

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

FORM 3

AMENDED REPORT

<b>APPLICATION FOR PERMIT TO DRILL</b>						1. WELL NAME and NUMBER GMBU P-16-9-17				
2. TYPE OF WORK DRILL NEW WELL <input checked="" type="checkbox"/> REENTER P&A WELL <input type="checkbox"/> DEEPEN WELL <input type="checkbox"/>						3. FIELD OR WILDCAT MONUMENT BUTTE				
4. TYPE OF WELL Oil Well Coalbed Methane Well: NO						5. UNIT or COMMUNITIZATION AGREEMENT NAME GMBU (GRRV)				
6. NAME OF OPERATOR NEWFIELD PRODUCTION COMPANY						7. OPERATOR PHONE 435 646-4825				
8. ADDRESS OF OPERATOR Rt 3 Box 3630 , Myton, UT, 84052						9. OPERATOR E-MAIL mcrozier@newfield.com				
10. MINERAL LEASE NUMBER (FEDERAL, INDIAN, OR STATE) ML-3453B			11. MINERAL OWNERSHIP FEDERAL <input type="checkbox"/> INDIAN <input type="checkbox"/> STATE <input checked="" type="checkbox"/> FEE <input type="checkbox"/>			12. SURFACE OWNERSHIP FEDERAL <input type="checkbox"/> INDIAN <input type="checkbox"/> STATE <input checked="" type="checkbox"/> FEE <input type="checkbox"/>				
13. NAME OF SURFACE OWNER (if box 12 = 'fee')						14. SURFACE OWNER PHONE (if box 12 = 'fee')				
15. ADDRESS OF SURFACE OWNER (if box 12 = 'fee')						16. SURFACE OWNER E-MAIL (if box 12 = 'fee')				
17. INDIAN ALLOTTEE OR TRIBE NAME (if box 12 = 'INDIAN')			18. INTEND TO COMMINGLE PRODUCTION FROM MULTIPLE FORMATIONS YES <input type="checkbox"/> (Submit Commingling Application) NO <input checked="" type="checkbox"/>			19. SLANT 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		1948 FSL 643 FWL		NWSW	16	9.0 S	17.0 E	S		
Top of Uppermost Producing Zone		1546 FSL 307 FWL		NWSW	16	9.0 S	17.0 E	S		
At Total Depth		1320 FSL 100 FWL		NWSW	16	9.0 S	17.0 E	S		
21. COUNTY DUCHESENE			22. DISTANCE TO NEAREST LEASE LINE (Feet) 100			23. NUMBER OF ACRES IN DRILLING UNIT 20				
			25. DISTANCE TO NEAREST WELL IN SAME POOL (Applied For Drilling or Completed) 1220			26. PROPOSED DEPTH MD: 5854 TVD: 5785				
27. ELEVATION - GROUND LEVEL 5312			28. BOND NUMBER B001834			29. SOURCE OF DRILLING WATER / WATER RIGHTS APPROVAL NUMBER IF APPLICABLE 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 - 5854	15.5	J-55 LT&C	8.3	Premium Lite High Strength	266	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 03/20/2012			EMAIL mcrozier@newfield.com				
API NUMBER ASSIGNED 43013513140000			APPROVAL			 Permit Manager				

NEWFIELD PRODUCTION COMPANY  
GMBU P-16-9-17  
AT SURFACE: NW/SW 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' – 1250'
Green River	1250'
Wasatch	5750'
<b>Proposed TD</b>	<b>5854'</b>

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

Green River Formation (Oil)      1250' – 5750'

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 P-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'	5,854'	15.5	J-55	LTC	4,810 2.58	4,040 2.17	217,000 2.39

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 P-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	3,854'	Prem Lite II w/ 10% gel + 3% KCl	266 868	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:**

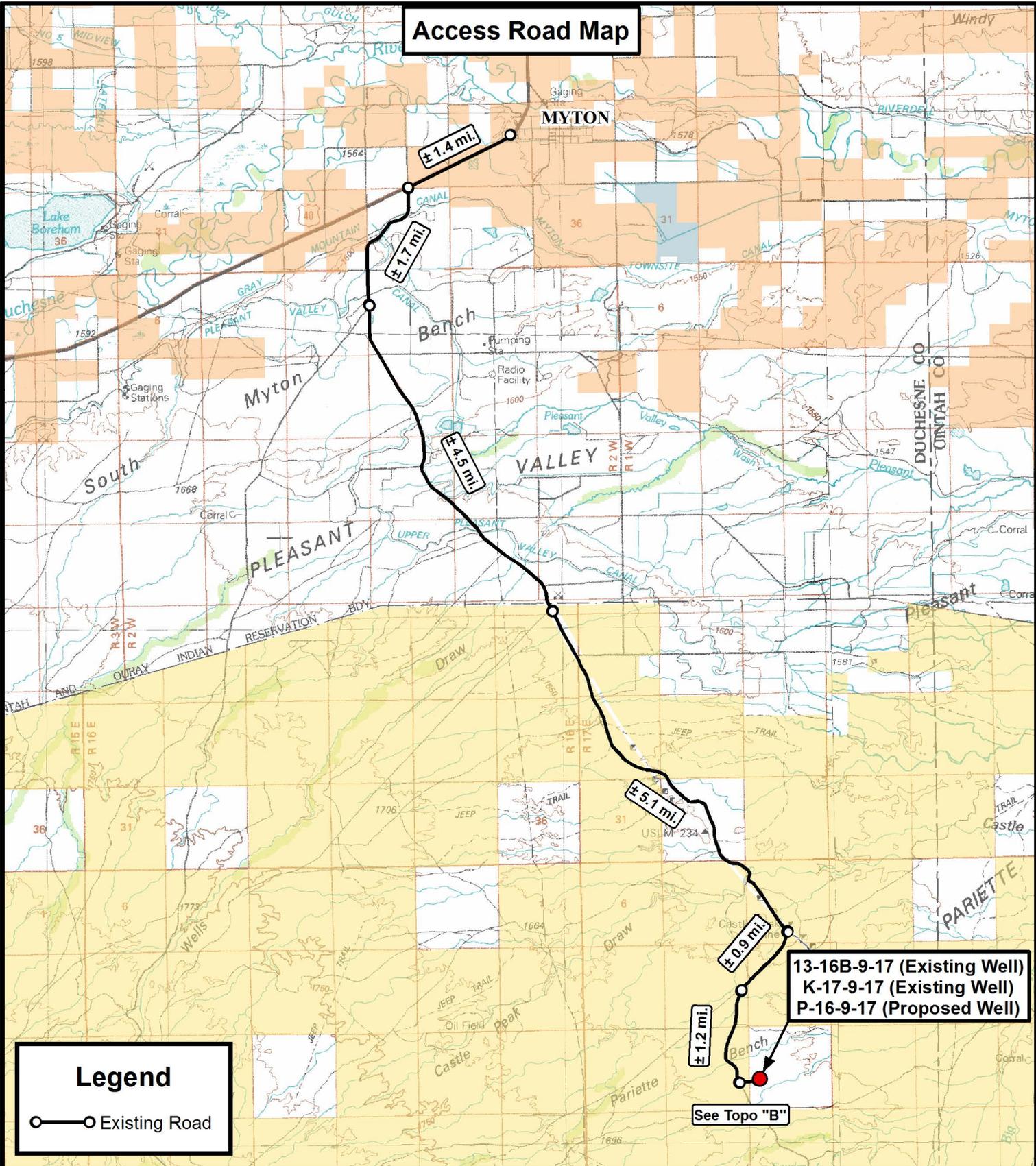
No abnormal temperatures or pressures are anticipated. No hydrogen sulfide has been encountered or is known to exist from previous drilling in the area at this depth. Maximum anticipated bottomhole pressure will approximately equal total depth in feet multiplied by a 0.433 psi/foot gradient.

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

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



# Access Road Map



**Legend**

○—○ Existing Road

13-16B-9-17 (Existing Well)  
 K-17-9-17 (Existing Well)  
 P-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**

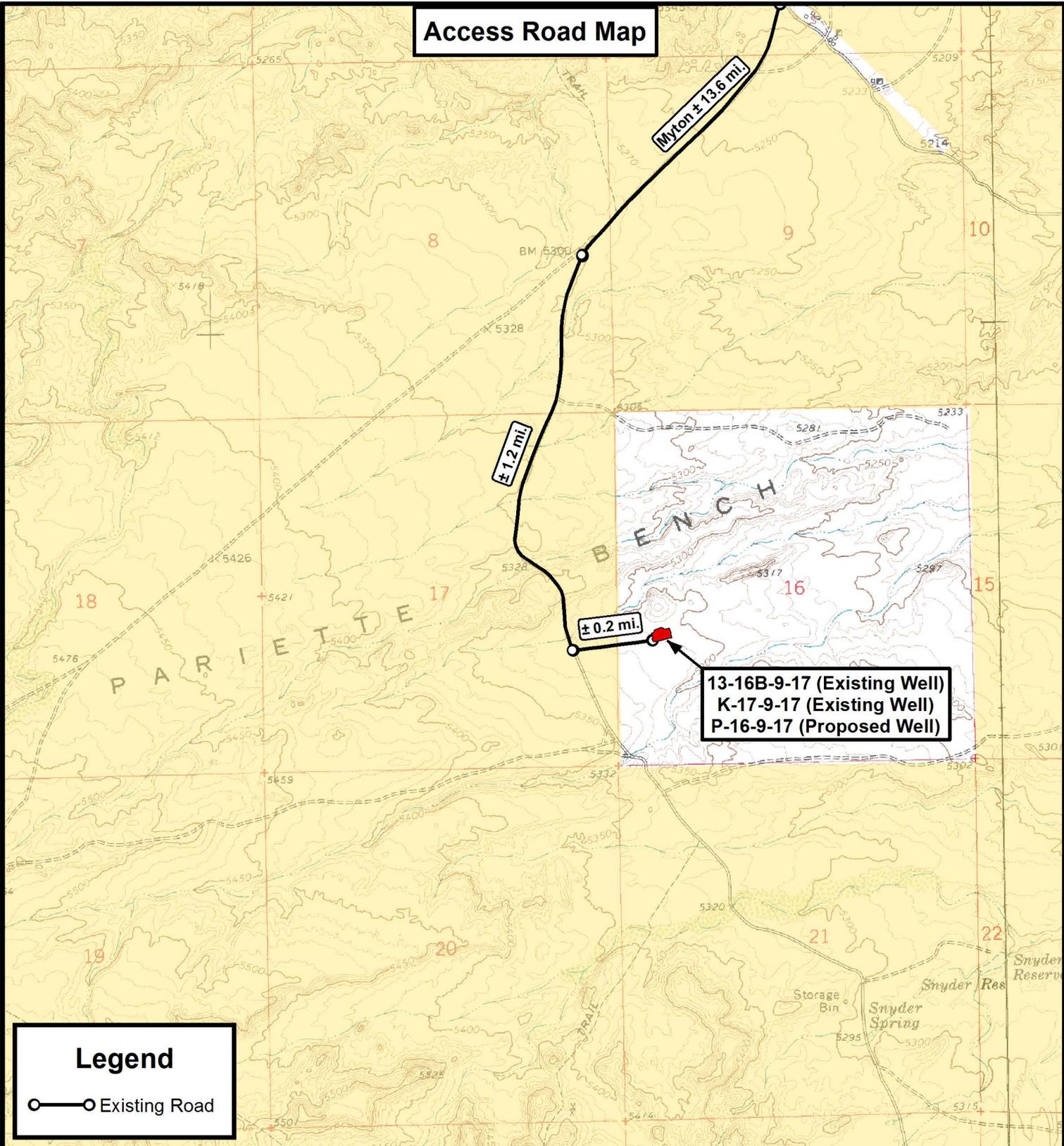
13-16B-9-17 (Existing Well)  
 K-17-9-17 (Existing Well)  
 P-16-9-17 (Proposed Well)  
 SEC. 16, T9S, R17E, S.L.B.&M. Duchesne County, UT.

DRAWN BY:	D.C.R.	REVISED:	VERSION:
DATE:	09-01-2011		<b>V1</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.



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DATE:	09-01-2011		<b>V1</b>
SCALE:	1" = 2,000'		

**NEWFIELD EXPLORATION COMPANY**

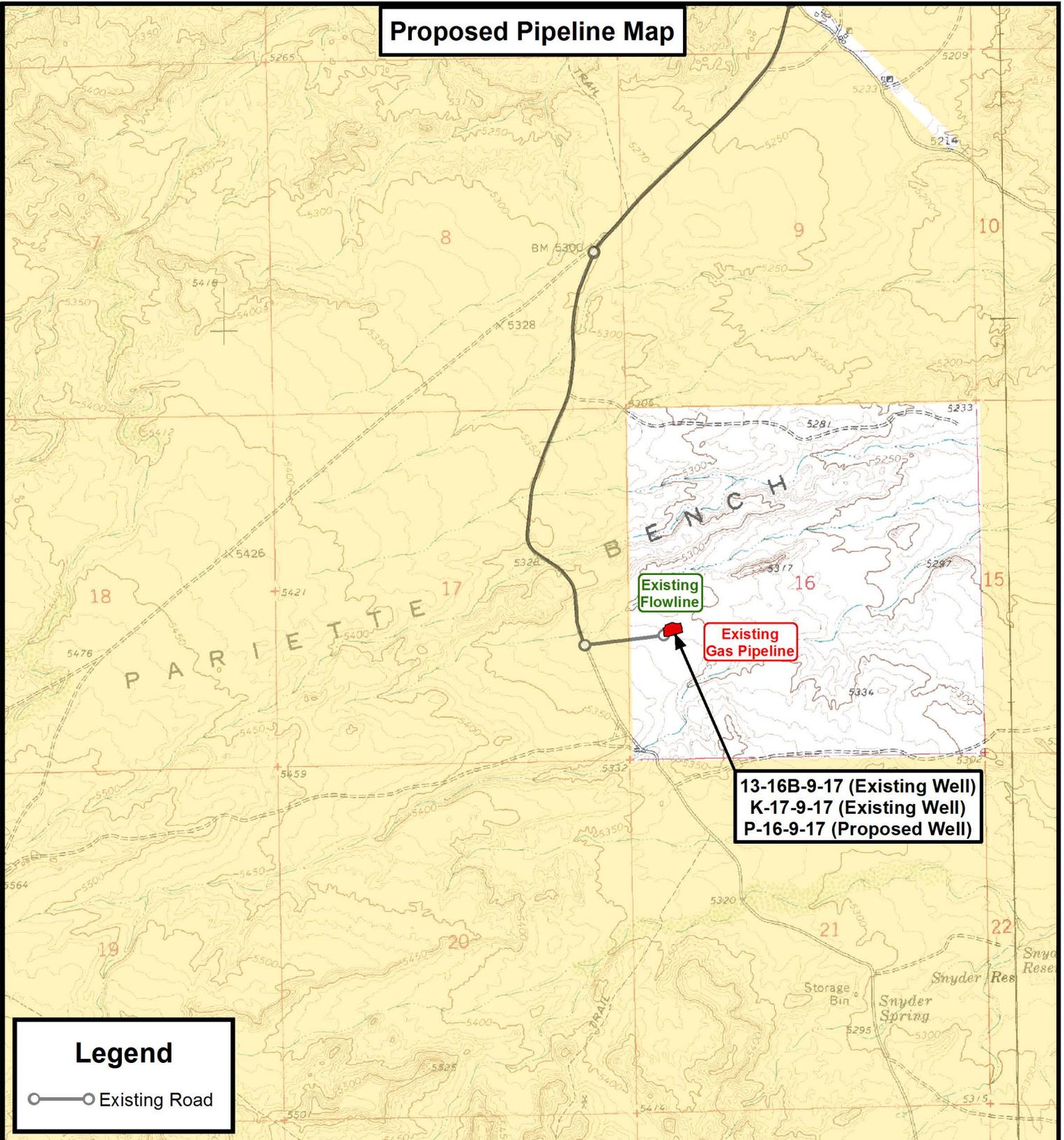
13-16B-9-17 (Existing Well)  
K-17-9-17 (Existing Well)  
P-16-9-17 (Proposed Well)

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

**TOPOGRAPHIC MAP**

SHEET **B**

**Proposed Pipeline Map**



**Legend**

○—○ Existing Road

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SCALE:	1" = 2,000'		



**NEWFIELD EXPLORATION COMPANY**

13-16B-9-17 (Existing Well)  
 K-17-9-17 (Existing Well)  
 P-16-9-17 (Proposed Well)

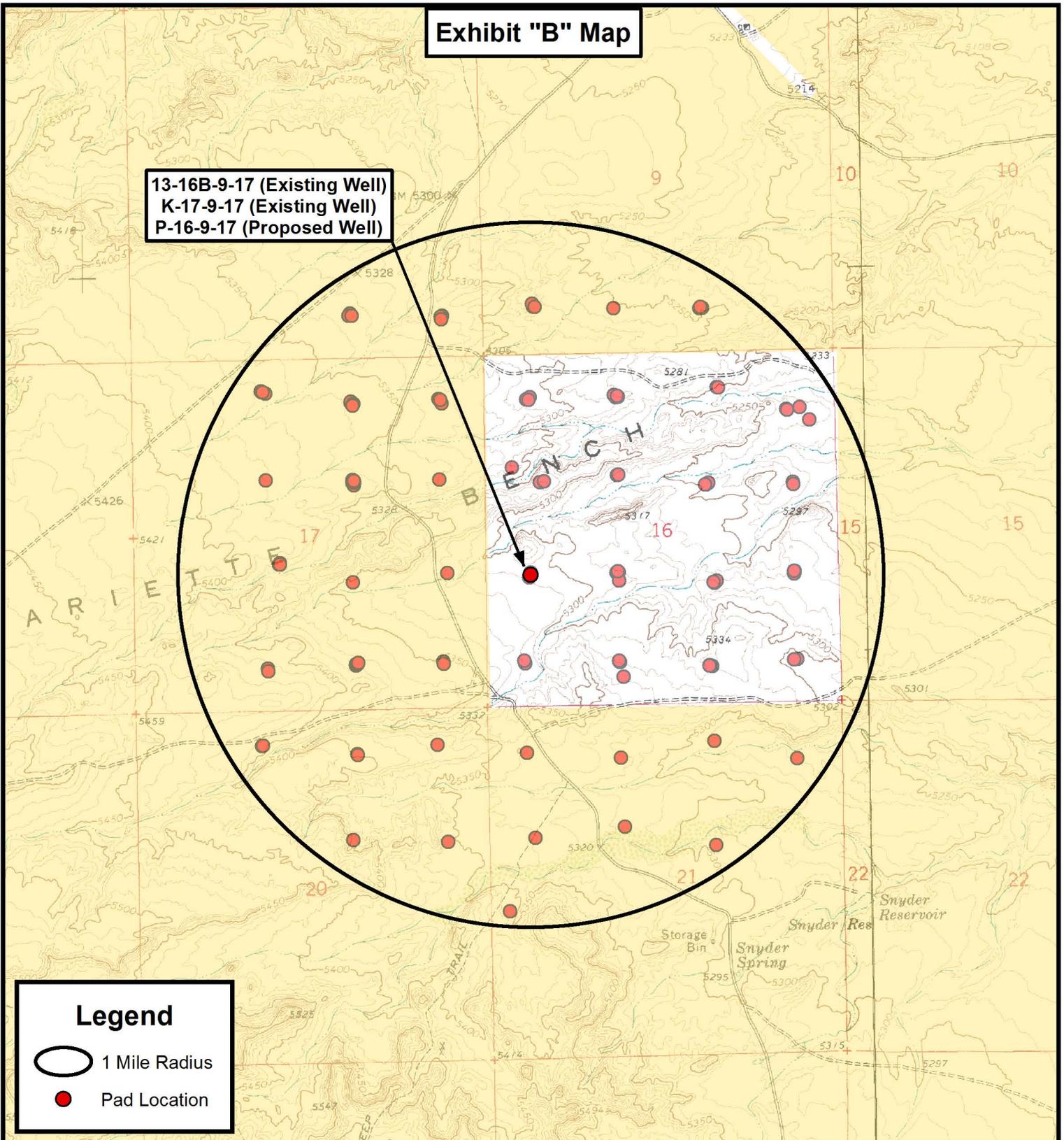
SEC. 16, T9S, R17E, S.L.B.&M. Duchesne County, UT.

**TOPOGRAPHIC MAP**

SHEET **C**

**Exhibit "B" Map**

**13-16B-9-17 (Existing Well)  
K-17-9-17 (Existing Well)  
P-16-9-17 (Proposed Well)**



**Legend**

-  1 Mile Radius
-  Pad Location

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DRAWN BY:	D.C.R.	REVISED:	VERSION:
DATE:	06-17-2011		<b>V1</b>
SCALE:	1" = 2,000'		



**NEWFIELD EXPLORATION COMPANY**

13-16B-9-17 (Existing Well)  
K-17-9-17 (Existing Well)  
P-16-9-17 (Proposed Well)  
SEC. 16, T9S, R17E, S.L.B.&M. Duchesne County, UT.

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

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

**Wellbore #1**

**Plan: Design #1**

## **Standard Planning Report**

**27 June, 2012**





**Payzone Directional**  
Planning Report



<b>Database:</b>	EDM 2003.21 Single User Db	<b>Local Co-ordinate Reference:</b>	Well P-16-9-17
<b>Company:</b>	NEWFIELD EXPLORATION	<b>TVD Reference:</b>	P-16-9-17 @ 5324.0ft (Original Well Elev)
<b>Project:</b>	USGS Myton SW (UT)	<b>MD Reference:</b>	P-16-9-17 @ 5324.0ft (Original Well Elev)
<b>Site:</b>	SECTION 16 T9S, R17E	<b>North Reference:</b>	True
<b>Well:</b>	P-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>	P-16-9-17, SHL LAT: 40 01 44.59 LONG: -110 01 07.41					
<b>Well Position</b>	<b>+N/-S</b>	-672.6 ft	<b>Northing:</b>	7,182,740.71 ft	<b>Latitude:</b>	40° 1' 44.590 N
	<b>+E/-W</b>	-1,600.7 ft	<b>Easting:</b>	2,055,180.64 ft	<b>Longitude:</b>	110° 1' 7.410 W
<b>Position Uncertainty</b>		0.0 ft	<b>Wellhead Elevation:</b>	5,324.0 ft	<b>Ground Level:</b>	5,312.0 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	5/10/2011	11.31	65.79	52,279

<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	219.84

<b>Plan Sections</b>										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	TFO (°)	Target
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.00	0.00	
600.0	0.00	0.00	600.0	0.0	0.0	0.00	0.00	0.00	0.00	
1,245.7	9.69	219.84	1,242.7	-41.8	-34.9	1.50	1.50	-21.71	219.84	
5,853.8	9.69	219.84	5,785.0	-637.1	-531.6	0.00	0.00	0.00	0.00	P-16-9-17 TGT



**Payzone Directional**  
Planning Report



<b>Database:</b>	EDM 2003.21 Single User Db	<b>Local Co-ordinate Reference:</b>	Well P-16-9-17
<b>Company:</b>	NEWFIELD EXPLORATION	<b>TVD Reference:</b>	P-16-9-17 @ 5324.0ft (Original Well Elev)
<b>Project:</b>	USGS Myton SW (UT)	<b>MD Reference:</b>	P-16-9-17 @ 5324.0ft (Original Well Elev)
<b>Site:</b>	SECTION 16 T9S, R17E	<b>North Reference:</b>	True
<b>Well:</b>	P-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	219.84	700.0	-1.0	-0.8	1.3	1.50	1.50	0.00
800.0	3.00	219.84	799.9	-4.0	-3.4	5.2	1.50	1.50	0.00
900.0	4.50	219.84	899.7	-9.0	-7.5	11.8	1.50	1.50	0.00
1,000.0	6.00	219.84	999.3	-16.1	-13.4	20.9	1.50	1.50	0.00
1,100.0	7.50	219.84	1,098.6	-25.1	-20.9	32.7	1.50	1.50	0.00
1,200.0	9.00	219.84	1,197.5	-36.1	-30.1	47.0	1.50	1.50	0.00
1,245.7	9.69	219.84	1,242.7	-41.8	-34.9	54.5	1.50	1.50	0.00
1,300.0	9.69	219.84	1,296.2	-48.8	-40.7	63.6	0.00	0.00	0.00
1,400.0	9.69	219.84	1,394.7	-61.7	-51.5	80.4	0.00	0.00	0.00
1,500.0	9.69	219.84	1,493.3	-74.7	-62.3	97.2	0.00	0.00	0.00
1,600.0	9.69	219.84	1,591.9	-87.6	-73.1	114.1	0.00	0.00	0.00
1,700.0	9.69	219.84	1,690.5	-100.5	-83.8	130.9	0.00	0.00	0.00
1,800.0	9.69	219.84	1,789.0	-113.4	-94.6	147.7	0.00	0.00	0.00
1,900.0	9.69	219.84	1,887.6	-126.3	-105.4	164.5	0.00	0.00	0.00
2,000.0	9.69	219.84	1,986.2	-139.3	-116.2	181.4	0.00	0.00	0.00
2,100.0	9.69	219.84	2,084.8	-152.2	-127.0	198.2	0.00	0.00	0.00
2,200.0	9.69	219.84	2,183.3	-165.1	-137.7	215.0	0.00	0.00	0.00
2,300.0	9.69	219.84	2,281.9	-178.0	-148.5	231.8	0.00	0.00	0.00
2,400.0	9.69	219.84	2,380.5	-190.9	-159.3	248.7	0.00	0.00	0.00
2,500.0	9.69	219.84	2,479.0	-203.8	-170.1	265.5	0.00	0.00	0.00
2,600.0	9.69	219.84	2,577.6	-216.8	-180.9	282.3	0.00	0.00	0.00
2,700.0	9.69	219.84	2,676.2	-229.7	-191.6	299.1	0.00	0.00	0.00
2,800.0	9.69	219.84	2,774.8	-242.6	-202.4	316.0	0.00	0.00	0.00
2,900.0	9.69	219.84	2,873.3	-255.5	-213.2	332.8	0.00	0.00	0.00
3,000.0	9.69	219.84	2,971.9	-268.4	-224.0	349.6	0.00	0.00	0.00
3,100.0	9.69	219.84	3,070.5	-281.4	-234.8	366.4	0.00	0.00	0.00
3,200.0	9.69	219.84	3,169.1	-294.3	-245.5	383.3	0.00	0.00	0.00
3,300.0	9.69	219.84	3,267.6	-307.2	-256.3	400.1	0.00	0.00	0.00
3,400.0	9.69	219.84	3,366.2	-320.1	-267.1	416.9	0.00	0.00	0.00
3,500.0	9.69	219.84	3,464.8	-333.0	-277.9	433.7	0.00	0.00	0.00
3,600.0	9.69	219.84	3,563.4	-346.0	-288.6	450.6	0.00	0.00	0.00
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3,900.0	9.69	219.84	3,859.1	-384.7	-321.0	501.0	0.00	0.00	0.00
4,000.0	9.69	219.84	3,957.7	-397.6	-331.8	517.9	0.00	0.00	0.00
4,100.0	9.69	219.84	4,056.2	-410.6	-342.5	534.7	0.00	0.00	0.00
4,200.0	9.69	219.84	4,154.8	-423.5	-353.3	551.5	0.00	0.00	0.00
4,300.0	9.69	219.84	4,253.4	-436.4	-364.1	568.3	0.00	0.00	0.00
4,400.0	9.69	219.84	4,352.0	-449.3	-374.9	585.2	0.00	0.00	0.00
4,500.0	9.69	219.84	4,450.5	-462.2	-385.7	602.0	0.00	0.00	0.00
4,600.0	9.69	219.84	4,549.1	-475.1	-396.4	618.8	0.00	0.00	0.00
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5,000.0	9.69	219.84	4,943.4	-526.8	-439.6	686.1	0.00	0.00	0.00
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5,200.0	9.69	219.84	5,140.6	-552.7	-461.1	719.8	0.00	0.00	0.00



**Payzone Directional**  
Planning Report

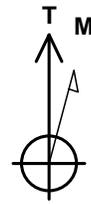


<b>Database:</b>	EDM 2003.21 Single User Db	<b>Local Co-ordinate Reference:</b>	Well P-16-9-17
<b>Company:</b>	NEWFIELD EXPLORATION	<b>TVD Reference:</b>	P-16-9-17 @ 5324.0ft (Original Well Elev)
<b>Project:</b>	USGS Myton SW (UT)	<b>MD Reference:</b>	P-16-9-17 @ 5324.0ft (Original Well Elev)
<b>Site:</b>	SECTION 16 T9S, R17E	<b>North Reference:</b>	True
<b>Well:</b>	P-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	9.69	219.84	5,239.1	-565.6	-471.9	736.6	0.00	0.00	0.00
5,400.0	9.69	219.84	5,337.7	-578.5	-482.7	753.4	0.00	0.00	0.00
5,500.0	9.69	219.84	5,436.3	-591.4	-493.5	770.2	0.00	0.00	0.00
5,600.0	9.69	219.84	5,534.9	-604.3	-504.2	787.1	0.00	0.00	0.00
5,700.0	9.69	219.84	5,633.4	-617.3	-515.0	803.9	0.00	0.00	0.00
5,800.0	9.69	219.84	5,732.0	-630.2	-525.8	820.7	0.00	0.00	0.00
5,853.8	9.69	219.84	5,785.0	-637.1	-531.6	829.8	0.00	0.00	0.00



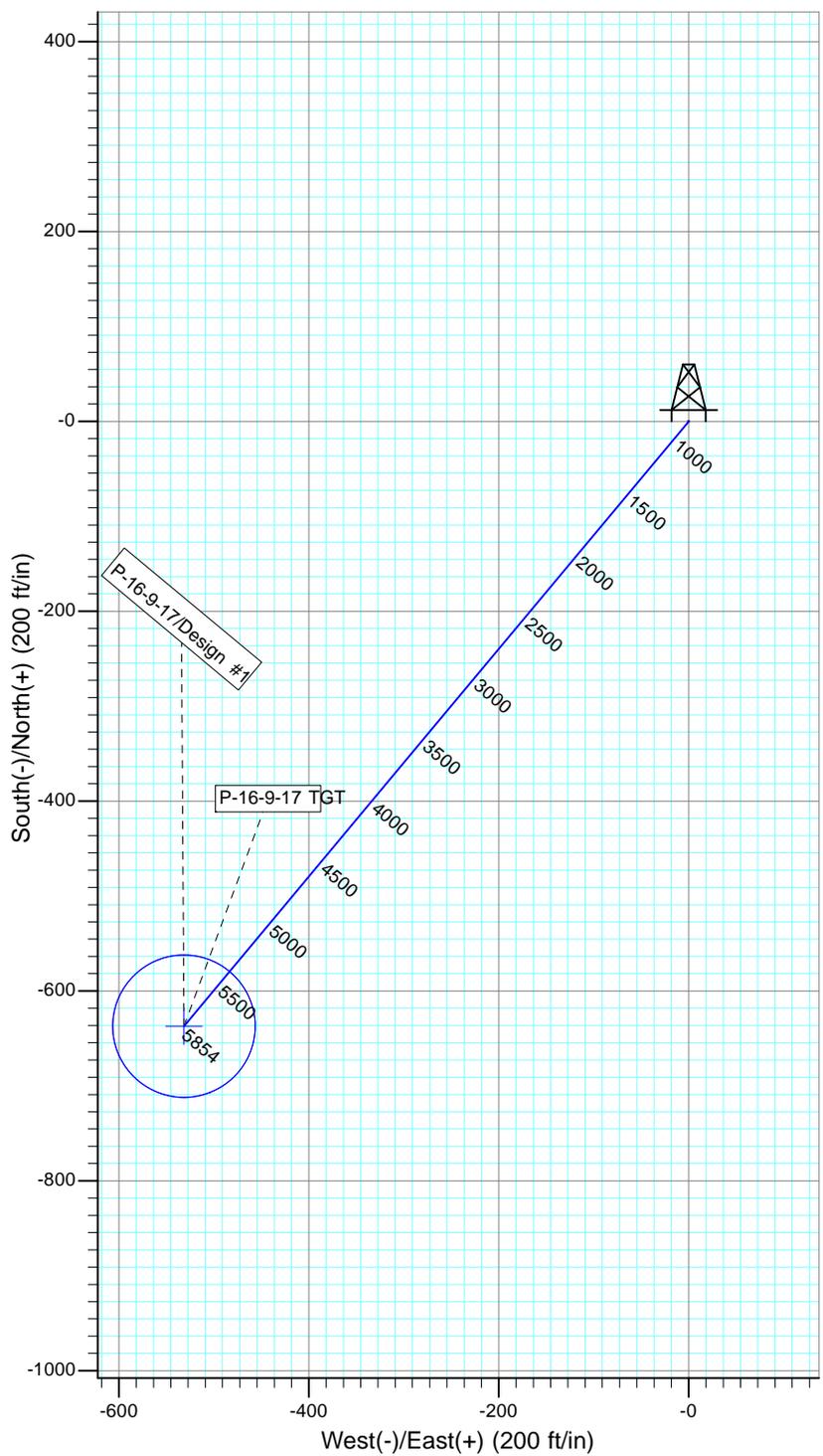
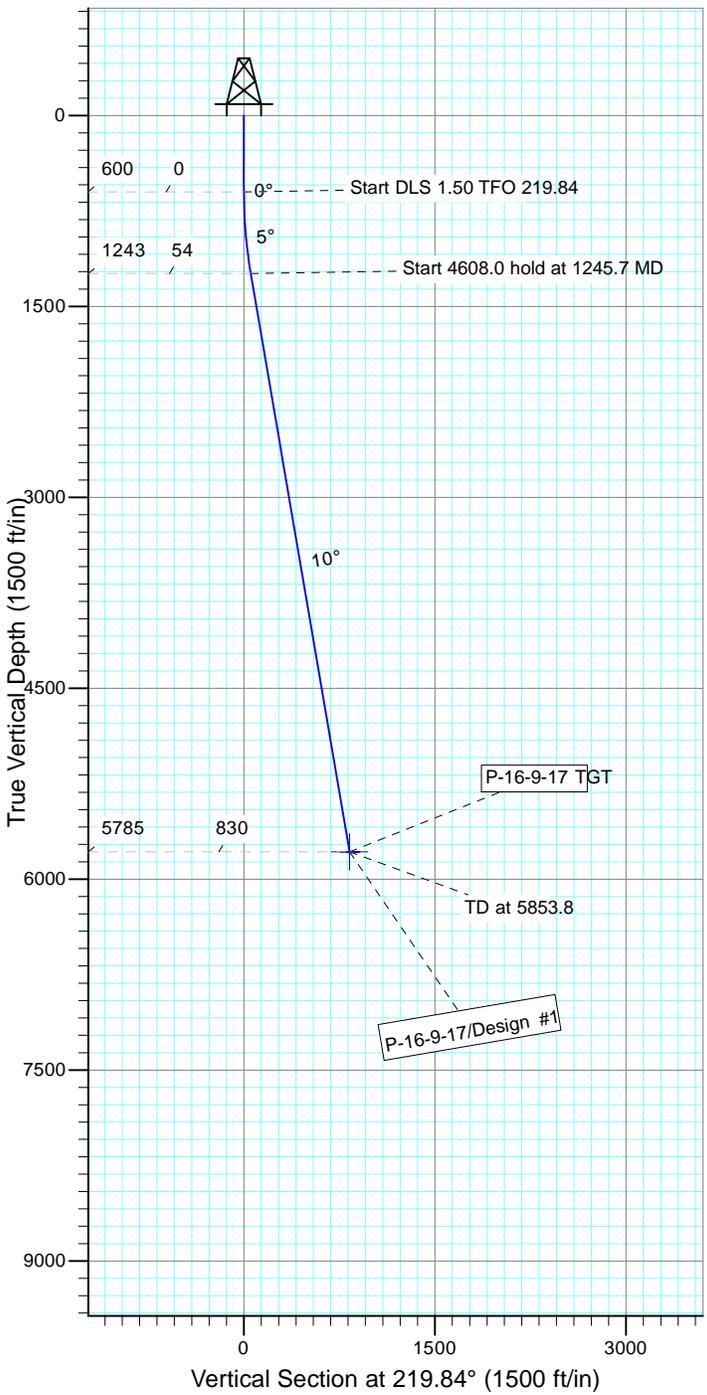
Project: USGS Myton SW (UT)  
 Site: SECTION 16 T9S, R17E  
 Well: P-16-9-17  
 Wellbore: Wellbore #1  
 Design: Design #1



Azimuths to True North  
 Magnetic North: 11.30°

Magnetic Field  
 Strength: 52279.2snT  
 Dip Angle: 65.79°  
 Date: 5/10/2011  
 Model: IGRF2010

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



WELLBORE TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Shape
P-16-9-17 TGT	5785.0	-637.1	-531.6	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	1245.7	9.69	219.84	1242.7	-41.8	-34.9	1.50	219.84	54.5	
4	5853.8	9.69	219.84	5785.0	-637.1	-531.6	0.00	0.00	829.8	P-16-9-17 TGT



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

Proceed southwesterly out of Myton, Utah along Highway 40 - 1.4 miles  $\pm$  to the junction of this highway and UT State Hwy 53; proceed southeasterly - 11.3 miles  $\pm$  to its junction with an existing road to the southwest; proceed southwesterly - 2.1 miles  $\pm$  to its junction with an existing road to the east; proceed in a northeasterly direction - 0.2 miles  $\pm$  to the existing 13-16B-9-17 well pad.

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 13-16B-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 :**

The Archaeological Resource Survey and Paleontological Resource Survey for this area are attached. State of Utah Antiquities Project Permit # U-10-MQ-0801i 11/1/10, prepared by Montgomery Archaeological Consultants. Paleontological Resource Survey prepared by, Wade Miller, 10/22/10. See attached report cover pages, Exhibit "D".

- 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 P-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 P-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 #P-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.

3/15/12  
\_\_\_\_\_  
Date

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

### Typical 2M BOP stack configuration



2M CHOKE MANIFOLD EQUIPMENT - CONFIGURATION OF CHOKES MAY VARY

# NEWFIELD EXPLORATION COMPANY

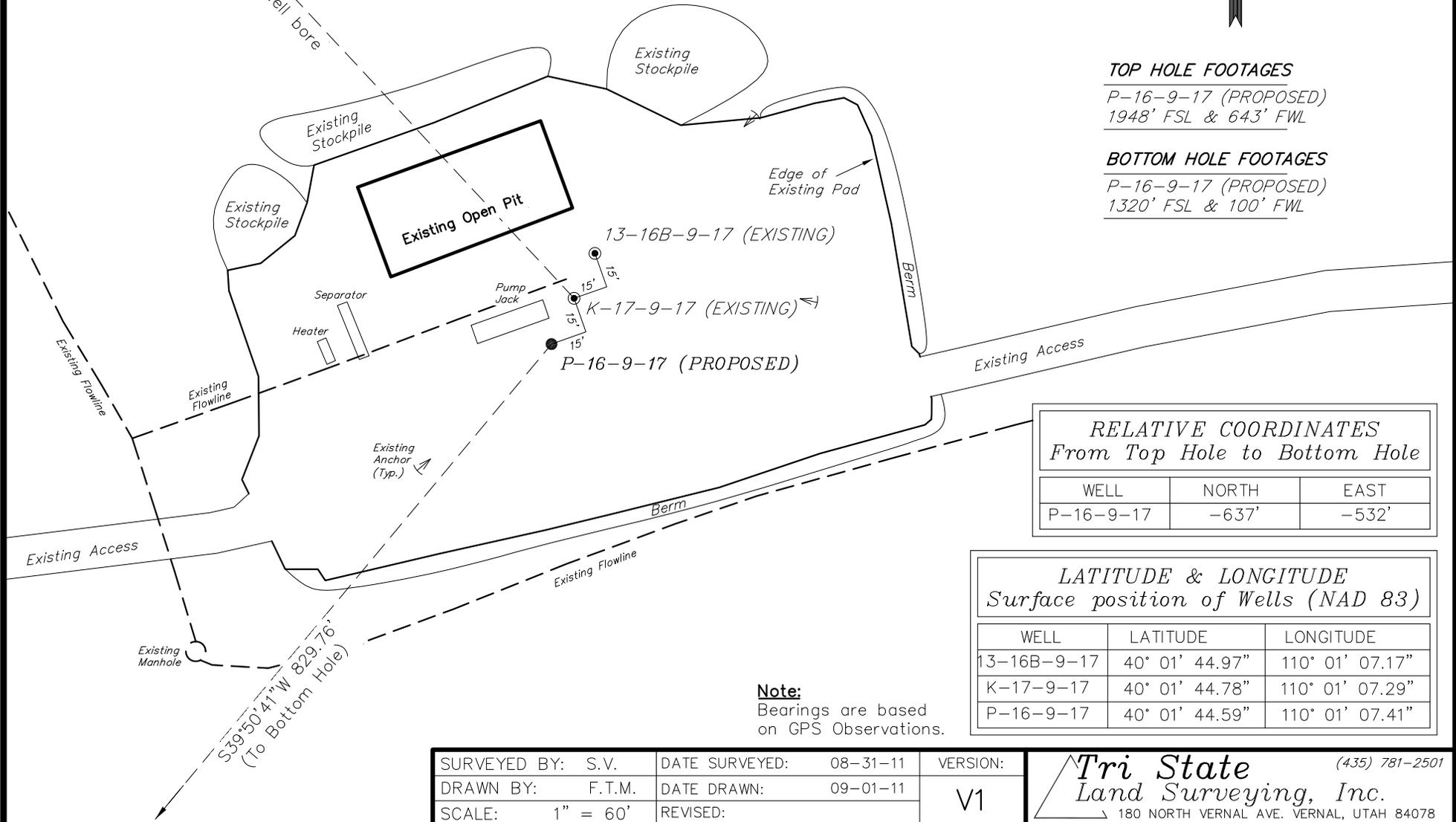
## WELL PAD INTERFERENCE PLAT

13-16B-9-17 (Existing Well)

K-17-9-17 (Existing Well)

P-16-9-17 (Proposed Well)

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



**TOP HOLE FOOTAGES**

P-16-9-17 (PROPOSED)  
1948' FSL & 643' FWL

**BOTTOM HOLE FOOTAGES**

P-16-9-17 (PROPOSED)  
1320' FSL & 100' FWL

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

WELL	NORTH	EAST
P-16-9-17	-637'	-532'

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

WELL	LATITUDE	LONGITUDE
13-16B-9-17	40° 01' 44.97"	110° 01' 07.17"
K-17-9-17	40° 01' 44.78"	110° 01' 07.29"
P-16-9-17	40° 01' 44.59"	110° 01' 07.41"

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

539°50'41"W 829.76'  
(To Bottom Hole)

SURVEYED BY: S.V.	DATE SURVEYED: 08-31-11	VERSION:
DRAWN BY: F.T.M.	DATE DRAWN: 09-01-11	V1
SCALE: 1" = 60'	REVISED:	

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

# NEWFIELD EXPLORATION COMPANY

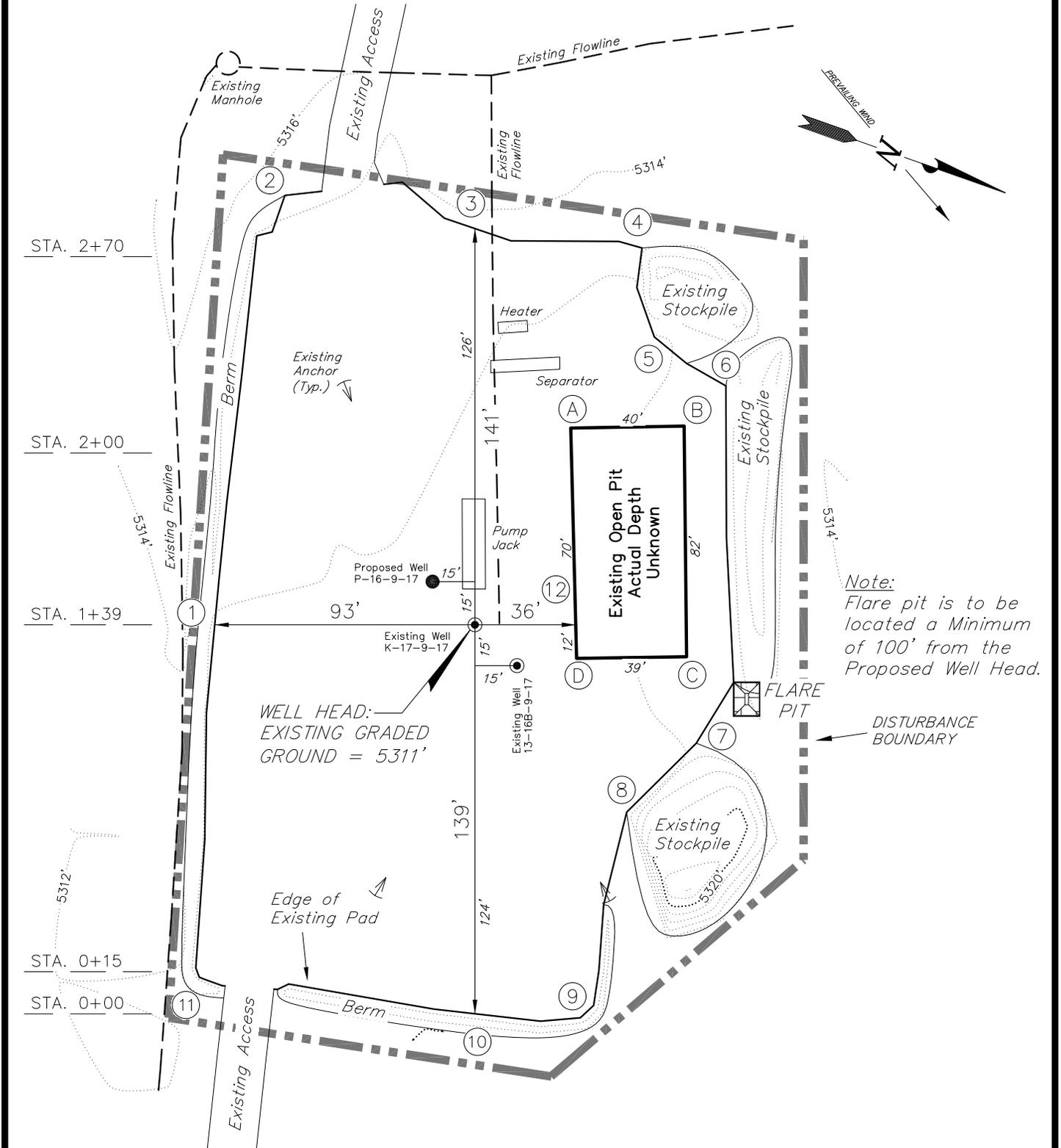
## LOCATION LAYOUT

13-16B-9-17 (Existing Well)

K-17-9-17 (Existing Well)

P-16-9-17 (Proposed Well)

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



SURVEYED BY: S.V.	DATE SURVEYED: 08-31-11	VERSION:
DRAWN BY: F.T.M.	DATE DRAWN: 09-01-11	V1
SCALE: 1" = 50'	REVISED:	

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

# NEWFIELD EXPLORATION COMPANY

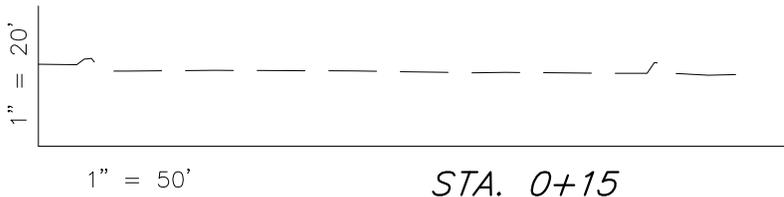
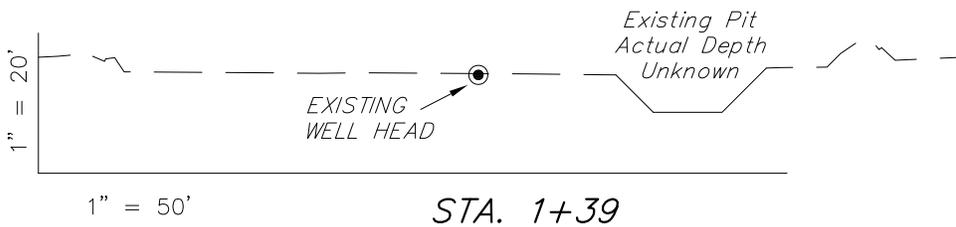
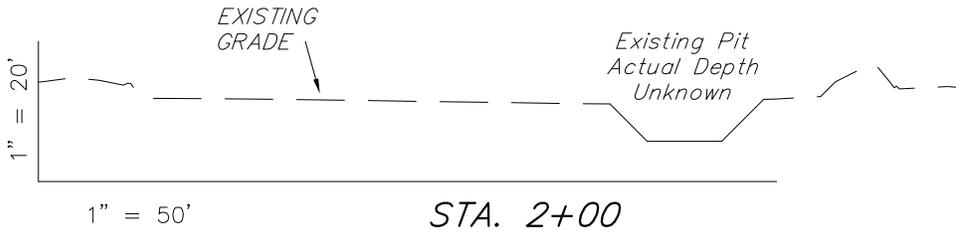
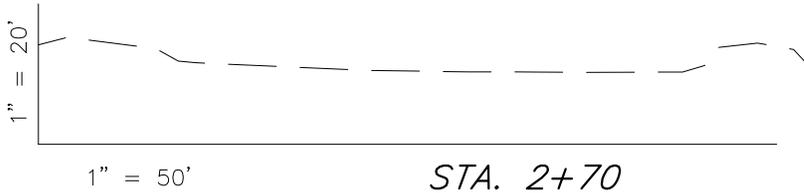
## CROSS SECTIONS

**13-16B-9-17 (Existing Well)**

**K-17-9-17 (Existing Well)**

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

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



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

"NO EARTHWORK QUANTITIES REQUIRED"

SURVEYED BY: S.V.	DATE SURVEYED: 08-31-11	VERSION:
DRAWN BY: F.T.M.	DATE DRAWN: 09-01-11	V1
SCALE: 1" = 50'	REVISED:	

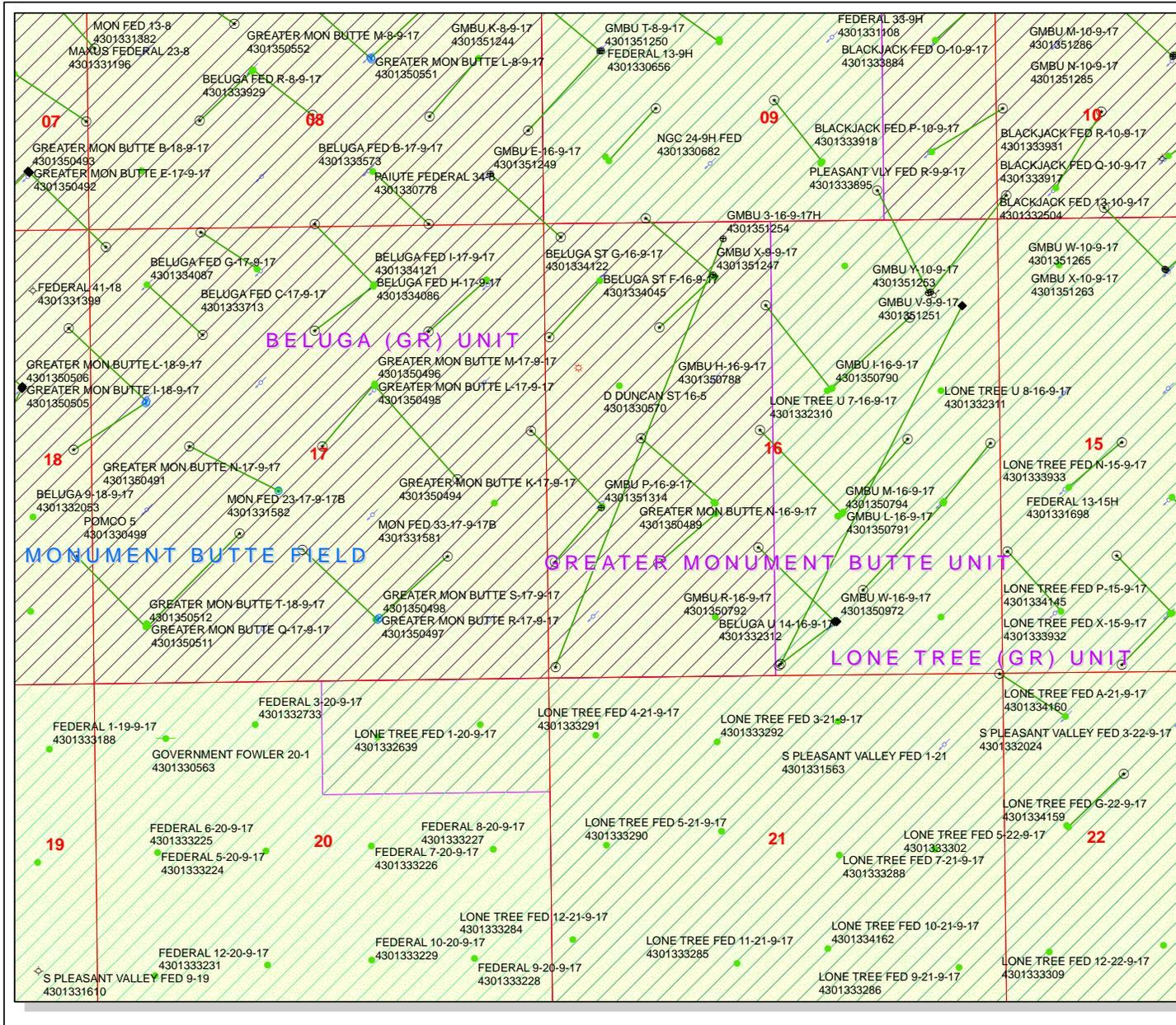
(435) 781-2501

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

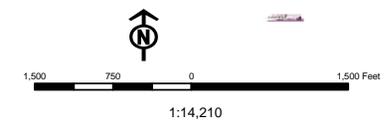


**API Number: 4301351314**  
**Well Name: GMBU P-16-9-17**  
 Township T09. Range R17. Section 16  
 Meridian: SLBM  
 Operator: NEWFIELD PRODUCTION COMPANY

Map Prepared:  
 Map Produced by Diana Mason



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



# 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)

March 22, 2012

Memorandum

To: Assistant District Manager Minerals, Vernal District  
From: Michael Coulthard, Petroleum Engineer  
Subject: 2012 Plan of Development Greater Monument  
Butte Unit, Duchesne and Uintah Counties,  
Utah.

Pursuant to email between Diana Whitney, Division of Oil, Gas and Mining, and Mickey Coulthard, Utah State Office, Bureau of Land Management, the following well is planned for calendar year 2012 within the Greater Monument Butte Unit, Duchesne and Uintah Counties, Utah.

API#	WELL NAME	LOCATION
------	-----------	----------

(Proposed PZ GREEN RIVER)

43-013-51314	GMBU P-16-9-17	Sec 16 T09S R17E 1948 FSL 0643 FWL
	BHL Sec 16 T09S R17E 1320 FSL 0100 FWL	

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

Michael L. Coulthard

Digitally signed by Michael L. Coulthard  
DN: cn=Michael L. Coulthard, o=Bureau of Land  
Management, ou=Branch of Minerals,  
email=Michael\_Coulthard@blm.gov, c=US  
Date: 2012.03.22 14:55:03 -06'00'

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

MCoulthard:mc:3-22-12

RECEIVED: March 22, 2012



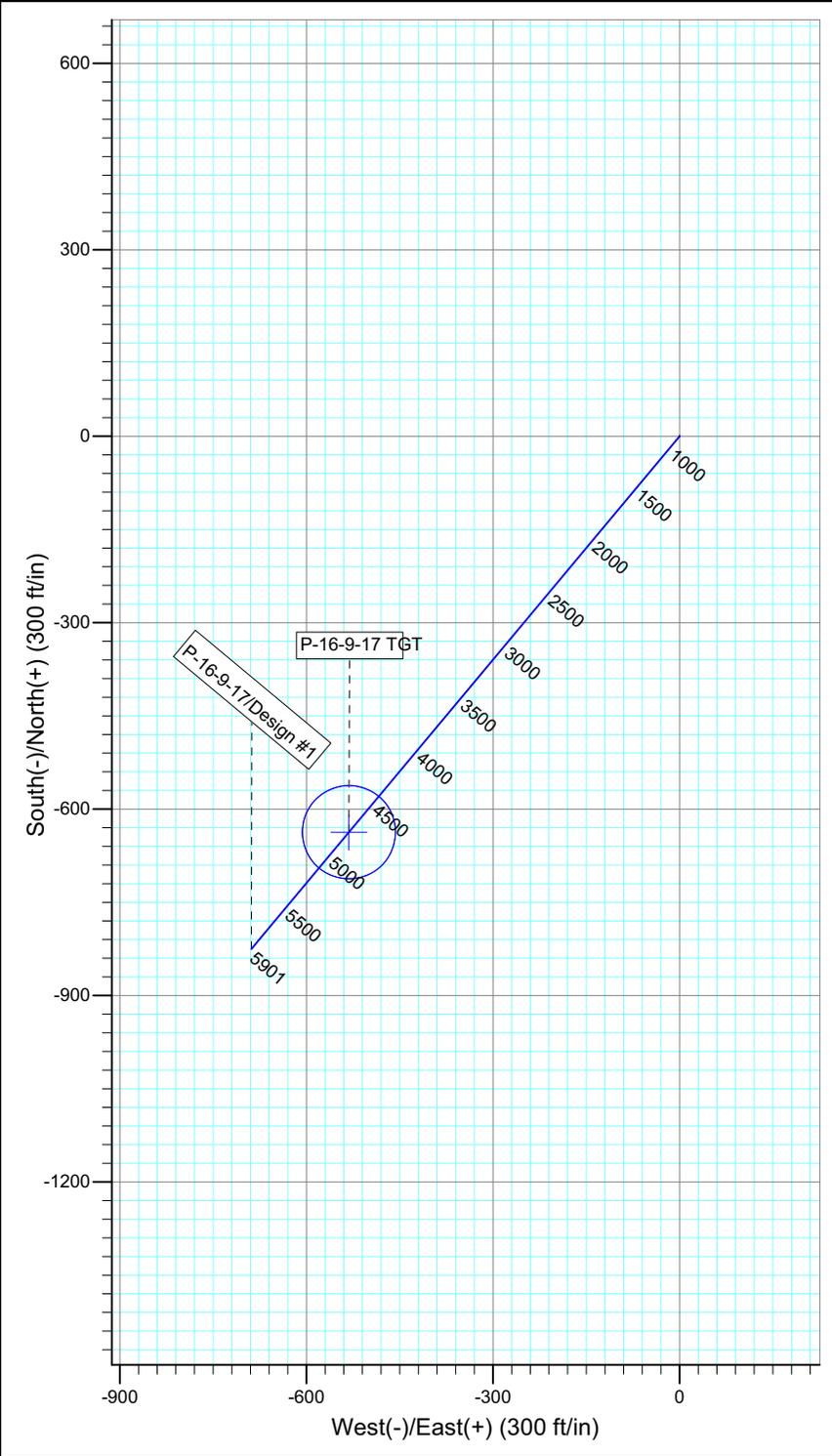
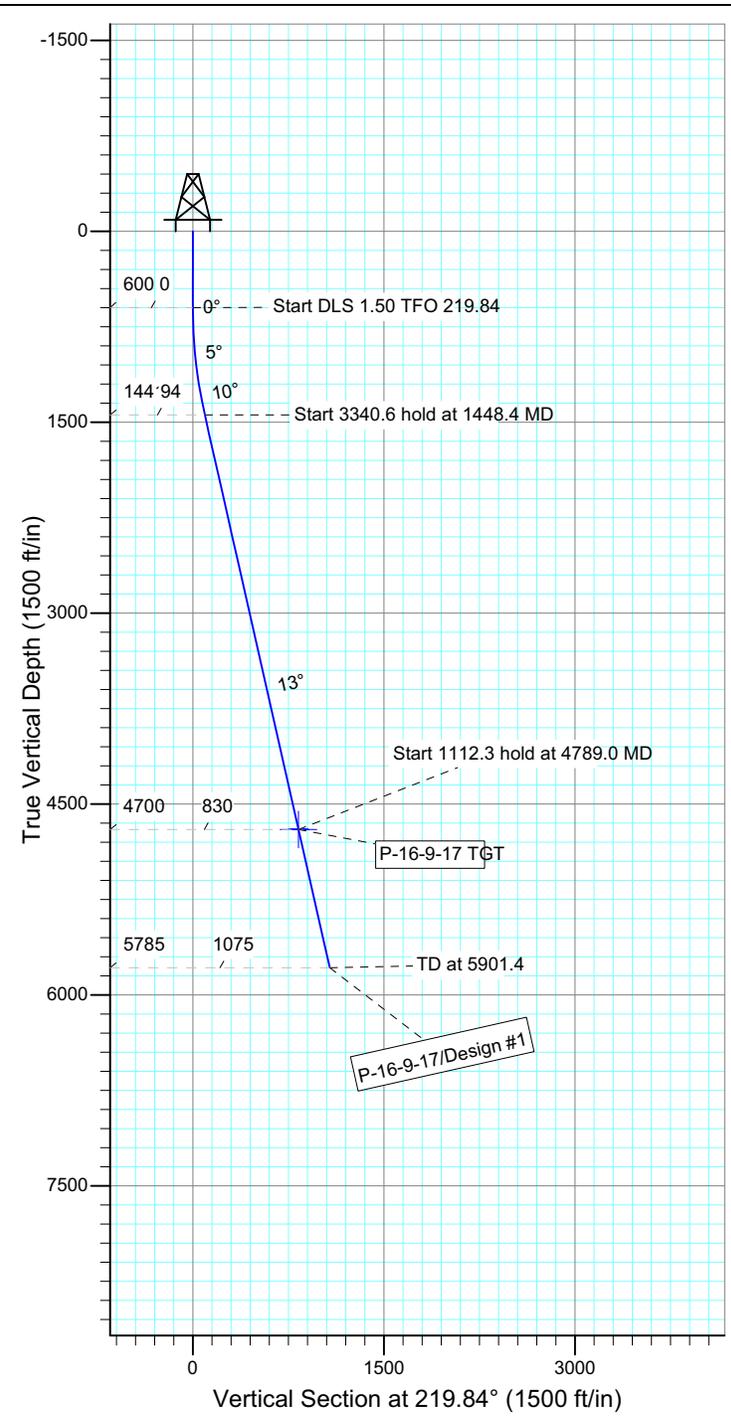
Project: USGS Myton SW (UT)  
 Site: SECTION 16 T9S, R17E  
 Well: P-16-9-17  
 Wellbore: Wellbore #1  
 Design: Design #1



Azimuths to True North  
 Magnetic North: 11.30°

Magnetic Field  
 Strength: 52279.2snT  
 Dip Angle: 65.79°  
 Date: 2011/05/10  
 Model: IGRF2010

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



WELLBORE TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Shape
P-16-9-17 TGT	4700.0	-637.1	-531.6	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	1448.4	12.73	219.84	1441.5	-72.1	-60.1	1.50	219.84	93.8	
4	4789.0	12.73	219.84	4700.0	-637.1	-531.6	0.00	0.00	829.8	P-16-9-17 TGT
5	5901.4	12.73	219.84	5785.0	-825.3	-688.6	0.00	0.00	1074.8	





VIA ELECTRONIC DELIVERY

March 22, 2012

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

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

Surface Hole: T9S-R17E Section 16: NWSW (ML-3453B)  
1948' FSL 643' FWL

At Target: T9S-R17E Section 16: NWSW (ML-3453B)  
1320' FSL 100' FWL

Duchesne County, Utah

Dear Ms. Mason:

Pursuant to the filing by Newfield Production Company (NPC) of an Application for Permit to Drill the above referenced well dated 3/20/2012, a copy of which is attached, and in accordance with Oil and Gas Conservation Rule R649-3-11, NPC hereby submits this letter as notice of our intention to directionally drill this well.

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

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

NPC hereby requests our application for permit to drill be granted pursuant to R649-3-11. If you have any questions or require further information, please contact the undersigned at 303-383-4121 or by email at [lburget@newfield.com](mailto:lburget@newfield.com). Your consideration in this matter is greatly appreciated.

Sincerely,  
Newfield Production Company

A handwritten signature in cursive script that reads "Leslie Burget".

Leslie Burget  
Land Associate

**From:** Jim Davis  
**To:** bfoote@newfield.com; mcrozier@newfield.com; teaton@newfield.com  
**CC:** APD APPROVAL  
**Date:** 6/6/2012 2:45 PM  
**Subject:** Newfield approvals

The following wells have been approved by SITLA including arch and paleo clearance where necessary.

STATE 3-36-9-15H (4301350984) This well required additional bonding through SITLA. The bond has been posted and everything appears to be in order.

GMBU P-16-9-17 (4301351314)  
GMBU D-21-9-17 (4301351351)

Newfield should be aware that High Desert Mining holds a metalliferous minerals lease in 9S 17E Sec 16. Newfield should notify coinciding lessees or permittees to avoid conflicting operations.

Thanks.  
-Jim

Well Name	NEWFIELD PRODUCTION COMPANY GMBU P-16-9-17 430135131400			
String	SURF	PROD		
Casing Size(")	8.625	5.500		
Setting Depth (TVD)	300	5854		
Previous Shoe Setting Depth (TVD)	0	300		
Max Mud Weight (ppg)	8.3	8.3		
BOPE Proposed (psi)	0	2000		
Casing Internal Yield (psi)	2950	4810		
Operators Max Anticipated Pressure (psi)	2517	8.3		

Calculations	<b>SURF String</b>	<b>8.625</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	NO	
MASP (Gas/Mud) (psi)	Max BHP-(0.22*Setting Depth)=	63	NO	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	
Required Casing/BOPE Test Pressure=		300	psi	
*Max Pressure Allowed @ Previous Casing Shoe=		0	psi *Assumes 1psi/ft frac gradient	

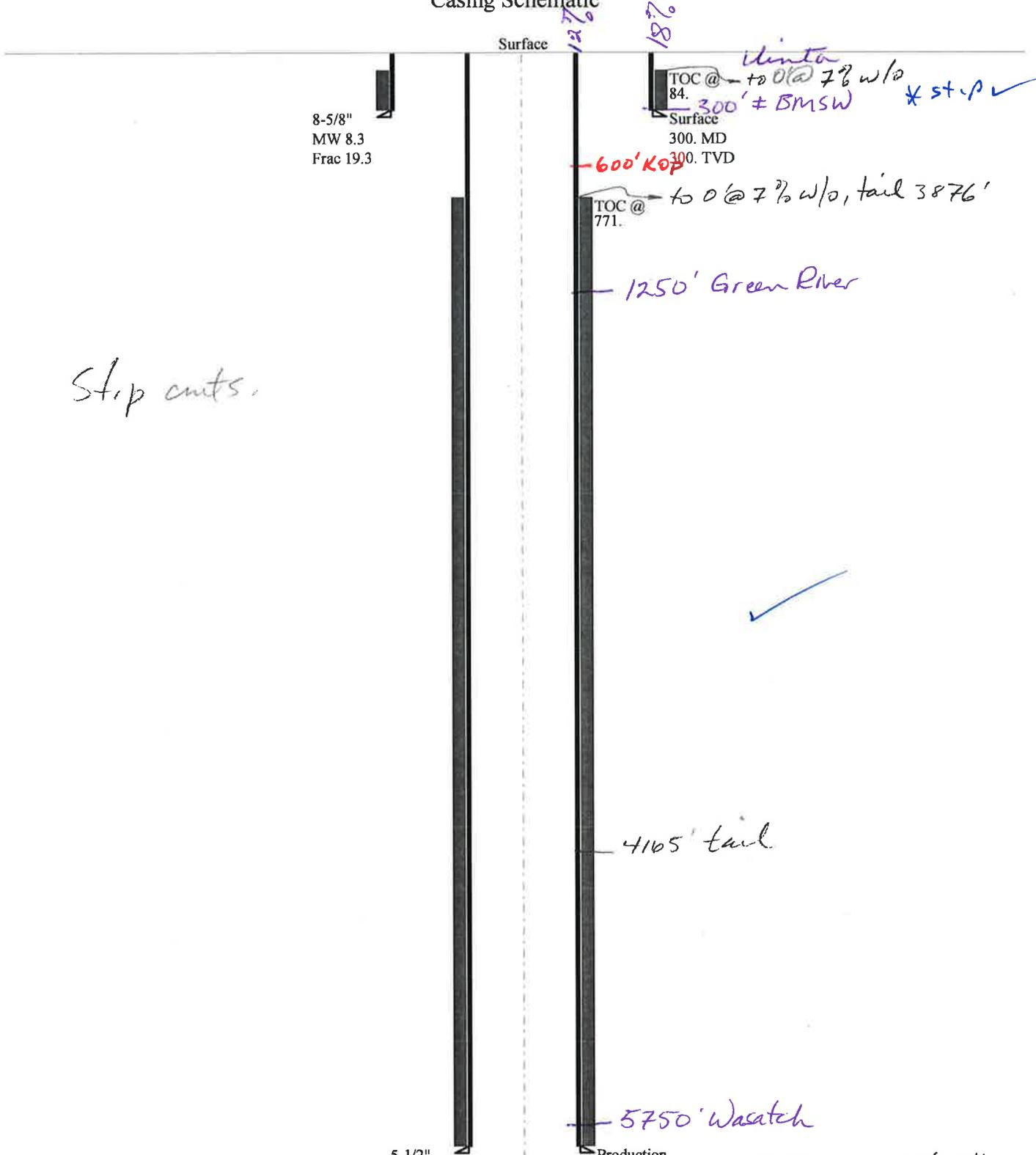
Calculations	<b>PROD String</b>	<b>5.500</b>	"	
Max BHP (psi)	.052*Setting Depth*MW=	2527		
			<b>BOPE Adequate For Drilling And Setting Casing at Depth?</b>	
MASP (Gas) (psi)	Max BHP-(0.12*Setting Depth)=	1825	YES	
MASP (Gas/Mud) (psi)	Max BHP-(0.22*Setting Depth)=	1239	YES	OK
			<b>*Can Full Expected Pressure Be Held At Previous Shoe?</b>	
Pressure At Previous Shoe	Max BHP-.22*(Setting Depth - Previous Shoe Depth)=	1305	NO	Reasonable for known area
Required Casing/BOPE Test Pressure=		3000	psi	
*Max Pressure Allowed @ Previous Casing Shoe=		300	psi *Assumes 1psi/ft frac gradient	

Calculations	<b>String</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	
MASP (Gas/Mud) (psi)	Max BHP-(0.22*Setting Depth)=		NO	
			<b>*Can Full Expected Pressure Be Held At Previous Shoe?</b>	
Pressure At Previous Shoe	Max BHP-.22*(Setting Depth - Previous Shoe Depth)=		NO	
Required Casing/BOPE Test Pressure=			psi	
*Max Pressure Allowed @ Previous Casing Shoe=			psi *Assumes 1psi/ft frac gradient	

Calculations	<b>String</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	
MASP (Gas/Mud) (psi)	Max BHP-(0.22*Setting Depth)=		NO	
			<b>*Can Full Expected Pressure Be Held At Previous Shoe?</b>	
Pressure At Previous Shoe	Max BHP-.22*(Setting Depth - Previous Shoe Depth)=		NO	
Required Casing/BOPE Test Pressure=			psi	
*Max Pressure Allowed @ Previous Casing Shoe=			psi *Assumes 1psi/ft frac gradient	

# 43013513140000 GMBU P-16-9-17

## Casing Schematic



Strip cuts.

8-5/8"  
MW 8.3  
Frac 19.3

5-1/2"  
MW 8.3

Production  
5854 MD  
5785. TVD

TOC @ 84. *Uinta*  
Surface  
300. MD  
300. TVD  
to 0 @ 7% w/o  
300' ± BMSW \* stop ✓

TOC @ 771.  
to 0 @ 7% w/o, tail 3876'

1250' Green River

4165' tail

5750' Wasatch

1948 SL 643 WL  
 -637 -532  
 1311 FSL 111 FWL ✓  
 SW SW Sec 17-95-17E IN GMBU

Well name:	<b>43013513140000 GMBU P-16-9-17</b>		
Operator:	<b>NEWFIELD PRODUCTION COMPANY</b>		
String type:	Surface	Project ID:	43-013-51314
Location:	DUCHESNE COUNTY		

**Design parameters:****Collapse**

Mud weight: 8.300 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: 84 ft

**Burst**

Max anticipated surface pressure: 230 psi  
Internal gradient: 0.233 psi/ft  
Calculated BHP 300 psi

Annular backup: 2.33 ppg

**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: 263 ft

**Non-directional string.****Re subsequent strings:**

Next setting depth: 5,785 ft  
Next mud weight: 8.300 ppg  
Next setting BHP: 2,494 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	129	1370	10.591	264	2950	11.19	7.2	244	33.89 J

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

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

Date: June 18, 2012  
Salt Lake City, Utah

**Remarks:**

Collapse is based on a vertical depth of 300 ft, a mud weight of 8.3 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.

*Engineering responsibility for use of this design will be that of the purchaser.*

Well name:	<b>43013513140000 GMBU P-16-9-17</b>	
Operator:	<b>NEWFIELD PRODUCTION COMPANY</b>	
String type:	Production	Project ID: 43-013-51314
Location:	DUCHESNE COUNTY	

**Design parameters:****Collapse**

Mud weight: 8.300 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: 1,000 ft

Cement top: 771 ft

**Burst**

Max anticipated surface pressure: 1,222 psi  
Internal gradient: 0.220 psi/ft  
Calculated BHP 2,494 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)

**Directional Info - Build & Hold**

Kick-off point 600 ft  
Departure at shoe: 1075 ft  
Maximum dogleg: 1.5 °/100ft  
Inclination at shoe: 12.73 °

Tension is based on air weight.

Neutral point: 5,156 ft

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	5854	5.5	15.50	J-55	LT&C	5785	5901	4.825	20836
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	2494	4040	1.620	2494	4810	1.93	89.7	217	2.42 J

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

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

Date: June 18, 2012  
Salt Lake City, Utah

**Remarks:**

Collapse is based on a vertical depth of 5785 ft, a mud weight of 8.3 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

*Engineering responsibility for use of this design will be that of the purchaser.*

# ON-SITE PREDRILL EVALUATION

## Utah Division of Oil, Gas and Mining

**Operator** NEWFIELD PRODUCTION COMPANY  
**Well Name** GMBU P-16-9-17  
**API Number** 43013513140000      **APD No** 5484      **Field/Unit** MONUMENT BUTTE  
**Location: 1/4,1/4** NWSW      **Sec** 16      **Tw** 9.0S      **Rng** 17.0E      1948 FSL 643 FWL  
**GPS Coord (UTM)**      **Surface Owner**

### Participants

T. Eaton, F. Bird, Z. Mc Intyre– Newfield; C. Jensen,– DOGM ; J. Davis- SITLA

### Regional/Local Setting & Topography

This location is on the Parriette Bench in the Monument Butte field 14 road miles south of Myton, Utah. The topography is relatively flat with slopes of around 2% or less. Drainages in the area are eventual tributaries of Snyder reservoir.

Very much of the surrounding lands have seen extensive development for petroleum extraction. Ferruginous Hawks are known to nest within 1/2 mile radius. DWR stipulates Drilling be suspended during the period of March 1st through July 15th.

### Surface Use Plan

#### **Current Surface Use**

Existing Well Pad

<b>New Road Miles</b>	<b>Well Pad</b>	<b>Src Const Material</b>	<b>Surface Formation</b>
0	<b>Width 150    Length 280</b>		UNTA

**Ancillary Facilities** Y

**Waste Management Plan Adequate?** Y

### Environmental Parameters

**Affected Floodplains and/or Wetlands** N

#### **Flora / Fauna**

Disturbed lands with No vegetation

However, Ferruginous Hawks are known to nest within 1/2 mile radius. DWR stipulates Drilling be suspended during the period of March 1st through July 15th.

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

disturbed gravels

**Erosion Issues** N

**Sedimentation Issues** N

**Site Stability Issues** N

**Drainage Diverson Required?** N

**Berm Required? Y**

**Erosion Sedimentation Control Required? N**

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

**Reserve Pit**

**Site-Specific Factors**

**Site Ranking**

- Distance to Groundwater (feet)**
- Distance to Surface Water (feet)**
- Dist. Nearest Municipal Well (ft)**
- Distance to Other Wells (feet)**
- Native Soil Type**
- Fluid Type**
- Drill Cuttings**
- Annual Precipitation (inches)**
- Affected Populations**
- Presence Nearby Utility Conduits**

**Final Score**

**Sensitivity Level**

**Characteristics / Requirements**

existing pit to be reopened and lined with a synthetic liner.

**Closed Loop Mud Required?    Liner Required?    Liner Thickness    Pit Underlayment Required?**

**Other Observations / Comments**

Chris Jensen  
Evaluator

3/28/2012  
Date / Time

---

**Application for Permit to Drill  
Statement of Basis  
Utah Division of Oil, Gas and Mining**

---

<b>APD No</b>	<b>API WellNo</b>	<b>Status</b>	<b>Well Type</b>	<b>Surf Owner</b>	<b>CBM</b>
5484	43013513140000	LOCKED	OW	S	No
<b>Operator</b>	NEWFIELD PRODUCTION COMPANY		<b>Surface Owner-APD</b>		
<b>Well Name</b>	GMBU P-16-9-17		<b>Unit</b>	GMBU (GRRV)	
<b>Field</b>	MONUMENT BUTTE		<b>Type of Work</b>	DRILL	
<b>Location</b>	NWSW 16 9S 17E S 1948 FSL 643 FWL GPS Coord (UTM) 583731E 4431449N				

**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**

4/10/2012  
**Date / Time**

**Surface Statement of Basis**

New Well on an Existing pad. Host well 13-16B-9-17 and the K-17-9-17.  
No new disturbance to pad or surrounding lands  
However, Ferruginous Hawks are known to nest within 1/2 mile radius. DWR stipulates Drilling be suspended during the period of March 1st through July 15th.

Chris Jensen  
**Onsite Evaluator**

3/28/2012  
**Date / Time**

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

<b>Category</b>	<b>Condition</b>
Drilling	However, Ferruginous Hawks are known to nest within 1/2 mile radius. DWR stipulates Drilling be suspended during the period of March 1st through July 15th.
Pits	A synthetic liner with a minimum thickness of 16 mils with a felt subliner shall be properly installed and maintained in the reserve pit.
Surface	Drainages adjacent to the proposed pad shall be diverted around the location.
Surface	The well site shall be bermed to prevent fluids from leaving the pad.
Surface	The reserve pit shall be fenced upon completion of drilling operations.

## WORKSHEET APPLICATION FOR PERMIT TO DRILL

APD RECEIVED: 3/20/2012

API NO. ASSIGNED: 43013513140000

WELL NAME: GMBU P-16-9-17

OPERATOR: NEWFIELD PRODUCTION COMPANY (N2695)

PHONE NUMBER: 435 646-4825

CONTACT: Mandie Crozier

PROPOSED LOCATION: NWSW 16 090S 170E

Permit Tech Review: 

SURFACE: 1948 FSL 0643 FWL

Engineering Review: 

BOTTOM: 1320 FSL 0100 FWL

Geology Review: 

COUNTY: DUCHESNE

LATITUDE: 40.02911

LONGITUDE: -110.01867

UTM SURF EASTINGS: 583731.00

NORTHINGS: 4431449.00

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

Commingling Approved

## LOCATION AND SITING:

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

Comments: Presite Completed

Stipulations: 5 - Statement of Basis - bhill  
 15 - Directional - dmason  
 25 - Surface Casing - hmacdonald  
 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 P-16-9-17  
**API Well Number:** 43013513140000  
**Lease Number:** ML-3453B  
**Surface Owner:** STATE  
**Approval Date:** 8/8/2012

### Issued to:

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

### Authority:

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

### Duration:

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

### General:

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

### Conditions of Approval:

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).

Surface casing shall be cemented 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:**

**Approved by:**

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

For John Rogers  
Associate Director, Oil & Gas

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

5. LEASE DESIGNATION AND SERIAL NUMBER:  
UTAH STATE ML-3453-B

**SUNDRY NOTICES AND REPORTS ON WELLS**

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

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.

7. UNIT or CA AGREEMENT NAME:  
GMBU

1. TYPE OF WELL:      OIL WELL       GAS WELL       OTHER

8. WELL NAME and NUMBER:  
GMBU P-16-9-17

2. NAME OF OPERATOR:  
NEWFIELD PRODUCTION COMPANY

9. API NUMBER:  
4301351314

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

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

4. LOCATION OF WELL:  
FOOTAGES AT SURFACE:

COUNTY: DUCHESNE

OTR/OTR. SECTION. TOWNSHIP. RANGE. MERIDIAN:      , 16, T9S, R17E

STATE: UT

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

TYPE OF SUBMISSION	TYPE OF ACTION		
<input type="checkbox"/> NOTICE OF INTENT (Submit in Duplicate)  Approximate date work will _____	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> REPERFORATE CURRENT FORMATION
	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> SIDETRACK TO REPAIR WELL
	<input type="checkbox"/> CASING REPAIR	<input type="checkbox"/> NEW CONSTRUCTION	<input type="checkbox"/> TEMPORARITLY ABANDON
	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> TUBING REPAIR
	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> VENT OR FLAIR
<input checked="" type="checkbox"/> SUBSEQUENT REPORT (Submit Original Form Only)  Date of Work Completion: <u>02/22/2013</u>	<input type="checkbox"/> CHANGE WELL NAME	<input type="checkbox"/> PLUG BACK	<input type="checkbox"/> WATER DISPOSAL
	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> PRODUCTION (START/STOP)	<input type="checkbox"/> WATER SHUT-OFF
	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input checked="" type="checkbox"/> OTHER: - Spud Notice
	<input type="checkbox"/> CONVERT WELL TYPE	<input type="checkbox"/> RECOMPLETE - DIFFERENT FORMATION	

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

On 2/20/13 MIRU Pro Petro # 8. Spud well @8:00 AM. Drill 326' of 12 1/4" hole with air mist. TIH W/ 7 Jt's 8 5/8" J-55 24# csgn. Set @ 319.69. On 2/22/13 cement with 175 sks of class "G" w/ 2% CaCL2 + 0.25#/sk Cello- Flake Mixed @ 15.8ppg w/ 1.17ft3/sk yield. Returned 3 barrels cement to pit. WOC.

RECEIVED

MAR 06 2013

DIVISION OF OIL, GAS AND MINING

NAME (PLEASE PRINT) Branden Arnold

TITLE \_\_\_\_\_

SIGNATURE *Branden Arnold*

DATE 03/01/2013

# Casing / Liner Detail

**Well** GMBU P-16-9-17  
**Prospect** Monument Butte  
**Foreman**  
**Run Date:**  
**String Type** Conductor, 14", 36.75#, H-40, W (Welded)

## - Detail From Top To Bottom -

Depth	Length	JTS	Description	OD	ID
15.00			10' KB		
10.00	5.00		Conductor	14.000	13.500
15.00					

### Cement Detail

<b>Cement Company:</b>					
Slurry	# of Sacks	Weight (ppg)	Yield	Volume (ft³)	Description - Slurry Class and Additives

Stab-In-Job? BHT: 0 Initial Circulation Pressure: Initial Circulation Rate: Final Circulation Pressure: Final Circulation Rate: Displacement Fluid: Displacement Rate: Displacement Volume: Mud Returns: Centralizer Type And Placement:	Cement To Surface? Est. Top of Cement: Plugs Bumped? Pressure Plugs Bumped: Floats Holding? Casing Stuck On / Off Bottom? Casing Reciprocated? Casing Rotated? CIP: Casing Wt Prior To Cement: Casing Weight Set On Slips:
--	--



## Casing / Liner Detail

**Well** GMBU P-16-9-17  
**Prospect** Monument Butte  
**Foreman**  
**Run Date:**  
**String Type** Surface, 8.625", 24#, J-55, Stc (Generic)

### - Detail From Top To Bottom -

Depth	Length	JTS	Description	OD	ID
319.69			10' KB		
10.00	1.42		Wellhead		
11.42	264.29	6	8 5/8 Casing	8.625	
275.71	43.98	1	Shoe Joint	8.625	

### Cement Detail

<b>Cement Company:</b> Other					
Slurry	# of Sacks	Weight (ppg)	Yield	Volume (ft <sup>3</sup> )	Description - Slurry Class and Additives
Slurry 1	175	15.8	1.17	204.75	Class G+2%kcl+.25#CF

Stab-In-Job?	No		Cement To Surface?	Yes
BHT:	0		Est. Top of Cement:	0
Initial Circulation Pressure:			Plugs Bumped?	Yes
Initial Circulation Rate:			Pressure Plugs Bumped:	600
Final Circulation Pressure:			Floats Holding?	No
Final Circulation Rate:			Casing Stuck On / Off Bottom?	No
Displacement Fluid:	Water		Casing Reciprocated?	No
Displacement Rate:			Casing Rotated?	No
Displacement Volume:	16.8		CIP:	10:35
Mud Returns:			Casing Wt Prior To Cement:	
Centralizer Type And Placement:			Casing Weight Set On Slips:	

Middle of first, top of second and third for a total of three.



BLM - Vernal Field Office - Notification Form

Operator Newfield Exploration Rig Name/# Pro Petro # 8  
Submitted By Branden Arnold Phone Number 435-401-0223  
Well Name/Number GMBU P-16-9-17  
Qtr/Qtr NW/SW Section 16 Township 9S Range 17E  
Lease Serial Number ML-3453B  
API Number 43-013-51314

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

Date/Time 2/20/13 8:00 AM  PM

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

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

Date/Time 2/20/13 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 \_\_\_\_\_

---

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

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

OPERATOR ACCT. NO. N2695

ACTION CODE	CURRENT ENTITY NO.	NEW ENTITY NO.	API NUMBER	WELL NAME	WELL LOCATION					SPUD DATE	EFFECTIVE DATE
					QQ	SC	TP	RG	COUNTY		
A	99999	180934	4304752030	UTE TRIBAL 11-21-4-2E	NESW	21	4S	2E	UINTAH	2/18/2013	2/28/13

WELL 1 COMMENTS:

ACTION CODE	CURRENT ENTITY NO.	NEW ENTITY NO.	API NUMBER	WELL NAME	WELL LOCATION					SPUD DATE	EFFECTIVE DATE
					QQ	SC	TP	RG	COUNTY		
B	99999	17400	4301351355	GMBU G-15-9-17	SENW	15	9S	17E	DUCHESNE	2/22/2013	3/13/13

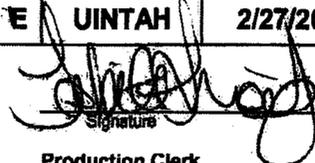
ACTION CODE	CURRENT ENTITY NO.	NEW ENTITY NO.	API NUMBER	WELL NAME	WELL LOCATION					SPUD DATE	EFFECTIVE DATE
					QQ	SC	TP	RG	COUNTY		
B	99999	17400	4301351356	GMBU H-15-9-17	SENW	15	9S	17E	DUCHESNE	2/22/2013	2/28/13

ACTION CODE	CURRENT ENTITY NO.	NEW ENTITY NO.	API NUMBER	WELL NAME	WELL LOCATION					SPUD DATE	EFFECTIVE DATE
					QQ	SC	TP	RG	COUNTY		
B	99999	17400	4301351314	GMBU P-16-9-17	NWSW	16	9S	17E	DUCHESNE	2/20/2013	3/13/13

ACTION CODE	CURRENT ENTITY NO.	NEW ENTITY NO.	API NUMBER	WELL NAME	WELL LOCATION					SPUD DATE	EFFECTIVE DATE
					QQ	SC	TP	RG	COUNTY		
B	99999	17400	4304752597	GMBU P-31-8-18	NESE	36	8S	17E	UINTAH	2/26/2013	3/13/13

ACTION CODE	CURRENT ENTITY NO.	NEW ENTITY NO.	API NUMBER	WELL NAME	WELL LOCATION					SPUD DATE	EFFECTIVE DATE
					QQ	SC	TP	RG	COUNTY		
B	99999	17400	4304752592	GMBU O-31-8-18	NESE	36	8S	17E	UINTAH	2/27/2013	3/13/13

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

  
 Signature  
 Tabitha Timothy  
 Production Clerk 03/05/13

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

RECEIVED

MAR 11 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>  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 P-16-9-17
<b>3. ADDRESS OF OPERATOR:</b> Rt 3 Box 3630 , Myton, UT, 84052		<b>9. API NUMBER:</b> 43013513140000
<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> 1948 FSL 0643 FWL <b>QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:</b> Qtr/Qtr: NWSW 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 type="checkbox"/> SPUD REPORT Date of Spud:	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> CONVERT WELL TYPE
<input checked="" type="checkbox"/> DRILLING REPORT Report Date: 3/27/2013	<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"/> 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.

The above well was placed on production on 03/27/2013 at 19:00 hours.

**Accepted by the  
Utah Division of  
Oil, Gas and Mining  
FOR RECORD ONLY  
April 18, 2013**

<b>NAME (PLEASE PRINT)</b> Jennifer Peatross	<b>PHONE NUMBER</b> 435 646-4885	<b>TITLE</b> Production Technician
<b>SIGNATURE</b> N/A	<b>DATE</b> 4/18/2013	

<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>6. IF INDIAN, ALLOTTEE OR TRIBE NAME:</b>	
<b>7. UNIT or CA AGREEMENT NAME:</b> GMBU (GRRV)	
<b>8. WELL NAME and NUMBER:</b> GMBU P-16-9-17	
<b>9. API NUMBER:</b> 43013513140000	
<b>9. FIELD and POOL or WILDCAT:</b> MONUMENT BUTTE	
<b>COUNTY:</b> DUCHESNE	
<b>STATE:</b> UTAH	
<b>1. TYPE OF WELL</b> Oil Well	
<b>2. NAME OF OPERATOR:</b> NEWFIELD PRODUCTION COMPANY	
<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> 1948 FSL 0643 FWL <b>QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:</b> Qtr/Qtr: NWSW Section: 16 Township: 09.0S Range: 17.0E Meridian: S	

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: 5/4/2016	<input type="checkbox"/> ACIDIZE <input type="checkbox"/> CHANGE TO PREVIOUS PLANS <input type="checkbox"/> CHANGE WELL STATUS <input type="checkbox"/> DEEPEN <input type="checkbox"/> OPERATOR CHANGE <input type="checkbox"/> PRODUCTION START OR RESUME <input type="checkbox"/> REPERFORATE CURRENT FORMATION <input type="checkbox"/> TUBING REPAIR <input type="checkbox"/> WATER SHUTOFF <input type="checkbox"/> WILDCAT WELL DETERMINATION	<input type="checkbox"/> ALTER CASING <input type="checkbox"/> CHANGE TUBING <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS <input type="checkbox"/> FRACTURE TREAT <input type="checkbox"/> PLUG AND ABANDON <input type="checkbox"/> RECLAMATION OF WELL SITE <input type="checkbox"/> SIDETRACK TO REPAIR WELL <input type="checkbox"/> VENT OR FLARE <input type="checkbox"/> SI TA STATUS EXTENSION <input checked="" type="checkbox"/> OTHER	<input type="checkbox"/> CASING REPAIR <input type="checkbox"/> CHANGE WELL NAME <input type="checkbox"/> CONVERT WELL TYPE <input type="checkbox"/> NEW CONSTRUCTION <input type="checkbox"/> PLUG BACK <input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION <input type="checkbox"/> TEMPORARY ABANDON <input type="checkbox"/> WATER DISPOSAL <input type="checkbox"/> APD EXTENSION OTHER: <input type="text" value="Well Clean Out"/>
<input type="checkbox"/> <b>SUBSEQUENT REPORT</b> Date of Work Completion:			
<input type="checkbox"/> <b>SPUD REPORT</b> Date of Spud:			
<input type="checkbox"/> <b>DRILLING REPORT</b> Report Date:			

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

For the above mentioned well, Newfield will be doing a bit and scrapper run to clean the wellbore\ perforations. We plan on cleaning out fill if needed with the intention to increase hydrocarbon production and bring the well back up to economic volumes.

**Approved by the**  
**May 09, 2016**  
**Oil, Gas and Mining**

**Date:** \_\_\_\_\_  
**By:**       D. K. Quist      

<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> 5/4/2016	

<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 P-16-9-17
<b>3. ADDRESS OF OPERATOR:</b> Rt 3 Box 3630 , Myton, UT, 84052		<b>9. API NUMBER:</b> 43013513140000
<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> 1948 FSL 0643 FWL <b>QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:</b> Qtr/Qtr: NWSW 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 checked="" type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion: 5/18/2016	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> CHANGE WELL NAME
<input type="checkbox"/> SPUD REPORT Date of Spud:	<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 checked="" type="checkbox"/> OTHER	OTHER: <input type="text" value="Well Clean Out"/>

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

On 05/18/16 a bit and scrapper run was completed to clean out the scale in the wellbore. See attached daily rig summary report.

**Accepted by the  
Utah Division of  
Oil, Gas and Mining  
FOR RECORD ONLY  
May 24, 2016**

<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> 5/20/2016	

## NEWFIELD



## Summary Rig Activity

Well Name: GMBU P-16-9-17

Job Category	Job Start Date	Job End Date

Daily Operations		
Report Start Date	Report End Date	24hr Activity Summary
5/16/2016	5/16/2016	MIRUSU. TOOH w/ rods. RU BOP's. Test BOP's. Release TA. Tag fill. TOOH w/ tbg. RIH w/ bit and scraper.
Start Time	End Time	Comment
06:00	07:00	Crew travel. Held safety meeting. Start equipment.
Start Time	End Time	Comment
07:00	08:00	MIRUSU.
Start Time	End Time	Comment
08:00	08:30	Rig down pump unit.
Start Time	End Time	Comment
08:30	09:30	Open well w/ 55 psi on casing. Unseat pump w/ 10K over. Flush rods w/ 40 bbls wtr. Started at 1500 psi at 3/8 BPM and ended at 1000 psi at 1.25 BPM.
Start Time	End Time	Comment
09:30	10:00	Soft seat pump. Test tbg to 3000 psi w/ 3 bbls water. Well circulating. Retrieve rod string.
Start Time	End Time	Comment
10:00	11:30	TOOH w/ rods. 1-1/2" X30' PL RD, 2- 4',6',8' X 7/8" Pny rds, 75- 7/8" 4per rds, 119- 3/4" 4per rds, 28- 7/8" 8per rds, 2-1/2" x 1-1/2" x 20' RHAC pump. No bad rods. Very little to no scale. Pump is stuck open.
Start Time	End Time	Comment
11:30	12:00	RD Well head. Instal 4' pup jt. RU BOP's.
Start Time	End Time	Comment
12:00	12:30	RU B & C Quick test. Pressure test BOP's 275 low for 5 min. 5K high for 10 min.
Start Time	End Time	Comment
12:30	13:30	Release TA. Pickup 2 jts tbg and TIH to tag fill @ 5724'. Made 62' of new fill.
Start Time	End Time	Comment
13:30	15:30	TOOH w/ tbg. Tally out. 177 jts, TA, 1 jt, SN, bleed nipple, 2 jts tbg, NC. Btm 20 stds show 1/16" scale. std above SN 1/4" thick scale. 14 jts from btm some pitting.
Start Time	End Time	Comment
15:30	18:00	RU bit and scraper. TIH w/ 140 jts tbg. SIFN. Crew Travel back to NFX yard.
Report Start Date	Report End Date	24hr Activity Summary
5/17/2016	5/17/2016	TIH w/ bit scraper. TOOH w/ acidizing well. TIH w/ tbg and flush well. TOOH w/ tbg. RIH w/ bailor. Bail 50'. TOOH w/ 40 jts.
Start Time	End Time	Comment
06:00	07:00	Crew travel. Held safety meeting. Start equipment.
Start Time	End Time	Comment
07:00	08:00	Open well w/ 45 psi on casing. TIH w/ tbg to tag @ 5724'.
Start Time	End Time	Comment
08:00	10:30	RU Western Chemical. TOOH w/ tbg spotting acid in 5 stgs. 12 bbls of 15% HCL acid in 100 bbls wtr. Returned 55 bbls fluid.
Start Time	End Time	Comment
10:30	11:30	Let acid cure. and monitor well.
Start Time	End Time	Comment
11:30	12:00	TIH w/ 41 jts tbg to leave EOT @ 5622'.
Start Time	End Time	Comment
12:00	14:00	Took 20 bbls to catch fluid. Circulate acid out of well w/ 110 bbls . Returned 74 bbls up tbg.
Start Time	End Time	Comment
14:00	15:30	TOOH w/ 182 jts tbg. RD bit and scraper.
Start Time	End Time	Comment
15:30	17:30	RU Slauch chisel bit, Flapper, 2' x 2-7/8" pup jt, Flapper, 21 jts, Bailor, Flapper, Drain sub, 159 jts tbg to tag @ 5722' Bailed 50' of fill to 5772'. Found something hard. Set 20 min and check to see if CV are holding.
Start Time	End Time	Comment
17:30	18:30	TOOH w/ 20 stds tbg. SIFN. Crew travel.

## NEWFIELD



## Summary Rig Activity

Well Name: GMBU P-16-9-17

--

## Daily Operations

Report Start Date	Report End Date	24hr Activity Summary
5/18/2016	5/18/2016	TOOH w/ bailor. RIH w/ production. RDMOSU. FINAL REPORT!
Start Time	End Time	Comment
06:00	07:00	CREW Travel. Held safety meeting. Start equipment.
Start Time	End Time	Comment
07:00	09:30	Continue TOOH w/ tbg. Had 5 stds of sand and scale. Bit was plugged off w/ scale. LD Bailor.
Start Time	End Time	Comment
09:30	11:00	TIH w/ NC, 2 jts 2-7/8" J-55 tbg, Bleed Nipple, SN, 39 jts tbg, TA New Stack'd Oil Tools w/ 50k shear, 138 jts tbg.
Start Time	End Time	Comment
11:00	12:30	RD BOP's. Set TA w/ 15K tension @ 4348' & SN @ 5577' w/ EOT @ 5643'. Flush tbg w/ 30 bbls water.
Start Time	End Time	Comment
12:30	14:30	Pickup and prime pump. RIH w/ 2-1/2" x 1-1/2" x 22' new RHAC Weatherford pump w/ 185"SL, 28- 7/8" 8per rds, 119- 3/4" 4per rds, 74- 7/8" 4per rds, 2', 6' x 7/8" pny rods, 1-1/2" x 30' pl rd.
Start Time	End Time	Comment
14:30	15:30	Space out well. Test tbg and pump to 800 psi w/ 5 bbls water.
Start Time	End Time	Comment
15:30	18:00	RDMOSU. Travel to K-16-9-17. Final Report.