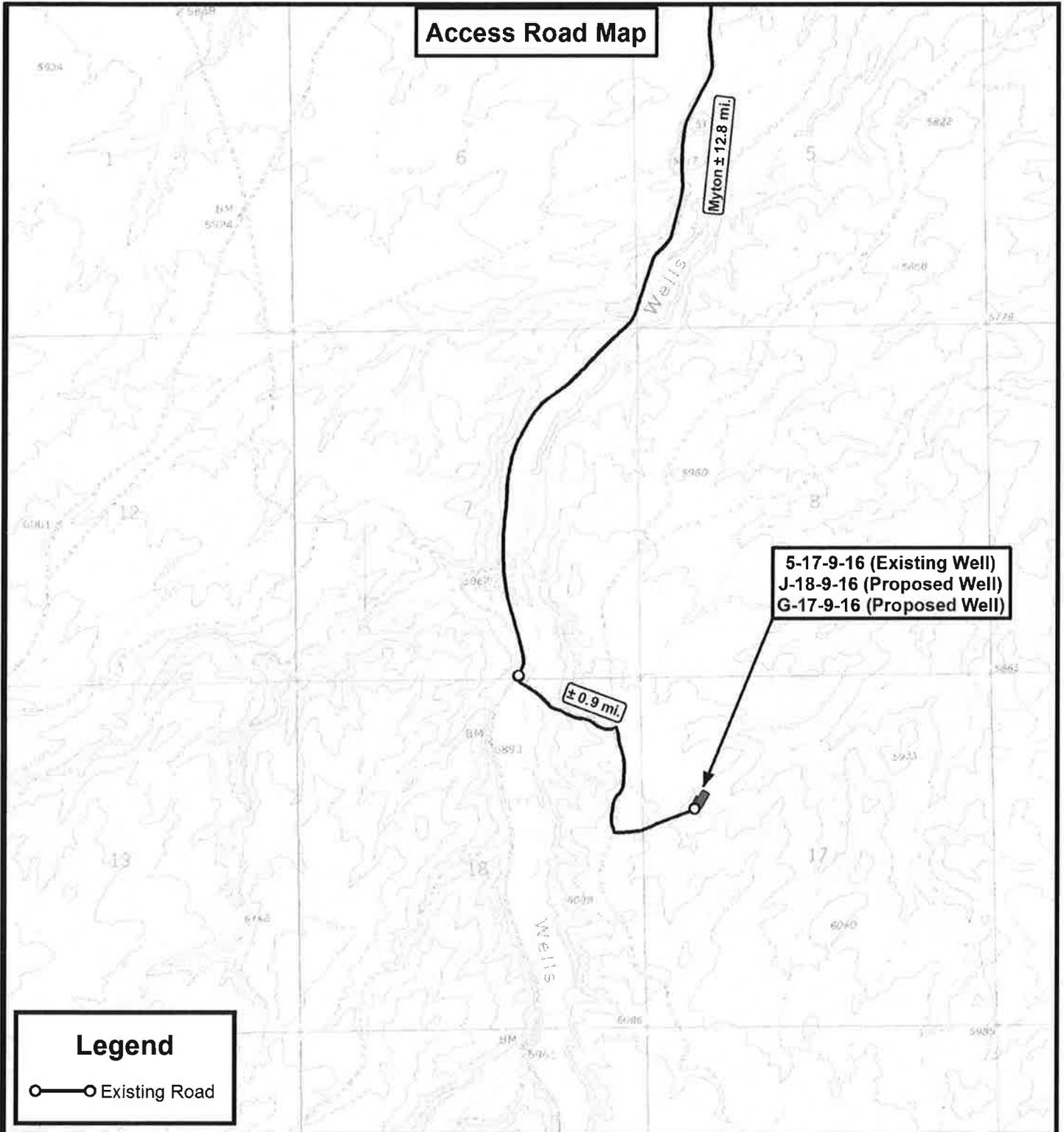
THIS IS TO CERTIFY THAT THE ABOVE REPORT WAS PREPARED FROM FIELD NOTES OF ACCURATE SURVEYS MADE BY ME OR UNDER MY SUPERVISION AND THAT THE SAME ARE TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.

  
 STACY W. STEWART  
 REGISTERED LAND SURVEYOR  
 STATE OF UTAH  
 LICENSE NO. 189377  
 11-04-11

**TRI STATE LAND SURVEYING & CONSULTING**  
 180 NORTH VERNAL AVE. - VERNAL, UTAH 84078  
 (435) 781-2501

DATE SURVEYED: 05-24-11	SURVEYED BY: D.G.	VERSION: V1
DATE DRAWN: 08-26-11	DRAWN BY: F.T.M.	
REVISED:	SCALE: 1" = 1000'	

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



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**  
 5-17-9-16 (Existing Well)  
 J-18-9-16 (Proposed Well)  
 G-17-9-16 (Proposed Well)  
 SEC. 17, T9S, R16E, S.L.B.&M. Duchesne County, UT.

DRAWN BY:	A.P.C.	REVISED:	VERSION:
DATE:	09-19-2011		V1
SCALE:	1" = 2,000'		

**TOPOGRAPHIC MAP** SHEET **B**

# United States Department of the Interior

## BUREAU OF LAND MANAGEMENT

Utah State Office

P.O. Box 45155

Salt Lake City, Utah 84145-0155

**IN REPLY REFER TO:****3160****(UT-922)**

January 12, 2012

## Memorandum

To: Assistant District Manager Minerals, Vernal District

From: Michael Coulthard, Petroleum Engineer

Subject: 2012 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 2012 within the Greater Monument Butte Unit, Duchesne and Uintah Counties, Utah.

API#	WELL NAME	LOCATION
(Proposed PZ GREEN RIVER)		
43-013-51164	GMBU I-9-9-16	Sec 09 T09S R16E 0709 FNL 0655 FEL
	BHL	Sec 09 T09S R16E 1483 FNL 1446 FEL
43-013-51165	GMBU F-10-9-16	Sec 09 T09S R16E 0688 FNL 0654 FEL
	BHL	Sec 10 T09S R16E 1446 FNL 0310 FWL
43-013-51166	GMBU H-10-9-16	Sec 10 T09S R16E 1775 FNL 2045 FEL
	BHL	Sec 10 T09S R16E 1164 FNL 2501 FWL
43-013-51167	GMBU I-10-9-16	Sec 10 T09S R16E 1755 FNL 2038 FEL
	BHL	Sec 10 T09S R16E 1212 FNL 1070 FEL
43-013-51168	GMBU G-17-9-16	Sec 17 T09S R16E 1897 FNL 0863 FWL
	BHL	Sec 17 T09S R16E 0969 FNL 1743 FWL
43-013-51169	GMBU J-18-9-16	Sec 17 T09S R16E 1876 FNL 0858 FWL
	BHL	Sec 18 T09S R16E 1055 FNL 0155 FEL
43-013-51170	GMBU G-18-9-16	Sec 18 T09S R16E 1948 FNL 1972 FWL
	BHL	Sec 18 T09S R16E 1261 FNL 0899 FWL
43-013-51171	GMBU H-18-9-16	Sec 18 T09S R16E 1937 FNL 1990 FWL
	BHL	Sec 18 T09S R16E 1117 FNL 2471 FEL
43-013-51173	GMBU L-9-9-16	Sec 09 T09S R16E 1817 FNL 0669 FEL
	BHL	Sec 09 T09S R16E 2848 FNL 1583 FEL

**RECEIVED:** January 12, 2012

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: 2012.01.12 14:21:34 -0700

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

MCoulthard:mc:1-12-12

## WORKSHEET APPLICATION FOR PERMIT TO DRILL

APD RECEIVED: 1/10/2012

API NO. ASSIGNED: 43013511690000

WELL NAME: GMBU J-18-9-16

OPERATOR: NEWFIELD PRODUCTION COMPANY (N2695)

PHONE NUMBER: 435 646-4825

CONTACT: Mandie Crozier

PROPOSED LOCATION: SWNW 17 090S 160E

Permit Tech Review: 

SURFACE: 1876 FNL 0858 FWL

Engineering Review: 

BOTTOM: 1055 FNL 0155 FEL

Geology Review: 

COUNTY: DUCHESNE

LATITUDE: 40.03299

LONGITUDE: -110.14960

UTM SURF EASTINGS: 572555.00

NORTHINGS: 4431765.00

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 - bhll



GARY R. HERBERT  
*Governor*

GREGORY S. BELL  
*Lieutenant Governor*

## State of Utah

DEPARTMENT OF NATURAL RESOURCES

MICHAEL R. STYLER  
*Executive Director*

Division of Oil, Gas and Mining

JOHN R. BAZA  
*Division Director*

### Permit To Drill

\*\*\*\*\*

**Well Name:** GMBU J-18-9-16  
**API Well Number:** 43013511690000  
**Lease Number:** UTU-74390  
**Surface Owner:** FEDERAL  
**Approval Date:** 1/12/2012

**Issued to:**

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

**Authority:**

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

**Duration:**

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

**General:**

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

**Conditions of Approval:**

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

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

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

**Notification Requirements:**

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

- Within 24 hours following the spudding of the well contact Carol Daniels at 801-538-5284

API Well No: 43013511690000

(please leave a voicemail message if not available)

OR

submit an electronic sundry notice (pre-registration required) via the Utah Oil & Gas website

at <http://oilgas.ogm.utah.gov>

**Reporting Requirements:**

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

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

**Approved By:**

A handwritten signature in black ink, appearing to read "John Rogers", written over a faint, illegible stamp or background.

For John Rogers  
Associate Director, Oil & Gas

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

RECEIVED

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

JAN 12 2012

APPLICATION FOR PERMIT TO DRILL OR REENTER

BLM

1a. Type of Work: <input checked="" type="checkbox"/> DRILL <input type="checkbox"/> REENTER		5. Lease Serial No. UTU74390
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
2. Name of Operator NEWFIELD PRODUCTION COMPANY Contact: MANDIE CROZIER Email: mcrozier@newfield.com		7. If Unit or CA Agreement, Name and No. GREATER MONUMENT
3a. Address ROUTE #3 BOX 3630 MYTON, UT 84052		8. Lease Name and Well No. GMBU J-18-9-16
3b. Phone No. (include area code) Ph: 435-646-4825 Fx: 435-646-3031		9. API Well No. 43-013-51169
4. Location of Well (Report location clearly and in accordance with any State requirements. *) At surface SWNW 1876FNL 858FWL At proposed prod. zone NENE 1055FNL 155FEL		10. Field and Pool, or Exploratory MONUMENT BUTTE
14. Distance in miles and direction from nearest town or post office* 13.7		11. Sec., T., R., M., or Blk. and Survey or Area Sec 17 T9S R16E Mer SLB
15. Distance from proposed location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any) 1585'	16. No. of Acres in Lease 2037.20	12. County or Parish DUCHESNE
18. Distance from proposed location to nearest well, drilling, completed, applied for, on this lease, ft. 827'	19. Proposed Depth 6441 MD 6285 TVD	13. State UT
21. Elevations (Show whether DF, KB, RT, GL, etc.) 5985 GL	22. Approximate date work will start 03/31/2012	17. Spacing Unit dedicated to this well 20.00
		20. BLM/BIA Bond No. on file WYB000493
		23. Estimated duration 7 DAYS

24. Attachments

The following, completed in accordance with the requirements of Onshore Oil and Gas Order No. 1, shall 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 shall 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 authorized officer.

25. Signature (Electronic Submission)	Name (Printed/Typed) MANDIE CROZIER Ph: 435-646-4825	Date 01/11/2012
Title REGULATORY ANALYST		
Approved by (Signature) 	Name (Printed/Typed) Jerry Kenczka	Date JUN 28 2012
Title Assistant Field Manager Lands & Mineral Resources	Office VERNAL FIELD OFFICE	

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

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

Additional Operator Remarks (see next page)

Electronic Submission #127882 verified by the BLM Well Information System  
For NEWFIELD PRODUCTION COMPANY, sent to the Vernal  
Committed to AFMSS for processing by LESLIE ROBINSON on 02/01/2012 ()

NOTICE OF APPROVAL

RECEIVED

1 2012

DIV. OF OIL, GAS & MINING

UDOGM

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

17CVC0258AS  
114-111011



**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 J-18-9-16  
**API No:** 43-013-51169

**Location:** SWNW, Sec. 17, T9S, R16E  
**Lease No:** UTU-74390  
**Agreement:** Greater Monument Butte (GR)

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

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

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

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

**NOTIFICATION REQUIREMENTS**

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

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

- All new and replacement internal combustion gas field engines of less than or equal to 300 design-rated horsepower must not emit more than 2 gms of NO<sub>x</sub> per horsepower-hour. This requirement does not apply to gas field engines of less than or equal to 40 design-rated horsepower.
- All and replacement internal combustion gas field engines of greater than 300 design rated horsepower must not emit more than 1.0 gms of NO<sub>x</sub> per horsepower-hour.
- If there is an active Gilsonite mining operation within 2 miles of the well location, operator shall notify the Gilsonite operator at least 48 hours prior to any blasting during construction.
- If paleontological materials are uncovered during construction, the operator is to immediately stop work and contact the Authorized Officer (AO). A determination will be made by the AO as to what mitigation may be necessary for the discovered paleontologic material before construction can continue.

**Wildlife**

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

- WFM-1 On level or gently sloping ground (5 percent slope or less) Newfield will elevate surface pipelines (4 inches or greater in diameter) a minimum of 6 inches above the ground to allow passage of small animals beneath the pipe. This ground clearance will be achieved by placing the pipeline on blocks at intervals of 150 to 200 feet.
- WFM-4 Newfield will install noise reduction devices on all pump jacks to reduce intermittent noise to 45 dBA at 660 feet from the source.

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

- The proposed project is within **mountain plover habitat**. In order to ensure habitat will be maintained, Newfield must use the following seed mix for all reclamation:

<b>Common Name</b>	<b>Latin Name</b>	<b>Pure Live Seed (Lbs./Acre)</b>	<b>Limitations</b>
<i>Blue grama</i>	<i>Bouteloua gracilis</i>	0.25	Over 10" precipitation
<i>Squirreltail grass</i>	<i>Elymus elymoides</i>	2.0	
<i>Galleta grass</i>	<i>Pleuraphis jamesii</i>	1.0	Utah seed only
<i>Indian ricegrass</i>	<i>Achnatherum hymenoides</i>	2.0	
<i>Shadscale saltbush</i>	<i>Atriplex confertifolia</i>	2.0	
<i>Mat Saltbrush</i>	<i>Atriplex corrugata</i>	2.0	Clay soils only
<i>Gardner's saltbush</i>	<i>Atriplex gardneri</i>	2.0	
<i>Fringed sagebrush</i>	<i>Artemisia frigida</i>	1.0	
<i>Black sagebrush</i>	<i>Artemisia nova</i>	0.25	Shallow soils only less than 24"
<i>Scarlet globemallow</i>	<i>Sphaeralcea coccinea</i>	0.25	

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

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

### **Air Quality**

- All internal combustion equipment will be kept in good working order.
- Water or other approved dust suppressants will be used at construction sites and along roads, as determined appropriate by the Authorized Officer. Dust suppressant such as magnesium chloride or fresh water may be used, as needed, during the drilling phase.
- Open burning of garbage or refuse will not occur at well sites or other facilities.
- Drill rigs will be equipped with Tier II or better diesel engines.
- Low bleed pneumatics will be installed on separator dump valves and other controllers.
- During completion, no venting will occur, and flaring will be limited as much as possible. Production equipment and gathering lines will be installed as soon as possible.
- Telemetry will be installed to remotely monitor and control production.
- Signs will be installed on the access road, reducing speed to 25 MPH, during the drilling phase.
- When feasible, two or more rigs (including drilling and completion rigs) will not be run simultaneously within 200 meters of each other. If two or more rigs must be run simultaneously

within 200 meters of each other, then effective public health buffer zones out to 200 meters (m) from the nearest emission source will be implemented. Examples of an effective public health protection buffer zone include the demarcation of a public access exclusion zone by signage at intervals of every 250 feet that is visible from a distance of 125 feet during daylight hours, and a physical buffer such as active surveillance to ensure the property is not accessible by the public during drilling operations. Alternatively, the proponent may demonstrate compliance with the 1-hour NO<sub>2</sub> National Ambient Air Quality Standards (NAAQS) with appropriate and accepted near-field modeling. As part of this demonstration, the proponent may propose alternative mitigation that could include but is not limited to natural gas-fired drill rigs, installation of NO<sub>x</sub> controls, time/use restrictions, and/or drill rig spacing.

- 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 grams of NO<sub>x</sub> per horsepower-hour. This requirement does not apply to gas field engines of less than or equal to 40 design-rated horsepower-hour.
- All new and replacement internal combustion gas field engines of greater than 300 design rated horsepower must not emit more than 1.0 grams of NO<sub>x</sub> per horsepower-hour.
- Green completions will be used for all well completion activities where technically feasible.
- Employ enhanced VOC emission controls with 95% control efficiency on production equipment having a potential to emit greater than 5 tons per year.

### **Soils/Vegetation/Noxious Weeds**

- 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 rip rap or 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.

### **S.O.P.s**

- 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.
- All operator employees and/or authorized personnel (sub-contractors) in the field will have approved applicable APD's, ROW, COAs permits/authorizations on their person(s) during all phases of construction.

## **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 and the Green River District Reclamation Guidelines (2011). Reclamation success will be determined in accordance with the 2011 Guidelines.

## **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).
- Prior to beginning new surface disturbance, the operator shall submit a Sundry Notice (Form 3160-5) to the BLM Authorized Officer (AO) providing the results of the noxious weed inventory described in the *Green River District Reclamation Guidelines* (2011). If weeds are found the report shall include 1) A GPS location recorded in North American Datum 1983; 2) species; 3) canopy cover or number of plants; 4) and size of infestation (estimate square feet or acres. Information shall be also documented in the reclamation report.

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

**SITE SPECIFIC DOWNHOLE COAs:**

- Production casing cement shall be brought up and into the surface.
- Surface casing cement shall be brought to surface.

**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 BLM\_UT\_VN\_Welllogs@BLM.gov. This submission will supersede the requirement for submittal of paper logs to the BLM.**
- There shall be no deviation from the proposed drilling, completion, and/or workover program as approved. Safe drilling and operating practices must be observed. Any changes in operation must have prior approval from the BLM Vernal Field Office.

## OPERATING REQUIREMENT REMINDERS:

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

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

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

BLM - Vernal Field Office - Notification Form

Operator Newfield Exploration Rig Name/# Ross 29 Submitted By  
Branden Arnold Phone Number 435-401-0223  
Well Name/Number GMBU J-18-9-16  
Qtr/Qtr SW/NW Section 17 Township 9S Range 16E  
Lease Serial Number UTU-74390  
API Number 43-013-51169

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

Date/Time 10/11/12 8:00 AM  PM

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

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

Date/Time 10/11/12 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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STATE OF UTAH  
 DIVISION OF OIL, GAS AND MINING  
 ENTITY ACTION FORM -FORM 6

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

OPERATOR ACCT. NO. **N2695**

ACTION CODE	CURRENT ENTITY NO.	NEW ENTITY NO.	API NUMBER	WELL NAME	WELL LOCATION				SPUD DATE	EFFECTIVE DATE	
					QQ	SC	TP	RG			COUNTY
B	99999	17400	4304752407	GMBU K-11-9-17	SWNW	12	9S	17E	UINTAH	10/12/2012	10/31/12
WELL 1 COMMENTS: <i>GRRV BHL: S11 Nese</i> Surface well location is 9S-17E											
A	99999	18780	4301351509	LUSTY 2-11-3-3WH	<i>none</i>	11	3S	3W	DUCHESNE	9/25/2012	10/31/12
<i>GRRV BHL: SWSW</i> <b>CONFIDENTIAL</b>											
B	99999	17400	4301351169	GMBU J-18-9-16	SWNW	17	9S	16E	DUCHESNE	10/11/2012	10/31/12
<i>GRRV BHL: S18 none</i>											
B	99999	17400	4304752408	GMBU N-12-9-17	SWNW	12	9S	17E	UINTAH	10/13/2012	10/31/12
<i>GRRV BHL: NWSW</i>											
B	99999	17400	4301351247	GMBU X-9-9-17	NENW	16	9S	17E	DUCHESNE	10/16/2012	10/31/12
Surface well location is 16-9S-17E											
A	99999	18781	4301351542	UTE TRIBAL 7-12-3-4W	SWNE	12	3S	4W	DUCHESNE	10/22/2012	10/31/12
<i>WSTC</i> <b>CONFIDENTIAL</b>											

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

RECEIVED  
 OCT 30 2012

*Tasha Robison*  
 Signature

Tasha Robison

Production Clerk

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

Div. of Oil, Gas & Mining

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

RECEIVED

APR 17 2013

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

WELL COMPLETION OR RECOMPLETION REPORT AND LOG DIVISION OF OIL, GAS & MINING

5. Lease Serial No.  
UTU-74390

6. If Indian, Allottee or Tribe Name

7. Unit or CA Agreement Name and No.  
GMBU (GRRV)

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

9. AFI Well No.  
43-013-51169

10. Field and Pool or Exploratory  
MONUMENT BUTTE

11. Sec., T., R., M., on Block and  
Survey or Area  
SEC. 17, T9S, R16E

12. County or Parish  
DUCHESNE

13. State  
UT

14. Date Spudded  
10/11/2012

15. Date T.D. Reached  
10/30/2012

16. Date Completed  
02/01/2013  
 D & A  Ready to Prod.

17. Elevations (DF, RKB, RT, GL)\*  
5985' GL 5995' KB

18. Total Depth: MD 6304'  
TVD 6161'

19. Plug Back T.D.: MD 6300'  
TVD 6157'

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	324'		160 CLASS G			
7-7/8"	5-1/2" J-55	15.5#	0	6343'		240 PRIMLITE		SURFACE	
						470 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@ 5827'	TA @ 5728'						

25. Producing Intervals

Formation	Top	Bottom	Perforated Interval	Size	No. Holes	Perf. Status
A) Green River	4731' MD	5770' MD	4731-5770' MD	0.34"	51	
B)						
C)						
D)						

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

Depth Interval	Amount and Type of Material
4731-5770' MD	Frac w/ 135739#s 20/40 white sand in 1589 bbls of Lightning 17 fluid, in 4 stages.

28. Production - Interval A

Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
2/1/13	2/11/13	24	→	8	6	116			2-1/2" x 1-3/4" x 20' x 21' x 24' RHAC Pump
Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas/Oil Ratio	Well Status	
			→					PRODUCING	

28a. Production - Interval B

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

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

28b. Production - Interval C

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

28c. Production - Interval D

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

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

USED FOR FUEL

30. Summary of Porous Zones (Include Aquifers):

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

31. Formation (Log) Markers

GEOLOGICAL MARKERS

Formation	Top	Bottom	Descriptions, Contents, etc.	Name	Top
					Meas. Depth
				GARDEN GULCH MRK GARDEN GULCH 1	3741' 3968'
				GARDEN GULCH 2 POINT 3	4076' 4335'
				X MRKR Y MRKR	4604' 4638'
				DOUGLAS CREEK MRK BI CARBONATE MRK	4754' 4987'
				B LIMESTONE MRK CASTLE PEAK	5088' 5678'
				BASAL CARBONATE WASATCH	6144' 6272'

32. Additional remarks (include plugging procedure):

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

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

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

Name (please print) Jennifer Peatross Title Production Technician  
 Signature  Date 03/05/2013

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 17 T9, R16**

**J-18-9-16**

**Wellbore #1**

**Design: Actual**

## **Standard Survey Report**

**24 January, 2013**





# Payzone Directional Survey Report



<b>Company:</b>	NEWFIELD EXPLORATION	<b>Local Co-ordinate Reference:</b>	Well J-18-9-16
<b>Project:</b>	USGS Myton SW (UT)	<b>TVD Reference:</b>	J-18-9-16 @ 5997.0ft (NDSI SS #1)
<b>Site:</b>	SECTION 17 T9, R16	<b>MD Reference:</b>	J-18-9-16 @ 5997.0ft (NDSI SS #1)
<b>Well:</b>	J-18-9-16	<b>North Reference:</b>	True
<b>Wellbore:</b>	Wellbore #1	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Design:</b>	Actual	<b>Database:</b>	EDM 2003.21 Single User Db

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

<b>Site</b>	SECTION 17 T9, R16				
<b>Site Position:</b>		<b>Northing:</b>	7,185,000.00 ft	<b>Latitude:</b>	40° 2' 12.729 N
<b>From:</b>	Map	<b>Easting:</b>	2,018,000.00 ft	<b>Longitude:</b>	110° 9' 4.925 W
<b>Position Uncertainty:</b>	0.0 ft	<b>Slot Radius:</b>	"	<b>Grid Convergence:</b>	0.86 °

<b>Well</b>	J-18-9-16, SHL LAT: 40 01 58.85 LONG: -110 08 58.44					
<b>Well Position</b>	<b>+N/-S</b>	0.0 ft	<b>Northing:</b>	7,183,603.45 ft	<b>Latitude:</b>	40° 1' 58.850 N
	<b>+E/-W</b>	0.0 ft	<b>Easting:</b>	2,018,525.50 ft	<b>Longitude:</b>	110° 8' 58.440 W
<b>Position Uncertainty</b>		0.0 ft	<b>Wellhead Elevation:</b>	5,997.0 ft	<b>Ground Level:</b>	5,985.0 ft

<b>Wellbore</b>	Wellbore #1				
<b>Magnetics</b>	<b>Model Name</b>	<b>Sample Date</b>	<b>Declination (°)</b>	<b>Dip Angle (°)</b>	<b>Field Strength (nT)</b>
	IGRF2010	8/29/2011	11.32	65.76	52,227

<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	308.24	

<b>Survey Program</b>	<b>Date</b>	1/24/2013			
<b>From (ft)</b>	<b>To (ft)</b>	<b>Survey (Wellbore)</b>	<b>Tool Name</b>	<b>Description</b>	
346.0	6,304.0	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
346.0	0.20	358.20	346.0	0.6	0.0	0.4	0.06	0.06	0.00
376.0	0.50	222.80	376.0	0.6	-0.1	0.4	2.19	1.00	-451.33
406.0	1.00	270.20	406.0	0.5	-0.5	0.6	2.52	1.67	158.00
437.0	1.30	271.00	437.0	0.5	-1.1	1.1	0.97	0.97	2.58
468.0	1.60	277.20	468.0	0.5	-1.9	1.8	1.09	0.97	20.00
498.0	2.00	281.80	498.0	0.7	-2.8	2.6	1.42	1.33	15.33
529.0	2.30	281.60	528.9	0.9	-3.9	3.7	0.97	0.97	-0.65
559.0	2.70	283.50	558.9	1.2	-5.2	4.8	1.36	1.33	6.33
589.0	3.00	278.40	588.9	1.5	-6.7	6.2	1.31	1.00	-17.00
620.0	3.60	280.00	619.8	1.8	-8.4	7.7	1.96	1.94	5.16
651.0	3.80	281.00	650.8	2.1	-10.4	9.5	0.68	0.65	3.23
681.0	4.10	279.90	680.7	2.5	-12.4	11.3	1.03	1.00	-3.67



# Payzone Directional Survey Report



**Company:** NEWFIELD EXPLORATION  
**Project:** USGS Myton SW (UT)  
**Site:** SECTION 17 T9, R16  
**Well:** J-18-9-16  
**Wellbore:** Wellbore #1  
**Design:** Actual

**Local Co-ordinate Reference:** Well J-18-9-16  
**TVD Reference:** J-18-9-16 @ 5997.0ft (NDSI SS #1)  
**MD Reference:** J-18-9-16 @ 5997.0ft (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)
711.0	4.40	285.40	710.6	3.0	-14.6	13.3	1.69	1.00	18.33
742.0	4.40	288.60	741.5	3.7	-16.9	15.5	0.79	0.00	10.32
773.0	4.70	285.60	772.4	4.4	-19.2	17.8	1.23	0.97	-9.68
803.0	5.20	285.20	802.3	5.1	-21.7	20.2	1.67	1.67	-1.33
833.0	5.60	284.30	832.2	5.8	-24.4	22.8	1.36	1.33	-3.00
864.0	6.10	286.10	863.0	6.7	-27.5	25.7	1.72	1.61	5.81
894.0	6.50	289.10	892.8	7.7	-30.6	28.8	1.73	1.33	10.00
925.0	6.70	294.20	923.6	9.0	-33.9	32.2	2.00	0.65	16.45
955.0	7.40	296.50	953.4	10.6	-37.3	35.8	2.52	2.33	7.67
985.0	8.10	298.00	983.1	12.4	-40.9	39.8	2.43	2.33	5.00
1,016.0	8.80	302.50	1,013.8	14.7	-44.8	44.3	3.10	2.26	14.52
1,046.0	9.60	304.00	1,043.4	17.3	-48.8	49.1	2.78	2.67	5.00
1,076.0	10.50	305.00	1,072.9	20.3	-53.1	54.3	3.06	3.00	3.33
1,107.0	11.20	306.90	1,103.4	23.7	-57.8	60.1	2.54	2.26	6.13
1,137.0	11.70	306.90	1,132.8	27.3	-62.6	66.1	1.67	1.67	0.00
1,181.0	12.30	306.80	1,175.8	32.8	-69.9	75.2	1.36	1.36	-0.23
1,227.0	12.30	306.30	1,220.8	38.6	-77.8	85.0	0.23	0.00	-1.09
1,273.0	12.20	305.20	1,265.7	44.3	-85.7	94.8	0.55	-0.22	-2.39
1,317.0	12.30	305.80	1,308.7	49.8	-93.3	104.1	0.37	0.23	1.36
1,363.0	12.60	307.20	1,353.6	55.7	-101.3	114.0	0.93	0.65	3.04
1,406.0	12.70	310.50	1,395.6	61.6	-108.6	123.4	1.70	0.23	7.67
1,450.0	13.10	309.20	1,438.5	67.9	-116.1	133.2	1.12	0.91	-2.95
1,494.0	13.80	309.80	1,481.3	74.4	-124.0	143.5	1.62	1.59	1.36
1,540.0	14.10	310.20	1,525.9	81.5	-132.5	154.5	0.69	0.65	0.87
1,585.0	14.20	311.20	1,569.6	88.7	-140.9	165.5	0.59	0.22	2.22
1,629.0	13.90	311.50	1,612.2	95.7	-148.9	176.2	0.70	-0.68	0.68
1,675.0	13.70	310.60	1,656.9	102.9	-157.2	187.2	0.64	-0.43	-1.96
1,719.0	13.50	308.50	1,699.7	109.5	-165.1	197.5	1.21	-0.45	-4.77
1,763.0	13.20	306.90	1,742.5	115.7	-173.2	207.7	1.08	-0.68	-3.64
1,809.0	12.90	309.80	1,787.3	122.2	-181.3	218.0	1.57	-0.65	6.30
1,854.0	13.10	312.40	1,831.2	128.8	-189.0	228.1	1.37	0.44	5.78
1,900.0	13.00	311.10	1,876.0	135.7	-196.7	238.5	0.67	-0.22	-2.83
1,946.0	12.80	307.90	1,920.8	142.3	-204.6	248.8	1.61	-0.43	-6.96
1,992.0	13.00	309.80	1,965.6	148.7	-212.6	259.0	1.02	0.43	4.13
2,038.0	13.60	310.90	2,010.4	155.6	-220.7	269.6	1.42	1.30	2.39
2,083.0	14.10	311.30	2,054.1	162.6	-228.8	280.4	1.13	1.11	0.89
2,129.0	14.30	308.40	2,098.7	169.9	-237.5	291.7	1.61	0.43	-6.30
2,173.0	14.50	308.90	2,141.3	176.7	-246.0	302.6	0.54	0.45	1.14
2,219.0	14.90	310.20	2,185.8	184.1	-255.0	314.3	1.13	0.87	2.83
2,264.0	15.40	309.30	2,229.2	191.7	-264.0	326.0	1.23	1.11	-2.00
2,310.0	15.50	310.80	2,273.6	199.5	-273.4	338.3	0.90	0.22	3.26
2,354.0	15.00	308.30	2,316.0	206.9	-282.3	349.8	1.88	-1.14	-5.68
2,398.0	15.30	309.30	2,358.5	214.1	-291.3	361.3	0.90	0.68	2.27
2,444.0	15.20	308.40	2,402.9	221.7	-300.7	373.4	0.56	-0.22	-1.96
2,489.0	14.40	306.60	2,446.4	228.7	-309.8	384.9	2.05	-1.78	-4.00
2,533.0	13.90	306.80	2,489.1	235.1	-318.5	395.7	1.14	-1.14	0.45
2,577.0	13.50	304.10	2,531.8	241.2	-327.0	406.1	1.71	-0.91	-6.14
2,621.0	13.30	304.60	2,574.6	246.9	-335.4	416.3	0.53	-0.45	1.14
2,665.0	13.00	304.20	2,617.5	252.6	-343.6	426.2	0.71	-0.68	-0.91
2,709.0	13.40	305.80	2,660.3	258.4	-351.9	436.3	1.23	0.91	3.64
2,756.0	13.30	306.90	2,706.0	264.8	-360.6	447.1	0.58	-0.21	2.34
2,802.0	13.10	307.00	2,750.8	271.1	-369.0	457.6	0.44	-0.43	0.22
2,846.0	13.50	308.40	2,793.6	277.3	-377.0	467.7	1.17	0.91	3.18
2,890.0	13.70	308.60	2,836.4	283.7	-385.1	478.1	0.47	0.45	0.45



# Payzone Directional Survey Report



**Company:** NEWFIELD EXPLORATION  
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**Site:** SECTION 17 T9, R16  
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**Wellbore:** Wellbore #1  
**Design:** Actual

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**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)
2,935.0	13.50	309.80	2,880.1	290.4	-393.3	488.7	0.77	-0.44	2.67
2,979.0	13.00	309.10	2,923.0	296.8	-401.1	498.8	1.19	-1.14	-1.59
3,023.0	13.00	309.10	2,965.8	303.1	-408.8	508.6	0.00	0.00	0.00
3,069.0	13.20	310.40	3,010.6	309.7	-416.8	519.1	0.77	0.43	2.83
3,113.0	13.10	309.90	3,053.5	316.2	-424.4	529.1	0.34	-0.23	-1.14
3,159.0	12.90	306.50	3,098.3	322.6	-432.6	539.4	1.72	-0.43	-7.39
3,204.0	13.00	307.00	3,142.2	328.6	-440.6	549.5	0.33	0.22	1.11
3,249.0	13.80	309.00	3,185.9	335.1	-448.9	559.9	2.05	1.78	4.44
3,294.0	14.20	309.60	3,229.6	341.9	-457.3	570.8	0.95	0.89	1.33
3,340.0	14.30	311.80	3,274.2	349.3	-465.9	582.1	1.20	0.22	4.78
3,386.0	14.80	310.80	3,318.7	357.0	-474.5	593.7	1.22	1.09	-2.17
3,430.0	14.81	310.32	3,361.2	364.3	-483.1	604.9	0.28	0.02	-1.09
3,475.0	14.80	311.29	3,404.7	371.8	-491.8	616.4	0.55	-0.02	2.16
3,521.0	14.50	309.00	3,449.3	379.3	-500.7	628.0	1.42	-0.65	-4.98
3,567.0	14.46	309.40	3,493.8	386.6	-509.6	639.5	0.23	-0.09	0.87
3,611.0	14.50	309.23	3,536.4	393.5	-518.1	650.5	0.13	0.09	-0.39
3,655.0	14.41	310.24	3,579.0	400.5	-526.5	661.5	0.61	-0.20	2.30
3,699.0	13.93	309.18	3,621.7	407.4	-534.8	672.3	1.24	-1.09	-2.41
3,745.0	13.00	306.20	3,666.4	414.0	-543.3	683.0	2.52	-2.02	-6.48
3,788.0	13.00	306.40	3,708.3	419.7	-551.1	692.6	0.10	0.00	0.47
3,832.0	13.40	306.50	3,751.1	425.7	-559.2	702.7	0.91	0.91	0.23
3,876.0	13.50	310.00	3,793.9	432.0	-567.2	712.9	1.86	0.23	7.95
3,920.0	13.45	313.50	3,836.7	438.8	-574.9	723.1	1.86	-0.11	7.95
3,965.0	13.60	314.70	3,880.5	446.2	-582.4	733.6	0.71	0.33	2.67
4,011.0	13.50	314.90	3,925.2	453.8	-590.1	744.3	0.24	-0.22	0.43
4,057.0	13.70	315.90	3,969.9	461.5	-597.7	755.0	0.67	0.43	2.17
4,101.0	14.00	317.40	4,012.6	469.1	-604.9	765.5	1.06	0.68	3.41
4,145.0	13.30	314.70	4,055.4	476.6	-612.1	775.7	2.15	-1.59	-6.14
4,191.0	12.40	314.20	4,100.2	483.8	-619.4	785.9	1.97	-1.96	-1.09
4,235.0	12.40	311.80	4,143.2	490.2	-626.3	795.3	1.17	0.00	-5.45
4,280.0	13.00	310.60	4,187.1	496.7	-633.7	805.2	1.46	1.33	-2.67
4,326.0	12.80	307.50	4,231.9	503.2	-641.7	815.5	1.57	-0.43	-6.74
4,372.0	13.00	308.00	4,276.8	509.5	-649.8	825.7	0.50	0.43	1.09
4,418.0	12.80	307.20	4,321.6	515.7	-658.0	836.0	0.58	-0.43	-1.74
4,462.0	13.50	306.90	4,364.5	521.8	-666.0	846.0	1.60	1.59	-0.68
4,506.0	13.20	309.20	4,407.3	528.0	-674.0	856.2	1.39	-0.68	5.23
4,549.0	13.10	308.50	4,449.1	534.2	-681.6	865.9	0.44	-0.23	-1.63
4,595.0	13.30	309.60	4,493.9	540.8	-689.7	876.5	0.70	0.43	2.39
4,641.0	13.00	308.10	4,538.7	547.3	-697.9	886.9	0.99	-0.65	-3.26
4,685.0	12.50	308.80	4,581.6	553.4	-705.5	896.6	1.19	-1.14	1.59
4,729.0	12.20	310.50	4,624.6	559.4	-712.7	906.0	1.07	-0.68	3.86
4,773.0	12.50	313.70	4,667.6	565.7	-719.7	915.4	1.70	0.68	7.27
4,818.0	12.70	311.60	4,711.5	572.3	-726.9	925.2	1.11	0.44	-4.67
4,862.0	12.50	312.00	4,754.5	578.7	-734.1	934.8	0.50	-0.45	0.91
4,906.0	12.50	312.20	4,797.4	585.1	-741.2	944.3	0.10	0.00	0.45
4,952.0	12.60	312.00	4,842.3	591.8	-748.6	954.3	0.24	0.22	-0.43
4,997.0	12.50	309.40	4,886.2	598.2	-756.0	964.0	1.27	-0.22	-5.78
5,043.0	12.40	309.10	4,931.2	604.5	-763.7	973.9	0.26	-0.22	-0.65
5,089.0	12.40	313.20	4,976.1	611.0	-771.1	983.8	1.91	0.00	8.91
5,133.0	12.40	310.50	5,019.1	617.3	-778.1	993.2	1.32	0.00	-6.14
5,163.8	12.54	309.78	5,049.1	621.6	-783.2	999.9	0.69	0.46	-2.34
<b>J-18-9-16 TGT</b>									
5,176.0	12.60	309.50	5,061.0	623.3	-785.3	1,002.5	0.69	0.47	-2.30
5,220.0	12.70	310.50	5,104.0	629.5	-792.6	1,012.2	0.55	0.23	2.27



# Payzone Directional

## Survey Report



Company: NEWFIELD EXPLORATION  
 Project: USGS Myton SW (UT)  
 Site: SECTION 17 T9, R16  
 Well: J-18-9-16  
 Wellbore: Wellbore #1  
 Design: Actual

Local Co-ordinate Reference: Well J-18-9-16  
 TVD Reference: J-18-9-16 @ 5997.0ft (NDSI SS #1)  
 MD Reference: J-18-9-16 @ 5997.0ft (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)
5,266.0	12.50	309.00	5,148.9	635.9	-800.4	1,022.2	0.83	-0.43	-3.26
5,310.0	12.80	308.20	5,191.8	641.9	-807.9	1,031.8	0.79	0.68	-1.82
5,354.0	14.00	308.60	5,234.6	648.2	-815.9	1,042.0	2.74	2.73	0.91
5,400.0	14.30	310.00	5,279.2	655.3	-824.6	1,053.3	0.99	0.65	3.04
5,446.0	14.50	310.80	5,323.8	662.8	-833.3	1,064.7	0.61	0.43	1.74
5,491.0	14.20	311.70	5,367.4	670.1	-841.7	1,075.8	0.83	-0.67	2.00
5,537.0	13.30	310.10	5,412.0	677.3	-849.9	1,086.8	2.12	-1.96	-3.48
5,583.0	12.30	311.20	5,456.9	683.9	-857.7	1,096.9	2.24	-2.17	2.39
5,629.0	11.70	310.90	5,501.9	690.2	-864.9	1,106.5	1.31	-1.30	-0.65
5,674.0	11.20	309.00	5,546.0	695.9	-871.7	1,115.4	1.39	-1.11	-4.22
5,720.0	11.10	307.20	5,591.1	701.4	-878.7	1,124.3	0.79	-0.22	-3.91
5,764.0	11.70	306.30	5,634.3	706.6	-885.7	1,133.0	1.42	1.36	-2.05
5,810.0	12.10	304.90	5,679.3	712.1	-893.4	1,142.5	1.07	0.87	-3.04
5,856.0	12.50	303.20	5,724.2	717.6	-901.5	1,152.3	1.17	0.87	-3.70
5,901.0	13.20	305.50	5,768.1	723.3	-909.8	1,162.2	1.93	1.56	5.11
5,947.0	13.00	303.70	5,812.9	729.2	-918.4	1,172.6	0.99	-0.43	-3.91
5,993.0	12.90	304.30	5,857.7	734.9	-926.9	1,182.9	0.36	-0.22	1.30
6,038.0	13.40	306.00	5,901.5	740.8	-935.3	1,193.1	1.40	1.11	3.78
6,085.0	13.20	305.60	5,947.3	747.2	-944.0	1,203.9	0.47	-0.43	-0.85
6,130.0	12.80	305.30	5,991.1	753.0	-952.3	1,214.1	0.90	-0.89	-0.67
6,176.0	12.60	302.90	6,036.0	758.7	-960.7	1,224.1	1.23	-0.43	-5.22
6,222.0	12.70	303.07	6,080.9	764.2	-969.1	1,234.2	0.23	0.22	0.37
6,266.0	12.50	303.12	6,123.8	769.4	-977.2	1,243.7	0.46	-0.45	0.11
6,304.0	11.10	301.33	6,161.0	773.6	-983.7	1,251.5	3.81	-3.68	-4.71

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

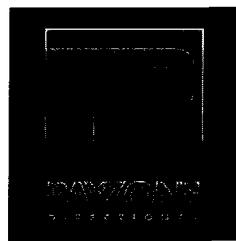
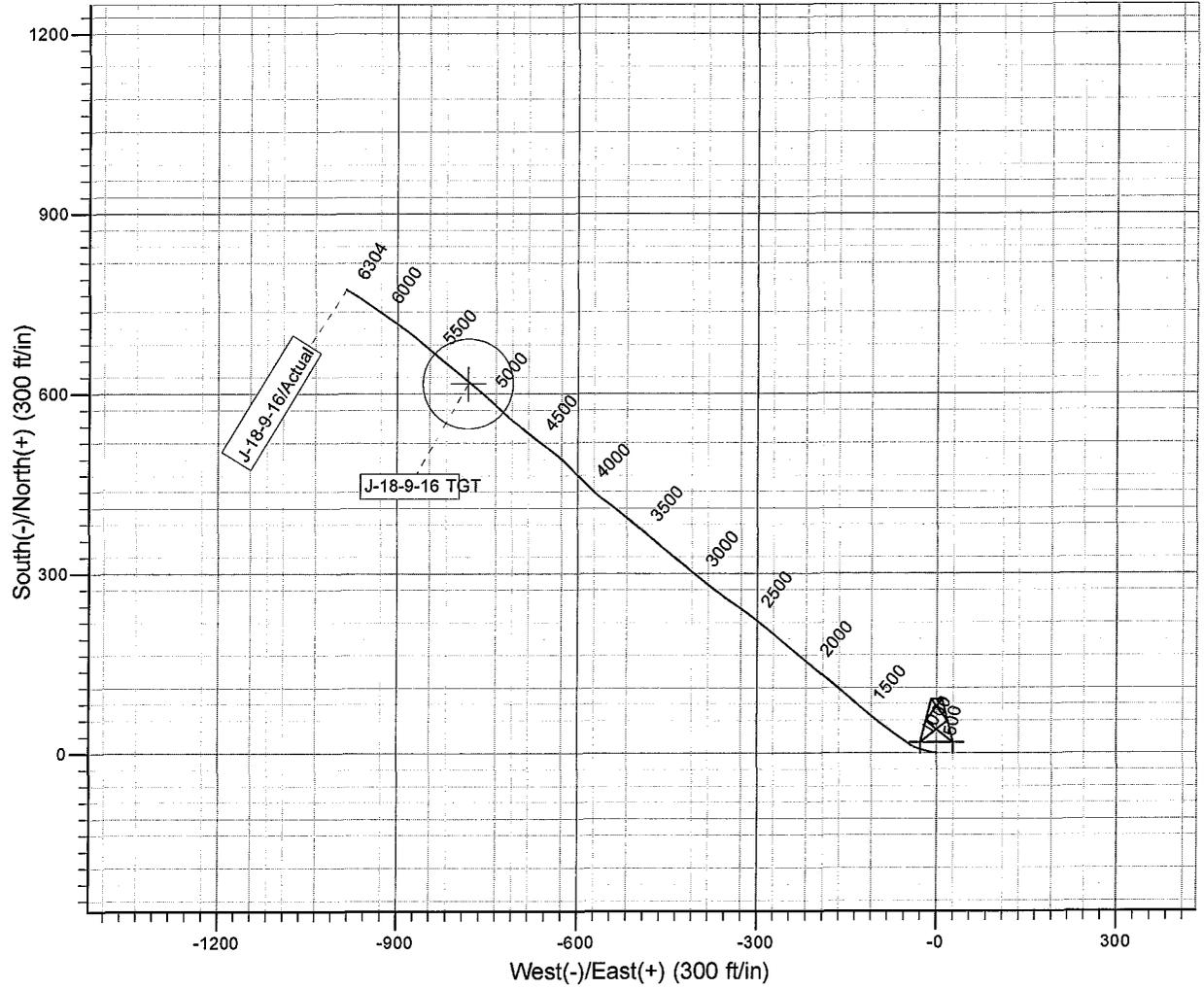
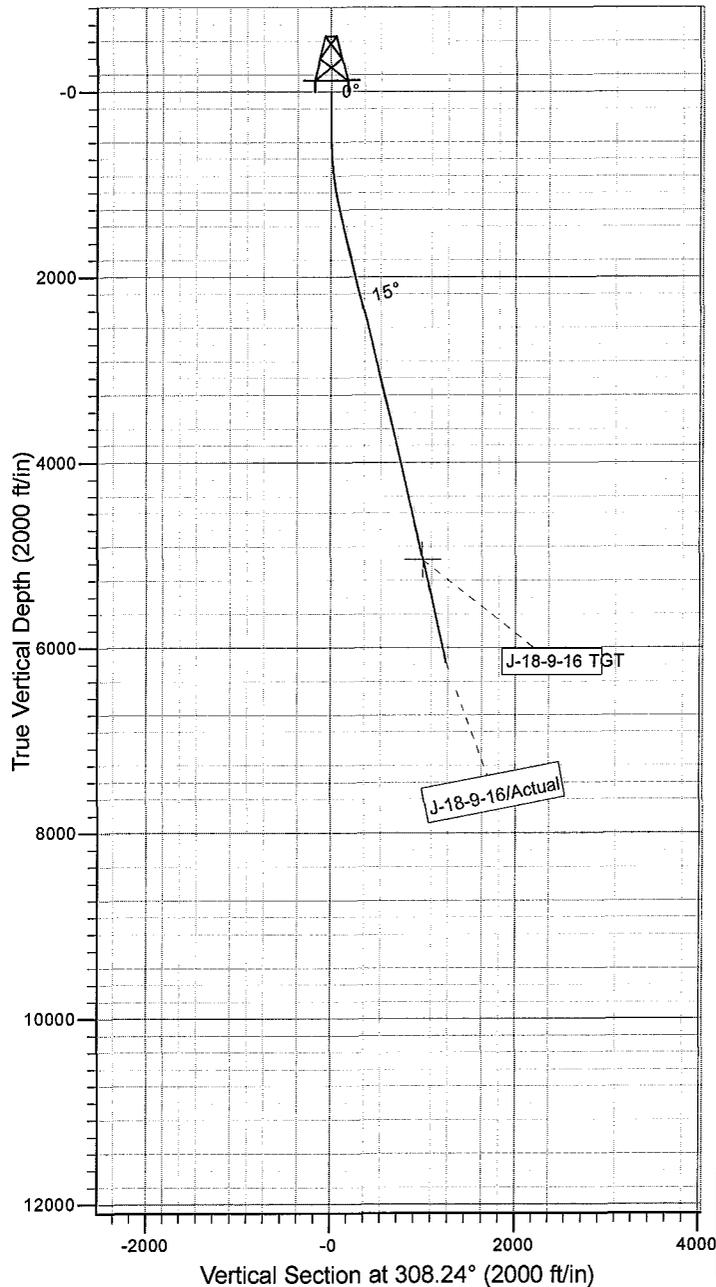
# NEWFIELD



Project: USGS Myton SW (UT)  
 Site: SECTION 17 T9, R16  
 Well: J-18-9-16  
 Wellbore: Wellbore #1  
 Design: Actual

Azimuths to True North  
 Magnetic North: 11.32°

Magnetic Field  
 Strength: 52227.4snT  
 Dip Angle: 65.76°  
 Date: 8/29/2011  
 Model: IGRF2010



Design: Actual (J-18-9-16/Wellbore #1)

Created By: Sarah Webb Date: 12:27, January 24 2013

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

# Daily Activity Report

Format For Sundry

GMBU J-18-9-16

11/1/2012 To 3/28/2013

**1/10/2013 Day: 1**

**Completion**

Rigless on 1/10/2013 - Run CBL, Press Test BOPs & Valves, Perforate 1st Stage - NU 7" 5K Cameron BOP & 7" FMC Frac Valve. RU Extreme WLT W/ Crane & run CBL.RU 4G Pressure Testers pressure test casing, blind rams, Frac, csg & casing valves to 275 psi low 4500 psi high WLTD @ 6258' & cement top @ Surface. Perforate stage #1, CP sds @ (5767-70') w/ 3 1/8" Disp CSG guns ( 16 gram .34" EH 20.00" pen w/120? phasing) W/ 3 spf for total of 9 shots. RD Extreme W/L Winterize W/H CWI. Wait on frac crew EWTR 137.2 BBLs

**Daily Cost:** \$0

**Cumulative Cost:** \$30,428

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**1/15/2013 Day: 2**

**Completion**

Rigless on 1/15/2013 - Frac 1st Stage & Perforate 2nd Stage - RU Extreme W/L Press Test Lube To 4500psi. Opne Well @1440psi. RIH W/ CFTP & 3-1/8" Csg Guns (3 SPF 120 degree phasing) Plug Would not Go Off POOH CWI - MIRU. Safety Meeting. JSA. Press test Lines.Open Well @ 0 psi Break down CP2 Formation (9 holes) @ 3802 psi pump 3.2 bbls fresh water @ 3.7 BPM. ISIP 2198 psi FG .82. 1 min 1420 psi, 4 min 1187 psi. Pump 6 bbls 15% HCL, 62 BBls to get rate & X link. Pump 15 BBls Pad, 63 BBls 1# to 5# 20/40 Sand (ramped) Pump 20 bbls 5# to 6# 20/40 Sand (ramped) 12 bbls 15% HCL. Pump 137.5 BBls Fresh water Flush. ISIP1869 psi. FG.76. 15,615# 20/40 Sand In Formation. 318 total bbls pumped. - RU Extreme W/L Press Test Lube To 4500psi. Opne Well @1440 psi. RIH W/ CFTP & 3-1/8" Csg Guns (3 SPF 120 degree phasing) Set CFTP @ 5430' & Perforate the LODC Formation @ 5356-60', (12 Holes) POOH CWI. RD W/L

**Daily Cost:** \$0

**Cumulative Cost:** \$56,928

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**1/16/2013 Day: 3**

**Completion**

Rigless on 1/16/2013 - Finish Frac & Flow Back Well Set KP @ 4630' - Open Well @ 1847 ps on 25/64 choke Flow back well @ 3 bpm Flowed back 450 BBls Trace off Oil CWI @ 3pm - RU Extreme Open Well @ 200 psi RIH W CBP Set CBP @ 4630' POOH. CWI RD W/L - 4th Stage. Safety Meeting. JSA. Pres Test to 5000 psi,Open Well @ 1700 psi Break Down D1 & DS3 Perfs (21 holes) @ 2101 psi W/ 4.5 bbls Fresh water, @ 4.4 BPM, Pump 27 BBls Fresh water To Get Rate & X link, Pump 15 bbls Pad, 123 BBls 1# to 3# 20/40 Sand (Ramped), 180 BBls 3# to 6# 20/40 Sand (ramped), 48 BBls 6# 20/40 Sand, 112.6 BBls 7% KCL Flush. ISIP 2246 psi, FG.91 Max Press 2703 psi, Avg Press 2257 psi, Max Rate 33 BPM, Avg Rate 27 BPM, 59,293# 20/40 White sand in Formation, 511 Total BBls Pumped ( Cut 20,000 sand because we ran out off water ) - 4th Stage RU Extreme WL. Press Test Lub. 4000psi. Open Well @ 1780 psi RIH W/ CFTP & 3-1/8 Csg Guns (3 spf ) set CFTP @ 4870'. Perforate the D1 & DS3 Formation @ 4796-00', 4737-39', 4731-32', ( 21 holes ) POOH. CWI. - 3rd Stage RU Extreme WL. Press Test Lub. 4000psi. Open Well @ 1913 psi RIH W/ CFTP & 3-1/8 Csg Guns (3 spf ) set CFTP @ 5260'. Perforate the A1 Formation @ 5181-83', 5177-78', ( 9 holes ) POOH. CWI. - 2nd Stage. Safety Meeting. JSA. Pres Test to 5000 psi,Open Well @ 548 psi Break Down LODC Perfs (12 holes) @ 2008 psi W/ 2.2 bbls Fresh water, @ 3.8 BPM, Pump 63 BBls Fresh water To Get Rate & X link, Pump 15 bbls Pad, 64 BBls 1# to 3# 20/40 Sand (Ramped), 129 BBls 3# to 6# 20/40 Sand (ramped), 35 BBls 6# 20/40 Sand, 12 bbls 15% HCL,127.5 BBls Fresh Water Flush. ISIP 2283 psi, FG.86 Max Press 2798 psi, Avg Press 2663 psi, Max Rate 26 BPM, Avg

Rate 23.4 BPM, 40,665# 20/40 White sand in Formation, 447 Total BBls Pumped - 3rd Stage. Safety Meeting. JSA. Pres Test to 5000 psi, Open Well @ 1830 psi Break Down A1 Perfs ( 9 holes) @ 3260 psi W/ 1.6 bbls Fresh water, @ 2.6 BPM, Pump 47 BBls Fresh water To Get Rate & X link, Pump 15 bbls Pad, 38 BBls 1# to 4# 20/40 Sand (Ramped), 76 BBls 3# to 6# 20/40 Sand (ramped), 12 bbls 15% HCL, 123.3 BBls Fresh Water Flush. ISIP 2482 psi, FG.92 Max Press 3400 psi, Avg Press 3043 psi, Max Rate 21.9 BPM, Avg Rate 20.5 BPM, 20,166# 20/40 White sand in Formation, 313 Total BBls Pumped

**Daily Cost:** \$0

**Cumulative Cost:** \$166,652

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**1/21/2013 Day: 5**

**Completion**

Nabors #1450 on 1/21/2013 - PU & TIH W/4-3/4" Button Bit & Tbg - POWER SWIVEL, PICKLE PUMP w/ BRINE, SWI S.D.F.N. - MOVE FROM SHOP TO GMBU J -18 -9-16 (22.5 MILES) - MOVE FROM SHOP TO GMBU J -18 -9-16 (22.5 MILES) - SPOT HEATER, R.U. TO THAW WELL, ASSIST IN SPOTTING PIPE RACKS, UNLOAD TBG, SIRUSU - SPOT HEATER, R.U. TO THAW WELL, ASSIST IN SPOTTING PIPE RACKS, UNLOAD TBG, SIRUSU - ND FRAC VALVE, N.U. DBL PIPE RAMS (KNIGHT) N.U. WASHINGTON HEAD - ND FRAC VALVE, N.U. DBL PIPE RAMS (KNIGHT) N.U. WASHINGTON HEAD - ND FRAC VALVE, N.U. DBL PIPE RAMS (KNIGHT) N.U. WASHINGTON HEAD - ND FRAC VALVE, N.U. DBL PIPE RAMS (KNIGHT) N.U. WASHINGTON HEAD - TIGHTEN UP BOP'S, R.U. WEATHERFORD TESTER, FIRST TEST FOR 5 MINUTES DEAD HEADED PRESSURE TESTING UNIT, SECOND TEST WAS A LOW TEST 260 PSI FOR 5 MINUTES TESTING UPPER PIPE RAMS, OUTER VALVE ON BOP, TIW VALVE, THEN TESTING THE SAME @ 5,000 PSI FOR 10 MINUTES, NEXT TEST WAS A LOW TEST OF THE LOWER PIPE RAMS 260 PSI FOR 5 MINUTES, THEN TESTING LOWER PIPE RAMS @ 5000 PSI FOR 10 MINUTES NEXT TEST WAS A LOW TEST OF THE INSIDE VALVE @ 280PSI FOR 5 MINUTES, THEN TESTING @ 5,000 FOR 10 MINUTES - TIGHTEN UP BOP'S, R.U. WEATHERFORD TESTER, FIRST TEST FOR 5 MINUTES DEAD HEADED PRESSURE TESTING UNIT, SECOND TEST WAS A LOW TEST 260 PSI FOR 5 MINUTES TESTING UPPER PIPE RAMS, OUTER VALVE ON BOP, TIW VALVE, THEN TESTING THE SAME @ 5,000 PSI FOR 10 MINUTES, NEXT TEST WAS A LOW TEST OF THE LOWER PIPE RAMS 260 PSI FOR 5 MINUTES, THEN TESTING LOWER PIPE RAMS @ 5000 PSI FOR 10 MINUTES NEXT TEST WAS A LOW TEST OF THE INSIDE VALVE @ 280PSI FOR 5 MINUTES, THEN TESTING @ 5,000 FOR 10 MINUTES - TRVL TIME, JSP MEETING - TRVL TIME, JSP MEETING - R.U. PUMP & UNTHAW AND R.U. P.U. LINE AND RAM, THAW WELL OUT, BLEED WELL OFF, PREP & TALLY TBG - R.U. PUMP & UNTHAW AND R.U. P.U. LINE AND RAM, THAW WELL OUT, BLEED WELL OFF, PREP & TALLY TBG - P.U. & M.U. 4 3/4" BUTTON MILL, BIT SUB, 1 JNT TBG, P S/N, 147 -JNTS 2 7/8" 6.5# J -55 TBG, CIRC OIL OUT OF TBG 4 TIMES DUE TO DISPLACEMENT - P.U. & M.U. 4 3/4" BUTTON MILL, BIT SUB, 1 JNT TBG, P S/N, 147 -JNTS 2 7/8" 6.5# J -55 TBG, CIRC OIL OUT OF TBG 4 TIMES DUE TO DISPLACEMENT - POWER SWIVEL, PICKLE PUMP w/ BRINE, SWI S.D.F.N.

**Daily Cost:** \$0

**Cumulative Cost:** \$217,079

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**1/22/2013 Day: 6**

**Completion**

Nabors #1450 on 1/22/2013 - Drill Plugs Clean Out Well - R.U. TO FLOW BACK TANK, BLEED DOWN, P.U. TBG, TAG 3rd CFP, (DRILL UP 12 min) P.U. TBG TAG 92' HIGH, SWIVEL DOWN, TAG 2nd CFP (DRILL UP 11min) SWIVEL DOWN, TAG 62' OF FILL, CLEAN OUT, TAG 1st CFP, (DRILL UP 14min) CIRC CLEAN, SWI AND WRAP WELL HEAD, PICKLE PUMP w/ BRINE, - R.U. NABORS SWIVEL, DRILL KILL PLUG, 14 MIN (1500 psi) FILL UP FLAT TANK WITH OIL TRYING TO LET WELL DIE DOWN - WAIT FOR DIFERENT SWIVEL, PERFORM RIG MAINTENANCE - R.U. PUMP LINE, MAKE UP SWIVEL ON JNT, SWIVEL MADE A GRINDING NOISE AND STALLED OUT, R.D. SWIVEL (BASIC) - Travel time / JSP MEETING - CIRC WELL

**Daily Cost:** \$0

**Cumulative Cost:** \$224,639

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**1/23/2013 Day: 7**

**Completion**

Nabors #1450 on 1/23/2013 - Clean out To PBTD. Trip Tbg. - M.U. & RIH w/ N/C, 2 -JNTS TBG, P S/N, 1 -JNT TBG, New 5 1/2" TAC, 18 JNTS TBG, CSG BEGAN TO FLOW, SWI, CIRC 5 BBLs OF H2O, CONT RIH w/ 78 -JNTS TBG, SWI, PICKLE BRINE, S.D.F.N. - CONT TO POOH w/ A TOTAL 183 -JNTS, PS/N 1 -JNT, BIT SUB, 4 3/4" CHOMP MILL, L.D. BHA - CIRC WELL TO KILL CSG - POOH w/ 110 -JNTS 2 7/8" J -55 6.5# EUE TBG, CSG STARTED TO FLOW - CIRC WELL CLEAN - CONT TO CLEAN OUT TO P.B.T.D. @ 6270' - UPSHAW INSPECTED RIG - P.U. TBG & RIH TAG FILL @ 6110' (160' OF FILL) - Travel time / JSP MEETING - SLOW AND LOAD

**Daily Cost:** \$0

**Cumulative Cost:** \$235,539

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**1/24/2013 Day: 8**

**Completion**

Nabors #1450 on 1/24/2013 - Trip & Land Tbg. NU WH. ND Frac Valve On G-17-9-16 NU BOPs - BLEED TBG & CSG DOWN, CIRC WELL DWN TBG, STRIP ON WASHINGTON RUBBER - CONT TO RIH W/ PROD AS FOLLOWED N/C, 2 -JNTS, P S/N, 1 -JNT, 5 1/2" TAC, 181 JNTS - CIRC WELL w/ 140 BBLs - SET T/A W/ 18,000 # TENSION, LAND HANGER, N.U. WELL HEAD, X -O TO ROD EQUIPMENT, SPOT IN TRAILER, ASSIST OIL HAULER WASH OFF RIG FLOOR, BACK IN ROD TRAILER, PICKLE PUMP w/ BRINE, SWI, S.D.F.N. - Travel time / JSP -JSA DISCUSSED WELL CONTROL - TBG SLIPS BROKE, TRY TO FIX, NO LUCK, MET AND GOT ANOTHER SET - R.D. TONGS, AND HAND RAILS, R.U. FLOOR, N.D. BOP'S & BLIND RAM, N.U. BOP ON 2nd WELL - CHECK PSI CSG-700 TBG-800, BLEED CSG DOWN

**Daily Cost:** \$0

**Cumulative Cost:** \$242,786

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**1/25/2013 Day: 9**

**Completion**

Nabors #1450 on 1/25/2013 - RIH W/ Rods Fill and Test Pump. Space out Rods Hang Horses head. RDMO. - M.U. TEST & RIH w/ 2.5" x 1.75" x 24' RHAC w/ 4' S.M. PLUNGER & 224" M.S. 28 -7/8" GUIDED RODS 8per, 127 -3/4" GUIDED RODS 4per, 74 -7/8" GUIDED RODS 4per, 1 1/2" x 30' POLISHED ROD, SEAT PUMP, SPACE OUT, ADJUST TAG, ST w/ RIG TO 800#, GOOD STROKE - CHECK PSI TBG -600 CSG -600, BLEED DOWN CSG, PUMP 40BW DWN TBG TO KILL, OPEN UP TBG TO PIT - Travel time / JSP MEETING - R.U. & R.D. - UNIT DIED DUE TO NO GAS, BRIDAL & HANG HEAD W/ UINT UP **Finalized**

**Daily Cost:** \$0

**Cumulative Cost:** \$274,179

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

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		FORM 9	
<b>SUNDRY NOTICES AND REPORTS ON WELLS</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>5. LEASE DESIGNATION AND SERIAL NUMBER:</b> UTU-74390	
		<b>6. IF INDIAN, ALLOTTEE OR TRIBE NAME:</b>	
<b>1. TYPE OF WELL</b> Oil Well		<b>7. UNIT or CA AGREEMENT NAME:</b> GMBU (GRRV)	
<b>2. NAME OF OPERATOR:</b> NEWFIELD PRODUCTION COMPANY		<b>8. WELL NAME and NUMBER:</b> GMBU J-18-9-16	
<b>3. ADDRESS OF OPERATOR:</b> Rt 3 Box 3630 , Myton, UT, 84052		<b>9. API NUMBER:</b> 43013511690000	
<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> 1876 FNL 0858 FWL <b>QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:</b> Qtr/Qtr: SWNW Section: 17 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 checked="" type="checkbox"/> SPUD REPORT Date of Spud: 10/11/2012  <input type="checkbox"/> DRILLING REPORT Report Date:	<input type="checkbox"/> ACIDIZE  <input type="checkbox"/> CHANGE TO PREVIOUS PLANS  <input type="checkbox"/> CHANGE WELL STATUS  <input type="checkbox"/> DEEPEN  <input type="checkbox"/> OPERATOR CHANGE  <input type="checkbox"/> PRODUCTION START OR RESUME  <input type="checkbox"/> REPERFORATE CURRENT FORMATION  <input type="checkbox"/> TUBING REPAIR  <input type="checkbox"/> WATER SHUTOFF  <input type="checkbox"/> WILDCAT WELL DETERMINATION	<input type="checkbox"/> ALTER CASING  <input type="checkbox"/> CHANGE TUBING  <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS  <input type="checkbox"/> FRACTURE TREAT  <input type="checkbox"/> PLUG AND ABANDON  <input type="checkbox"/> RECLAMATION OF WELL SITE  <input type="checkbox"/> SIDETRACK TO REPAIR WELL  <input type="checkbox"/> VENT OR FLARE  <input type="checkbox"/> SI TA STATUS EXTENSION  <input type="checkbox"/> OTHER	<input type="checkbox"/> CASING REPAIR  <input type="checkbox"/> CHANGE WELL NAME  <input type="checkbox"/> CONVERT WELL TYPE  <input type="checkbox"/> NEW CONSTRUCTION  <input type="checkbox"/> PLUG BACK  <input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION  <input type="checkbox"/> TEMPORARY ABANDON  <input type="checkbox"/> WATER DISPOSAL  <input type="checkbox"/> APD EXTENSION  OTHER: <input style="width: 100px;" type="text"/>
12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.			
<p>On 10/11/12 Ross #29 spud and drilled 335' of 12 1/4" hole, P/U and run 7 jots of 8 5/8" casing set at 323.52'KB. On 10/15/12 cement w/BJ w/160 sacs of class G+2%kcl+.25#CF mixed @15.8ppg and 1.17 yield. Returned 5bbls to pit, bump plug to 700psi, BLM and State were notified via email.</p>			
<p><b>Accepted by the Utah Division of Oil, Gas and Mining FOR RECORD ONLY May 09, 2013</b></p>			
<b>NAME (PLEASE PRINT)</b> Cherei Neilson		<b>PHONE NUMBER</b> 435 646-4883	<b>TITLE</b> Drilling Technician
<b>SIGNATURE</b> N/A		<b>DATE</b> 5/9/2013	

## Casing / Liner Detail

**Well** GMBU J-18-9-16  
**Prospect** Monument Butte  
**Foreman**  
**Run Date:**  
**String Type** Conductor, 14", 36.75#, H-40, W (Welded)

- Detail From Top To Bottom -

Depth	Length	JTS	Description	OD	ID
15.00			10' KB		
10.00	5.00	1	14" Conductor	14.000	13.500
15.00			-		

Cement Detail					
<b>Cement Company:</b>					
Slurry	# of Sacks	Weight (ppg)	Yield	Volume (ft <sup>3</sup> )	Description - Slurry Class and Additives
Stab-In-Job?			Cement To Surface?		
BHT:			Est. Top of Cement:		
Initial Circulation Pressure:			Plugs Bumped?		
Initial Circulation Rate:			Pressure Plugs Bumped:		
Final Circulation Pressure:			Floats Holding?		
Final Circulation Rate:			Casing Stuck On / Off Bottom?		
Displacement Fluid:			Casing Reciprocated?		
Displacement Rate:			Casing Rotated?		
Displacement Volume:			CIP:		
Mud Returns:			Casing Wt Prior To Cement:		
Centralizer Type And Placement:			Casing Weight Set On Slips:		



## Casing / Liner Detail

Well: GMBU J-18-9-16  
 Prospect: Monument Butte  
 Foreman: \_\_\_\_\_  
 Run Date: \_\_\_\_\_  
 String Type: Surface, 8.625", 24#, J-55, STC (Generic)

**- Detail From Top To Bottom -**

Depth	Length	JTS	Description	OD	ID
323.52			10' KB		
10.00	1.42		Wellhead		
11.42	266.35	6	8 5/8 Casing	8.625	
277.77	44.85	1	Shoe Joint	8.625	
322.62	0.90		Guide Shoe	8.625	
323.52			-		

Cement Detail						
Cement Company:		BJ				
Slurry	# of Sacks	Weight (ppg)	Yield	Volume (ft³)	Description - Slurry Class and Additives	
Slurry 1	160	15.8	1.17	187.2	Class "G"+2%CaCl	
Stab-In-Job?		No			Cement To Surface?	
BHT:		0			Est. Top of Cement:	
Initial Circulation Pressure:					Plugs Bumped?	
Initial Circulation Rate:					Pressure Plugs Bumped:	
Final Circulation Pressure:					Floats Holding?	
Final Circulation Rate:					Casing Stuck On / Off Bottom?	
Displacement Fluid:		Water			Casing Reciprocated?	
Displacement Rate:					Casing Rotated?	
Displacement Volume:		17.1			CIP:	
Mud Returns:					Casing Wt Prior To Cement:	
Centralizer Type And Placement:					Casing Weight Set On Slips:	
Middle of first, top of second and third for a total of three.						



## Casing / Liner Detail

<b>Well</b>	GMBU J-18-9-16
<b>Prospect</b>	Monument Butte
<b>Foreman</b>	Ryan Crum
<b>Run Date:</b>	10/30/2012
<b>String Type</b>	Prod 1, 5.5", 15.5#, J-55, LTC (Generic)

**- Detail From Top To Bottom -**

Depth	Length	JTS	Description	OD	ID
10.00	4.00	1	Mandrel ( W/ 3' Pup Joint )	5.500	
14.00	6285.62	150	Casing ( Flag Jt. @ 3544.56 )	5.500	
6,299.62	1.74	1	Float Collar	5.500	
6,301.36	41.16	1	Casing ( Shoe Joint )	5.500	
6,342.52	0.87	1	Guide Shoe	5.500	
6,343.39					

### Cement Detail

<b>Cement Company:</b> BJ					
Slurry	# of Sacks	Weight (ppg)	Yield	Volume (ft³)	Description - Slurry Class and Additives
2	470	14.4	1.24	582.8	50:50;2+3%KCL+0.5%EC-1+.25#CF+.05#SF+.3SMS+FP-6L mixed @ 14.4ppg W/3.53 yield
1	240	11	3.53	847.2	PL-II+3%KCL+5#CSE+0.5#CF+5#KOL+.5SMS+FP+SF mixed @ 11ppg W/1.24yield
Stab-In-Job?		No		Cement To Surface? Yes	
BHT:		0		Est. Top of Cement: 10	
Initial Circulation Pressure:		229		Plugs Bumped? Yes	
Initial Circulation Rate:		5		Pressure Plugs Bumped: 2789	
Final Circulation Pressure:		1733		Floats Holding? Yes	
Final Circulation Rate:		3		Casing Stuck On / Off Bottom? No	
Displacement Fluid:		Water		Casing Reciprocated? No	
Displacement Rate:		7		Casing Rotated? No	
Displacement Volume:		140		CIP: 11:10	
Mud Returns:		Full		Casing Wt Prior To Cement: 86	
Centralizer Type And Placement:				Casing Weight Set On Slips: 86	
Middle of first. Top of second and third, then every third collar for a total of 20					



