

**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 W-16-9-17
<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> ML-3453B	<b>11. MINERAL OWNERSHIP</b> FEDERAL <input type="checkbox"/> INDIAN <input type="checkbox"/> STATE <input checked="" type="checkbox"/> FEE <input type="checkbox"/>	
<b>13. NAME OF SURFACE OWNER (if box 12 = 'fee')</b>		<b>12. SURFACE OWNERSHIP</b> FEDERAL <input type="checkbox"/> INDIAN <input type="checkbox"/> STATE <input checked="" type="checkbox"/> FEE <input type="checkbox"/>
<b>15. ADDRESS OF SURFACE OWNER (if box 12 = 'fee')</b>		<b>14. SURFACE OWNER PHONE (if box 12 = 'fee')</b>
<b>17. INDIAN ALLOTTEE OR TRIBE NAME (if box 12 = 'INDIAN')</b>		<b>16. SURFACE OWNER E-MAIL (if box 12 = 'fee')</b>
<b>18. INTEND TO COMMINGLE PRODUCTION FROM MULTIPLE FORMATIONS</b> YES <input type="checkbox"/> (Submit Commingling Application) NO <input checked="" type="checkbox"/>		<b>19. SLANT</b> VERTICAL <input type="checkbox"/> DIRECTIONAL <input checked="" type="checkbox"/> HORIZONTAL <input type="checkbox"/>

20. LOCATION OF WELL	FOOTAGES	QTR-QTR	SECTION	TOWNSHIP	RANGE	MERIDIAN
LOCATION AT SURFACE	582 FSL 1940 FEL	SWSE	16	9.0 S	17.0 E	S
Top of Uppermost Producing Zone	841 FSL 2280 FEL	SWSE	16	9.0 S	17.0 E	S
At Total Depth	80 FSL 2623 FEL	SWSE	16	9.0 S	17.0 E	S

<b>21. COUNTY</b> DUCHESNE	<b>22. DISTANCE TO NEAREST LEASE LINE (Feet)</b> 80	<b>23. NUMBER OF ACRES IN DRILLING UNIT</b> 20
<b>27. ELEVATION - GROUND LEVEL</b> 5318	<b>25. DISTANCE TO NEAREST WELL IN SAME POOL (Applied For Drilling or Completed)</b> 1538	<b>26. PROPOSED DEPTH</b> MD: 5832 TVD: 5760
	<b>28. BOND NUMBER</b> B001834	<b>29. SOURCE OF DRILLING WATER / WATER RIGHTS APPROVAL NUMBER IF APPLICABLE</b> 437478

Hole, Casing, and Cement Information										
String	Hole Size	Casing Size	Length	Weight	Grade & Thread	Max Mud Wt.	Cement	Sacks	Yield	Weight
SURF	12.25	8.625	0 - 300	24.0	J-55 ST&C	8.3	Class G	138	1.17	15.8
PROD	7.875	5.5	0 - 5832	15.5	J-55 ST&C	8.3	Premium Lite High Strength	265	3.26	11.0
							50/50 Poz	363	1.24	14.3

**ATTACHMENTS**

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

<input checked="" type="checkbox"/> WELL PLAT OR MAP PREPARED BY LICENSED SURVEYOR OR ENGINEER	<input checked="" type="checkbox"/> COMPLETE DRILLING PLAN
<input type="checkbox"/> AFFIDAVIT OF STATUS OF SURFACE OWNER AGREEMENT (IF FEE SURFACE)	<input type="checkbox"/> FORM 5. IF OPERATOR IS OTHER THAN THE LEASE OWNER
<input checked="" type="checkbox"/> DIRECTIONAL SURVEY PLAN (IF DIRECTIONALLY OR HORIZONTALLY DRILLED)	<input checked="" type="checkbox"/> TOPOGRAPHICAL MAP

<b>NAME</b> Mandie Crozier	<b>TITLE</b> Regulatory Tech	<b>PHONE</b> 435 646-4825
<b>SIGNATURE</b>	<b>DATE</b> 09/14/2011	<b>EMAIL</b> mcrozier@newfield.com
<b>API NUMBER ASSIGNED</b> 43013509720000	<b>APPROVAL</b>   Permit Manager	

NEWFIELD PRODUCTION COMPANY  
 GMBU W-16-9-17  
 AT SURFACE: SW/SE SECTION 16, T9S, R17E  
 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' – 1205'
Green River	1205'
Wasatch	5700'
<b>Proposed TD</b>	<b>5832'</b>

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

Green River Formation (Oil)	1205' – 5700'
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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 W-16-9-17**

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'	5,832'	15.5	J-55	LTC	4,810 2.59	4,040 2.18	217,000 2.40

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 W-16-9-17**

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	3,832'	Prem Lite II w/ 10% gel + 3% KCl	265 863	30%	11.0	3.26
Prod casing Tail	2,000'	50/50 Poz w/ 2% gel + 3% KCl	363 451	30%	14.3	1.24

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

- Compressive strength of lead cement: 1800 psi @ 24 hours, 2250 psi @ 72 hours
- Compressive strength of tail cement: 2500 psi @ 24 hours

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

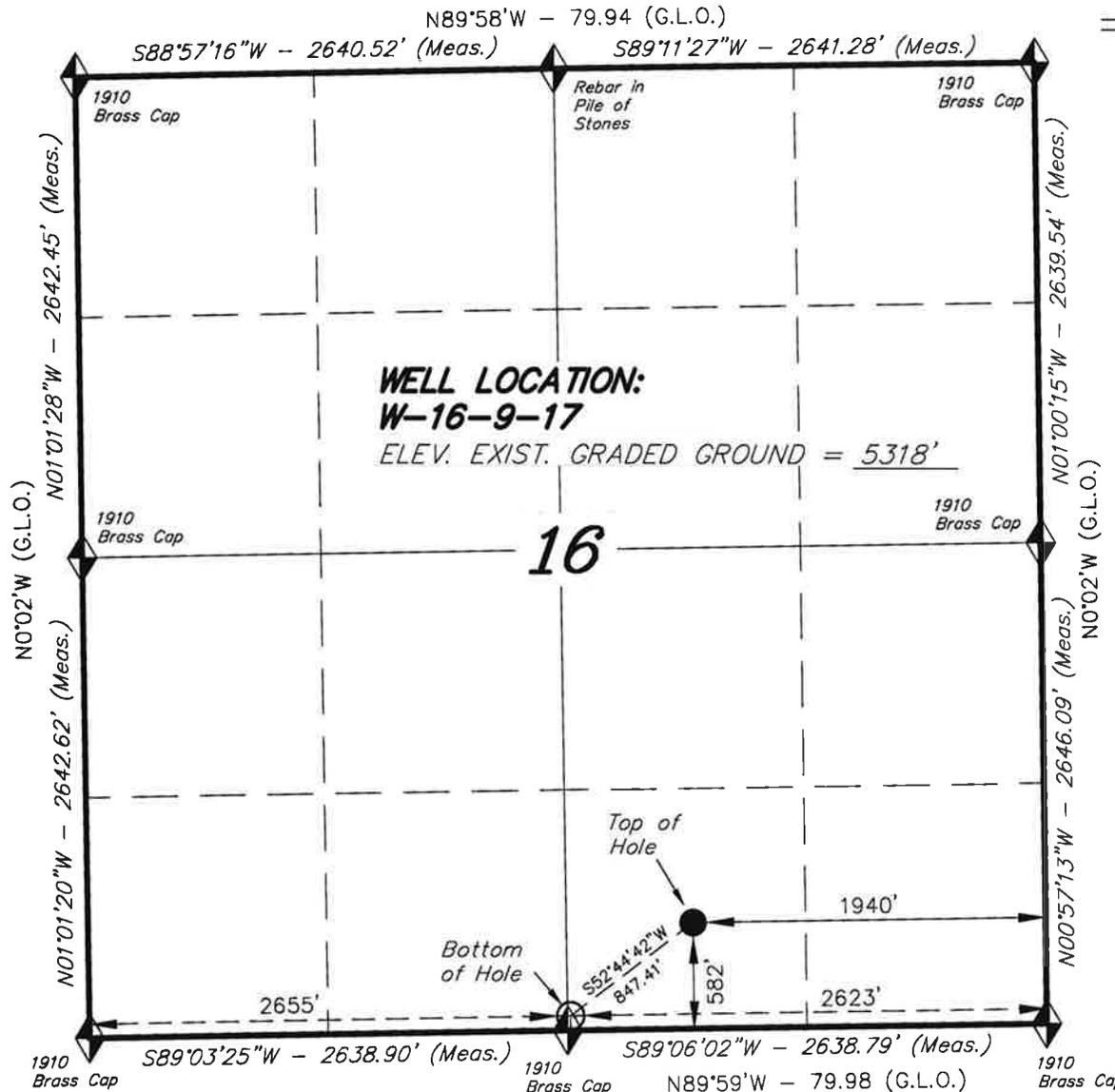
No abnormal temperatures or pressures are anticipated. No hydrogen sulfide has been encountered or is known to exist from previous drilling in the area at this depth. Maximum anticipated bottomhole pressure will approximately equal total depth in feet multiplied by a 0.433 psi/foot gradient.

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

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

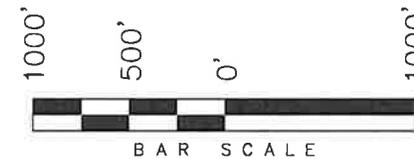
# T9S, R17E, S.L.B.&M.

**NEWFIELD EXPLORATION COMPANY**



WELL LOCATION, W-16-9-17, LOCATED AS SHOWN IN THE SW 1/4 SE 1/4 OF SECTION 16, T9S, R17E, S.L.B.&M. DUCHESNE COUNTY, UTAH.

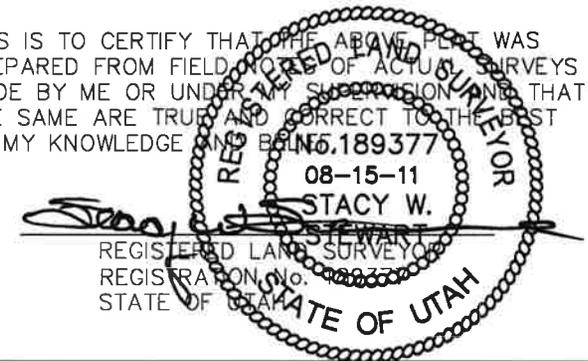
TARGET BOTTOM HOLE, W-16-9-17, LOCATED AS SHOWN IN THE SW 1/4 SE 1/4 OF SECTION 16, T9S, R17E, S.L.B.&M. DUCHESNE COUNTY, UTAH.



**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 80' FSL & 2623' FEL.

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



◆ = SECTION CORNERS LOCATED

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

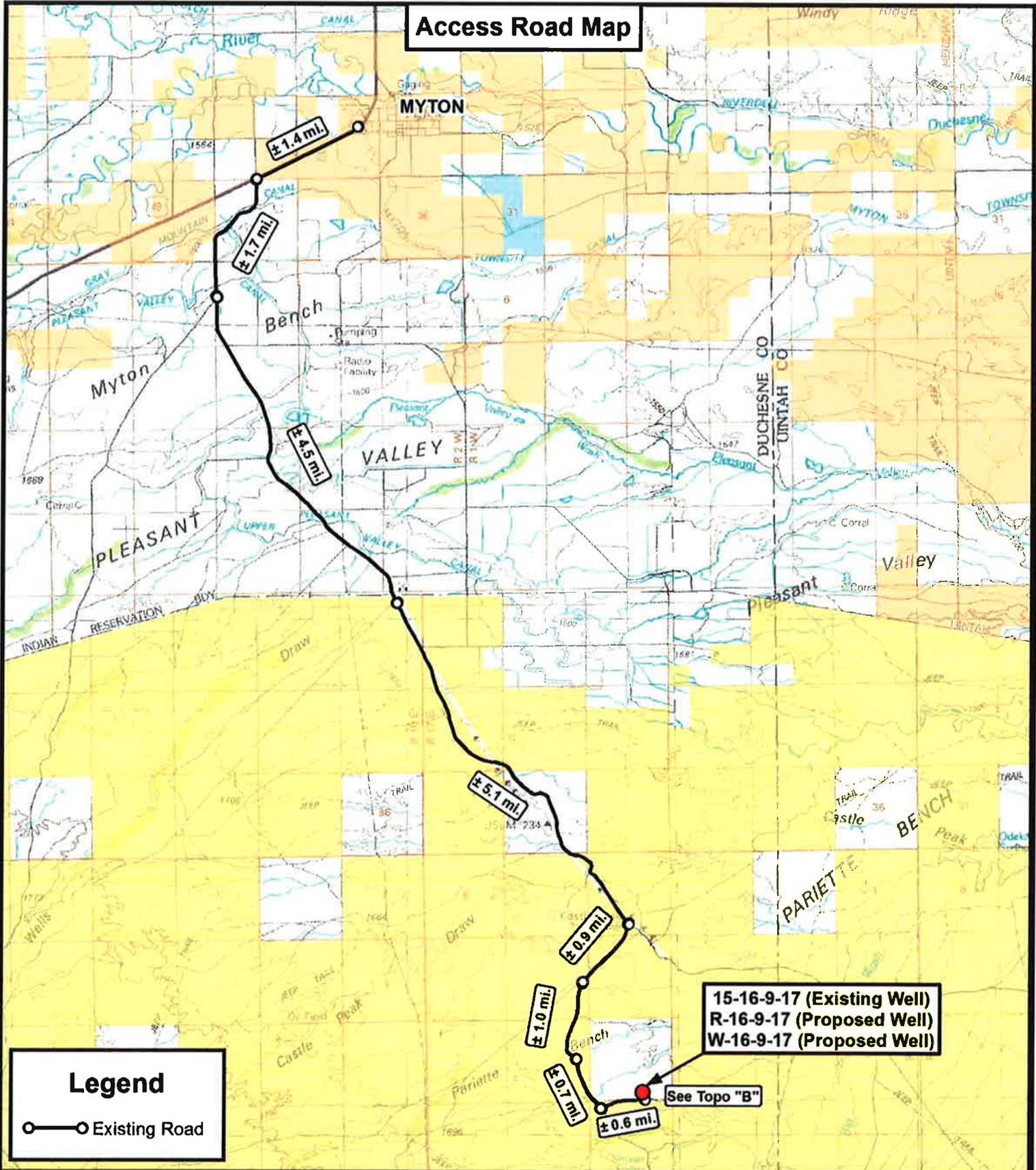
**W-16-9-17**  
 (Surface Location) NAD 83  
 LATITUDE = 40° 01' 31.09"  
 LONGITUDE = 110° 00' 32.75"

**TRI STATE LAND SURVEYING & CONSULTING**

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

DATE SURVEYED: 02-28-11	SURVEYED BY: K.S.	VERSION:
DATE DRAWN: 03-31-11	DRAWN BY: F.T.M.	V2
REVISED: 08-09-11 F.T.M.	SCALE: 1" = 1000'	

**Access Road Map**



**Legend**

○—○ Existing Road

**15-16-9-17 (Existing Well)**  
**R-16-9-17 (Proposed Well)**  
**W-16-9-17 (Proposed Well)**

See Topo "B"



**Tri State  
Land Surveying, Inc.**

180 NORTH VERNAL AVE. VERNAL, UTAH 84078

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



**NEWFIELD EXPLORATION COMPANY**

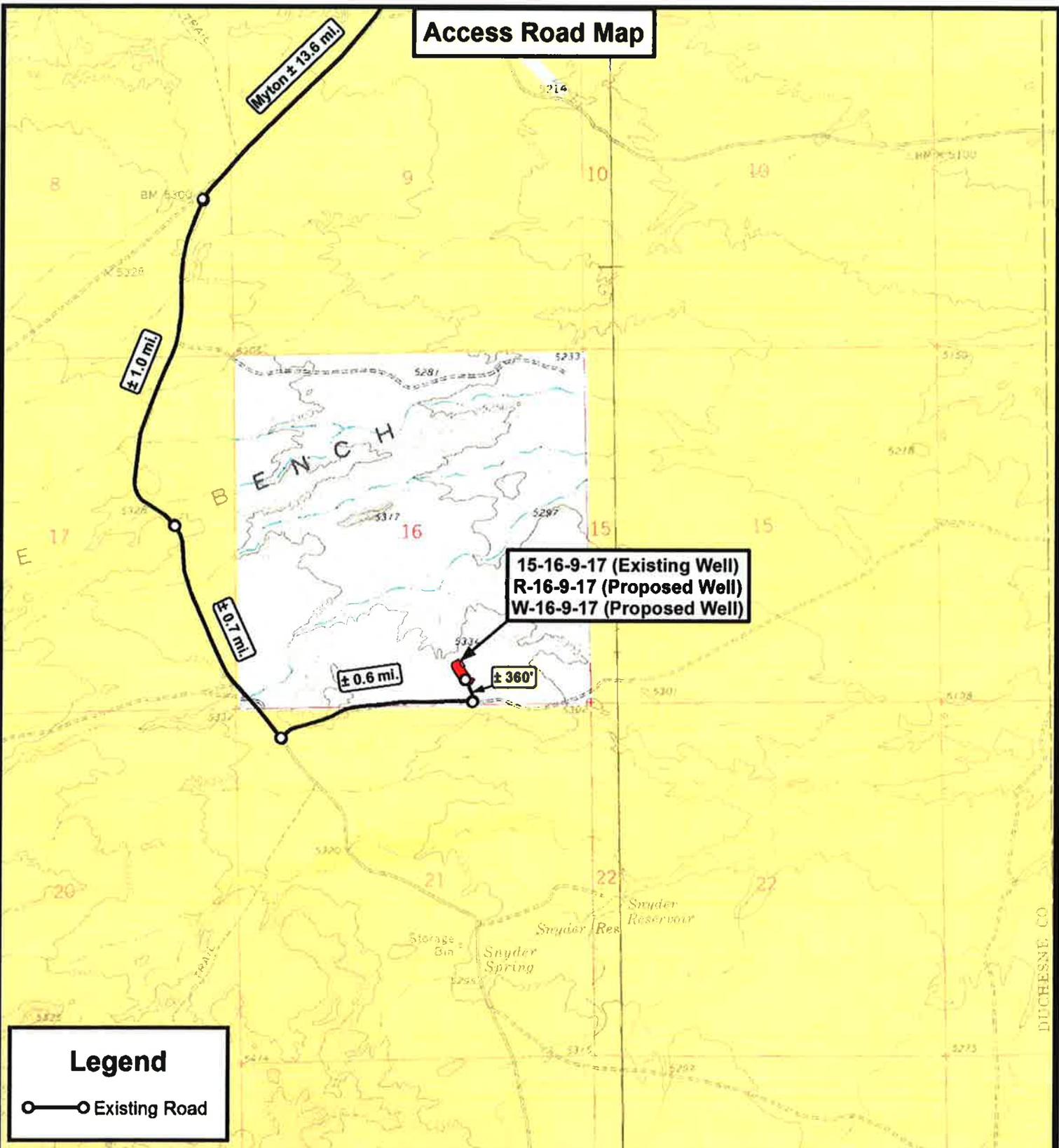
**15-16-9-17 (Existing Well)**  
**R-16-9-17 (Proposed Well)**  
**W-16-9-17 (Proposed Well)**  
**SEC. 16, T9S, R17E, S.L.B.&M. Duchesne County, UT.**

DRAWN BY:	C.H.M.	REVISED:	08-09-11 CHM	VERSION:	
DATE:	04-05-2011				<b>V2</b>
SCALE:	1:100,000				

**TOPOGRAPHIC MAP**

SHEET  
**A**

**Access Road Map**



**Legend**

○—○ Existing Road

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

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



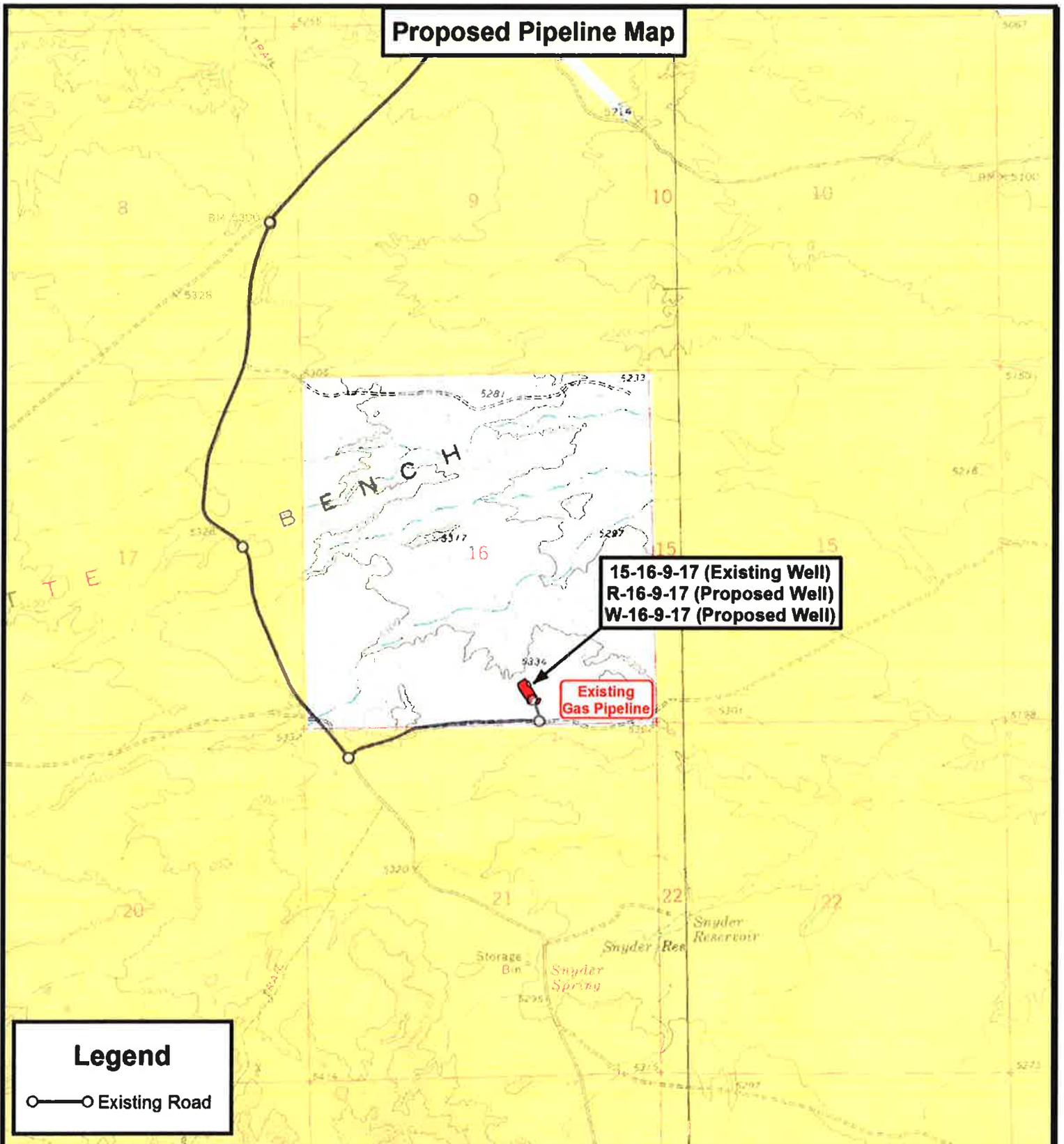
**NEWFIELD EXPLORATION COMPANY**  
 15-16-9-17 (Existing Well)  
 R-16-9-17 (Proposed Well)  
 W-16-9-17 (Proposed Well)  
 SEC. 16, T9S, R17E, S.L.B.&M. Duchesne County, UT.

DRAWN BY:	C.H.M.	REVISED:	08-09-11 CHM	VERSION:
DATE:	04-05-2011			<b>V2</b>
SCALE:	1" = 2,000'			

**TOPOGRAPHIC MAP**

SHEET  
**B**

**Proposed Pipeline Map**



**15-16-9-17 (Existing Well)  
R-16-9-17 (Proposed Well)  
W-16-9-17 (Proposed Well)**

**Existing Gas Pipeline**

**Legend**

○ — ○ Existing Road

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**NEWFIELD EXPLORATION COMPANY**

**15-16-9-17 (Existing Well)  
R-16-9-17 (Proposed Well)  
W-16-9-17 (Proposed Well)  
SEC. 16, T9S, R17E, S.L.B.&M. Duchesne County, UT.**

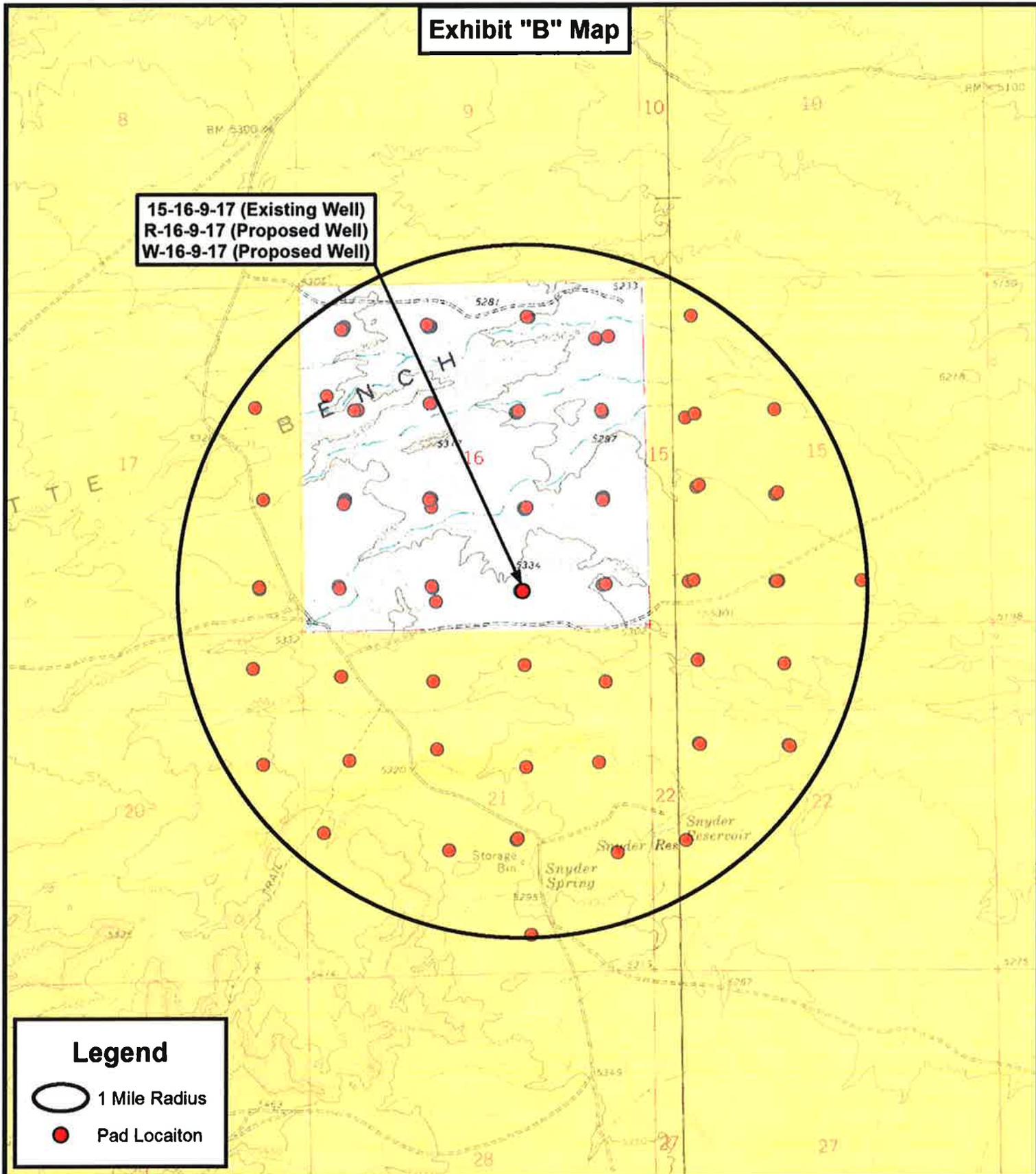
<b>DRAWN BY:</b>	C.H.M.	<b>REVISED:</b>	08-09-11 CHM	<b>VERSION:</b>	
<b>DATE:</b>	04-05-2011			<b>V2</b>	
<b>SCALE:</b>	1" = 2,000'				

**TOPOGRAPHIC MAP**

SHEET  
**C**

**Exhibit "B" Map**

**15-16-9-17 (Existing Well)  
R-16-9-17 (Proposed Well)  
W-16-9-17 (Proposed Well)**



**Legend**

-  1 Mile Radius
-  Pad Locaiton



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DRAWN BY:	C.H.M.	REVISED:	08-09-11 CHM	VERSION:	
DATE:	04-05-2011			<b>V2</b>	
SCALE:	1" = 2,000'				



**NEWFIELD EXPLORATION COMPANY**

**15-16-9-17 (Existing Well)  
R-16-9-17 (Proposed Well)  
W-16-9-17 (Proposed Well)**

**SEC. 16, T9S, R17E, S.L.B.&M. Duchesne County, UT.**

<b>TOPOGRAPHIC MAP</b>	<b>SHEET D</b>
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# **NEWFIELD EXPLORATION**

**USGS Myton SW (UT)  
SECTION 16 T9S, R17E  
W-16-9-17**

**Wellbore #1**

**Plan: Design #1**

## **Standard Planning Report**

**08 August, 2011**





<b>Database:</b>	EDM 2003.21 Single User Db	<b>Local Co-ordinate Reference:</b>	Well W-16-9-17
<b>Company:</b>	NEWFIELD EXPLORATION	<b>TVD Reference:</b>	W-16-9-17 @ 5330.0ft (Original Well Elev)
<b>Project:</b>	USGS Myton SW (UT)	<b>MD Reference:</b>	W-16-9-17 @ 5330.0ft (Original Well Elev)
<b>Site:</b>	SECTION 16 T9S, R17E	<b>North Reference:</b>	True
<b>Well:</b>	W-16-9-17	<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 16 T9S, R17E, SEC 16 T9S, R17E				
<b>Site Position:</b>		<b>Northing:</b>	7,183,439.74 ft	<b>Latitude:</b>	40° 1' 51.237 N
<b>From:</b>	Lat/Long	<b>Easting:</b>	2,056,769.95 ft	<b>Longitude:</b>	110° 0' 46.831 W
<b>Position Uncertainty:</b>	0.0 ft	<b>Slot Radius:</b>	"	<b>Grid Convergence:</b>	0.95 °

<b>Well</b>	W-16-9-17, SHL LAT: 40°01'31.09" LONG: 110°00'32.75"					
<b>Well Position</b>	<b>+N/-S</b>	-2,038.5 ft	<b>Northing:</b>	7,181,419.74 ft	<b>Latitude:</b>	40° 1' 31.090 N
	<b>+E/-W</b>	1,095.2 ft	<b>Easting:</b>	2,057,898.98 ft	<b>Longitude:</b>	110° 0' 32.750 W
<b>Position Uncertainty</b>		0.0 ft	<b>Wellhead Elevation:</b>	5,330.0 ft	<b>Ground Level:</b>	5,318.0 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	2011/04/18	11.31	65.79	52,284

<b>Design</b>	Design #1			
<b>Audit Notes:</b>				
<b>Version:</b>	<b>Phase:</b>	PROTOTYPE	<b>Tie On Depth:</b>	0.0
<b>Vertical Section:</b>	<b>Depth From (TVD) (ft)</b>	<b>+N/-S (ft)</b>	<b>+E/-W (ft)</b>	<b>Direction (°)</b>
	0.0	0.0	0.0	232.74

<b>Plan Sections</b>										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	TFO (°)	Target
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.00	0.00	
600.0	0.00	0.00	600.0	0.0	0.0	0.00	0.00	0.00	0.00	
1,263.8	9.96	232.74	1,260.4	-34.8	-45.8	1.50	1.50	0.00	232.74	
5,832.1	9.96	232.74	5,760.0	-513.0	-674.5	0.00	0.00	0.00	0.00	W-16-9-17 TGT



<b>Database:</b>	EDM 2003.21 Single User Db	<b>Local Co-ordinate Reference:</b>	Well W-16-9-17
<b>Company:</b>	NEWFIELD EXPLORATION	<b>TVD Reference:</b>	W-16-9-17 @ 5330.0ft (Original Well Elev)
<b>Project:</b>	USGS Myton SW (UT)	<b>MD Reference:</b>	W-16-9-17 @ 5330.0ft (Original Well Elev)
<b>Site:</b>	SECTION 16 T9S, R17E	<b>North Reference:</b>	True
<b>Well:</b>	W-16-9-17	<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	232.74	700.0	-0.8	-1.0	1.3	1.50	1.50	0.00
800.0	3.00	232.74	799.9	-3.2	-4.2	5.2	1.50	1.50	0.00
900.0	4.50	232.74	899.7	-7.1	-9.4	11.8	1.50	1.50	0.00
1,000.0	6.00	232.74	999.3	-12.7	-16.7	20.9	1.50	1.50	0.00
1,100.0	7.50	232.74	1,098.6	-19.8	-26.0	32.7	1.50	1.50	0.00
1,200.0	9.00	232.74	1,197.5	-28.5	-37.4	47.0	1.50	1.50	0.00
1,263.8	9.96	232.74	1,260.4	-34.8	-45.8	57.5	1.50	1.50	0.00
1,300.0	9.96	232.74	1,296.1	-38.6	-50.8	63.8	0.00	0.00	0.00
1,400.0	9.96	232.74	1,394.6	-49.1	-64.5	81.1	0.00	0.00	0.00
1,500.0	9.96	232.74	1,493.1	-59.6	-78.3	98.4	0.00	0.00	0.00
1,600.0	9.96	232.74	1,591.6	-70.0	-92.1	115.7	0.00	0.00	0.00
1,700.0	9.96	232.74	1,690.1	-80.5	-105.8	133.0	0.00	0.00	0.00
1,800.0	9.96	232.74	1,788.6	-91.0	-119.6	150.2	0.00	0.00	0.00
1,900.0	9.96	232.74	1,887.1	-101.4	-133.3	167.5	0.00	0.00	0.00
2,000.0	9.96	232.74	1,985.6	-111.9	-147.1	184.8	0.00	0.00	0.00
2,100.0	9.96	232.74	2,084.1	-122.4	-160.9	202.1	0.00	0.00	0.00
2,200.0	9.96	232.74	2,182.6	-132.8	-174.6	219.4	0.00	0.00	0.00
2,300.0	9.96	232.74	2,281.1	-143.3	-188.4	236.7	0.00	0.00	0.00
2,400.0	9.96	232.74	2,379.6	-153.8	-202.1	254.0	0.00	0.00	0.00
2,500.0	9.96	232.74	2,478.0	-164.2	-215.9	271.3	0.00	0.00	0.00
2,600.0	9.96	232.74	2,576.5	-174.7	-229.7	288.6	0.00	0.00	0.00
2,700.0	9.96	232.74	2,675.0	-185.2	-243.4	305.9	0.00	0.00	0.00
2,800.0	9.96	232.74	2,773.5	-195.6	-257.2	323.1	0.00	0.00	0.00
2,900.0	9.96	232.74	2,872.0	-206.1	-271.0	340.4	0.00	0.00	0.00
3,000.0	9.96	232.74	2,970.5	-216.6	-284.7	357.7	0.00	0.00	0.00
3,100.0	9.96	232.74	3,069.0	-227.0	-298.5	375.0	0.00	0.00	0.00
3,200.0	9.96	232.74	3,167.5	-237.5	-312.2	392.3	0.00	0.00	0.00
3,300.0	9.96	232.74	3,266.0	-248.0	-326.0	409.6	0.00	0.00	0.00
3,400.0	9.96	232.74	3,364.5	-258.5	-339.8	426.9	0.00	0.00	0.00
3,500.0	9.96	232.74	3,463.0	-268.9	-353.5	444.2	0.00	0.00	0.00
3,600.0	9.96	232.74	3,561.5	-279.4	-367.3	461.5	0.00	0.00	0.00
3,700.0	9.96	232.74	3,660.0	-289.9	-381.0	478.8	0.00	0.00	0.00
3,800.0	9.96	232.74	3,758.5	-300.3	-394.8	496.0	0.00	0.00	0.00
3,900.0	9.96	232.74	3,857.0	-310.8	-408.6	513.3	0.00	0.00	0.00
4,000.0	9.96	232.74	3,955.5	-321.3	-422.3	530.6	0.00	0.00	0.00
4,100.0	9.96	232.74	4,053.9	-331.7	-436.1	547.9	0.00	0.00	0.00
4,200.0	9.96	232.74	4,152.4	-342.2	-449.8	565.2	0.00	0.00	0.00
4,300.0	9.96	232.74	4,250.9	-352.7	-463.6	582.5	0.00	0.00	0.00
4,400.0	9.96	232.74	4,349.4	-363.1	-477.4	599.8	0.00	0.00	0.00
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4,600.0	9.96	232.74	4,546.4	-384.1	-504.9	634.4	0.00	0.00	0.00
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4,800.0	9.96	232.74	4,743.4	-405.0	-532.4	669.0	0.00	0.00	0.00
4,900.0	9.96	232.74	4,841.9	-415.5	-546.2	686.2	0.00	0.00	0.00
5,000.0	9.96	232.74	4,940.4	-425.9	-559.9	703.5	0.00	0.00	0.00
5,100.0	9.96	232.74	5,038.9	-436.4	-573.7	720.8	0.00	0.00	0.00
5,200.0	9.96	232.74	5,137.4	-446.9	-587.5	738.1	0.00	0.00	0.00



<b>Database:</b>	EDM 2003.21 Single User Db	<b>Local Co-ordinate Reference:</b>	Well W-16-9-17
<b>Company:</b>	NEWFIELD EXPLORATION	<b>TVD Reference:</b>	W-16-9-17 @ 5330.0ft (Original Well Elev)
<b>Project:</b>	USGS Myton SW (UT)	<b>MD Reference:</b>	W-16-9-17 @ 5330.0ft (Original Well Elev)
<b>Site:</b>	SECTION 16 T9S, R17E	<b>North Reference:</b>	True
<b>Well:</b>	W-16-9-17	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	Wellbore #1		
<b>Design:</b>	Design #1		

Planned Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
5,300.0	9.96	232.74	5,235.9	-457.3	-601.2	755.4	0.00	0.00	0.00
5,400.0	9.96	232.74	5,334.4	-467.8	-615.0	772.7	0.00	0.00	0.00
5,500.0	9.96	232.74	5,432.9	-478.3	-628.7	790.0	0.00	0.00	0.00
5,600.0	9.96	232.74	5,531.4	-488.7	-642.5	807.3	0.00	0.00	0.00
5,700.0	9.96	232.74	5,629.9	-499.2	-656.3	824.6	0.00	0.00	0.00
5,800.0	9.96	232.74	5,728.3	-509.7	-670.0	841.9	0.00	0.00	0.00
5,832.1	9.96	232.74	5,760.0	-513.0	-674.5	847.4	0.00	0.00	0.00



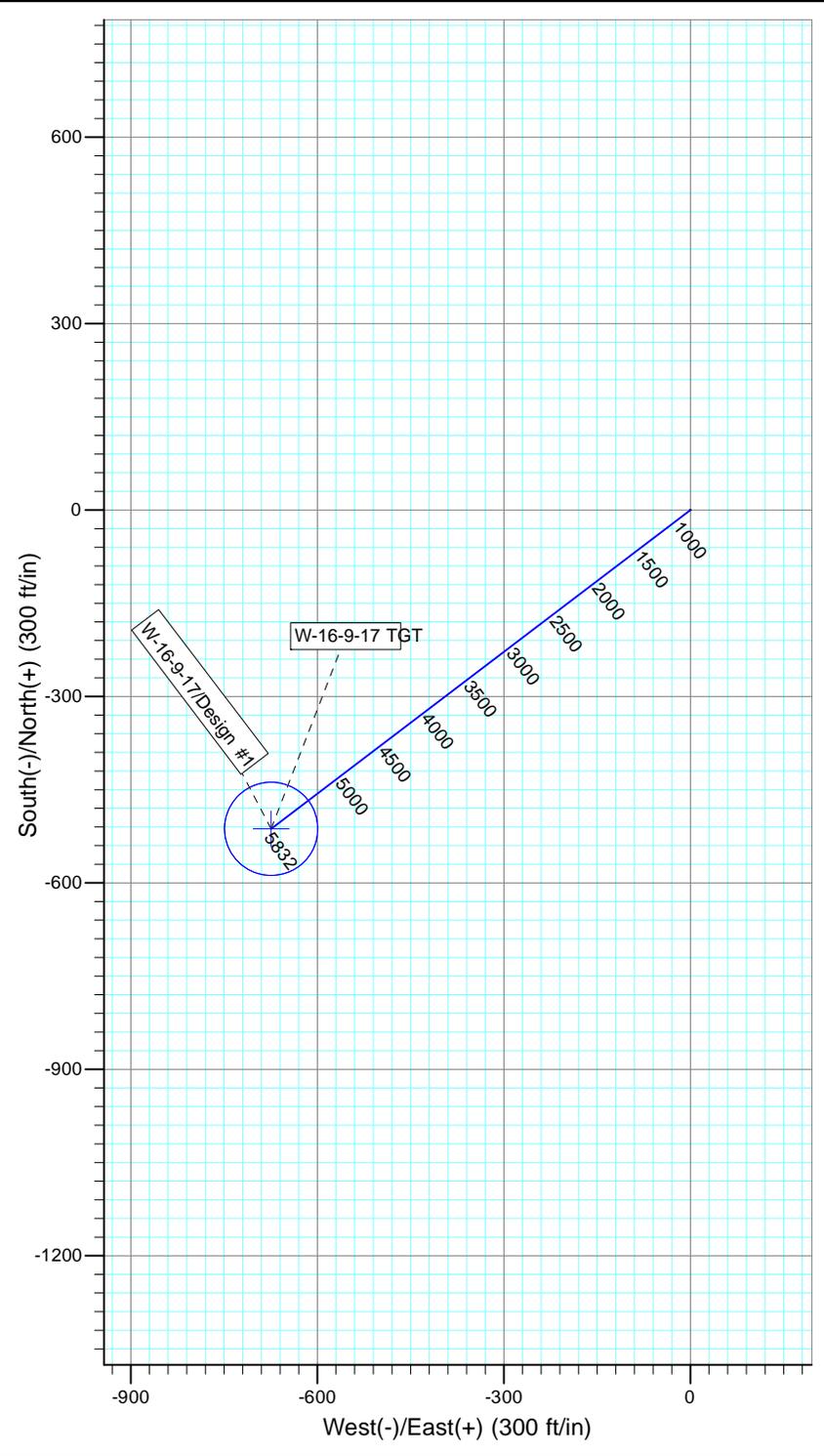
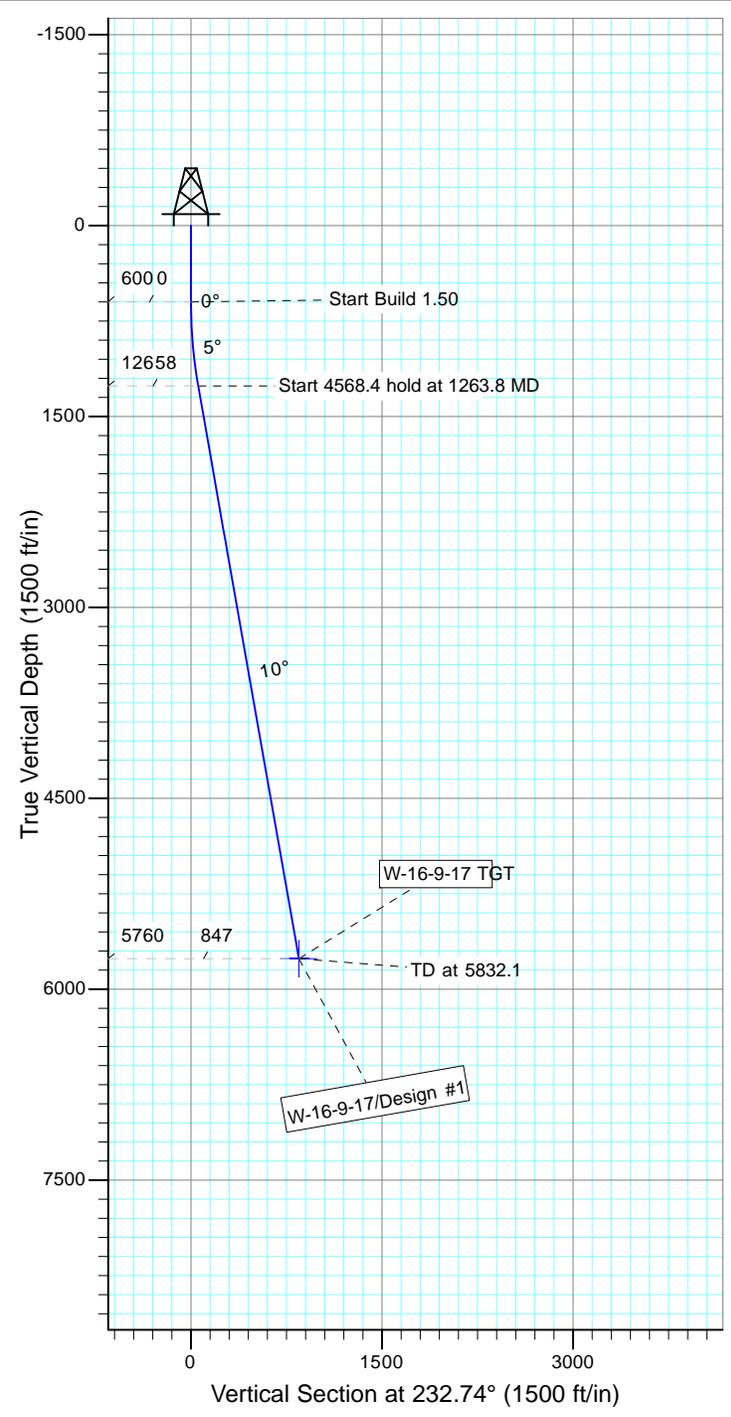
Project: USGS Myton SW (UT)  
 Site: SECTION 16 T9S, R17E  
 Well: W-16-9-17  
 Wellbore: Wellbore #1  
 Design: Design #1



Azimuths to True North  
 Magnetic North: 11.31°

Magnetic Field  
 Strength: 52284.5snT  
 Dip Angle: 65.79°  
 Date: 2011/04/18  
 Model: IGRF2010

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



WELLBORE TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Shape
W-16-9-17 TGT	5760.0	-513.0	-674.5	Circle (Radius: 75.0)

SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	DLeg	TFace	VSec	Target
1	0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0	
2	600.0	0.00	0.00	600.0	0.0	0.0	0.00	0.00	0.0	
3	1263.8	9.96	232.74	1260.4	-34.8	-45.8	1.50	232.74	57.5	
4	5832.1	9.96	232.74	5760.0	-513.0	-674.5	0.00	0.00	847.4	W-16-9-17 TGT



**NEWFIELD PRODUCTION COMPANY  
GMBU W-16-9-17  
AT SURFACE: SW/SE SECTION 16, T9S, R17E  
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 W-16-9-17 located in the SW 1/4 SE 1/4 Section 16, T9S, R17E, Duchesne County, Utah:

Proceed southwesterly out of Myton, Utah along Highway 40 - 1.4 miles to the junction of this highway and UT State Hwy 53; proceed southeasterly – 11.3 miles to it's junction with an existing road to the southwest; proceed southwesterly – 1.9 miles to it's junction with an existing road to the southeast; proceed in a southeasterly direction – 0.7 miles to it's junction with an existing road to the east; proceed easterly – 0.6 miles to it's junction with an existing road to the northwest; proceed northwesterly – 0.3 miles to it's junction with the access road to the existing 15-16-9-17 well pad to the northwest.

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 15-16-9-17 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** – State of Utah.

11. **OTHER ADDITIONAL INFORMATION :**

- a) Newfield Production Company is responsible for informing all persons in the area who are associated with this project that they will be subject to prosecution for knowingly disturbing historic or archaeological sites, or for collecting artifacts. If historic or archaeological materials are uncovered during construction, Newfield is to immediately stop work that might further disturb such materials and contact the Authorized Officer.
- b) Newfield Production will control noxious weeds along rights-of-way for roads, pipelines, well sites or other applicable facilities. On State administered land it is required that a Pesticide Use Proposal shall be submitted and given approval prior to the application of herbicides or other possible hazardous chemicals.
- c) Drilling rigs and/or equipment used during drilling operations on this well site will not be stacked or stored on State Lands after the conclusion of drilling operations or at any other time without State authorization. However, if State authorization is obtained, it is only a temporary measure to allow time to make arrangements for permanent storage on commercial facilities

#### **Water Disposal**

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

#### **Additional Surface Stipulations**

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

#### **Hazardous Material Declaration**

Newfield Production Company guarantees that during the drilling and completion of the GMBU W-16-9-17, 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 W-16-9-17, 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

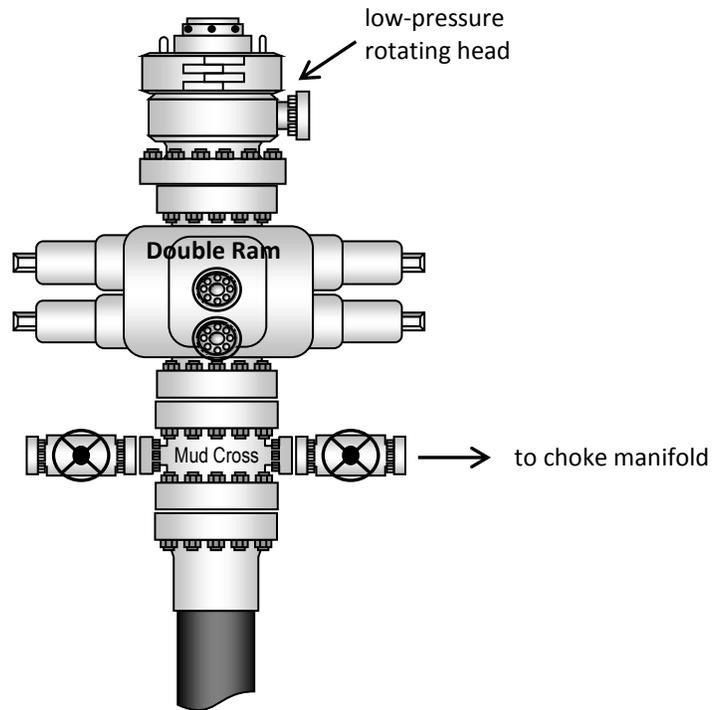
Please be advised that NEWFIELD PRODUCTION COMPANY is considered to be the operator of well #W-16-9-17, Section 16, Township 9S, Range 17E: Lease ML-3453B Duchesne County, Utah: and is responsible under the terms and conditions of the lease for the operations conducted upon the leased lands. Bond coverage is provided by, Federal Bond #B001834.

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.

9/14/11  
\_\_\_\_\_  
Date

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

### Typical 2M BOP stack configuration



# NEWFIELD EXPLORATION COMPANY

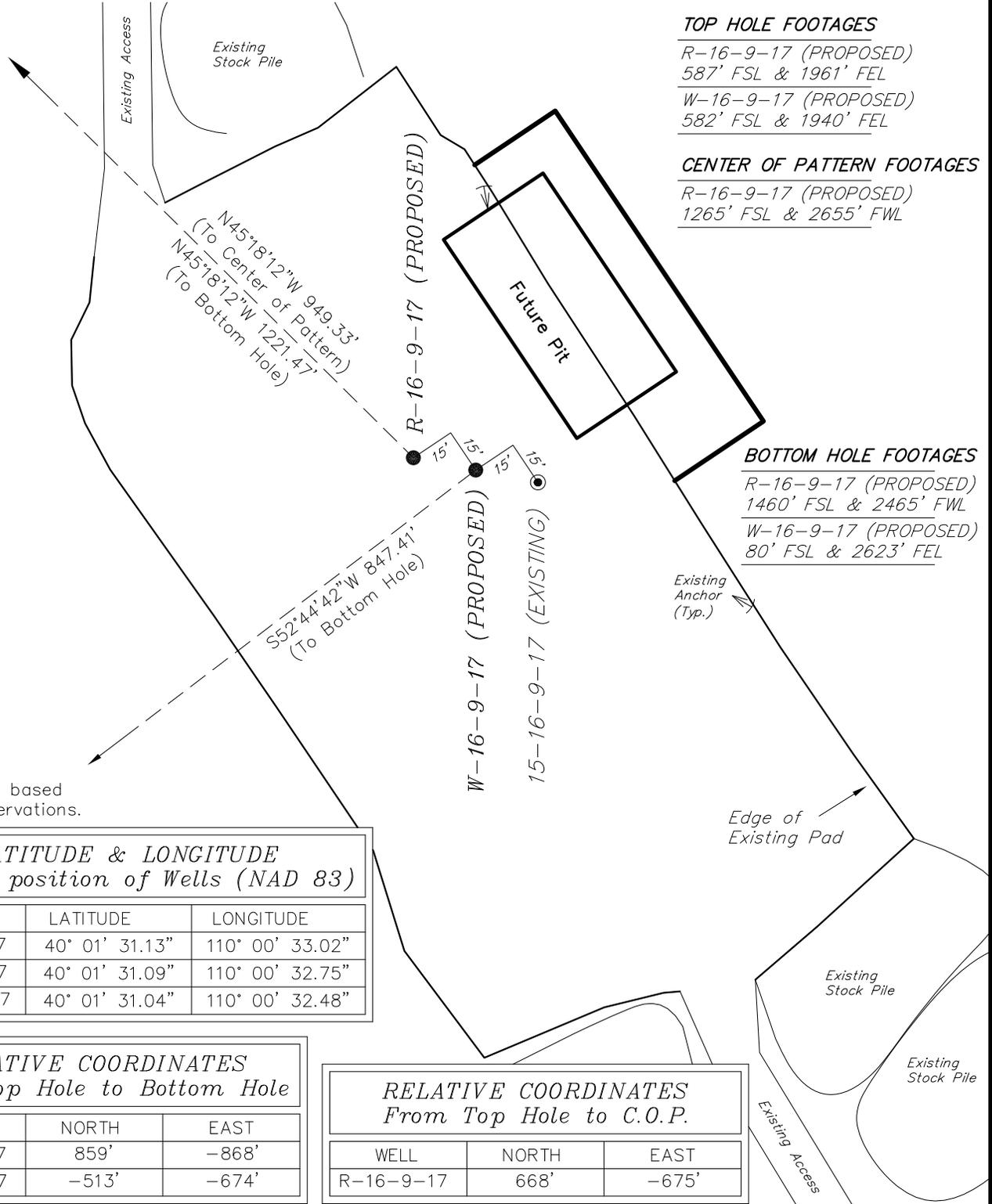
## WELL PAD INTERFERENCE PLAT

15-16-9-17 (Existing Well)

R-16-9-17 (Proposed Well)

W-16-9-17 (Proposed Well)

Pad Location: SWSE Section 16, T9S, R17E, S.L.B.&M.



### TOP HOLE FOOTAGES

R-16-9-17 (PROPOSED)  
587' FSL & 1961' FEL

W-16-9-17 (PROPOSED)  
582' FSL & 1940' FEL

### CENTER OF PATTERN FOOTAGES

R-16-9-17 (PROPOSED)  
1265' FSL & 2655' FWL

### BOTTOM HOLE FOOTAGES

R-16-9-17 (PROPOSED)  
1460' FSL & 2465' FWL

W-16-9-17 (PROPOSED)  
80' FSL & 2623' FEL

**Note:**

Bearings are based on GPS Observations.

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

WELL	LATITUDE	LONGITUDE
R-16-9-17	40° 01' 31.13"	110° 00' 33.02"
W-16-9-17	40° 01' 31.09"	110° 00' 32.75"
15-16-9-17	40° 01' 31.04"	110° 00' 32.48"

### RELATIVE COORDINATES From Top Hole to Bottom Hole

WELL	NORTH	EAST
R-16-9-17	859'	-868'
W-16-9-17	-513'	-674'

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

WELL	NORTH	EAST
R-16-9-17	668'	-675'

SURVEYED BY: K.S.	DATE SURVEYED: 02-28-11	VERSION: V2
DRAWN BY: F.T.M.	DATE DRAWN: 03-31-11	
SCALE: 1" = 50'	REVISED: F.T.M. 09-15-11	

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

# NEWFIELD EXPLORATION COMPANY

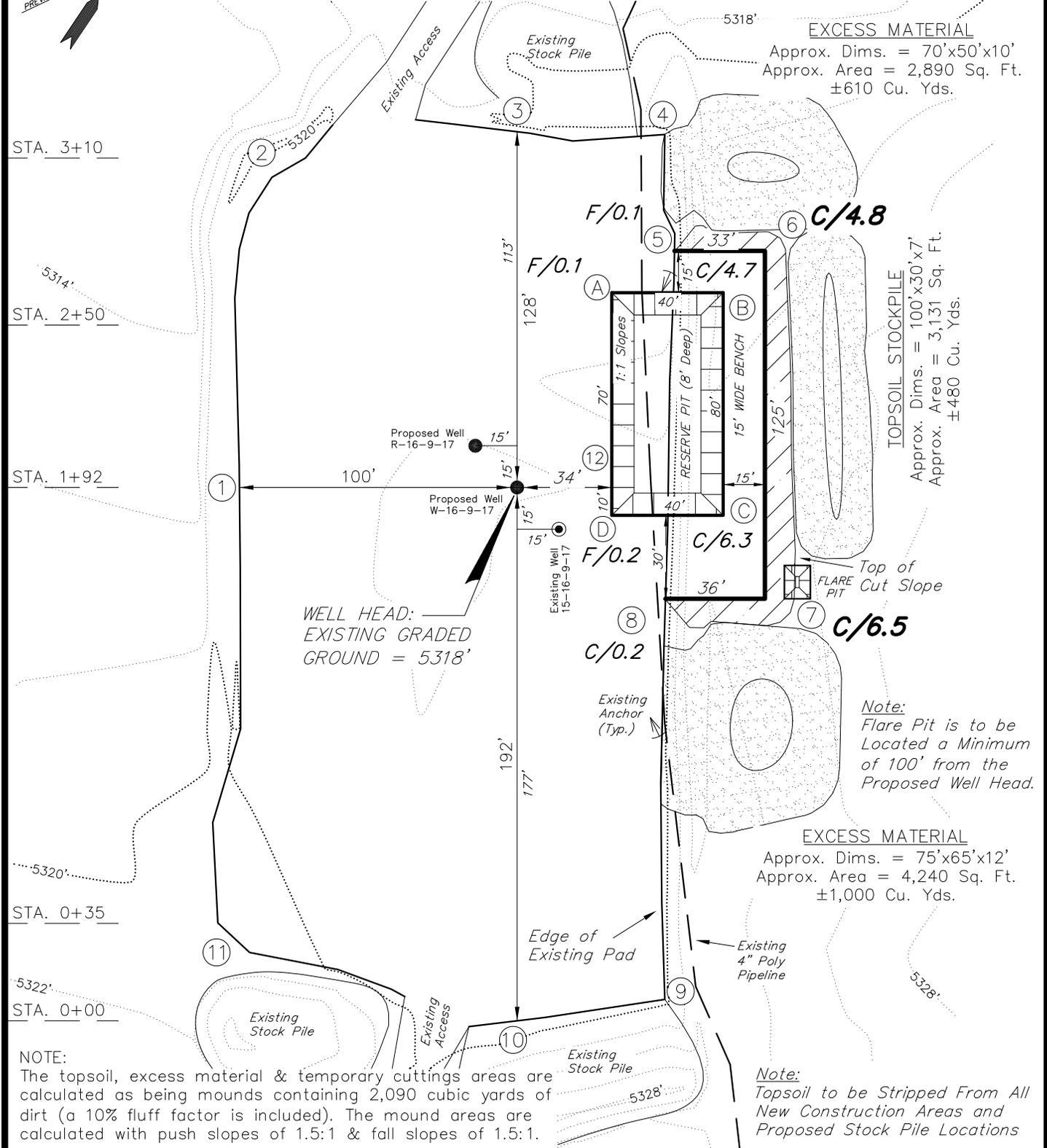
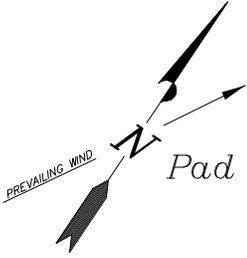
## LOCATION LAYOUT

15-16-9-17 (Existing Well)

R-16-9-17 (Proposed Well)

W-16-9-17 (Proposed Well)

Pad Location: SWSE Section 16, T9S, R17E, S.L.B.&M.



**EXCESS MATERIAL**  
 Approx. Dims. = 70'x50'x10'  
 Approx. Area = 2,890 Sq. Ft.  
 ±610 Cu. Yds.

**TOPSOIL STOCKPILE**  
 Approx. Dims. = 100'x30'x7'  
 Approx. Area = 3,131 Sq. Ft.  
 ±480 Cu. Yds.

**EXCESS MATERIAL**  
 Approx. Dims. = 75'x65'x12'  
 Approx. Area = 4,240 Sq. Ft.  
 ±1,000 Cu. Yds.

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

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

**NOTE:**  
 The topsoil, excess material & temporary cuttings areas are calculated as being mounds containing 2,090 cubic yards of dirt (a 10% fluff factor is included). The mound areas are calculated with push slopes of 1.5:1 & fall slopes of 1.5:1.

SURVEYED BY: K.S.	DATE SURVEYED: 02-28-11	VERSION:
DRAWN BY: F.T.M.	DATE DRAWN: 03-31-11	V2
SCALE: 1" = 50'	REVISED: F.T.M. 09-15-11	

**Tri State** (435) 781-2501  
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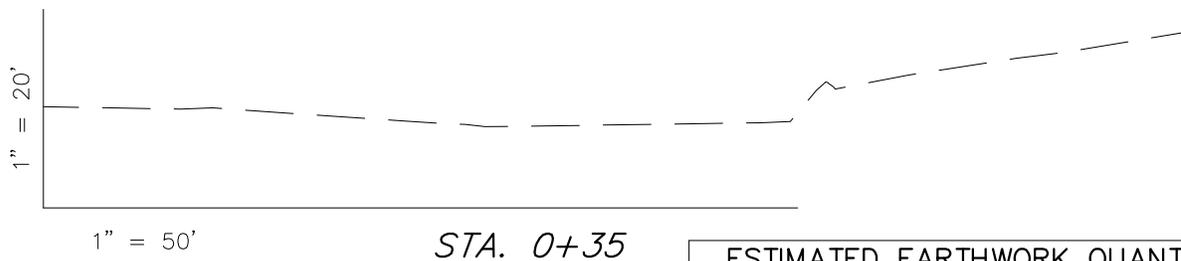
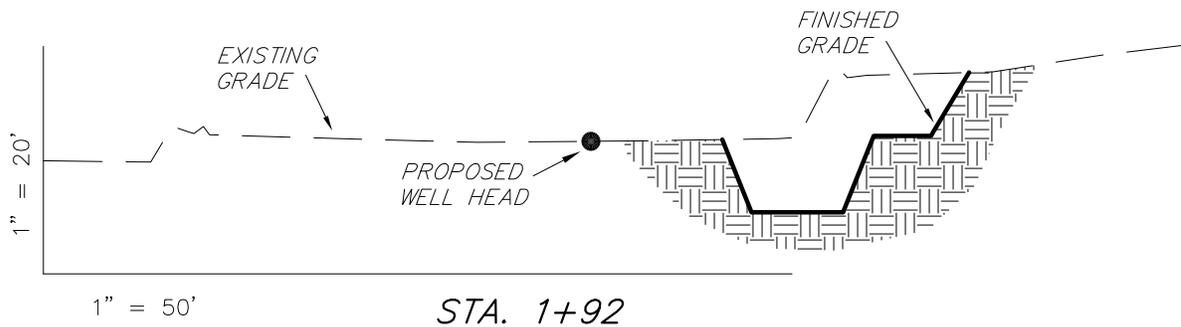
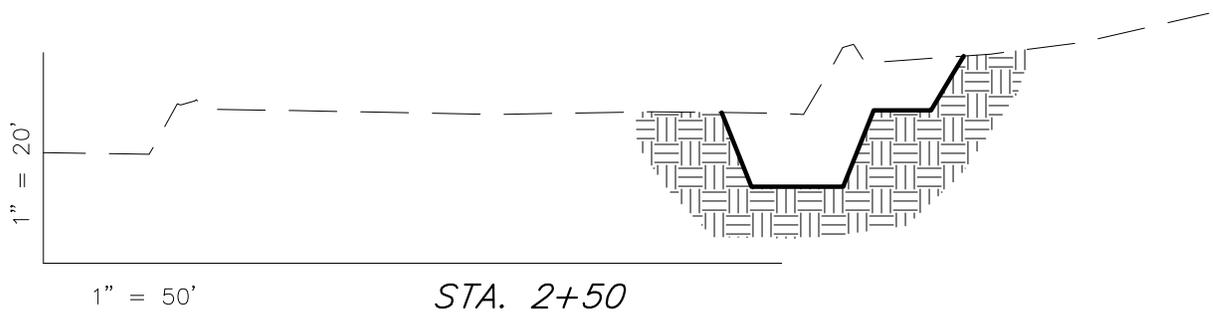
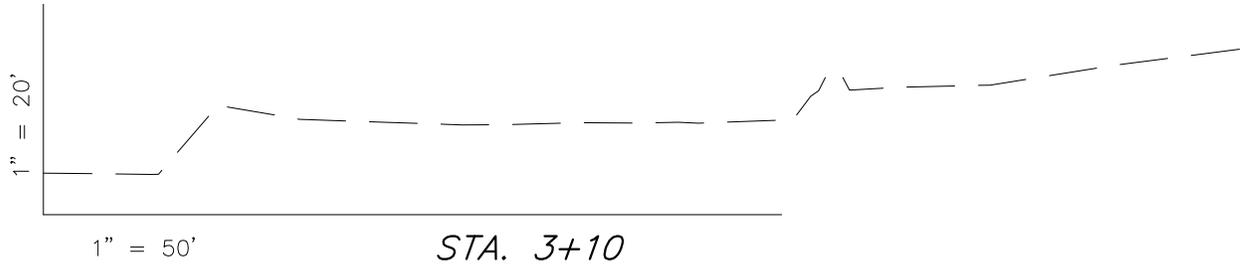
## CROSS SECTIONS

**15-16-9-17 (Existing Well)**

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

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

*Pad Location: SWSE Section 16, T9S, R17E, S.L.B.&M.*



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

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

ITEM	CUT	FILL	6" TOPSOIL	EXCESS
PAD	790	20	Topsoil is not included in Pad Cut	770
PIT	690	0		690
<b>TOTALS</b>	<b>1,480</b>	<b>20</b>	<b>430</b>	<b>1,460</b>

SURVEYED BY: K.S.	DATE SURVEYED: 02-28-11	VERSION: V2
DRAWN BY: F.T.M.	DATE DRAWN: 03-31-11	
SCALE: 1" = 50'	REVISED: F.T.M. 09-15-11	

*Tri State*

*Land Surveying, Inc.*

180 NORTH VERNAL AVE. VERNAL, UTAH 84078

(435) 781-2501

RECEIVED: September 14, 2011

# NEWFIELD EXPLORATION COMPANY

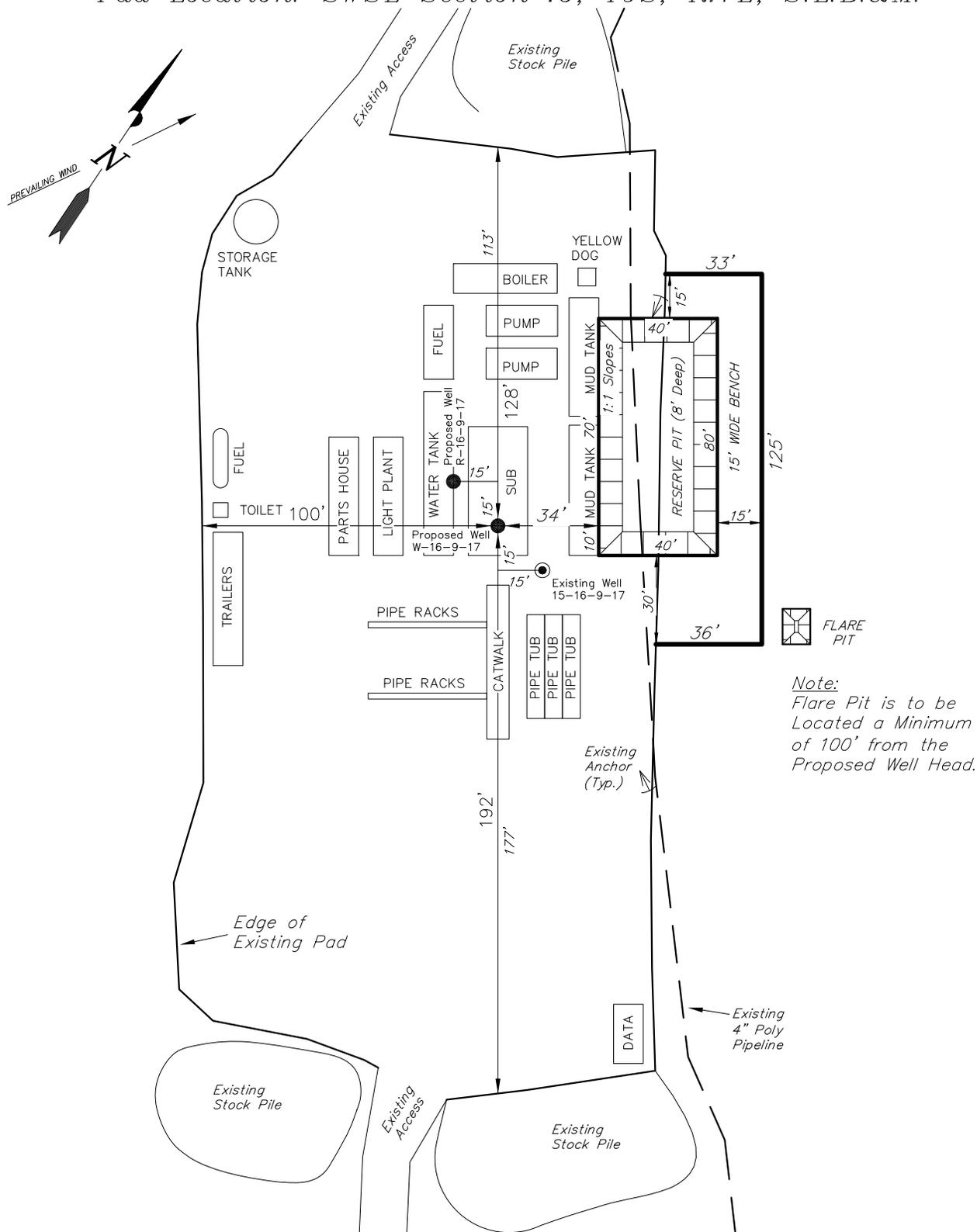
## TYPICAL RIG LAYOUT

15-16-9-17 (Existing Well)

R-16-9-17 (Proposed Well)

W-16-9-17 (Proposed Well)

Pad Location: SWSE Section 16, T9S, R17E, S.L.B.&M.



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

SURVEYED BY: K.S.	DATE SURVEYED: 02-28-11	VERSION:
DRAWN BY: F.T.M.	DATE DRAWN: 03-31-11	V2
SCALE: 1" = 50'	REVISED: F.T.M. 09-15-11	

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



VIA ELECTRONIC DELIVERY

September 15, 2011

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

RE: Directional Drilling  
**GMBU W-16-9-17**  
Greater Monument Butte (Green River) Unit

Surface Hole: T9S-R17E Section 16: SWSE (ML-3453B)  
582' FSL 1940' FEL

At Target: T9S-R17E Section 16: SWSE (ML-3453B)  
80' FSL 2623' 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 9/14/2011, 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 "PB", with a horizontal line extending to the right.

Peter Burns  
Land Associate

API Well Number:

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS AND MINING							FORM 3			
							AMENDED REPORT <input type="checkbox"/>			
<b>APPLICATION FOR PERMIT TO DRILL</b>				<b>1. WELL NAME and NUMBER</b> GMBU W-16-9-17						
<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> ML-3453B		<b>11. MINERAL OWNERSHIP</b> FEDERAL <input type="checkbox"/> INDIAN <input type="checkbox"/> STATE <input checked="" type="checkbox"/> FEE <input type="checkbox"/>		<b>12. SURFACE OWNERSHIP</b> FEDERAL <input type="checkbox"/> INDIAN <input type="checkbox"/> STATE <input checked="" 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	582 FSL 1940 FEL	SWSE	16	9.0 S	17.0 E	S				
Top of Uppermost Producing Zone	841 FSL 2280 FEL	SWSE	16	9.0 S	17.0 E	S				
At Total Depth	80 FSL 2623 FEL	SWSE	16	9.0 S	17.0 E	S				
<b>21. COUNTY</b> DUCHESENE		<b>22. DISTANCE TO NEAREST LEASE LINE (Feet)</b> 80		<b>23. NUMBER OF ACRES IN DRILLING UNIT</b> 20						
		<b>25. DISTANCE TO NEAREST WELL IN SAME POOL (Applied For Drilling or Completed)</b> 1538		<b>26. PROPOSED DEPTH</b> MD: 5832 TVD: 5760						
<b>27. ELEVATION - GROUND LEVEL</b> 5318		<b>28. BOND NUMBER</b> B001834		<b>29. SOURCE OF DRILLING WATER / WATER RIGHTS APPROVAL NUMBER IF APPLICABLE</b> 437478						
<b>Hole, Casing, and Cement Information</b>										
String	Hole Size	Casing Size	Length	Weight	Grade & Thread	Max Mud Wt.	Cement	Sacks	Yield	Weight
Surf	12.25	8.625	0 - 300	24.0	J-55 ST&C	8.3	Class G	138	1.17	15.8
Prod	7.875	5.5	0 - 5832	15.5	J-55 ST&C	8.3	Premium Lite High Strength	265	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					
NAME Mandie Crozier			TITLE Regulatory Tech			PHONE 435 646-4825				
SIGNATURE			DATE			EMAIL mcrozier@newfield.com				
API NUMBER ASSIGNED			APPROVAL							

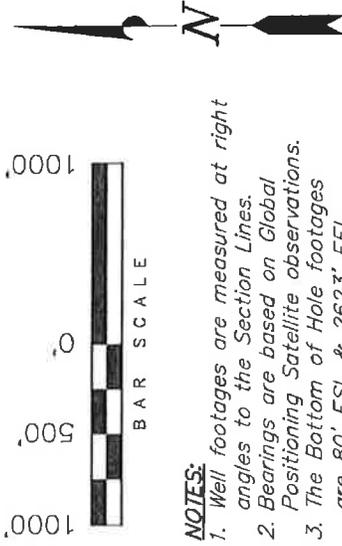
Received: September 14, 2011

# T9S, R17E, S.L.B.&M.

## NEWFIELD EXPLORATION COMPANY

WELL LOCATION, W-16-9-17, LOCATED AS SHOWN IN THE SW 1/4 SE 1/4 OF SECTION 16, T9S, R17E, S.L.B.&M. DUCHESNE COUNTY, UTAH.

TARGET BOTTOM HOLE, W-16-9-17, LOCATED AS SHOWN IN THE SW 1/4 SE 1/4 OF SECTION 16, T9S, R17E, S.L.B.&M. DUCHESNE COUNTY, UTAH.

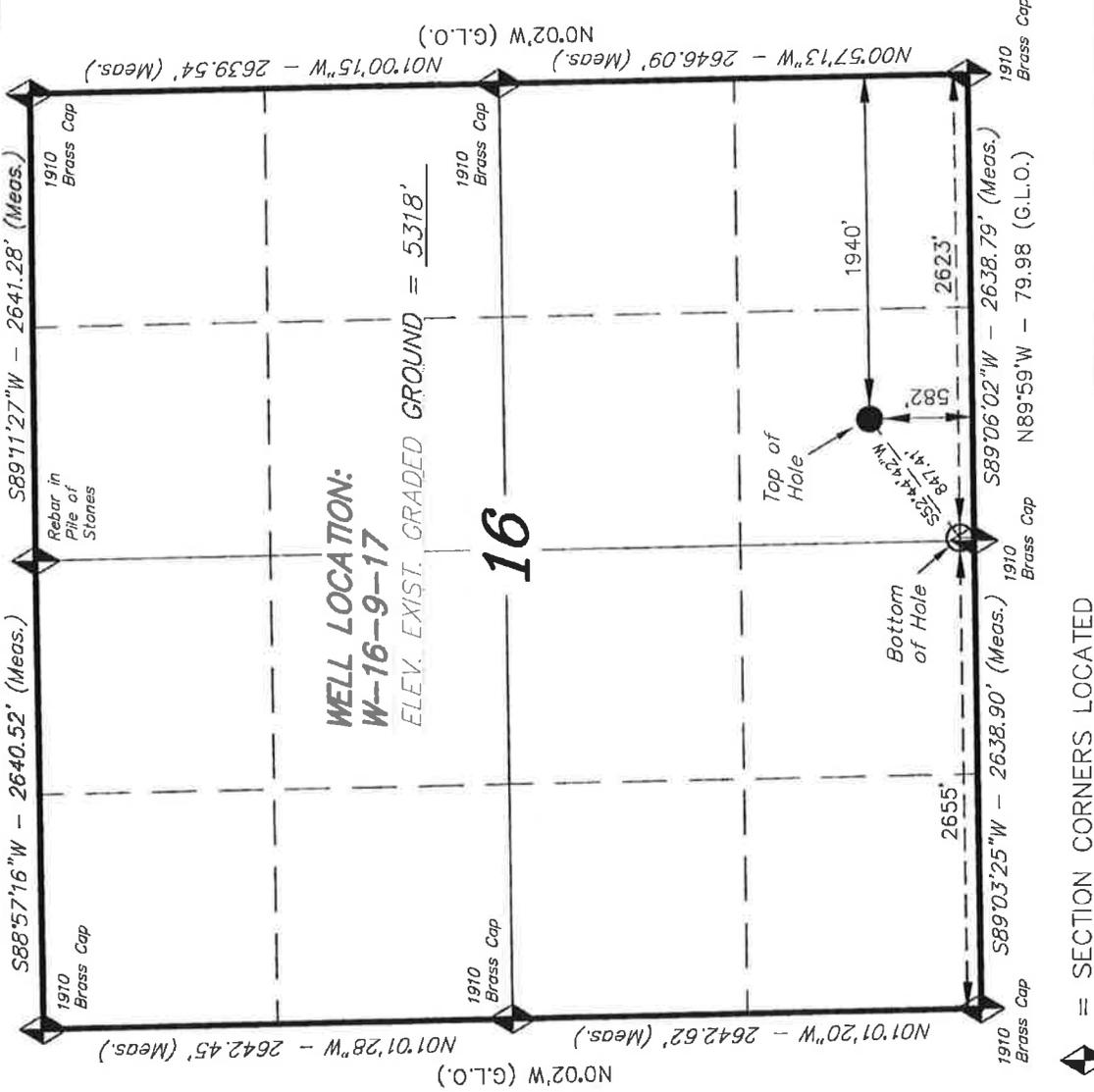


**NOTES:**

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 80' FSL & 2623' FEL.

THIS IS TO CERTIFY THAT THE ABOVE SET WAS PREPARED FROM FIELD NOTES OF A C.L.S. SURVEY MADE BY ME OR UNDER MY SUPERVISION THAT THE SAME ARE TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.

STACY W.  
08-15-11  
REGISTERED LAND SURVEYOR  
STATE OF UTAH



**W-16-9-17**  
(Surface Location) NAD 83  
 LATITUDE = 40° 01' 31.09"  
 LONGITUDE = 110° 00' 32.75"

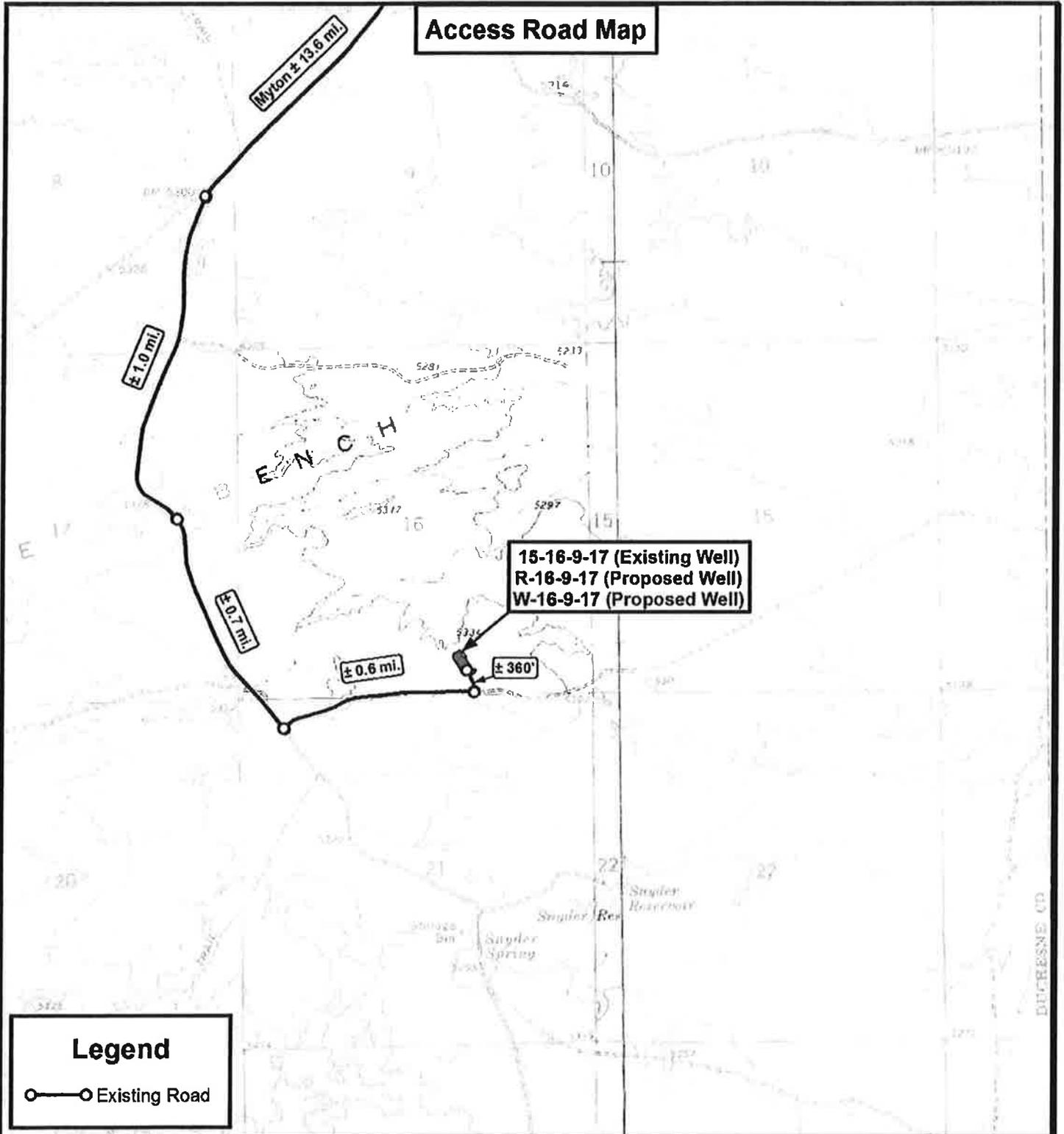
◆ = SECTION CORNERS LOCATED

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

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

DATE SURVEYED: 02-28-11	SURVEYED BY: K.S.	VERSION:
DATE DRAWN: 03-31-11	DRAWN BY: F.T.M.	V2
REVISED: 08-09-11 F.T.M.	SCALE: 1" = 1000'	

**Access Road Map**



**Legend**

○—○ Existing Road

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



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

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



**NEWFIELD EXPLORATION COMPANY**

15-16-9-17 (Existing Well)  
R-16-9-17 (Proposed Well)  
W-16-9-17 (Proposed Well)  
SEC. 16, T9S, R17E, S.L.B.&M. Duchesne County, UT.

DRAWN BY:	C.H.M.	REVISED:	08-09-11 CHM	VERSION:
DATE:	04-05-2011			V2
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)

September 16, 2011

Memorandum

To: Assistant District Manager Minerals, Vernal District  
From: Michael Coulthard, Petroleum Engineer  
Subject: 2011 Plan of Development Greater Monument  
Butte Unit, Duchesne and Uintah Counties,  
Utah.

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

API#	WELL NAME	LOCATION
(Proposed PZ GREEN RIVER)		
43-013-50957	GMBU 2-32-8-16H	Sec 32 T08S R16E 0274 FNL 1529 FEL
	Lateral 1	Sec 32 T08S R16E 0090 FSL 1500 FWL
43-013-50958	GMBU 1A-36-8-16H	Sec 36 T08S R16E 0957 FNL 0256 FEL
	Lateral 1	Sec 36 T08S R16E 0160 FSL 2100 FEL
43-013-50959	GMBU 1-16-9-17H	Sec 16 T09S R17E 1037 FNL 0406 FEL
	Lateral 1	Sec 16 T09S R17E 0100 FSL 2600 FEL
43-013-50960	GMBU 1A-32-8-17H	Sec 32 T08S R17E 0797 FNL 0863 FEL
	Lateral 1	Sec 32 T08S R17E 0220 FSL 2420 FWL
43-013-50967	GMBU 3-32-8-17H	Sec 32 T08S R17E 1010 FNL 1735 FWL
	Lateral 1	Sec 32 T08S R17E 0100 FSL 0100 FWL
43-013-50968	GMBU 3-2-9-15H	Sec 02 T09S R15E 1107 FNL 1468 FWL
	Lateral 1	Sec 02 T09S R15E 0100 FSL 0100 FWL
43-013-50970	GMBU B-2-9-15	Sec 02 T09S R15E 0641 FNL 1945 FEL
	BHL	Sec 02 T09S R15E 0080 FNL 1180 FEL

**RECEIVED: September 16, 2011**

API#	WELL NAME	LOCATION
(Proposed PZ GREEN RIVER)		
43-013-50971	GMBU C-2-9-15	Sec 02 T09S R15E 0655 FNL 1961 FEL BHL Sec 02 T09S R15E 0080 FNL 2635 FEL
43-013-50972	GMBU W-16-9-17	Sec 16 T09S R17E 0582 FSL 1940 FEL BHL Sec 16 T09S R17E 0080 FSL 2623 FEL
43-047-52011	GMBU 1-36T-8-17H	Sec 36 T08S R17E 0646 FNL 0957 FEL Lateral 1 Sec 36 T08S R17E 0130 FSL 2435 FWL

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

Michael L. Coulthard

Digitally signed by Michael L. Coulthard  
DN: cn=Michael L. Coulthard, o=Bureau of Land Management,  
ou=Branch of Minerals, email=Michael\_Coulthard@blm.gov,  
c=US  
Date: 2011.09.16 15:48:58 -06'00'

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

MCoulthard:mc:9-16-11

**RECEIVED: September 16, 2011**

**From:** "Mandie Crozier" <mcrozier@newfield.com>  
**To:** "Diana Mason" <dianawhitney@utah.gov>  
**Date:** 9/19/2011 10:58 AM  
**Subject:** RE: Question

Here is a better explanation from him:

Mandie,

If this is an issue, please let Diana know that we are targeting the BSCARB (also known as the Uteland Butte) in the horizontal wells, and we will not complete the W-16-9-17 well in this interval. The W-16-9-16 will be completed in the Green River sandstones overlying the horizontal target.

Let me know if you need any further information for this.

Steve

Mandie Crozier  
Newfield Production  
Office (435) 646-4825  
Cell (435) 401-8335

-----Original Message-----

From: Diana Mason [mailto:dianawhitney@utah.gov]  
Sent: Friday, September 16, 2011 2:18 PM  
To: Mandie Crozier  
Subject: Question

Hi Mandie,

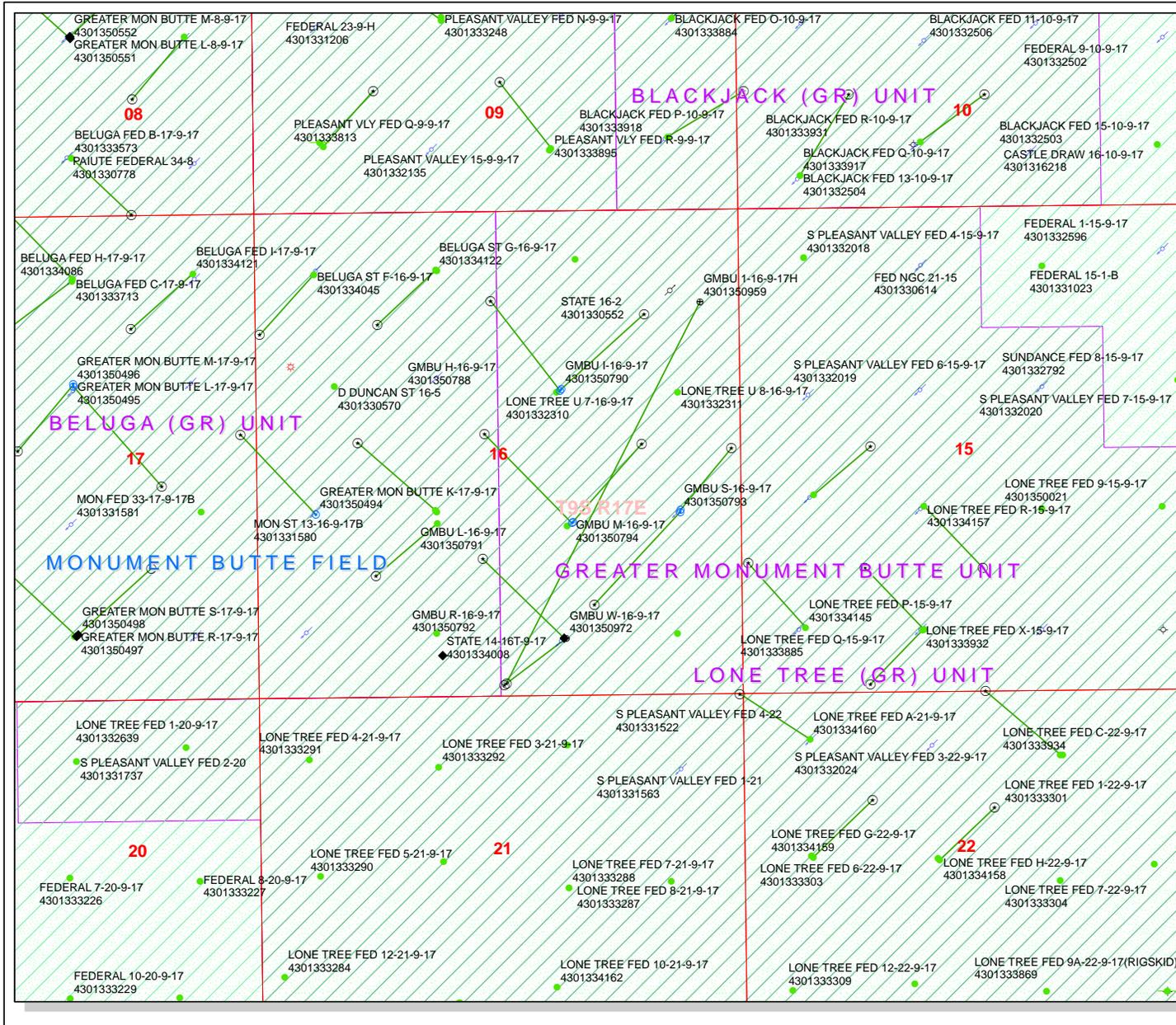
Im making my maps and it looks like these two BHL are right on top of each other. Will you double check on their locations?

GMBU 1-16-9-17H    BHL 100 FSL 2600 FEL  
GMBU W-16-9-17    BHL 080 FSL 2623 FEL

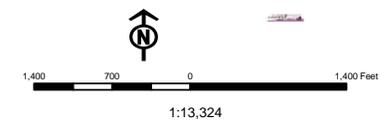
Thank you,  
Diana

**API Number: 4301350972**  
**Well Name: GMBU W-16-9-17**  
 Township T0.9 . Range R1.7 . Section 16  
 Meridian: SLBM  
 Operator: NEWFIELD PRODUCTION COMPANY

Map Prepared:  
 Map Produced by Diana Mason



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



**From:** Jim Davis  
**To:** APD APPROVAL  
**CC:** mcrozier@newfield.com  
**Date:** 10/27/2011 3:11 PM  
**Subject:** Newfield APD approvals

The following APD has been approved by SITLA including arch and paleo clearance

4301350972 GMBU W-16-9-17

Thanks.  
-Jim

Jim Davis  
Utah Trust Lands Administration  
jimdavis1@utah.gov  
Phone: (801) 538-5156

Well Name	NEWFIELD PRODUCTION COMPANY GMBU W-16-9-17 4301			
String	SURF	PROD		
Casing Size(")	8.625	5.500		
Setting Depth (TVD)	300	5760		
Previous Shoe Setting Depth (TVD)	0	300		
Max Mud Weight (ppg)	8.3	8.4		
BOPE Proposed (psi)	500	2000		
Casing Internal Yield (psi)	2950	4810		
Operators Max Anticipated Pressure (psi)	2494	8.3		

Calculations	<b>SURF String</b>	<b>8.625</b>	<b>"</b>
Max BHP (psi)	.052*Setting Depth*MW=	129	
			<b>BOPE Adequate For Drilling And Setting Casing at Depth?</b>
MASP (Gas) (psi)	Max BHP-(0.12*Setting Depth)=	93	YES <input type="checkbox"/> air drill
MASP (Gas/Mud) (psi)	Max BHP-(0.22*Setting Depth)=	63	YES <input type="checkbox"/> OK
			<b>*Can Full Expected Pressure Be Held At Previous Shoe?</b>
Pressure At Previous Shoe	Max BHP-.22*(Setting Depth - Previous Shoe Depth)=	63	NO <input type="checkbox"/> OK
Required Casing/BOPE Test Pressure=		300	psi
*Max Pressure Allowed @ Previous Casing Shoe=		0	psi *Assumes 1psi/ft frac gradient

Calculations	<b>PROD String</b>	<b>5.500</b>	<b>"</b>
Max BHP (psi)	.052*Setting Depth*MW=	2516	
			<b>BOPE Adequate For Drilling And Setting Casing at Depth?</b>
MASP (Gas) (psi)	Max BHP-(0.12*Setting Depth)=	1825	YES <input type="checkbox"/>
MASP (Gas/Mud) (psi)	Max BHP-(0.22*Setting Depth)=	1249	YES <input type="checkbox"/> OK
			<b>*Can Full Expected Pressure Be Held At Previous Shoe?</b>
Pressure At Previous Shoe	Max BHP-.22*(Setting Depth - Previous Shoe Depth)=	1315	NO <input type="checkbox"/> Reasonable for area
Required Casing/BOPE Test Pressure=		2000	psi
*Max Pressure Allowed @ Previous Casing Shoe=		300	psi *Assumes 1psi/ft frac gradient

Calculations	<b>String</b>		<b>"</b>
Max BHP (psi)	.052*Setting Depth*MW=		
			<b>BOPE Adequate For Drilling And Setting Casing at Depth?</b>
MASP (Gas) (psi)	Max BHP-(0.12*Setting Depth)=		NO <input type="checkbox"/>
MASP (Gas/Mud) (psi)	Max BHP-(0.22*Setting Depth)=		NO <input type="checkbox"/>
			<b>*Can Full Expected Pressure Be Held At Previous Shoe?</b>
Pressure At Previous Shoe	Max BHP-.22*(Setting Depth - Previous Shoe Depth)=		NO <input type="checkbox"/>
Required Casing/BOPE Test Pressure=			psi
*Max Pressure Allowed @ Previous Casing Shoe=			psi *Assumes 1psi/ft frac gradient

Calculations	<b>String</b>		<b>"</b>
Max BHP (psi)	.052*Setting Depth*MW=		
			<b>BOPE Adequate For Drilling And Setting Casing at Depth?</b>
MASP (Gas) (psi)	Max BHP-(0.12*Setting Depth)=		NO <input type="checkbox"/>
MASP (Gas/Mud) (psi)	Max BHP-(0.22*Setting Depth)=		NO <input type="checkbox"/>
			<b>*Can Full Expected Pressure Be Held At Previous Shoe?</b>
Pressure At Previous Shoe	Max BHP-.22*(Setting Depth - Previous Shoe Depth)=		NO <input type="checkbox"/>
Required Casing/BOPE Test Pressure=			psi

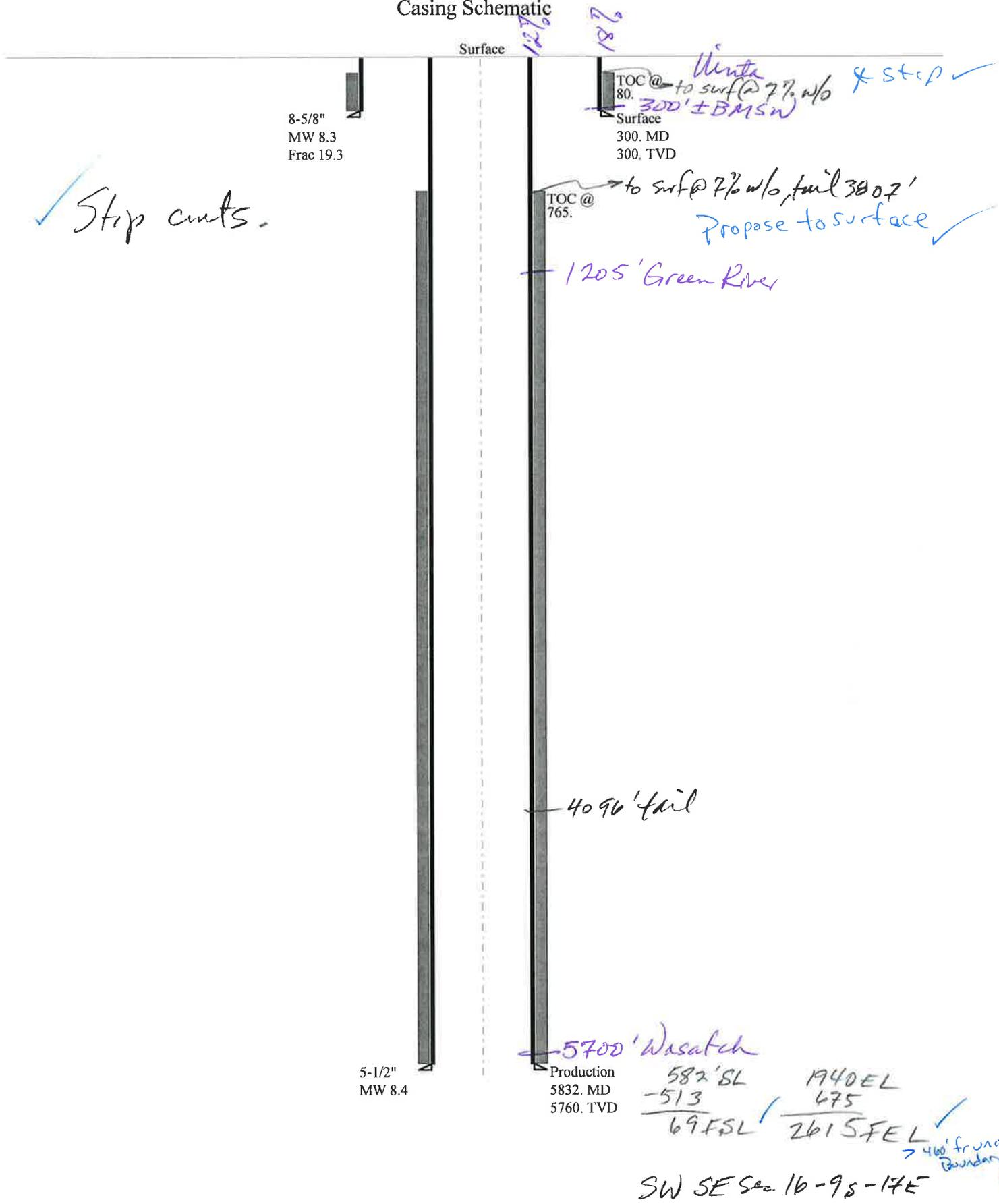
API Well Number: 43013509720000

\*Max Pressure Allowed @ Previous Casing Shoe=

psi \*Assumes 1psi/ft frac gradient

# 43013509720000 GMBU W-16-9-17

## Casing Schematic



Well name:	<b>43013509720000 GMBU W-16-9-17</b>		
Operator:	<b>NEWFIELD PRODUCTION COMPANY</b>		
String type:	Surface	Project ID:	43-013-50972
Location:	DUCHESNE COUNTY		

**Design parameters:**

**Collapse**

Mud weight: 8.330 ppg  
 Design is based on evacuated pipe.

**Minimum design factors:**

**Collapse:**

Design factor 1.125

**Burst:**

Design factor 1.00

**Environment:**

H2S considered? No  
 Surface temperature: 74 °F  
 Bottom hole temperature: 78 °F  
 Temperature gradient: 1.40 °F/100ft  
 Minimum section length: 100 ft

Cement top: 80 ft

**Burst**

Max anticipated surface pressure: 264 psi  
 Internal gradient: 0.120 psi/ft  
 Calculated BHP 300 psi

No backup mud specified.

**Tension:**

8 Round STC: 1.80 (J)  
 8 Round LTC: 1.70 (J)  
 Buttress: 1.60 (J)  
 Premium: 1.50 (J)  
 Body yield: 1.50 (B)

Tension is based on air weight.  
 Neutral point: 262 ft

**Non-directional string.**

**Re subsequent strings:**

Next setting depth: 5,760 ft  
 Next mud weight: 8.400 ppg  
 Next setting BHP: 2,513 psi  
 Fracture mud wt: 19.250 ppg  
 Fracture depth: 300 ft  
 Injection pressure: 300 psi

Run Seq	Segment Length (ft)	Size (in)	Nominal Weight (lbs/ft)	Grade	End Finish	True Vert Depth (ft)	Measured Depth (ft)	Drift Diameter (in)	Est. Cost (\$)
1	300	8.625	24.00	J-55	ST&C	300	300	7.972	1544
Run Seq	Collapse Load (psi)	Collapse Strength (psi)	Collapse Design Factor	Burst Load (psi)	Burst Strength (psi)	Burst Design Factor	Tension Load (kips)	Tension Strength (kips)	Tension Design Factor
1	130	1370	10.557	300	2950	9.83	7.2	244	33.90 J

Prepared by: Helen Sadik-Macdonald  
 Div of Oil, Gas & Mining

Phone: 801 538-5357  
 FAX: 801-359-3940

Date: December 15, 2011  
 Salt Lake City, Utah

**Remarks:**

Collapse is based on a vertical depth of 300 ft, a mud weight of 8.33 ppg. The casing is considered to be evacuated for collapse purposes. Collapse strength is based on the Westcott, Dunlop & Kemler method of biaxial correction for tension.

Burst strength is not adjusted for tension.

Well name:	<b>43013509720000 GMBU W-16-9-17</b>		
Operator:	<b>NEWFIELD PRODUCTION COMPANY</b>		
String type:	Production	Project ID:	43-013-50972
Location:	DUCHESNE COUNTY		

**Design parameters:**

**Collapse**

Mud weight: 8.400 ppg  
 Design is based on evacuated pipe.

**Minimum design factors:**

**Collapse:**

Design factor 1.125

**Burst:**

Design factor 1.00

**Environment:**

H2S considered? No  
 Surface temperature: 74 °F  
 Bottom hole temperature: 155 °F  
 Temperature gradient: 1.40 °F/100ft  
 Minimum section length: 100 ft  
 Cement top: 765 ft

**Burst**

Max anticipated surface pressure: 1,246 psi  
 Internal gradient: 0.220 psi/ft  
 Calculated BHP 2,513 psi

No backup mud specified.

**Tension:**

8 Round STC: 1.80 (J)  
 8 Round LTC: 1.80 (J)  
 Buttress: 1.60 (J)  
 Premium: 1.50 (J)  
 Body yield: 1.60 (B)

Tension is based on air weight.  
 Neutral point: 5,089 ft

**Directional Info - Build & Hold**

Kick-off point 600 ft  
 Departure at shoe: 847 ft  
 Maximum dogleg: 1.5 °/100ft  
 Inclination at shoe: 9.96 °

Run Seq	Segment Length (ft)	Size (in)	Nominal Weight (lbs/ft)	Grade	End Finish	True Vert Depth (ft)	Measured Depth (ft)	Drift Diameter (in)	Est. Cost (\$)
1	5832	5.5	15.50	J-55	LT&C	5760	5832	4.825	20593
Run Seq	Collapse Load (psi)	Collapse Strength (psi)	Collapse Design Factor	Burst Load (psi)	Burst Strength (psi)	Burst Design Factor	Tension Load (kips)	Tension Strength (kips)	Tension Design Factor
1	2513	4040	1.607	2513	4810	1.91	89.3	217	2.43 J

Prepared by: Helen Sadik-Macdonald  
 Div of Oil, Gas & Mining

Phone: 801 538-5357  
 FAX: 801-359-3940

Date: December 15, 2011  
 Salt Lake City, Utah

**Remarks:**

Collapse is based on a vertical depth of 5760 ft, a mud weight of 8.4 ppg. The casing is considered to be evacuated for collapse purposes. Collapse strength is based on the Westcott, Dunlop & Kemler method of biaxial correction for tension.

Burst strength is not adjusted for tension.

Collapse strength is (biaxially) derated for doglegs in directional wells by multiplying the tensile stress by the cross section area to calculate a

# ON-SITE PREDRILL EVALUATION

## Utah Division of Oil, Gas and Mining

**Operator** NEWFIELD PRODUCTION COMPANY  
**Well Name** GMBU W-16-9-17  
**API Number** 43013509720000      **APD No** 4653      **Field/Unit** MONUMENT BUTTE  
**Location: 1/4,1/4** SWSE      **Sec** 16      **Tw** 9.0S      **Rng** 17.0E      582 FSL 1940 FEL  
**GPS Coord (UTM)**      **Surface Owner**

### Participants

M. Jones (UDOGM), T. Eaton (Newfield), B. Williams, A. Hansen (UDWR), Corie Miller (Tri-State).

### Regional/Local Setting & Topography

Proposed location is located approximately 16 road miles southwest of Myton, Utah, in the Pariette Bench area. Lower elevations of surrounding area create small drainages that will typically run water during storm events.

### Surface Use Plan

#### **Current Surface Use**

Grazing  
Wildlife Habitat

<b>New Road Miles</b>	<b>Well Pad</b>	<b>Src Const Material</b>	<b>Surface Formation</b>
0	<b>Width</b> 134 <b>Length</b> 320	Onsite	

#### **Ancillary Facilities**

### Waste Management Plan Adequate?

### Environmental Parameters

**Affected Floodplains and/or Wetlands** N

#### **Flora / Fauna**

Existing well pad.

#### **Soil Type and Characteristics**

rocky clay

**Erosion Issues** N

**Sedimentation Issues** N

**Site Stability Issues** N

**Drainage Diversion Required?** Y

Divert Drainages around and away from wellpad and access road.

**Berm Required?** Y

Berm location to contain spills and leaks.

**Erosion Sedimentation Control Required?** N

Paleo Survey Run? Y Paleo Potential Observed? N Cultural Survey Run? Y Cultural Resources? N

**Reserve Pit**

**Site-Specific Factors**

**Site Ranking**

<b>Distance to Groundwater (feet)</b>	>200	0	
<b>Distance to Surface Water (feet)</b>	>1000	0	
<b>Dist. Nearest Municipal Well (ft)</b>	>5280	0	
<b>Distance to Other Wells (feet)</b>		20	
<b>Native Soil Type</b>	Mod permeability	10	
<b>Fluid Type</b>	Fresh Water	5	
<b>Drill Cuttings</b>	Normal Rock	0	
<b>Annual Precipitation (inches)</b>	10 to 20	5	
<b>Affected Populations</b>			
<b>Presence Nearby Utility Conduits</b>	Not Present	0	
	<b>Final Score</b>	40	1 Sensitivity Level

**Characteristics / Requirements**

Dugout earthen (165 x 100 x 8) exterior to pad dimensions.

Closed Loop Mud Required? N Liner Required? Y Liner Thickness 16 Pit Underlayment Required? N

**Other Observations / Comments**

Mark Jones  
**Evaluator**

9/29/2011  
**Date / Time**

# Application for Permit to Drill Statement of Basis

12/29/2011

## Utah Division of Oil, Gas and Mining

Page 1

<b>APD No</b>	<b>API WellNo</b>	<b>Status</b>	<b>Well Type</b>	<b>Surf Owner</b>	<b>CBM</b>
4653	43013509720000	LOCKED	OW	S	No
<b>Operator</b>	NEWFIELD PRODUCTION COMPANY		<b>Surface Owner-APD</b>		
<b>Well Name</b>	GMBU W-16-9-17		<b>Unit</b>	GMBU (GRRV)	
<b>Field</b>	MONUMENT BUTTE		<b>Type of Work</b>	DRILL	
<b>Location</b>	SWSE 16 9S 17E S 582 FSL 1940 FEL GPS Coord (UTM) 584564E 4431045N				

### Geologic Statement of Basis

Newfield proposes to set 300' of surface casing at this location. The depth to the base of the moderately saline water at this location is estimated to be at a depth of 300'. A search of Division of Water Rights records shows no water wells within a 10,000 foot radius of the center of Section 16. The surface formation at this site is the Uinta Formation. The Uinta Formation is made up of interbedded shales and sandstones. The sandstones are mostly lenticular and discontinuous and should not be a significant source of useable ground water. The proposed casing and cement should adequately protect useable sources of underground water.

Brad Hill  
**APD Evaluator**

11/1/2011  
**Date / Time**

### Surface Statement of Basis

Proposed location is located approximately 16 road miles southwest of Myton, Utah, in the Pariette Bench area. Lower elevations of surrounding area create small drainages that will typically run water during storm events. The location should be bermed to prevent spills from leaving the confines of the pad. Fencing around the reserve pit will be necessary once the well is drilled to prevent wildlife and livestock from becoming a problem. Drainages should be diverted around and away from wellpad and access road. A synthetic liner of 16 mils (minimum) should be utilized in the reserve pit.

Mark Jones  
**Onsite Evaluator**

9/29/2011  
**Date / Time**

### Conditions of Approval / Application for Permit to Drill

Category	Condition
Pits	A synthetic liner with a minimum thickness of 16 mils shall be properly installed and maintained in the reserve pit.
Surface	The well site shall be bermed to prevent fluids from leaving the pad.
Surface	Drainages adjacent to the proposed pad shall be diverted around the location.
Surface	The reserve pit shall be fenced upon completion of drilling operations.

## WORKSHEET APPLICATION FOR PERMIT TO DRILL

**APD RECEIVED:** 9/14/2011

**API NO. ASSIGNED:** 43013509720000

**WELL NAME:** GMBU W-16-9-17

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

**PHONE NUMBER:** 435 646-4825

**CONTACT:** Mandie Crozier

**PROPOSED LOCATION:** SWSE 16 090S 170E

**Permit Tech Review:**

**SURFACE:** 0582 FSL 1940 FEL

**Engineering Review:**

**BOTTOM:** 0080 FSL 2623 FEL

**Geology Review:**

**COUNTY:** DUCHESNE

**LATITUDE:** 40.02538

**LONGITUDE:** -110.00896

**UTM SURF EASTINGS:** 584564.00

**NORTHINGS:** 4431045.00

**FIELD NAME:** MONUMENT BUTTE

**LEASE TYPE:** 3 - State

**LEASE NUMBER:** ML-3453B

**PROPOSED PRODUCING FORMATION(S):** GREEN RIVER

**SURFACE OWNER:** 3 - State

**COALBED METHANE:** NO

**RECEIVED AND/OR REVIEWED:**

- PLAT
- Bond: STATE - B001834
- 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:** 5 - Statement of Basis - bhill  
8 - Cement to Surface -- 2 strings - hmadonald  
15 - Directional - dmason  
27 - Other - bhill



GARY R. HERBERT  
*Governor*

GREGORY S. BELL  
*Lieutenant Governor*

## State of Utah

DEPARTMENT OF NATURAL RESOURCES

MICHAEL R. STYLER  
*Executive Director*

Division of Oil, Gas and Mining

JOHN R. BAZA  
*Division Director*

### Permit To Drill

\*\*\*\*\*

**Well Name:** GMBU W-16-9-17  
**API Well Number:** 43013509720000  
**Lease Number:** ML-3453B  
**Surface Owner:** STATE  
**Approval Date:** 12/29/2011

**Issued to:**

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

**Authority:**

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

**Duration:**

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

**General:**

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

**Conditions of Approval:**

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.

Compliance with the Conditions of Approval/Application for Permit to Drill outlined in the Statement of Basis (copy attached).

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).

Cement volumes for the 8 5/8" and 5 1/2" casing strings shall be determined from actual hole diameters in order to place cement from the pipe setting depths back to the surface.

**Additional Approvals:**

The operator is required to obtain approval from the Division of Oil, Gas and mining before performing any of the following actions during the drilling of this well:

- Any changes to the approved drilling plan – contact Dustin Doucet
- Significant plug back of the well – contact Dustin Doucet

- Plug and abandonment of the well – contact Dustin Doucet

**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  
OR  
submit an electronic sundry notice (pre-registration required) via the Utah Oil & Gas website at <http://oilgas.ogm.utah.gov>
- 24 hours prior to testing blowout prevention equipment - contact Dan Jarvis
- 24 hours prior to cementing or testing casing – contact Dan Jarvis
- Within 24 hours of making any emergency changes to the approved drilling program – contact Dustin Doucet
- 24 hours prior to commencing operations to plug and abandon the well – contact Dan Jarvis

**Contact Information:**

The following are Division of Oil, Gas and Mining contacts and their telephone numbers (please leave a voicemail message if the person is not available to take the call):

- Carol Daniels 801-538-5284 - office
- Dustin Doucet 801-538-5281 - office  
801-733-0983 - after office hours
- Dan Jarvis 801-538-5338 - office  
801-231-8956 - after office hours

**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:**



For John Rogers  
Associate Director, Oil & Gas

<b>STATE OF UTAH</b> DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING	<b>FORM 9</b>  <b>5.LEASE DESIGNATION AND SERIAL NUMBER:</b> ML-3453B
<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>6. IF INDIAN, ALLOTTEE OR TRIBE NAME:</b>  <b>7.UNIT or CA AGREEMENT NAME:</b> GMBU (GRRV)
<b>1. TYPE OF WELL</b> Oil Well	<b>8. WELL NAME and NUMBER:</b> GMBU W-16-9-17
<b>2. NAME OF OPERATOR:</b> NEWFIELD PRODUCTION COMPANY	<b>9. API NUMBER:</b> 43013509720000
<b>3. ADDRESS OF OPERATOR:</b> Rt 3 Box 3630 , Myton, UT, 84052	<b>PHONE NUMBER:</b> 435 646-4825 Ext
<b>4. LOCATION OF WELL</b> <b>FOOTAGES AT SURFACE:</b> 0582 FSL 1940 FEL <b>QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:</b> Qtr/Qtr: SWSE Section: 16 Township: 09.0S Range: 17.0E Meridian: S	<b>9. FIELD and POOL or WILDCAT:</b> MONUMENT BUTTE  <b>COUNTY:</b> DUCHESNE  <b>STATE:</b> UTAH

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

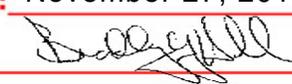
TYPE OF SUBMISSION	TYPE OF ACTION		
<input checked="" type="checkbox"/> <b>NOTICE OF INTENT</b> Approximate date work will start: 12/29/2012	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> CASING REPAIR
<input type="checkbox"/> <b>SUBSEQUENT REPORT</b> Date of Work Completion:	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> CHANGE WELL NAME
<input type="checkbox"/> <b>SPUD REPORT</b> Date of Spud:	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> CONVERT WELL TYPE
<input type="checkbox"/> <b>DRILLING REPORT</b> Report Date:	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> NEW CONSTRUCTION
	<input type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> PLUG BACK
	<input type="checkbox"/> PRODUCTION START OR RESUME	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION
	<input type="checkbox"/> REPERFORATE CURRENT FORMATION	<input type="checkbox"/> SIDETRACK TO REPAIR WELL	<input type="checkbox"/> TEMPORARY ABANDON
	<input type="checkbox"/> TUBING REPAIR	<input type="checkbox"/> VENT OR FLARE	<input type="checkbox"/> WATER DISPOSAL
	<input type="checkbox"/> WATER SHUTOFF	<input type="checkbox"/> SI TA STATUS EXTENSION	<input checked="" type="checkbox"/> APD EXTENSION
	<input type="checkbox"/> WILDCAT WELL DETERMINATION	<input type="checkbox"/> OTHER	OTHER: <input style="width: 100px;" type="text"/>

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

Newfield proposes to extend the Application for Permit to Drill this well.

**Approved by the Utah Division of Oil, Gas and Mining**

**Date:** November 27, 2012

**By:** 

<b>NAME (PLEASE PRINT)</b> Mandie Crozier	<b>PHONE NUMBER</b> 435 646-4825	<b>TITLE</b> Regulatory Tech
<b>SIGNATURE</b> N/A	<b>DATE</b> 11/26/2012	



**The Utah Division of Oil, Gas, and Mining**

- State of Utah
- Department of Natural Resources

Electronic Permitting System - Sundry Notices

**Request for Permit Extension Validation Well Number 43013509720000**

API: 43013509720000

Well Name: GMBU W-16-9-17

Location: 0582 FSL 1940 FEL QTR SWSE SEC 16 TWNP 090S RNG 170E MER S

Company Permit Issued to: NEWFIELD PRODUCTION COMPANY

Date Original Permit Issued: 12/29/2011

The undersigned as owner with legal rights to drill on the property as permitted above, hereby verifies that the information as submitted in the previously approved application to drill, remains valid and does not require revision. Following is a checklist of some items related to the application, which should be verified.

- If located on private land, has the ownership changed, if so, has the surface agreement been updated?  Yes  No
- Have any wells been drilled in the vicinity of the proposed well which would affect the spacing or siting requirements for this location?  Yes  No
- Has there been any unit or other agreements put in place that could affect the permitting or operation of this proposed well?  Yes  No
- Have there been any changes to the access route including ownership, or rightof- way, which could affect the proposed location?  Yes  No
- Has the approved source of water for drilling changed?  Yes  No
- Have there been any physical changes to the surface location or access route which will require a change in plans from what was discussed at the onsite evaluation?  Yes  No
- Is bonding still in place, which covers this proposed well?  Yes  No

Signature: Mandie Crozier

Date: 11/26/2012

Title: Regulatory Tech Representing: NEWFIELD PRODUCTION COMPANY

<b>STATE OF UTAH</b> DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		<b>FORM 9</b>
<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> ML-3453B
		<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 W-16-9-17
<b>3. ADDRESS OF OPERATOR:</b> Rt 3 Box 3630 , Myton, UT, 84052		<b>9. API NUMBER:</b> 43013509720000
<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> 0582 FSL 1940 FEL <b>QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:</b> Qtr/Qtr: SWSE Section: 16 Township: 09.0S Range: 17.0E 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"/> ACIDIZE	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> CASING REPAIR
<input type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion:	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> CHANGE WELL NAME
<input checked="" type="checkbox"/> SPUD REPORT Date of Spud: 8/1/2013	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> CONVERT WELL TYPE
<input type="checkbox"/> DRILLING REPORT Report Date:	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> NEW CONSTRUCTION
	<input type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> PLUG BACK
	<input type="checkbox"/> PRODUCTION START OR RESUME	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION
	<input type="checkbox"/> REPERFORATE CURRENT FORMATION	<input type="checkbox"/> SIDETRACK TO REPAIR WELL	<input type="checkbox"/> TEMPORARY ABANDON
	<input type="checkbox"/> TUBING REPAIR	<input type="checkbox"/> VENT OR FLARE	<input type="checkbox"/> WATER DISPOSAL
	<input type="checkbox"/> WATER SHUTOFF	<input type="checkbox"/> SI TA STATUS EXTENSION	<input type="checkbox"/> APD EXTENSION
	<input type="checkbox"/> WILDCAT WELL DETERMINATION	<input type="checkbox"/> OTHER	OTHER: <input style="width: 100px;" type="text"/>

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

P/U and run 7 jts of 8 5/8" casing set 323.95 KB Cement w/ProPetro w/200 sks of class G+2%kcl+.25#CF mixed @ 15.8ppg and 1.17

**Accepted by the  
Utah Division of  
Oil, Gas and Mining  
FOR RECORD ONLY  
August 12, 2013**

<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> 8/12/2013	

NEWFIELD

## Casing

Conductor

Legal Well Name GMBU W-16-9-17			Wellbore Name Original Hole		
API/UWI 43013509720000	Surface Legal Location	Field Name GMBU CTB6	Well Type Exploration	Well Configuration Type Slant	
Well RC 500295226	County Duchesne	State/Province Utah	Spud Date	Rig Release Date 8/1/2013 01:00	

<b>Wellbore</b>					
Wellbore Name Original Hole			Kick Off Depth (ftKB)		
Section Des	Size (in)	Actual Top Depth (MD) (ftKB)	Actual Bottom Depth (MD) (ftKB)	Start Date	End Date
Conductor	14 3/4	13	17	7/31/2013	7/31/2013

<b>Wellhead</b>				
Type	Install Date	Service	Comment	

<b>Wellhead Components</b>				
Des	Make	Model	SN	WP Top (psi)

<b>Casing</b>				
Casing Description Conductor	Set Depth (ftKB) 17	Run Date 7/31/2013	Set Tension (kips)	
Centralizers	Scratchers			

<b>Casing Components</b>												
Item Des	OD (in)	Wt (lb/ft)	Grade	Top Thread	Jts	Len (ft)	Top (ftKB)	Btm (ftKB)	Mk-up Tq (ft•lb)	Class	Max OD (in)	ID (in)
Conductor	14	36.75	H-40		1	4.00	13.0	17.0				13.500

NEWFIELD

## Casing

Surface

Legal Well Name GMBU W-16-9-17		Wellbore Name Original Hole		
API/UWI 43013509720000	Surface Legal Location	Field Name GMBU CTB6	Well Type Exploration	Well Configuration Type Slant
Well RC 500295226	County Duchesne	State/Province Utah	Spud Date	Rig Release Date 8/1/2013 01:00

<b>Wellbore</b>					
Wellbore Name Original Hole			Kick Off Depth (ftKB)		
Section Des	Size (in)	Actual Top Depth (MD) (ftKB)	Actual Bottom Depth (MD) (ftKB)	Start Date	End Date
Conductor	14 3/4	13	17	7/31/2013	7/31/2013
Vertical	12 1/4	17	331	7/31/2013	7/31/2013

<b>Wellhead</b>				
Type	Install Date	Service	Comment	

<b>Wellhead Components</b>				
Des	Make	Model	SN	WP Top (psi)

<b>Casing</b>				
Casing Description Surface	Set Depth (ftKB)	326	Run Date	7/31/2013
Centralizers 3	Scratchers			

<b>Casing Components</b>												
Item Des	OD (in)	Wt (lb/ft)	Grade	Top Thread	Jts	Len (ft)	Top (ftKB)	Btm (ftKB)	Mk-up Tq (ft•lb)	Class	Max OD (in)	ID (in)
Casing Joints	8 5/8	24.00	J-55	ST&C	6	269.00	13.0	282.0				8.097
Float Collar	8 5/8	24.00	J-55	ST&C	1	1.00	282.0	283.0				8.097
Casing Joints	8 5/8	24.00	J-55	ST&C	1	41.45	283.0	324.5				8.097
Guide Shoe	8 5/8	24.00	J-55	ST&C	1	1.50	324.5	326.0				8.097

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 W-16-9-17  
Qtr/Qtr SW/SE Section 16 Township 9S Range 17E  
Lease Serial Number ML-3453B  
API Number 4301350972

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

Date/Time 7/31/13 8:00 AM  PM

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

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

**RECEIVED**

**JUL 30 2013**

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

Date/Time 7/31/13 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 \_\_\_\_\_

---

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 W-16-9-17  
Qtr/Qtr SW/SE Section 16 Township 9S Range 17E  
Lease Serial Number ML-3453B  
API Number 4301350972

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

Date/Time 7/31/13 8:00 AM  PM

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

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

**RECEIVED**

**JUL 30 2013**

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

Date/Time 7/31/13 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 \_\_\_\_\_

---

BLM - Vernal Field Office - Notification Form

Operator Newfield Exploration Rig Name/# Capstar 329  
Submitted By Walt Bowen Phone Number 970-361-3001  
Well Name/Number GMBU W-16-9-17  
Qtr/Qtr SW/SE Section 16 Township 9S Range 17E  
Lease Serial Number ML-3453B  
API Number 43-013-50972

TD Notice – TD is the final drilling depth of hole.

Date/Time 8/19/13      0730 AM  PM

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

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

Date/Time 8/19/13      2000 AM  PM

**RECEIVED**

**AUG 18 2013**

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

<b>STATE OF UTAH</b> DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		<b>FORM 9</b>
<b>SUNDRY NOTICES AND REPORTS ON WELLS</b>		<b>5. LEASE DESIGNATION AND SERIAL NUMBER:</b> ML-3453B
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>6. IF INDIAN, ALLOTTEE OR TRIBE NAME:</b>
		<b>7. UNIT or CA AGREEMENT NAME:</b> GMBU (GRRV)
<b>1. TYPE OF WELL</b> Oil Well	<b>8. WELL NAME and NUMBER:</b> GMBU W-16-9-17	
<b>2. NAME OF OPERATOR:</b> NEWFIELD PRODUCTION COMPANY	<b>9. API NUMBER:</b> 43013509720000	
<b>3. ADDRESS OF OPERATOR:</b> Rt 3 Box 3630 , Myton, UT, 84052	<b>PHONE NUMBER:</b> 435 646-4825 Ext	<b>9. FIELD and POOL or WILDCAT:</b> MONUMENT BUTTE
<b>4. LOCATION OF WELL</b> <b>FOOTAGES AT SURFACE:</b> 0582 FSL 1940 FEL <b>QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:</b> Qtr/Qtr: SWSE Section: 16 Township: 09.0S Range: 17.0E Meridian: S		<b>COUNTY:</b> DUCHESNE
		<b>STATE:</b> UTAH
11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA		
<b>TYPE OF SUBMISSION</b>	<b>TYPE OF ACTION</b>	
<input type="checkbox"/> NOTICE OF INTENT Approximate date work will start:  <input type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion:  <input type="checkbox"/> SPUD REPORT Date of Spud:  <input checked="" type="checkbox"/> DRILLING REPORT Report Date: 9/16/2013	<input type="checkbox"/> ACIDIZE <input type="checkbox"/> ALTER CASING <input type="checkbox"/> CASING REPAIR <input type="checkbox"/> CHANGE TO PREVIOUS PLANS <input type="checkbox"/> CHANGE TUBING <input type="checkbox"/> CHANGE WELL NAME <input type="checkbox"/> CHANGE WELL STATUS <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS <input type="checkbox"/> CONVERT WELL TYPE <input type="checkbox"/> DEEPEN <input type="checkbox"/> FRACTURE TREAT <input type="checkbox"/> NEW CONSTRUCTION <input type="checkbox"/> OPERATOR CHANGE <input type="checkbox"/> PLUG AND ABANDON <input type="checkbox"/> PLUG BACK <input checked="" type="checkbox"/> PRODUCTION START OR RESUME <input type="checkbox"/> RECLAMATION OF WELL SITE <input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION <input type="checkbox"/> REPERFORATE CURRENT FORMATION <input type="checkbox"/> SIDETRACK TO REPAIR WELL <input type="checkbox"/> TEMPORARY ABANDON <input type="checkbox"/> TUBING REPAIR <input type="checkbox"/> VENT OR FLARE <input type="checkbox"/> WATER DISPOSAL <input type="checkbox"/> WATER SHUTOFF <input type="checkbox"/> SI TA STATUS EXTENSION <input type="checkbox"/> WILDCAT WELL DETERMINATION <input type="checkbox"/> OTHER	
12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc. The above well was placed on production on 09/16/2013 at 16:00 hours.		
		<b>Accepted by the Utah Division of Oil, Gas and Mining FOR RECORD ONLY October 08, 2013</b>
<b>NAME (PLEASE PRINT)</b> Jennifer Peatross	<b>PHONE NUMBER</b> 435 646-4885	<b>TITLE</b> Production Technician
<b>SIGNATURE</b> N/A	<b>DATE</b> 10/7/2013	

Form 3160-4  
(March 2012)

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

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

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

5. Lease Serial No.  
ML-3453B

6. If Indian, Allottee or Tribe Name

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

8. Lease Name and Well No.  
GMBU W-16-9-17

9. API Well No.  
43-013-50972

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

2. Name of Operator  
NEWFIELD PRODUCTION COMPANY

3. Address ROUTE #3 BOX 3630  
MYTON, UT 84052

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

4. Location of Well (Report location clearly and in accordance with Federal requirements)\*  
 At surface 582' FSL 1940' FEL (SW/SE) Sec 16, T9S, R17E (ML-3453B)  
 At top prod. interval reported below 261' FSL 2353' FEL (SW/SE) Sec 16, T9S, R17E (ML-3453B)  
 At total depth 64' FSL 2615' FEL (SW/SE) Sec 16, T9S, R17E (ML-3453B)

10. Field and Pool or Exploratory  
MONUMENT BUTTE

11. Sec., T., R., M., on Block and  
Survey or Area Sec 16, T9S, R17E Mer SLB

12. County or Parish  
DUCHESNE

13. State  
UT

14. Date Spudded  
07/31/2013

15. Date T.D. Reached  
08/20/2013

16. Date Completed 09/12/2013  
 D & A  Ready to Prod.

17. Elevations (DF, RKB, RT, GL)\*  
5318' GL 13'KB

18. Total Depth: MD 5898'  
TVD 5829'

19. Plug Back T.D.: MD 5839'  
TVD

20. Depth Bridge Plug Set: MD  
TVD

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

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

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

Hole Size	Size/Grade	Wt. (#/ft.)	Top (MD)	Bottom (MD)	Stage Cementer Depth	No. of Sk. & Type of Cement	Slurry Vol. (BBL)	Cement Top*	Amount Pulled
12-1/4"	8-5/8" J-55	24#	0	326'		200 CLASS G			
7-7/8"	5-1/2" J-55	15.5#	0	5886'		270 Econocem 470Expandacem		404'	

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@5377'	TA@5277'						

25. Producing Intervals

Formation	Top	Bottom	Perforated Interval	Size	No. Holes	Perf. Status
A) Green River	3760'	5286'	3760'-5286' MD	.34	64	
B)						
C)						
D)						

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

Depth Interval	Amount and Type of Material
3760'-5286' MD	Frac w/ 262818#s of 20/40 white sand in 2403 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
9/16/13	9/26/13	24	→	78	72	66			2.5 x 1.75 x 24' RHAC
Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas/Oil Ratio	Well Status	
			→					PRODUCING	

28a. Production - Interval B

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

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

28b. Production - Interval C									
Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
			→						
Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas/Oil Ratio	Well Status	
			→						

28c. Production - Interval D									
Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
			→						
Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas/Oil Ratio	Well Status	
			→						

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

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

31. Formation (Log) Markers  
**GEOLOGICAL MARKERS**

Formation	Top	Bottom	Descriptions, Contents, etc.	Name	Top
					Meas. Depth
				GARDEN GULCH MARK	3416
				GARDEN GULCH 1	3610
				GARDEN GULCH 2	3720
				POINT 3	3974
				X MRKR	4224
				Y MRKR	4260
				DOUGLAS CREEK MRK	4387
				BI CARBONATE MRK	4618
				B LIMESTONE MRK	4748
				CASTLE PEAK	5226
				BASAL CARBONATE	5654
				WASATCH	5781

32. Additional remarks (include plugging procedure):

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

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

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

Name (please print) Heather Calder Title Regulatory Technician  
 Signature *Heather Calder* Date 10/10/2013

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.



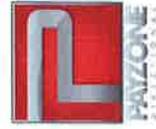
# **NEWFIELD EXPLORATION**

**USGS Myton SW (UT)  
SECTION 16 T9S, R17E  
W-16-9-17  
Wellbore #1**

**Design: Actual**

## **End of Well Report**

**27 August, 2013**





**Payzone Directional**  
End of Well Report



**Company:** NEWFIELD EXPLORATION  
**Project:** USGS Myton SW (UT)  
**Site:** SECTION 16 T9S, R17E  
**Well:** W-16-9-17  
**Wellbore:** Wellbore #1  
**Design:** Actual

**Local Co-ordinate Reference:** Well W-16-9-17  
**TVD Reference:** W-16-9-17 @ 5331.0ft (Capstar 329)  
**MD Reference:** W-16-9-17 @ 5331.0ft (Capstar 329)  
**North Reference:** True  
**Survey Calculation Method:** Minimum Curvature  
**Database:** EDM 2003.21 Single User Db

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

**System Datum:** Mean Sea Level

**Site:** SECTION 16 T9S, R17E, SEC 16 T9S, R17E

**Site Position:** Northing: 7,183,439.74 ft      Latitude: 40° 1' 51.237 N  
 From: Lat/Long      Easting: 2,056,769.95 ft      Longitude: 110° 0' 46.831 W  
**Position Uncertainty:** Slot Radius: "      Grid Convergence: 0.95 °

**Well:** W-16-9-17, SHL LAT: 40°01'31.09" LONG: 110°00'32.75"

**Well Position:** +N/-S      0.0 ft      Northing: 7,181,419.74 ft      Latitude: 40° 1' 31.090 N  
 +E/-W      0.0 ft      Easting: 2,057,898.98 ft      Longitude: 110° 0' 32.750 W  
**Position Uncertainty:** Wellhead Elevation: 5,331.0 ft      Ground Level: 5,318.0 ft

**Wellbore:** Wellbore #1

Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	4/18/2011	11.31	65.79	52,264

**Design:** Actual

**Audit Notes:** 1.0      Phase: ACTUAL      Tie On Depth: 0.0

**Vertical Section:** Depth From (TVD)      +N/-S (ft)      +E/-W (ft)      Direction (°)

0.0	0.0	0.0	232.74
-----	-----	-----	--------

**Survey Program**      Date 6/27/2013

From (ft)	To (ft)	Survey (Wellbore)	Tool Name	Description
340.0	5,898.0	Survey #1 (Wellbore #1)	MWD	MWD - Standard



**Payzone Directional**  
End of Well Report



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**MD Reference:** W-16-9-17 @ 5331.0ft (Capstar 329)  
**North Reference:** True  
**Survey Calculation Method:** Minimum Curvature  
**Database:** EDM 2003.21 Single User Db

Survey	MD (ft)	Inc (°)	Azi (azimuth) (°)	TVD (ft)	V. Sec (ft)	N/S (ft)	E/W (ft)	D/Leg (°/100ft)	Build (°/100ft)	Turn (°/100ft)
	0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.00	0.00
	340.0	0.30	230.20	340.0	0.9	-0.6	-0.7	0.09	0.09	0.00
	370.0	0.30	232.00	370.0	1.0	-0.7	-0.8	0.03	0.00	6.00
	400.0	0.90	234.90	400.0	1.4	-0.9	-1.1	2.00	2.00	9.67
	430.0	1.50	231.90	430.0	2.0	-1.2	-1.6	2.01	2.00	-10.00
	461.0	2.00	235.00	461.0	2.9	-1.8	-2.3	1.64	1.61	10.00
	491.0	2.50	237.20	491.0	4.1	-2.4	-3.3	1.69	1.67	7.33
	521.0	2.90	235.50	520.9	5.5	-3.2	-4.5	1.36	1.33	-5.67
	551.0	3.30	234.70	550.9	7.1	-4.2	-5.8	1.34	1.33	-2.67
	581.0	3.70	235.80	580.8	9.0	-5.2	-7.3	1.35	1.33	3.67
	611.0	4.20	235.10	610.7	11.0	-6.4	-9.0	1.67	1.67	-2.33
	642.0	4.50	236.20	641.7	13.4	-7.7	-11.0	1.00	0.97	3.55
	672.0	4.80	236.60	671.6	15.8	-9.0	-13.0	1.01	1.00	1.33
	703.0	5.30	238.80	702.4	18.5	-10.5	-15.3	1.73	1.61	7.10
	734.0	5.80	238.00	733.3	21.5	-12.1	-17.8	1.63	1.61	-2.58
	764.0	6.60	235.80	763.1	24.7	-13.8	-20.6	2.78	2.67	-7.33
	793.0	7.20	236.10	791.9	28.2	-15.8	-23.4	2.07	2.07	1.03
	824.0	7.50	234.90	822.7	32.2	-18.0	-26.7	1.09	0.97	-3.87
	855.0	7.80	233.90	853.4	36.3	-20.4	-30.1	1.06	0.97	-3.23
	886.0	8.30	233.50	884.1	40.6	-23.0	-33.6	1.62	1.61	-1.29
	915.0	8.70	232.80	912.8	44.9	-25.6	-37.0	1.42	1.38	-2.41
	946.0	9.00	232.00	943.4	49.7	-28.5	-40.8	1.05	0.97	-2.58
	976.0	9.40	232.50	973.0	54.5	-31.4	-44.6	1.36	1.33	1.67
	1,007.0	9.40	231.90	1,003.6	59.6	-34.5	-48.6	0.32	0.00	-1.94
	1,038.0	9.50	232.30	1,034.2	64.7	-37.7	-52.6	0.39	0.32	1.29
	1,069.0	9.90	232.80	1,064.7	69.9	-40.8	-56.7	1.32	1.29	1.61
	1,112.0	10.00	232.10	1,107.1	77.3	-45.4	-62.6	0.36	0.23	-1.63



**Payzone Directional**  
End of Well Report



**Company:** NEWFIELD EXPLORATION  
**Project:** USGS Myton SW (UT)  
**Site:** SECTION 16 T9S, R17E  
**Well:** W-16-9-17  
**Wellbore:** Wellbore #1  
**Design:** Actual

**Local Co-ordinate Reference:** Well W-16-9-17  
**TVD Reference:** W-16-9-17 @ 5331.0ft (Capstar 329)  
**MD Reference:** W-16-9-17 @ 5331.0ft (Capstar 329)  
**North Reference:** True  
**Survey Calculation Method:** Minimum Curvature  
**Database:** EDM 2003.21 Single User Db

Survey	MD (ft)	Inc (°)	Azi (azimuth) (°)	TVD (ft)	V. Sec (ft)	NIS (ft)	E/W (ft)	D/Leg (°/100ft)	Build (°/100ft)	Turn (°/100ft)
	1,156.0	10.20	232.20	1,150.4	85.0	-50.1	-68.7	0.46	0.45	0.23
	1,200.0	10.30	231.90	1,193.7	92.8	-54.9	-74.9	0.26	0.23	-0.68
	1,244.0	10.30	231.00	1,237.0	100.7	-59.8	-81.0	0.37	0.00	-2.05
	1,287.0	10.20	230.60	1,279.3	108.4	-64.7	-87.0	0.29	-0.23	-0.93
	1,331.0	10.20	230.20	1,322.6	116.1	-69.6	-93.0	0.16	0.00	-0.91
	1,375.0	9.80	229.60	1,365.9	123.8	-74.5	-98.8	0.94	-0.91	-1.36
	1,419.0	9.40	228.20	1,409.3	131.1	-79.4	-104.3	1.05	-0.91	-3.18
	1,462.0	9.00	226.80	1,451.8	137.9	-84.0	-109.4	1.07	-0.93	-3.26
	1,506.0	9.00	228.30	1,495.2	144.8	-88.7	-114.5	0.53	0.00	3.41
	1,550.0	9.00	228.80	1,538.7	151.7	-93.2	-119.7	0.18	0.00	1.14
	1,593.0	8.80	229.10	1,581.2	158.3	-97.6	-124.7	0.48	-0.47	0.70
	1,636.0	8.80	231.40	1,623.7	164.9	-101.8	-129.7	0.82	0.00	5.35
	1,679.0	9.00	233.70	1,666.1	171.5	-105.8	-135.0	0.95	0.47	5.35
	1,723.0	9.40	233.70	1,709.6	178.6	-110.0	-140.7	0.91	0.91	0.00
	1,767.0	9.50	232.60	1,753.0	185.8	-114.3	-146.5	0.47	0.23	-2.50
	1,810.0	9.60	232.80	1,795.4	192.9	-118.6	-152.1	0.25	0.23	0.47
	1,854.0	9.40	233.20	1,838.8	200.2	-123.0	-157.9	0.48	-0.45	0.91
	1,897.0	9.40	235.10	1,881.2	207.2	-127.1	-163.6	0.72	0.00	4.42
	1,940.0	9.40	235.30	1,923.6	214.2	-131.1	-169.4	0.08	0.00	0.47
	1,984.0	9.10	233.70	1,967.0	221.3	-135.2	-175.1	0.90	-0.68	-3.64
	2,028.0	9.20	232.00	2,010.5	228.3	-139.5	-180.7	0.66	0.23	-3.86
	2,071.0	9.20	230.60	2,052.9	235.1	-143.8	-186.1	0.52	0.00	-3.26
	2,115.0	9.40	230.00	2,096.4	242.3	-148.3	-191.6	0.51	0.45	-1.36
	2,158.0	9.60	229.70	2,138.8	249.3	-152.9	-197.0	0.48	0.47	-0.70
	2,202.0	9.70	229.50	2,182.1	256.7	-157.7	-202.6	0.24	0.23	-0.45
	2,246.0	9.60	228.20	2,225.5	264.1	-162.5	-208.2	0.54	-0.23	-2.95
	2,290.0	9.40	226.20	2,268.9	271.3	-167.5	-213.5	0.88	-0.45	-4.55



**Payzone Directional**  
End of Well Report



**Company:** NEWFIELD EXPLORATION  
**Project:** USGS Myton SW (UT)  
**Site:** SECTION 16 T9S, R17E  
**Well:** W-16-9-17  
**Wellbore:** Wellbore #1  
**Design:** Actual

**Local Co-ordinate Reference:** Well W-16-9-17  
**TVD Reference:** W-16-9-17 @ 5331.0ft (Capstar 329)  
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**Database:** EDM 2003.21 Single User Db

Survey	MD (ft)	Inc (°)	Azi (azimuth) (°)	TVD (ft)	V. Sec (ft)	NIS (ft)	E/W (ft)	DLeg (°/100ft)	Build (°/100ft)	Turn (°/100ft)
	2,332.0	9.40	225.20	2,310.4	278.1	-172.2	-218.4	0.39	0.00	-2.38
	2,375.0	9.40	225.20	2,352.8	285.1	-177.2	-223.4	0.00	0.00	0.00
	2,418.0	9.20	225.70	2,395.2	292.0	-182.1	-228.3	0.50	-0.47	1.16
	2,462.0	9.30	228.00	2,438.6	299.0	-186.9	-233.5	0.87	0.23	5.23
	2,505.0	9.70	231.50	2,481.0	306.1	-191.5	-238.9	1.63	0.93	8.14
	2,549.0	10.10	233.00	2,524.4	313.6	-196.1	-244.9	1.08	0.91	3.41
	2,593.0	10.30	232.90	2,567.7	321.4	-200.8	-251.1	0.46	0.45	-0.23
	2,637.0	9.80	231.00	2,611.0	329.1	-205.5	-257.2	1.36	-1.14	-4.32
	2,681.0	9.70	231.30	2,654.4	336.6	-210.2	-263.0	0.25	-0.23	0.68
	2,724.0	10.10	234.00	2,696.7	343.9	-214.7	-268.8	1.42	0.93	6.28
	2,768.0	10.10	233.50	2,740.1	351.7	-219.3	-275.1	0.20	0.00	-1.14
	2,811.0	9.60	230.50	2,782.4	359.0	-223.8	-280.9	1.67	-1.16	-6.98
	2,854.0	9.50	228.20	2,824.8	366.1	-228.4	-286.3	0.92	-0.23	-5.35
	2,897.0	10.00	231.70	2,867.2	373.4	-233.1	-291.8	1.80	1.16	8.14
	2,941.0	10.20	232.90	2,910.5	381.1	-237.8	-297.9	0.66	0.45	2.73
	2,985.0	10.40	234.20	2,953.8	389.0	-242.5	-304.3	0.70	0.45	2.95
	3,028.0	10.20	232.40	2,996.1	396.7	-247.1	-310.4	0.88	-0.47	-4.19
	3,072.0	10.30	230.90	3,039.4	404.5	-251.9	-316.6	0.65	0.23	-3.41
	3,116.0	10.50	230.50	3,082.7	412.4	-257.0	-322.7	0.48	0.45	-0.91
	3,160.0	10.20	231.60	3,126.0	420.3	-261.9	-328.9	0.82	-0.68	2.50
	3,204.0	10.10	235.10	3,169.3	428.1	-266.6	-335.1	1.42	-0.23	7.95
	3,247.0	10.00	235.50	3,211.6	435.6	-270.8	-341.3	0.28	-0.23	0.93
	3,291.0	9.90	235.00	3,255.0	443.2	-275.2	-347.5	0.30	-0.23	-1.14
	3,335.0	9.80	235.40	3,298.3	450.7	-279.5	-353.7	0.28	-0.23	0.91
	3,378.0	9.40	235.20	3,340.7	457.9	-283.6	-359.6	0.93	-0.93	-0.47
	3,421.0	9.30	234.10	3,383.2	464.8	-287.6	-365.3	0.48	-0.23	-2.56
	3,465.0	9.10	234.50	3,426.6	471.9	-291.7	-371.0	0.48	-0.45	0.91



**Payzone Directional**  
End of Well Report



**Company:** NEWFIELD EXPLORATION  
**Project:** USGS Mylon SW (UT)  
**Site:** SECTION 16 T9S, R17E  
**Well:** W-16-9-17  
**Wellbore:** Wellbore #1  
**Design:** Actual

**Local Co-ordinate Reference:** Well W-16-9-17  
**TVD Reference:** W-16-9-17 @ 5331.0ft (Capstar 329)  
**MD Reference:** W-16-9-17 @ 5331.0ft (Capstar 329)  
**North Reference:** True  
**Survey Calculation Method:** Minimum Curvature  
**Database:** EDM 2003.21 Single User Db

MD (ft)	Inc (°)	Azi (azimuth)	TVD (ft)	V. Sec (ft)	NIS (ft)	E/W (ft)	D/Leg (°/100ft)	Build (°/100ft)	Turn (°/100ft)
3,508.0	9.30	234.60	3,469.0	478.7	-295.7	-376.6	0.47	0.47	0.23
3,552.0	9.40	234.50	3,512.5	485.9	-299.8	-382.4	0.23	0.23	-0.23
3,596.0	9.40	236.10	3,555.9	493.1	-303.9	-388.3	0.59	0.00	3.64
3,640.0	9.50	236.10	3,599.3	500.3	-308.0	-394.3	0.23	0.23	0.00
3,682.0	10.00	235.60	3,640.7	507.4	-311.9	-400.2	1.21	1.19	-1.19
3,727.0	10.30	236.90	3,685.0	515.3	-316.4	-406.8	0.84	0.67	2.89
3,770.0	10.60	236.80	3,727.2	523.1	-320.6	-413.3	0.70	0.70	-0.23
3,813.0	10.90	236.80	3,769.5	531.1	-325.0	-420.0	0.70	0.70	0.00
3,857.0	10.50	235.20	3,812.7	539.2	-329.6	-426.8	1.13	-0.91	-3.64
3,901.0	10.10	234.50	3,856.0	547.1	-334.1	-433.2	0.95	-0.91	-1.59
3,945.0	10.10	235.20	3,899.3	554.8	-338.5	-439.6	0.28	0.00	1.59
3,988.0	10.00	234.00	3,941.7	562.3	-342.9	-445.7	0.54	-0.23	-2.79
4,032.0	9.70	232.60	3,985.0	569.8	-347.4	-451.7	0.87	-0.68	-3.18
4,076.0	9.30	232.10	4,028.4	577.1	-351.8	-457.5	0.93	-0.91	-1.14
4,120.0	9.30	231.00	4,071.8	584.2	-356.2	-463.0	0.40	0.00	-2.50
4,164.0	9.70	233.60	4,115.2	591.5	-360.7	-468.8	1.33	0.91	5.91
4,207.0	9.50	233.80	4,157.6	598.6	-364.9	-474.6	0.47	-0.47	0.47
4,251.0	9.50	234.60	4,201.0	605.9	-369.2	-480.4	0.30	0.00	1.82
4,294.0	9.70	236.00	4,243.4	613.1	-373.3	-486.3	0.71	0.47	3.26
4,338.0	9.80	233.70	4,286.8	620.5	-377.5	-492.4	0.91	0.23	-5.23
4,381.0	9.80	232.80	4,329.2	627.8	-381.9	-498.3	0.36	0.00	-2.09
4,424.0	9.90	231.90	4,371.5	635.2	-386.4	-504.1	0.43	0.23	-2.09
4,469.0	9.90	232.30	4,415.9	642.9	-391.2	-510.2	0.15	0.00	0.89
4,513.0	10.00	233.70	4,459.2	650.5	-395.7	-516.3	0.59	0.23	3.18
4,556.0	9.80	233.10	4,501.6	657.9	-400.2	-522.2	0.52	-0.47	-1.40
4,599.0	9.70	233.10	4,543.9	665.2	-404.5	-528.1	0.23	-0.23	0.00
4,643.0	9.40	232.10	4,587.3	672.5	-409.0	-533.9	0.78	-0.68	-2.27



**Payzone Directional**  
End of Well Report



**Company:** NEWFIELD EXPLORATION  
**Project:** USGS Mylon SW (UT)  
**Site:** SECTION 16 T9S, R17E  
**Well:** W-16-9-17  
**Wellbore:** Wellbore #1  
**Design:** Actual

**Local Co-ordinate Reference:** Well W-16-9-17  
**TVD Reference:** W-16-9-17 @ 5331.0ft (Capstar 329)  
**MD Reference:** W-16-9-17 @ 5331.0ft (Capstar 329)  
**North Reference:** True  
**Survey Calculation Method:** Minimum Curvature  
**Database:** EDM 2003.21 Single User Db

Survey	MD (ft)	Inc (°)	Azi (azimuth) (°)	TVD (ft)	V. Sec (ft)	N/S (ft)	E/W (ft)	D/Leg (°/100ft)	Build (°/100ft)	Turn (°/100ft)
	4,687.0	9.10	230.70	4,630.8	679.6	-413.4	-539.4	0.85	-0.68	-3.18
	4,731.0	9.10	232.90	4,674.2	686.5	-417.7	-544.8	0.79	0.00	5.00
	4,774.0	8.80	232.80	4,716.7	693.2	-421.7	-550.2	0.70	-0.70	-0.23
	4,818.0	8.70	232.70	4,760.2	699.9	-425.8	-555.5	0.23	-0.23	-0.23
	4,862.0	8.70	235.50	4,803.7	706.6	-429.7	-560.9	0.96	0.00	6.36
	4,905.0	8.50	235.30	4,846.2	713.0	-433.3	-566.2	0.47	-0.47	-0.47
	4,949.0	8.00	234.20	4,889.7	719.3	-437.0	-571.3	1.19	-1.14	-2.50
	4,993.0	8.00	229.20	4,933.3	725.4	-440.8	-576.1	1.58	0.00	-11.36
	5,037.0	7.90	225.30	4,976.9	731.5	-444.9	-580.6	1.25	-0.23	-8.86
	5,081.0	7.70	226.40	5,020.5	737.4	-449.0	-584.9	0.57	-0.45	2.50
	5,124.0	7.60	232.30	5,063.1	743.1	-452.8	-589.2	1.84	-0.23	13.72
	5,167.0	7.50	231.80	5,105.7	748.7	-456.2	-593.7	0.28	-0.23	-1.16
	5,210.0	7.30	232.70	5,148.4	754.3	-459.6	-598.1	0.54	-0.47	2.09
	5,253.0	7.60	235.40	5,191.0	759.8	-462.9	-602.6	1.07	0.70	6.28
	5,297.0	8.00	236.20	5,234.6	765.8	-466.3	-607.5	0.94	0.91	1.82
	5,341.0	8.30	237.00	5,278.1	772.0	-469.7	-612.7	0.73	0.68	1.82
	5,383.0	8.60	237.80	5,319.7	778.2	-473.0	-617.9	0.77	0.71	1.90
	5,427.0	8.90	236.10	5,363.2	784.9	-476.7	-623.5	0.90	0.68	-3.86
	5,471.0	9.10	234.70	5,406.6	791.7	-480.6	-629.2	0.67	0.45	-3.18
	5,515.0	9.40	234.60	5,450.1	798.8	-484.7	-635.0	0.68	0.68	-0.23
	5,558.0	9.40	234.90	5,492.5	805.8	-488.7	-640.7	0.11	0.00	0.70
	5,601.0	9.10	233.80	5,534.9	812.7	-492.7	-646.3	0.81	-0.70	-2.56
	5,645.0	8.50	232.80	5,578.4	819.5	-496.8	-651.7	1.41	-1.36	-2.27
	5,689.0	7.90	229.70	5,622.0	825.7	-500.7	-656.6	1.69	-1.36	-7.05
	5,733.0	7.60	230.40	5,665.5	831.7	-504.5	-661.2	0.71	-0.68	1.59
	5,776.0	6.90	229.30	5,708.2	837.1	-508.0	-665.3	1.66	-1.63	-2.56
	5,818.0	6.50	227.20	5,749.9	842.0	-511.3	-669.0	1.12	-0.95	-5.00



**Payzone Directional**  
End of Well Report

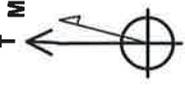


<b>Company:</b> NEWFIELD EXPLORATION <b>Project:</b> USGS Myton SW (UT) <b>Site:</b> SECTION 16 T9S, R17E <b>Well:</b> W-16-9-17 <b>Wellbore:</b> Wellbore #1 <b>Design:</b> Actual	<b>Local Co-ordinate Reference:</b> Well W-16-9-17 <b>TVD Reference:</b> W-16-9-17 @ 5331.0ft (Capstar 329) <b>MD Reference:</b> W-16-9-17 @ 5331.0ft (Capstar 329) <b>North Reference:</b> True <b>Survey Calculation Method:</b> Minimum Curvature <b>Database:</b> EDM 2003.21 Single User Db
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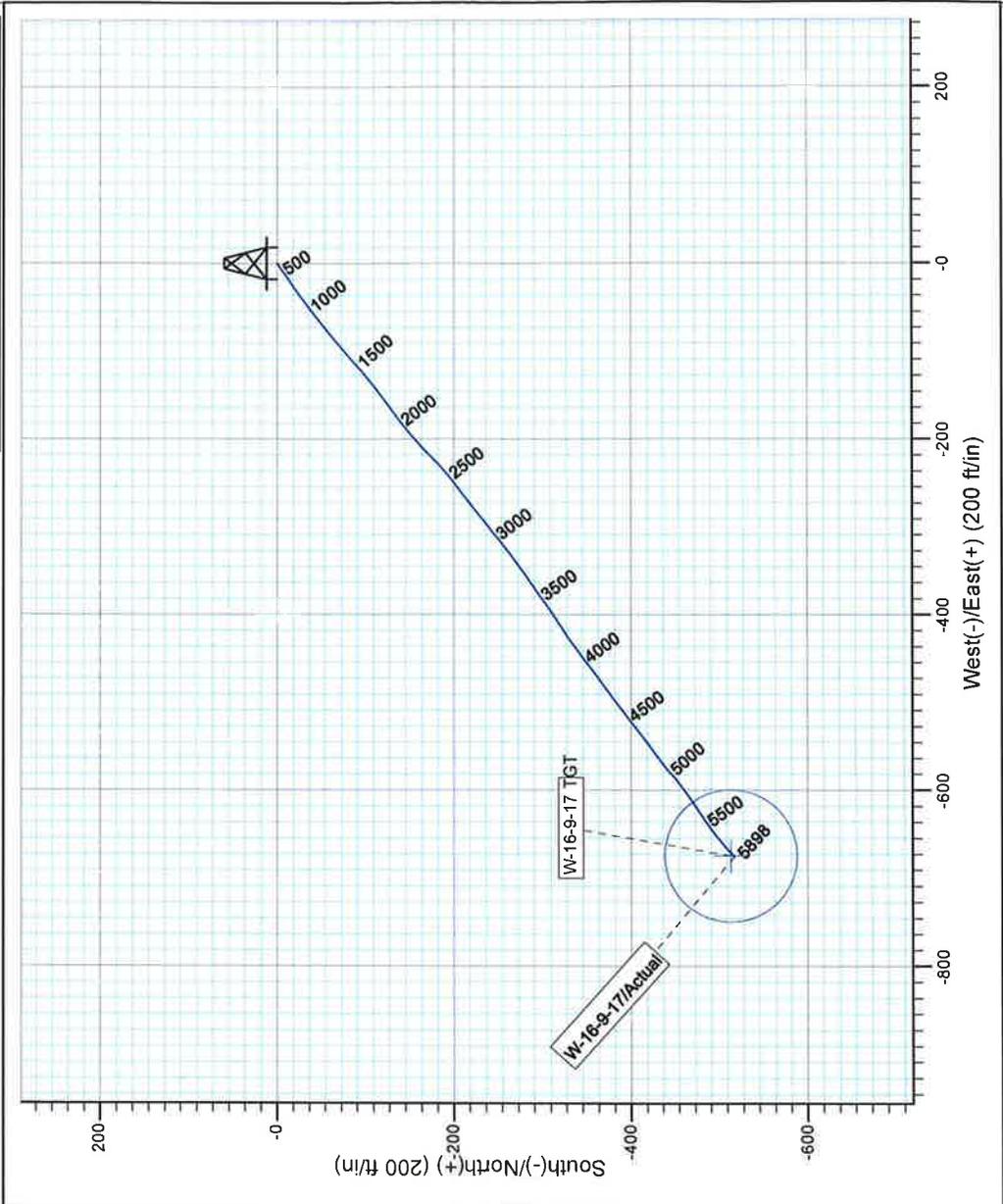
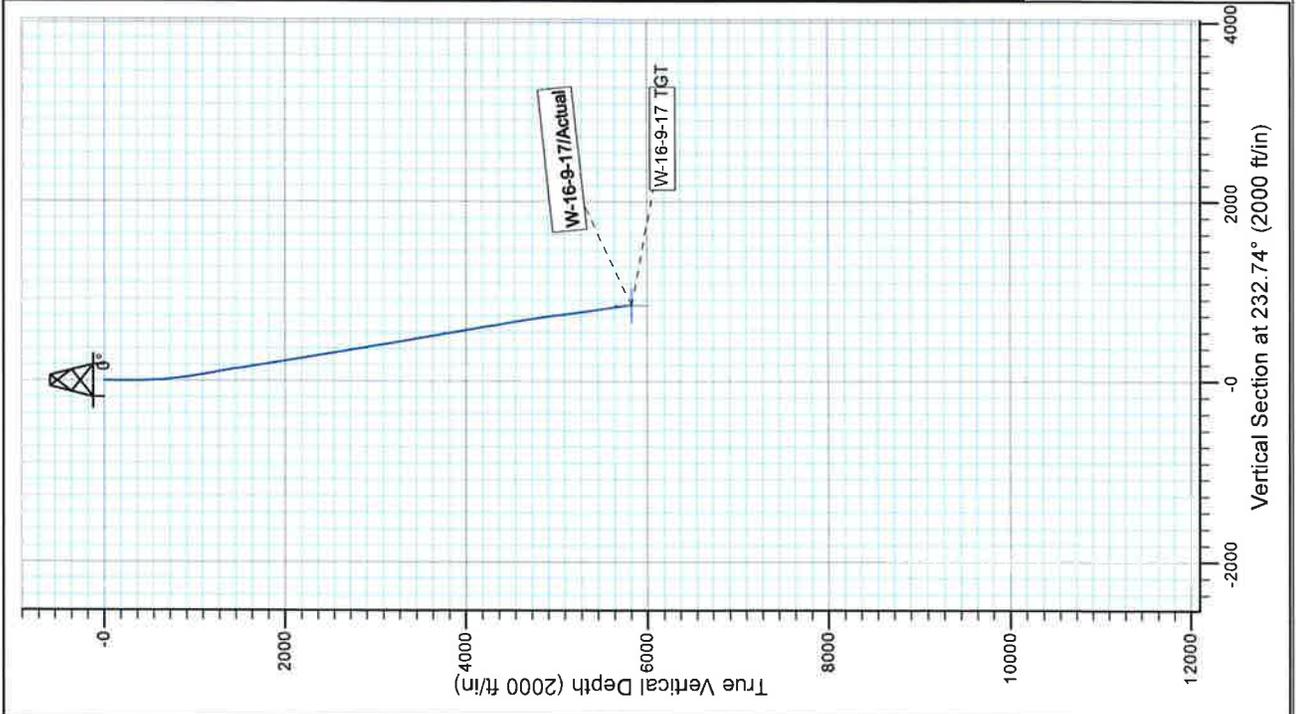
Survey	MD (ft)	Inc (")	Azi (azimuth) (")	TVD (ft)	V. Sec (ft)	N/S (ft)	E/W (ft)	DLeg ("/100ft)	Build ("/100ft)	Turn ("/100ft)
	5,844.0	6.40	225.50	5,775.8	844.9	-513.3	-671.1	0.83	-0.38	-6.54
	5,898.0	6.19	221.90	5,829.4	850.7	-517.5	-675.2	0.83	-0.39	-6.67
<b>W-16-9-17 TGT</b>										

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

Project: USGS Myton SW (UT)  
 Site: SECTION 16 T9S, R17E  
 Well: W-16-9-17  
 Wellbore: Wellbore #1  
 Design: Actual



Azimuths to True North  
 Magnetic North: 11.31°  
 Magnetic Field  
 Strength: 52284.5snT  
 Dip Angle: 65.79°  
 Date: 4/18/2011  
 Model: IGRF2010



Design: Actual (W-16-9-17/Wellbore #1)

Created By: Sarah Webb Date: 20:38, August 27 2013

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



Well Name: GMBU W-16-9-17

Summary Rig Activity

Job Category	Job Start Date	Job End Date

Daily Operations		
Report Start Date	Report End Date	24hr Activity Summary
9/5/2013	9/5/2013	RU Perforators wireline & run CBL, RU B&C & test BOPs & frac stack, Perforate 1st stg.
Start Time	End Time	Comment
08:00	09:30	RU Perforators wireline, RIH w/ logging tools, Tag @ 5812', PBTD @ 5839', Log w/ 0 psi, Log short joint @ 3616'-27', Estimated cement top @ 104', LD logging tools.
Start Time	End Time	Comment
09:30	11:00	RU B&C Quick test, Test Knight single blinds, FMC frac valve, CSG & flowback equipment.
Start Time	End Time	Comment
11:00	12:00	RU Perforators wireline, MU & RIH w/ 3 1/8" disposable slick guns (.34 EHD, 120 deg phasing, 16 gram charges, 3 spf) Perforate CP-Half @ 5282'-86', POOH RD wireline, SWI
Start Time	End Time	Comment
12:00	00:00	
24hr Activity Summary		
Report Start Date	Report End Date	24hr Activity Summary
9/9/2013	9/6/2013	RU Baker Hughes & frac 4 of 4 stgs w/ dual fuel pumps, Flowback well
Start Time	End Time	Comment
00:00	07:00	
Start Time	End Time	Comment
07:00	08:30	(Stg #1 Lightning 17 Frac) (CP-Half), RU Baker Hughes frac equipment w/ 2 dual fuel pumps, Press test lines to 4800 psi, Open well w/ 42 psi, Break down formation w/ 4.3 bbls 7% KCL @ 3672 (ISIP 1680 psi, F.G. .77, 1 -min 1530 psi, 4-min 1388 psi), Frac well w/ 321 bbls 7% KCL & 14,819# sand, ISIP 1898 psi, F.G. .81, Max press 3831 psi, Avg press 2694 psi, Max rate 24.1, Avg rate 20.1, (5-min 1711 psi, 10-min 1605 psi, 15-min 1535 psi)
Start Time	End Time	Comment
08:30	09:30	(Stg #2), RU Perforators wireline, Press test lube to 4,000 psi, MU RIH w/ 3 1/8" disposable slick guns (.34 EHD, 120 deg phasing, 16 gram charges, 2 spf) Set WFT 5 1/2" 6K CFP @ 5060', Perforate LODC @ 4985'-89', 4978'-80' & A-3 4907'-09' & A-1 @ 4841'-43', POOH RD wireline, SWI
Start Time	End Time	Comment
09:30	10:30	(Stg #2 Lightning 17 Frac) (LODC, A-3, A-1), RU Baker Hughes frac equipment w/ 2 dual fuel pumps, Press test lines to 4800 psi, Open well w/ 825 psi, Break down formation w/ 8.4 bbls 7% KCL @ 1438, Frac well w/ 792 bbls 7% KCL & 80,301# sand, ISIP 1827 psi, F.G. .82, Max press 3390 psi, Avg press 2964 psi, Max rate 43.4, Avg rate 41.7, (5-min 1713 psi, 10-min 1611 psi, 15-min 1536 psi)
Start Time	End Time	Comment
10:30	11:30	(Stg #3), RU Perforators wireline, Press test lube to 4,000 psi, MU RIH w/ 3 1/8" disposable slick guns (.34 EHD, 120 deg phasing, 16 gram charges, 2 spf) Set WFT 5 1/2" 6K CFP @ 4660', Perforate LODC @ 4985'-89', Remaining guns did not fire, Had mis-run, POOH RD wireline, SWI, Found wire pinched when installing port plug.
Start Time	End Time	Comment
11:30	12:00	(Stg #3) (2nd run), RU Perforators wireline, Press test lube to 4,000 psi, MU RIH w/ 3 1/8" disposable slick guns (.34 EHD, 120 deg phasing, 16 gram charges, 2 spf) Finish perforating interval, Perforate D-2 @ 4474'-76', 4458'-60' & D-1 @ 4403'-05', POOH RD wireline, SWI
Start Time	End Time	Comment
12:00	12:30	(Stg #3 Lightning 17 Frac) (C-Sand, D-2, D-1), RU Baker Hughes frac equipment w/ 2 dual fuel pumps, Press test lines to 4800 psi, Open well w/ 1034 psi, Break down formation w/ 1 bbls 7% KCL @ 1781, Frac well w/ 853 bbls 7% KCL & 117,477# sand, ISIP 2163 psi, F.G. .93, Max press 3296 psi, Avg press 2843 psi, Max rate 42.1, Avg rate 40.4, Cut sand 12,500# short for job, (5-min 1909 psi, 10-min 1795 psi, 15-min 1723 psi)
Start Time	End Time	Comment
12:30	13:15	(Stg #4), RU Perforators wireline, Press test lube to 4,000 psi, MU RIH w/ 3 1/8" disposable slick guns (.34 EHD, 120 deg phasing, 16 gram charges, 3 spf) Set WFT 5 1/2" 6K CFP @ 3860', Perforate GB-2 @ 3786'-88', 3782'-84', 3760'-62', POOH RD wireline, SWI



Well Name: GMBU W-16-9-17

Summary Rig Activity

Start Time	13:15	End Time	13:45	Comment
Start Time	13:45	End Time	16:45	( Stg #4 Lightning 17 Frac) (GB-2 ), RU Baker Hughes frac equipment w/ 2 dual fuel pumps, Press test lines to 4800 psi, Open well w/ 1133 psi, Break down formation w/ 1.6 bbls 7% KCL @ 1210, Frac well w/ 420 bbls 7% KCL & 50,221# sand, ISIP 2035 psi, F.G. 99, Max press 2868 psi, Avg press 2518 psi, Max rate 39.2, Avg rate 38.7, ( 5-min 1500 psi, 10-min 1405 psi, 15-min 1301 psi)
Start Time	16:45	End Time	00:00	Open well to pit @ approx. 3 bpm, Recover 450 bbls fluid & well died off, Pumped tti of 2385 bbls, Leaving 1935 bbls left to recover.
Report Start Date	9/11/2013	Report End Date	9/7/2013	24hr Activity Summary
Start Time	00:00	End Time	07:00	MIRUSU, PU tbg, Drill out & clean out to PBTD, TOOH w/ tbg, TIH w/ production & land tbg.
Start Time	07:00	End Time	08:00	Comment
Start Time	08:00	End Time	09:00	CREW TRAVEL, JSA, JSP, START EQUIPMENT
Start Time	09:00	End Time	11:00	MIRUSU, ND FRAC VALVE, NU DRILL OUT BOPS (9/10/13)
Start Time	11:00	End Time	12:30	Comment
Start Time	12:30	End Time	15:00	RU B&C, TEST DRILL OUT BOPS & GATE VALVES, UNLOAD 191 JNTS 2 7/8" J-55 TBG, PREP/ TALLEY TBG
Start Time	15:00	End Time	16:00	Comment
Start Time	16:00	End Time	17:30	MU 4 3/4" MILL & BIT SUB, PU 123-JNTS 2 7/8" J-55 TBG, TAGG PLUG @ 3860
Start Time	17:30	End Time	19:00	Comment
Start Time	19:00	End Time	20:30	RU GRACO POWER SWIVEL, DRILL OUT PLUG IN 9 MIN, NO PRESSURE, HANG SWIVEL BACK, PU 25 JNTS, TAGGING 10 FT OF FILL ON PLUG @ 4660, DRILL OUT PLUG 4MIN, NO EXTRA PRESSURE, HANG SWIVEL BACK, PU 13 JNTS, NO FILL DRILL OUT PLUG @ 5060 IN 15 MIN, HANG SWIVEL BACK, PU 16 JNTS TAGGING 250 FT OF FILL ON PBTD, CLEAN OUT FILL TO PBTD @ 5839
Start Time	20:30	End Time	21:00	Comment
Start Time	21:00	End Time	22:00	ROLL HOLE 140 BBLs TILL RETURNS WERE CLEAN
Start Time	22:00	End Time	00:00	Comment
Report Start Date	9/12/2013	Report End Date	9/8/2013	24hr Activity Summary
Start Time	00:00	End Time	07:00	RACK OUT SWIVEL, LD 21 TOTAL JNTS, PULL TO DERRICK W/ 85 STANDS
Start Time	07:00	End Time	08:00	Comment
Start Time	08:00	End Time	08:00	RIH W/ PRODUCTION TBG AS FOLLOWS: 2 7/8" NC, 2-JTS 2 7/8" J-55 TBG, 2 7/8" SN, 1-JT 2 7/8" J-55 TBG, 5 1/2" B-2C TAC (CARBIDE SLIPS & 45K SHEAR) 167-JTS 2 7/8" J-55 TBG, ADDING 4FT SUB BELOW TBG HANGER, SET TAC FROM WORK FLOOR
Start Time	08:00	End Time	08:00	Comment
Start Time	08:00	End Time	08:00	RD WORK FLOOR, ND BOP, ND BLIND RAM, REMOVE 4FT SUB, LAND WELL, NU WELL HEAD (TAC @ 5277.28, SN @ 5311.84, EOT @ 5376.98)
Start Time	08:00	End Time	08:00	Comment
Start Time	08:00	End Time	08:00	X-O ROD EQUIPMENT, SPOT IN ROD TRAILER, SWIFN, SDFN
Start Time	08:00	End Time	08:00	Comment
Start Time	08:00	End Time	08:00	CREW TRAVEL
Start Time	08:00	End Time	08:00	Comment
Report Start Date	9/12/2013	Report End Date	9/8/2013	24hr Activity Summary
Start Time	08:00	End Time	08:00	PU pump & rods, PWOP
Start Time	08:00	End Time	08:00	Comment
Start Time	08:00	End Time	08:00	CREW TRAVEL, JSA, JSP, START EQUIPMENT
Start Time	08:00	End Time	08:00	Comment

RECEIVED: Oct. 15, 2013



Well Name: GMBU W-16-9-17

Summary Rig Activity

Start Time	End Time	Comment
08:00	11:00	PU AND PRIME NEW CENTRAL PUMP 2.5 X 1.75 X 24' RHAC, PU 30 7/8" 8PERS, 109 3/4" 4PERS, 72 7/8" 4PERS, SPACE OUT W/ 4FT PONY, PU 30' X 1 1/2" POLISH ROD
11:00	12:00	ROLL UNIT, HANG HORSE HEAD, NU UNIT, STROKE UP TO 800 PSI, GOOD ACTION, PWOP @ 12:00,
12:00	13:00	RD RIG & PREP TO RU ON R-16-9-17
13:00	00:00	