

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 M-17-9-16				
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) UTU-52018			11. MINERAL OWNERSHIP FEDERAL <input checked="" type="checkbox"/> INDIAN <input type="checkbox"/> STATE <input type="checkbox"/> FEE <input type="checkbox"/>			12. SURFACE OWNERSHIP FEDERAL <input checked="" type="checkbox"/> INDIAN <input type="checkbox"/> STATE <input 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		2077 FSL 2148 FEL		NWSE	17	9.0 S	16.0 E	S		
Top of Uppermost Producing Zone		2400 FSL 2591 FEL		NWSE	17	9.0 S	16.0 E	S		
At Total Depth		2564 FNL 2266 FWL		SENV	17	9.0 S	16.0 E	S		
21. COUNTY DUCHESENE			22. DISTANCE TO NEAREST LEASE LINE (Feet) 76			23. NUMBER OF ACRES IN DRILLING UNIT 20				
			25. DISTANCE TO NEAREST WELL IN SAME POOL (Applied For Drilling or Completed) 1320			26. PROPOSED DEPTH MD: 6369 TVD: 6260				
27. ELEVATION - GROUND LEVEL 6002			28. BOND NUMBER WYB000493			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 - 6369	15.5	J-55 LT&C	8.3	Premium Lite High Strength	302	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 07/10/2014			EMAIL mcrozier@newfield.com				
API NUMBER ASSIGNED 43013530170000			APPROVAL			 Permit Manager				

NEWFIELD PRODUCTION COMPANY  
GMBU M-17-9-16  
AT SURFACE: NW/SE SECTION 17, T9S R16E  
DUCHESNE COUNTY, UTAH

TEN POINT DRILLING PROGRAM

1. **GEOLOGIC SURFACE FORMATION:**

Uinta formation of Upper Eocene Age

2. **ESTIMATED TOPS OF IMPORTANT GEOLOGIC MARKERS:**

Uinta	0' – 1,622'
Green River	1,622'
Wasatch	6,235'
<b>Proposed TD</b>	<b>6,369'(MD) 6,260' (TVD)</b>

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

Green River Formation (Oil)      1,622' – 6,235'

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 M-17-9-16**

Size	Interval		Weight	Grade	Coupling	Design Factors		
	Top	Bottom				Burst	Collapse	Tension
Surface casing 8-5/8"	0'	300'	24.0	J-55	STC	2,950 17.53	1,370 14.35	244,000 33.89
Prod casing 5-1/2"	0'	6,369'	15.5	J-55	LTC	4,810 2.37	4,040 1.99	217,000 2.20

## 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 M-17-9-16**

Job	Fill	Description	Sacks	OH Excess*	Weight (ppg)	Yield (ft <sup>3</sup> /sk)
			ft <sup>3</sup>			
Surface casing	300'	Class G w/ 2% CaCl	138	30%	15.8	1.17
			161			
Prod casing Lead	4,369'	Prem Lite II w/ 10% gel + 3% KCl	302 984	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 ±300 feet will be drilled with an air/mist system. The air rig is equipped with a 6 ½" blooie line that is straight run and securely anchored. The blooie line is used with a discharge less than 100 ft from the wellbore in order to minimize the well pad size. The blooie line is not equipped with an automatic igniter or continuous pilot light and the compressor is located less than 100 ft from the well bore due to the low possibility of combustion with the air dust mixture. The trailer mounted compressor (capacity of 2000 CFM) has a safety shut-off valve which is located 15 feet from the air rig. A truck with 70 bbls of water is on stand by to be used as kill fluid, if necessary. From about ±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 PBDT 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

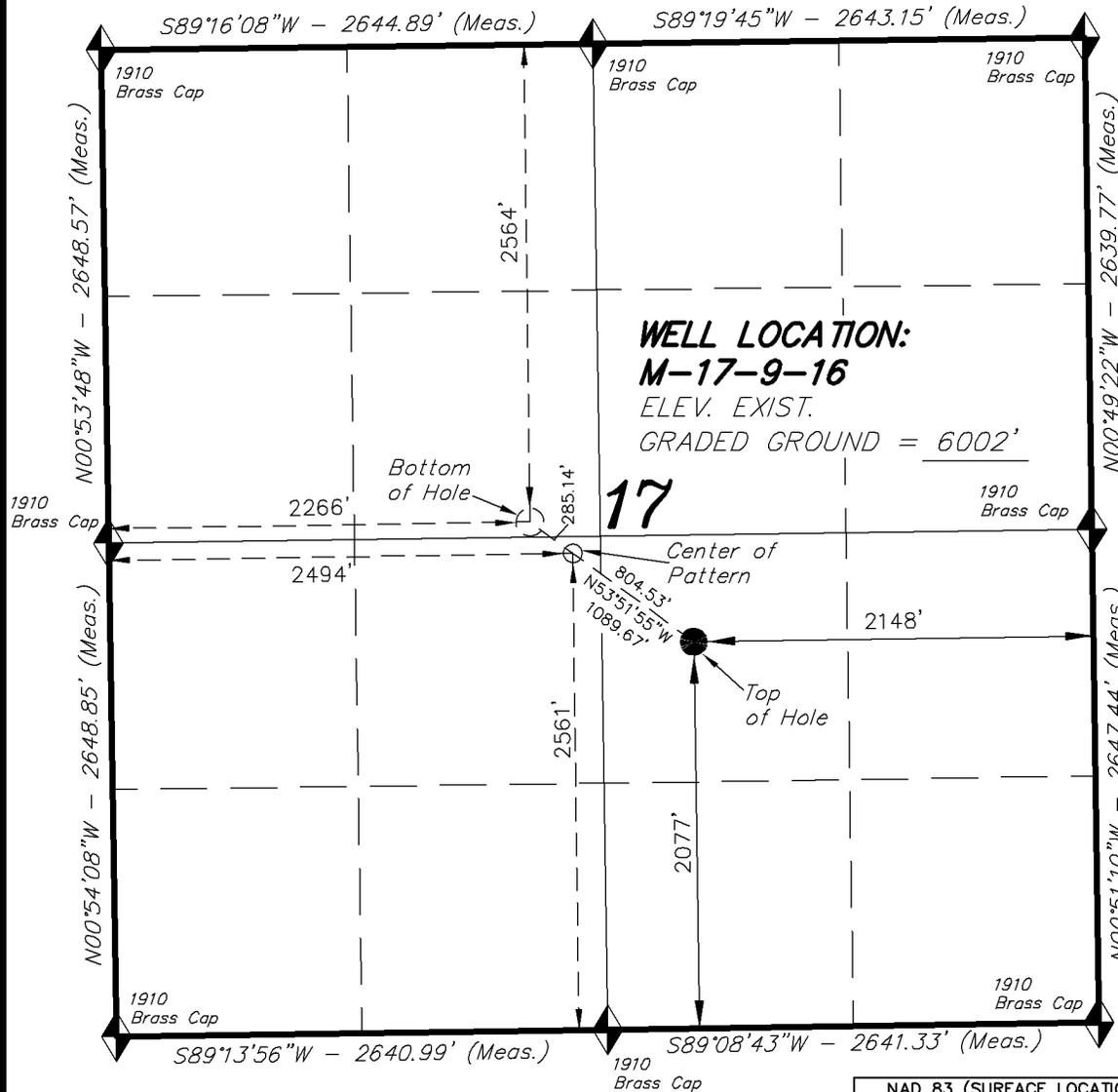
bottomhole pressure will approximately equal total depth in feet multiplied by a 0.433 psi/foot gradient.

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

It is anticipated that the drilling operations will commence the first quarter of 2015, and take approximately seven (7) days from spud to rig release.

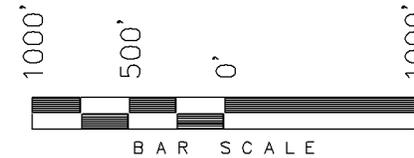
# T9S, R16E, S.L.B.&M.

## NEWFIELD EXPLORATION COMPANY



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

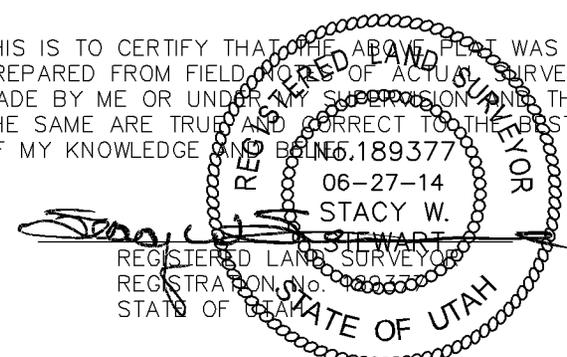
TARGET BOTTOM HOLE, M-17-9-16, LOCATED AS SHOWN IN THE SE 1/4 NW 1/4 OF SECTION 17, T9S, R16E, S.L.B.&M. DUCHESNE COUNTY, UTAH.



**NOTES:**

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

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

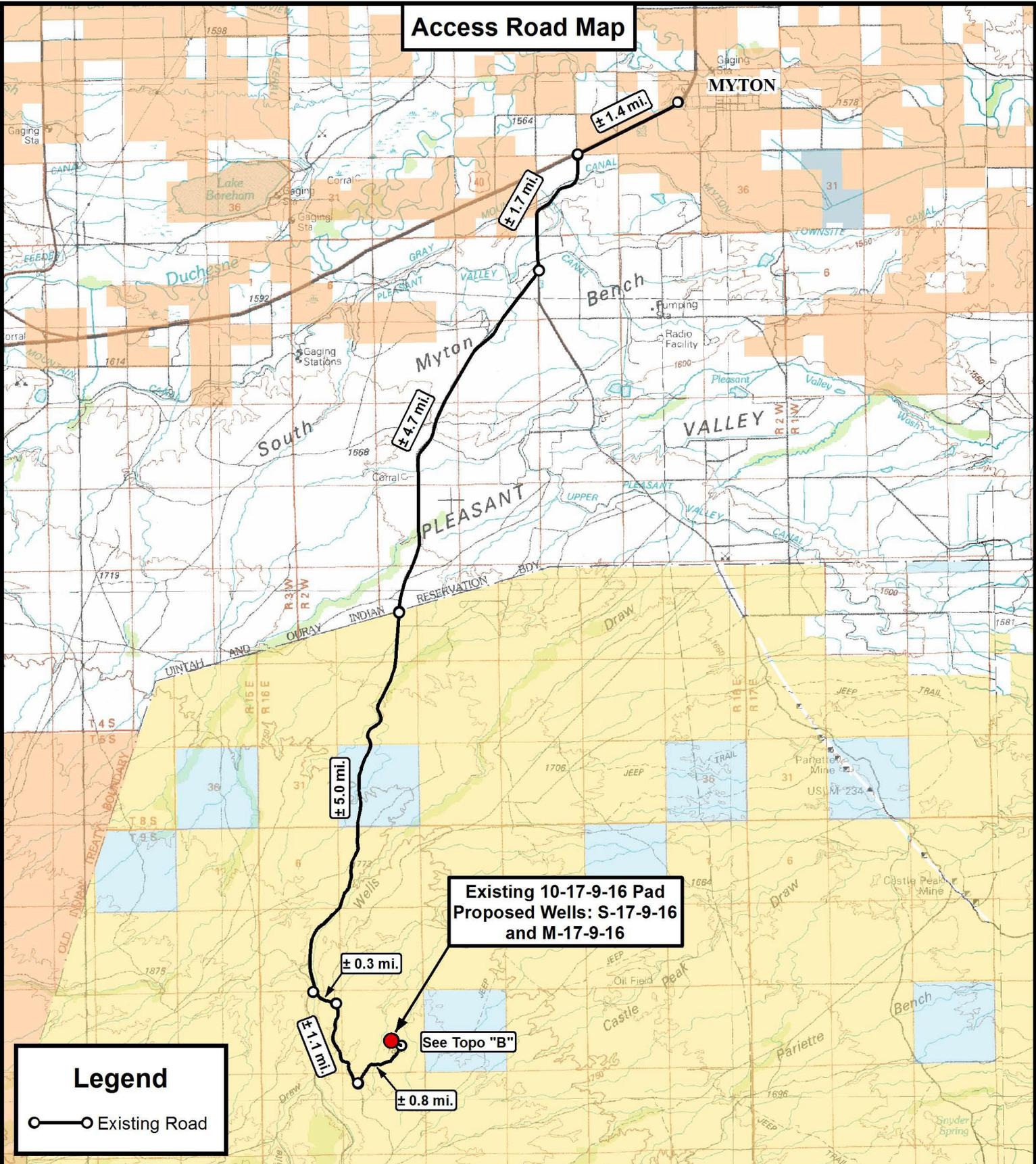
BASIS OF ELEV; Elevations are based on an N.G.S. OPUS Correction. LOCATION: LAT. 40°04'09.56" LONG. 110°00'43.28" (Tristate Aluminum Cap) Elev. 5281.57'

NAD 83 (SURFACE LOCATION)	
LATITUDE = 40°01'45.55"	
LONGITUDE = 110°08'29.15"	
NAD 27 (SURFACE LOCATION)	
LATITUDE = 40°01'45.68"	
LONGITUDE = 110°08'26.60"	
NAD 83 (CENTER OF PATTERN)	NAD 83 (BOTTOM HOLE LOCATION)
LATITUDE = 40°01'50.33"	LATITUDE = 40°01'52.02"
LONGITUDE = 110°08'37.40"	LONGITUDE = 110°08'40.33"
NAD 27 (CENTER OF PATTERN)	NAD 27 (BOTTOM HOLE LOCATION)
LATITUDE = 40°01'50.46"	LATITUDE = 40°01'52.16"
LONGITUDE = 110°08'34.86"	LONGITUDE = 110°08'37.78"

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

DATE SURVEYED: 01-07-14	SURVEYED BY: Q.M.	VERSION:
DATE DRAWN: 12-18-13	DRAWN BY: L.K.	V2
REVISED: 06-27-14 F.T.M.	SCALE: 1" = 1000'	

**Access Road Map**



**Existing 10-17-9-16 Pad  
Proposed Wells: S-17-9-16  
and M-17-9-16**

See Topo "B"

**Legend**  
 Existing Road

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

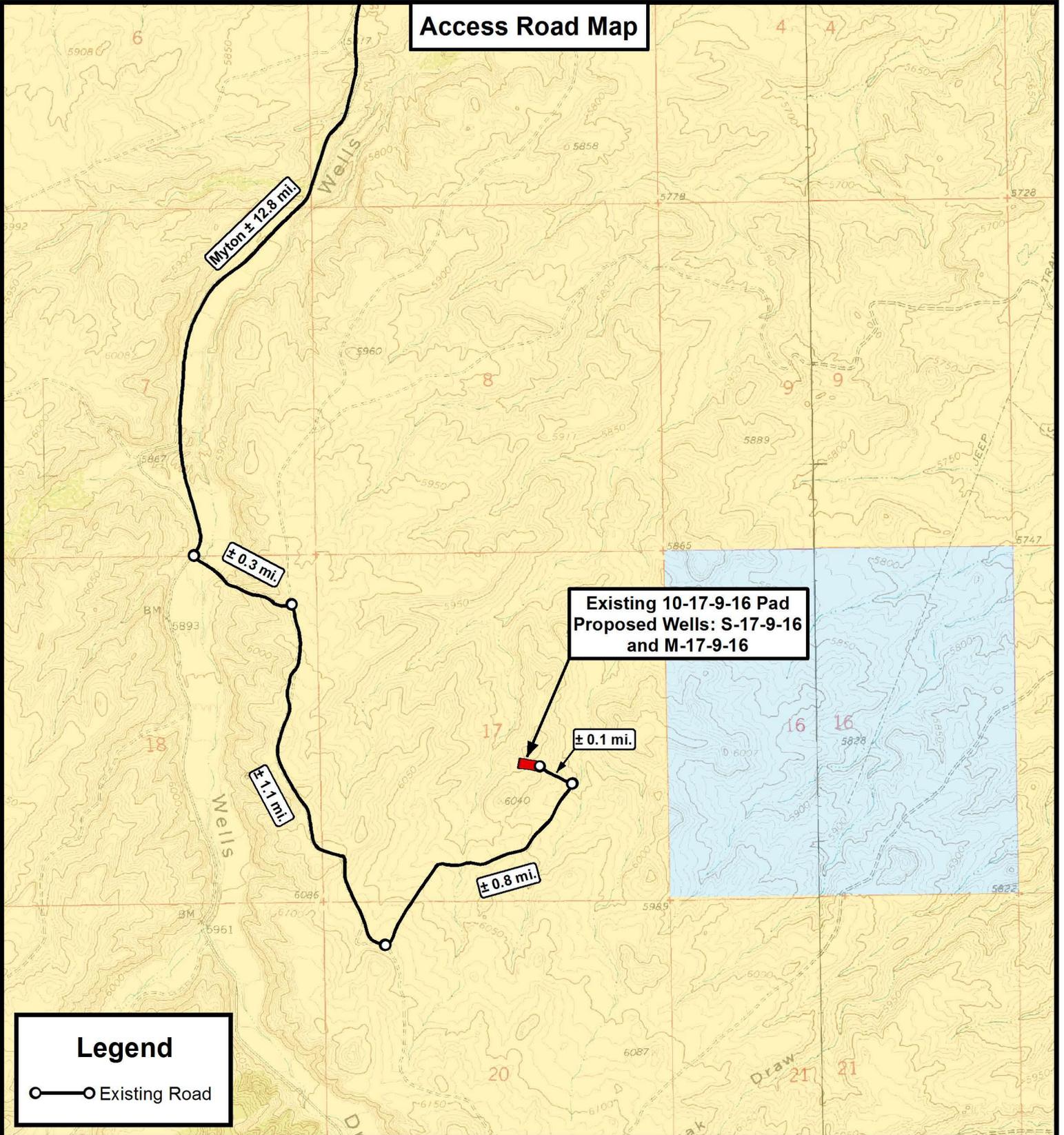
Existing 10-17-9-16 Pad  
 Proposed Wells: S-17-9-16 and M-17-9-16  
 Sec. 17, T9S, R16E, S.L.B.&M.  
 Duchesne County, UT.

DRAWN BY:	A.P.C.	REVISED:	06-27-14 A.P.C.	VERSION:
DATE:	12-30-2013			<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.

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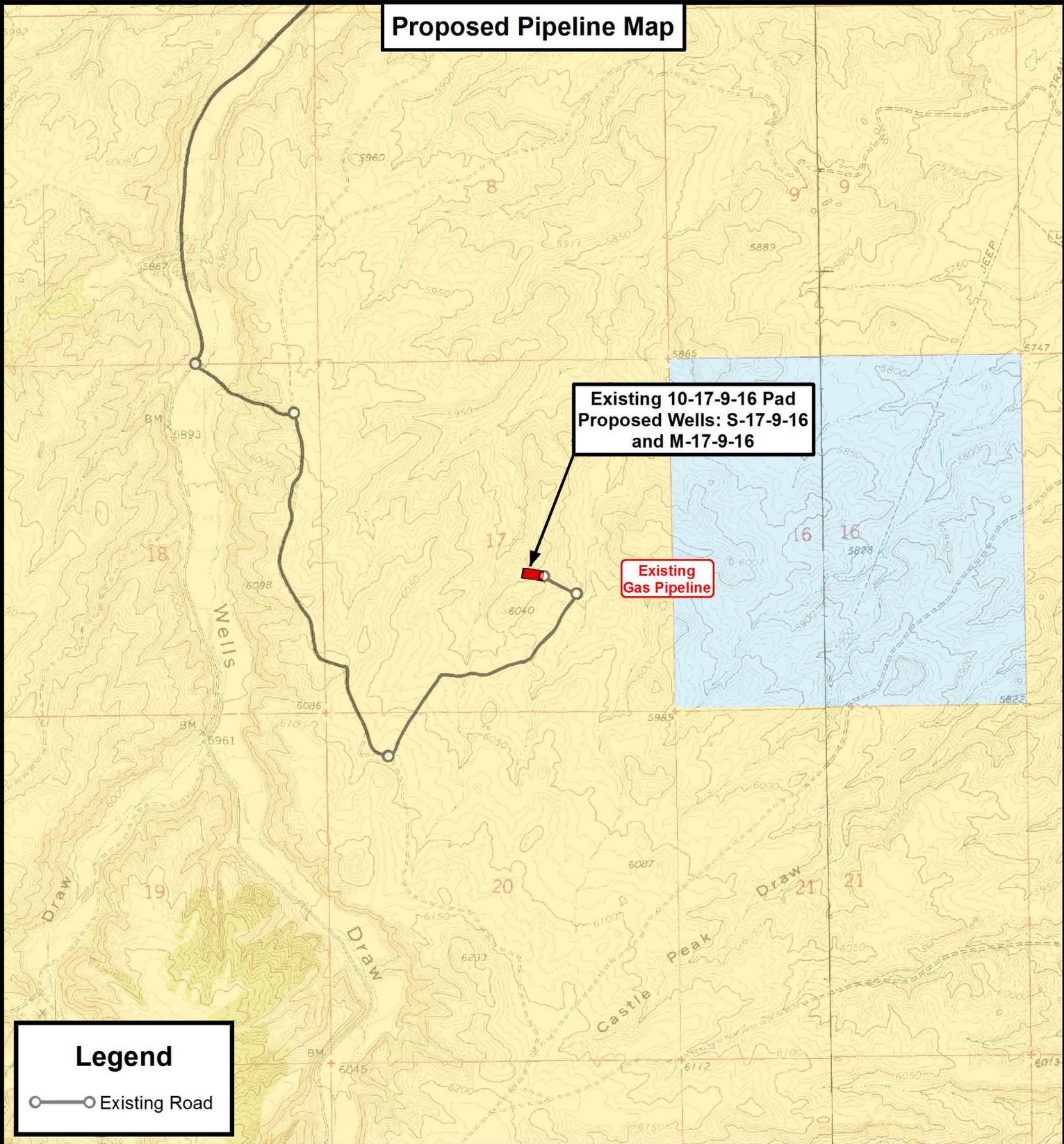
**NEWFIELD EXPLORATION COMPANY**  
Existing 10-17-9-16 Pad  
Proposed Wells: S-17-9-16 and M-17-9-16  
Sec. 17, T9S, R16E, S.L.B.&M.  
Duchesne County, UT.

DRAWN BY:	A.P.C.	REVISED:	06-27-14 A.P.C.	VERSION:
DATE:	12-30-2013			<b>V2</b>
SCALE:	1" = 2,000'			

**TOPOGRAPHIC MAP**

SHEET  
**B**

**Proposed Pipeline Map**



**Legend**

○—○ Existing Road

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**NEWFIELD EXPLORATION COMPANY**

Existing 10-17-9-16 Pad  
Proposed Wells: S-17-9-16 and M-17-9-16  
Sec. 17, T9S, R16E, S.L.B.&M.  
Duchesne County, UT.

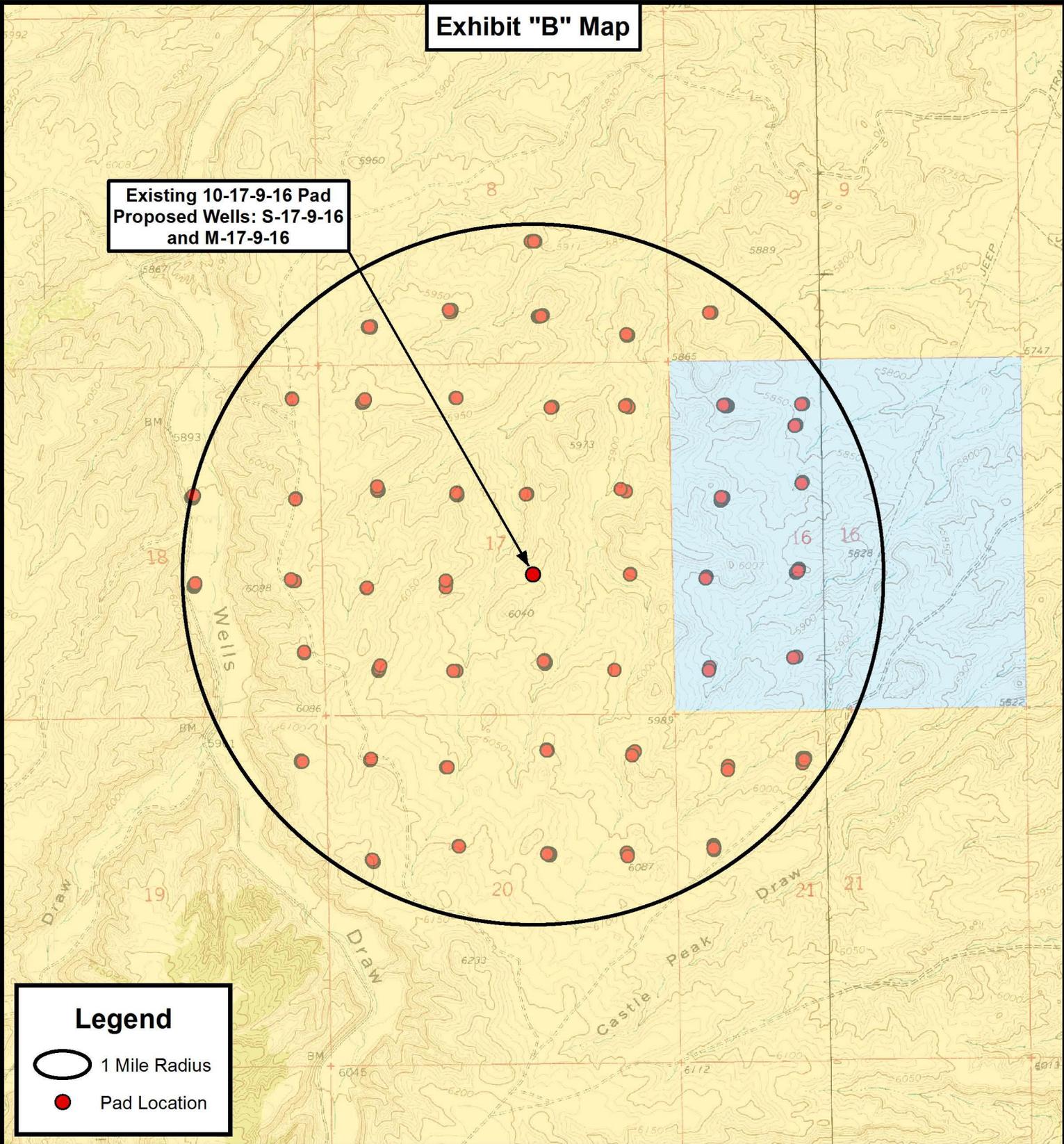
DRAWN BY:	A.P.C.	REVISED:	06-27-14 A.P.C.	VERSION:
DATE:	12-30-2013			
SCALE:	1" = 2,000'			<b>V2</b>

**TOPOGRAPHIC MAP**

SHEET  
**C**

**Exhibit "B" Map**

**Existing 10-17-9-16 Pad  
Proposed Wells: S-17-9-16  
and M-17-9-16**



**Legend**

-  1 Mile Radius
-  Pad Location

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



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**NEWFIELD EXPLORATION COMPANY**

Existing 10-17-9-16 Pad  
Proposed Wells: S-17-9-16 and M-17-9-16  
Sec. 17, T9S, R16E, S.L.B.&M.  
Duchesne County, UT.

DRAWN BY:	A.P.C.	REVISED:	06-27-14 A.P.C.	VERSION:
DATE:	12-30-2013			<b>V2</b>
SCALE:	1" = 2,000'			

**TOPOGRAPHIC MAP**

SHEET  
**D**

## Coordinate Report

Well Number	Feature Type	Latitude (NAD 83) (DMS)	Longitude (NAD 83) (DMS)
10-17-9-16	Surface Hole	40° 01' 45.78" N	110° 08' 28.69" W
S-17-9-16	Surface Hole	40° 01' 45.66" N	110° 08' 28.92" W
M-17-9-16	Surface Hole	40° 01' 45.55" N	110° 08' 29.15" W
S-17-9-16	Center of Pattern	40° 01' 39.64" N	110° 08' 19.70" W
M-17-9-16	Center of Pattern	40° 01' 50.33" N	110° 08' 37.40" W
S-17-9-16	Bottom of Hole	40° 01' 37.48" N	110° 08' 16.39" W
M-17-9-16	Bottom of Hole	40° 01' 52.02" N	110° 08' 40.33" W
Well Number	Feature Type	Latitude (NAD 83) (DD)	Longitude (NAD 83) (DD)
10-17-9-16	Surface Hole	40.029383	110.141304
S-17-9-16	Surface Hole	40.029351	110.141367
M-17-9-16	Surface Hole	40.029318	110.141430
S-17-9-16	Center of Pattern	40.027679	110.138807
M-17-9-16	Center of Pattern	40.030647	110.143723
S-17-9-16	Bottom of Hole	40.027078	110.137887
M-17-9-16	Bottom of Hole	40.031118	110.144536
Well Number	Feature Type	Northing (NAD 83) (UTM Meters)	Longitude (NAD 83) (UTM Meters)
10-17-9-16	Surface Hole	4431371.615	573267.076
S-17-9-16	Surface Hole	4431367.952	573261.752
M-17-9-16	Surface Hole	4431364.289	573256.429
S-17-9-16	Center of Pattern	4431184.485	573481.980
M-17-9-16	Center of Pattern	4431509.903	573059.302
S-17-9-16	Bottom of Hole	4431118.588	573561.080
M-17-9-16	Bottom of Hole	4431561.512	572989.437
Well Number	Feature Type	Latitude (NAD 27) (DMS)	Longitude (NAD 27) (DMS)
10-17-9-16	Surface Hole	40° 01' 45.91" N	110° 08' 26.15" W
S-17-9-16	Surface Hole	40° 01' 45.80" N	110° 08' 26.38" W
M-17-9-16	Surface Hole	40° 01' 45.68" N	110° 08' 26.60" W
S-17-9-16	Center of Pattern	40° 01' 39.78" N	110° 08' 17.16" W
M-17-9-16	Center of Pattern	40° 01' 50.46" N	110° 08' 34.86" W
S-17-9-16	Bottom of Hole	40° 01' 37.62" N	110° 08' 13.85" W
M-17-9-16	Bottom of Hole	40° 01' 52.16" N	110° 08' 37.78" W



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### NEWFIELD EXPLORATION COMPANY

Existing 10-17-9-16 Pad  
Proposed Wells: S-17-9-16 and M-17-9-16  
Sec. 17, T9S, R16E, S.L.B.&M.  
Duchesne County, UT.

DRAWN BY:	A.P.C.	REVISED:	06-27-14 A.P.C.
DATE:	12-30-2013		
VERSION:	V2		

## COORDINATE REPORT

SHEET

# 1

RECEIVED: July 10, 2014





# **NEWFIELD EXPLORATION**

**USGS Myton SW (UT)**

**SECTION 17 T9, R16**

**M-17-9-16**

**Wellbore #1**

**Plan: Design #1**

## **Standard Planning Report**

**24 June, 2014**





**Payzone Directional**  
Planning Report



<b>Database:</b>	EDM 5000.1 Single User Db	<b>Local Co-ordinate Reference:</b>	Well M-17-9-16
<b>Company:</b>	NEWFIELD EXPLORATION	<b>TVD Reference:</b>	M-17-9-16 @ 6012.0usft
<b>Project:</b>	USGS Myton SW (UT)	<b>MD Reference:</b>	M-17-9-16 @ 6012.0usft
<b>Site:</b>	SECTION 17 T9, R16	<b>North Reference:</b>	True
<b>Well:</b>	M-17-9-16	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	Wellbore #1		
<b>Design:</b>	Design #1		

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

<b>Site</b>	SECTION 17 T9, R16				
<b>Site Position:</b>	<b>Northing:</b>	7,185,000.00 usft	<b>Latitude:</b>	40° 2' 12.729 N	
<b>From:</b> Map	<b>Easting:</b>	2,018,000.00 usft	<b>Longitude:</b>	110° 9' 4.925 W	
<b>Position Uncertainty:</b>	0.0 usft	<b>Slot Radius:</b>	13-3/16 "	<b>Grid Convergence:</b>	0.86 °

<b>Well</b>	M-17-9-16, SHL: 40°01'45.55" -110°08'29.15"					
<b>Well Position</b>	<b>+N/-S</b>	-2,749.9 usft	<b>Northing:</b>	7,182,292.40 usft	<b>Latitude:</b>	40° 1' 45.550 N
	<b>+E/-W</b>	2,782.7 usft	<b>Easting:</b>	2,020,823.79 usft	<b>Longitude:</b>	110° 8' 29.150 W
<b>Position Uncertainty</b>		0.0 usft	<b>Wellhead Elevation:</b>	6,012.0 usft	<b>Ground Level:</b>	6,002.0 usft

<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	12/10/2013	11.02	65.70	52,001

<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) (usft)</b>	<b>+N/-S (usft)</b>	<b>+E/-W (usft)</b>	<b>Direction (°)</b>
	0.0	0.0	0.0	306.13

<b>Plan Sections</b>										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	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	
1,379.0	11.68	306.13	1,373.6	46.7	-63.9	1.50	1.50	-6.92	306.13	
4,960.6	11.68	306.13	4,881.0	474.4	-649.8	0.00	0.00	0.00	0.00	M-17-9-16 TGT
6,368.8	11.68	306.13	6,260.0	642.5	-880.1	0.00	0.00	0.00	0.00	



**Payzone Directional**  
Planning Report



<b>Database:</b>	EDM 5000.1 Single User Db	<b>Local Co-ordinate Reference:</b>	Well M-17-9-16
<b>Company:</b>	NEWFIELD EXPLORATION	<b>TVD Reference:</b>	M-17-9-16 @ 6012.0usft
<b>Project:</b>	USGS Myton SW (UT)	<b>MD Reference:</b>	M-17-9-16 @ 6012.0usft
<b>Site:</b>	SECTION 17 T9, R16	<b>North Reference:</b>	True
<b>Well:</b>	M-17-9-16	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	Wellbore #1		
<b>Design:</b>	Design #1		

**Planned Survey**

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
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	306.13	700.0	0.8	-1.1	1.3	1.50	1.50	0.00
800.0	3.00	306.13	799.9	3.1	-4.2	5.2	1.50	1.50	0.00
900.0	4.50	306.13	899.7	6.9	-9.5	11.8	1.50	1.50	0.00
1,000.0	6.00	306.13	999.3	12.3	-16.9	20.9	1.50	1.50	0.00
1,100.0	7.50	306.13	1,098.6	19.3	-26.4	32.7	1.50	1.50	0.00
1,200.0	9.00	306.13	1,197.5	27.7	-38.0	47.0	1.50	1.50	0.00
1,300.0	10.50	306.13	1,296.1	37.7	-51.7	64.0	1.50	1.50	0.00
1,379.0	11.68	306.13	1,373.6	46.7	-63.9	79.2	1.50	1.50	0.00
1,400.0	11.68	306.13	1,394.2	49.2	-67.4	83.4	0.00	0.00	0.00
1,500.0	11.68	306.13	1,492.1	61.1	-83.7	103.7	0.00	0.00	0.00
1,600.0	11.68	306.13	1,590.0	73.1	-100.1	123.9	0.00	0.00	0.00
1,700.0	11.68	306.13	1,688.0	85.0	-116.4	144.2	0.00	0.00	0.00
1,800.0	11.68	306.13	1,785.9	96.9	-132.8	164.4	0.00	0.00	0.00
1,900.0	11.68	306.13	1,883.8	108.9	-149.2	184.7	0.00	0.00	0.00
2,000.0	11.68	306.13	1,981.7	120.8	-165.5	204.9	0.00	0.00	0.00
2,100.0	11.68	306.13	2,079.7	132.8	-181.9	225.2	0.00	0.00	0.00
2,200.0	11.68	306.13	2,177.6	144.7	-198.2	245.4	0.00	0.00	0.00
2,300.0	11.68	306.13	2,275.5	156.7	-214.6	265.7	0.00	0.00	0.00
2,400.0	11.68	306.13	2,373.5	168.6	-230.9	285.9	0.00	0.00	0.00
2,500.0	11.68	306.13	2,471.4	180.5	-247.3	306.2	0.00	0.00	0.00
2,600.0	11.68	306.13	2,569.3	192.5	-263.7	326.4	0.00	0.00	0.00
2,700.0	11.68	306.13	2,667.2	204.4	-280.0	346.7	0.00	0.00	0.00
2,800.0	11.68	306.13	2,765.2	216.4	-296.4	366.9	0.00	0.00	0.00
2,900.0	11.68	306.13	2,863.1	228.3	-312.7	387.2	0.00	0.00	0.00
3,000.0	11.68	306.13	2,961.0	240.2	-329.1	407.5	0.00	0.00	0.00
3,100.0	11.68	306.13	3,058.9	252.2	-345.5	427.7	0.00	0.00	0.00
3,200.0	11.68	306.13	3,156.9	264.1	-361.8	448.0	0.00	0.00	0.00
3,300.0	11.68	306.13	3,254.8	276.1	-378.2	468.2	0.00	0.00	0.00
3,400.0	11.68	306.13	3,352.7	288.0	-394.5	488.5	0.00	0.00	0.00
3,500.0	11.68	306.13	3,450.7	300.0	-410.9	508.7	0.00	0.00	0.00
3,600.0	11.68	306.13	3,548.6	311.9	-427.2	529.0	0.00	0.00	0.00
3,700.0	11.68	306.13	3,646.5	323.8	-443.6	549.2	0.00	0.00	0.00
3,800.0	11.68	306.13	3,744.4	335.8	-460.0	569.5	0.00	0.00	0.00
3,900.0	11.68	306.13	3,842.4	347.7	-476.3	589.7	0.00	0.00	0.00
4,000.0	11.68	306.13	3,940.3	359.7	-492.7	610.0	0.00	0.00	0.00
4,100.0	11.68	306.13	4,038.2	371.6	-509.0	630.2	0.00	0.00	0.00
4,200.0	11.68	306.13	4,136.2	383.5	-525.4	650.5	0.00	0.00	0.00
4,300.0	11.68	306.13	4,234.1	395.5	-541.7	670.7	0.00	0.00	0.00
4,400.0	11.68	306.13	4,332.0	407.4	-558.1	691.0	0.00	0.00	0.00
4,500.0	11.68	306.13	4,429.9	419.4	-574.5	711.2	0.00	0.00	0.00
4,600.0	11.68	306.13	4,527.9	431.3	-590.8	731.5	0.00	0.00	0.00
4,700.0	11.68	306.13	4,625.8	443.2	-607.2	751.7	0.00	0.00	0.00
4,800.0	11.68	306.13	4,723.7	455.2	-623.5	772.0	0.00	0.00	0.00
4,900.0	11.68	306.13	4,821.6	467.1	-639.9	792.3	0.00	0.00	0.00
4,960.6	11.68	306.13	4,881.0	474.4	-649.8	804.5	0.00	0.00	0.00
5,000.0	11.68	306.13	4,919.6	479.1	-656.2	812.5	0.00	0.00	0.00
5,100.0	11.68	306.13	5,017.5	491.0	-672.6	832.8	0.00	0.00	0.00



**Payzone Directional**  
Planning Report



<b>Database:</b>	EDM 5000.1 Single User Db	<b>Local Co-ordinate Reference:</b>	Well M-17-9-16
<b>Company:</b>	NEWFIELD EXPLORATION	<b>TVD Reference:</b>	M-17-9-16 @ 6012.0usft
<b>Project:</b>	USGS Myton SW (UT)	<b>MD Reference:</b>	M-17-9-16 @ 6012.0usft
<b>Site:</b>	SECTION 17 T9, R16	<b>North Reference:</b>	True
<b>Well:</b>	M-17-9-16	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	Wellbore #1		
<b>Design:</b>	Design #1		

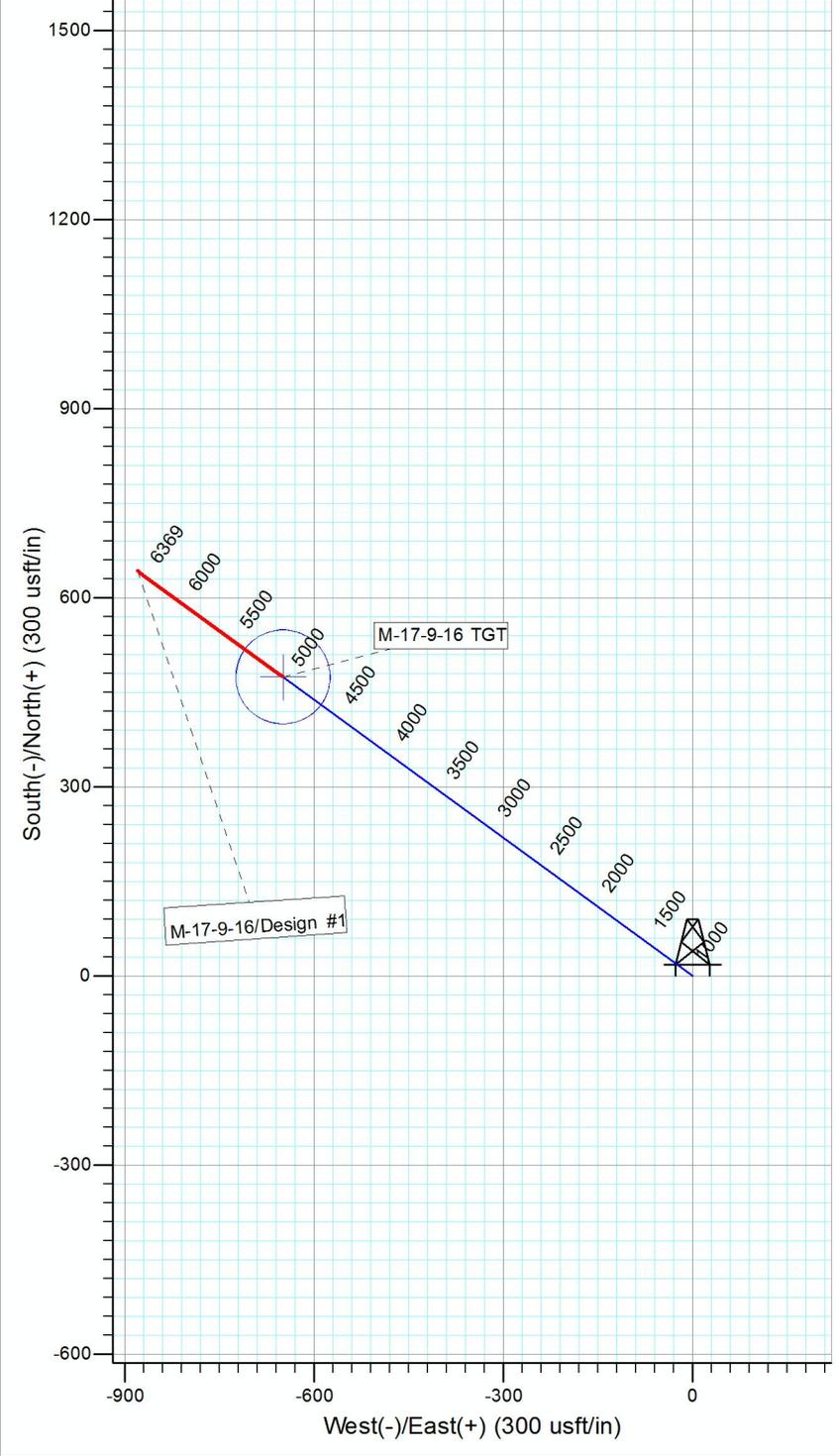
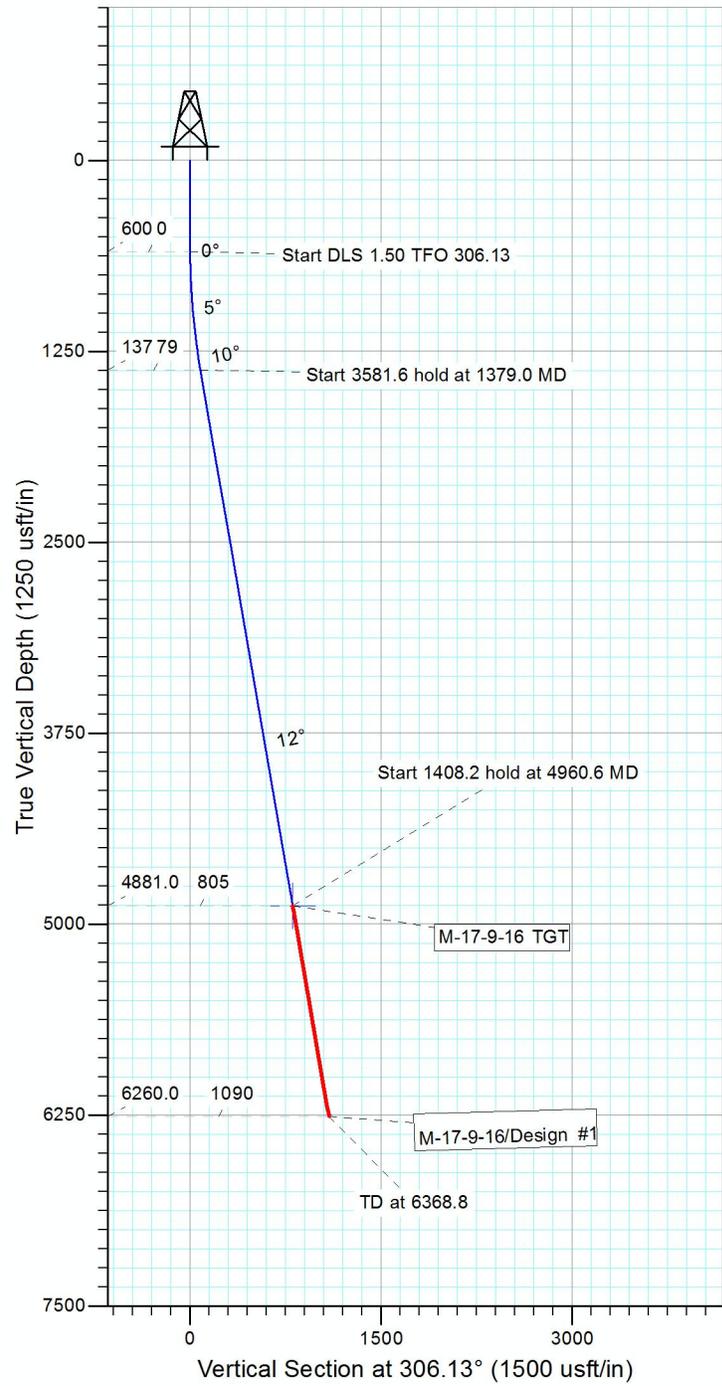
Planned Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	
5,200.0	11.68	306.13	5,115.4	503.0	-689.0	853.0	0.00	0.00	0.00	
5,300.0	11.68	306.13	5,213.4	514.9	-705.3	873.3	0.00	0.00	0.00	
5,400.0	11.68	306.13	5,311.3	526.8	-721.7	893.5	0.00	0.00	0.00	
5,500.0	11.68	306.13	5,409.2	538.8	-738.0	913.8	0.00	0.00	0.00	
5,600.0	11.68	306.13	5,507.1	550.7	-754.4	934.0	0.00	0.00	0.00	
5,700.0	11.68	306.13	5,605.1	562.7	-770.8	954.3	0.00	0.00	0.00	
5,800.0	11.68	306.13	5,703.0	574.6	-787.1	974.5	0.00	0.00	0.00	
5,900.0	11.68	306.13	5,800.9	586.5	-803.5	994.8	0.00	0.00	0.00	
6,000.0	11.68	306.13	5,898.8	598.5	-819.8	1,015.0	0.00	0.00	0.00	
6,100.0	11.68	306.13	5,996.8	610.4	-836.2	1,035.3	0.00	0.00	0.00	
6,200.0	11.68	306.13	6,094.7	622.4	-852.5	1,055.5	0.00	0.00	0.00	
6,300.0	11.68	306.13	6,192.6	634.3	-868.9	1,075.8	0.00	0.00	0.00	
6,368.8	11.68	306.13	6,260.0	642.5	-880.1	1,089.7	0.00	0.00	0.00	

Design Targets										
Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude	
M-17-9-16 TGT - hit/miss target - Shape	0.00	0.00	4,881.0	474.4	-649.8	7,182,756.84	2,020,166.86	40° 1' 50.238 N	110° 8' 37.504 W	
- plan hits target center - Circle (radius 75.0)										



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

**T M**  
 Azimuths to True North  
 Magnetic North: 11.02°  
 Magnetic Field  
 Strength: 52001.3snT  
 Dip Angle: 65.70°  
 Date: 12/10/2013  
 Model: IGRF2010



WELLBORE TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Shape
M-17-9-16 TGT	4881.0	474.4	-649.8	Circle (Radius: 75.0)

SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSect	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	1379.0	11.68	306.13	1373.6	46.7	-63.9	1.50	306.13	79.2	
4	4960.6	11.68	306.13	4881.0	474.4	-649.8	0.00	0.00	804.5	M-17-9-16 TGT
5	6368.8	11.68	306.13	6260.0	642.5	-880.1	0.00	0.00	1089.7	



**NEWFIELD PRODUCTION COMPANY  
GMBU M-17-9-16  
AT SURFACE: NW/SE SECTION 17, T9S R16E  
DUCHESNE COUNTY, UTAH**

**ONSHORE ORDER NO. 1**

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

**1. EXISTING ROADS**

See attached Topographic Map "A"

To reach Newfield Production Company well location site GMBU M-17-9-16 located in the NW 1/4 SE 1/4 Section 17, T9S, R16E, Duchesne County, Utah:

Proceed southwesterly out of Myton, Utah along Highway 40 – 1.4 miles  $\pm$  to the junction of this highway and UT State Hwy 53; proceed in a southwesterly direction – 11.4 miles  $\pm$  to it's junction with an existing road to the southeast; proceed in a southeasterly direction – 0.3 miles  $\pm$  to it's junction with an existing road to the south; proceed in a southerly direction – 1.1 miles  $\pm$  to it's junction with an existing road to the northeast; proceed in a northeasterly directional – 0.8 miles  $\pm$  to it's junction with and existing road to the west; proceed in a westerly directional – 0.1 miles  $\pm$  to it's junction with the beginning of the access road to the existing 10-17-9-16 well location.

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

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

**2. PLANNED ACCESS ROAD**

There is no proposed access road for this location. The proposed well will be drilled directionally off of the existing 10-17-9-16 well pad. See attached **Topographic Map "B"**.

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

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

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

**3. LOCATION OF EXISTING WELLS**

Refer to Exhibit "B".

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

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

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

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

Tank batteries will be built to State specifications.

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

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

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

Johnson Water District  
Water Right : 43-7478

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**

- a) All pits will be fenced or have panels installed consistent with the following minimum standards:
1. The wire shall be no more than two (2) inches above the ground. If barbed wire is utilized it will be installed three (3) inches above the net wire. Total height of the fence shall be at least forty-two (42) inches.
  2. Corner posts shall be centered and/or braced in such a manner to keep tight and upright at all times
  3. 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.

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

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

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

a) Producing Location

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

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

b) Dry Hole Abandoned Location

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

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

12. **OTHER ADDITIONAL INFORMATION**

The Archaeological Resource Survey and Paleontological Resource Survey for this area are attached. State of Utah Antiquities Project Permit # U-14-MQ-0169b, 4/1/14, prepared by Montgomery Archaeological Consultants. Paleontological Resource Survey prepared by, SWCA. Report # UT14-14273-33, April 2014. See attached report cover pages, Exhibit "D".

**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 M-17-9-16, Newfield will not use, produce, store, transport or dispose 10,000# annually of any of the hazardous chemicals contained in the Environmental Protection Agency's consolidated list of chemicals subject to reporting under Title III Superfund Amendments and Reauthorization Act (SARA) of 1986. Newfield also guarantees that during the drilling and completion of the GMBU M-17-9-16, Newfield will use, produce, store, transport or dispose less than the threshold planning quantity (T.P.Q.) of any extremely hazardous substances as defined in 40 CFR 355.

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

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

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

Name: Corie Miller  
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 #M-17-9-16, Section 17, Township 9S, Range 16E: Lease UTU-52018, Duchesne County, Utah: and is responsible under the terms and conditions of the lease for the operations conducted upon the leased lands. Bond coverage is provided by, Federal Bond #WYB000493.

I hereby certify that the proposed drill site and access route have been inspected, and I am familiar with the conditions which currently exist; that the statements made in this plan are true and correct to the best of my knowledge; and that the work associated with the operations proposed here will be performed by Newfield Production Company and its contractors and subcontractors in conformity with this plan and the terms and conditions under which it is approved. This statement is subject to the provisions of the 18 U.S.C. 1001 for the filing of a false statement.

**mcrozier@newfield.com**  
Digitally signed by mcrozier@newfield.com  
DN: cn=mcrozier@newfield.com  
Date: 2014.07.10 14:04:43 -06'00'

7/10/14  
Date

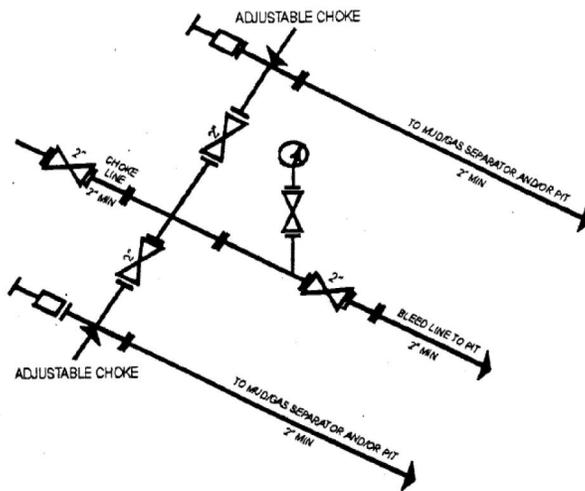
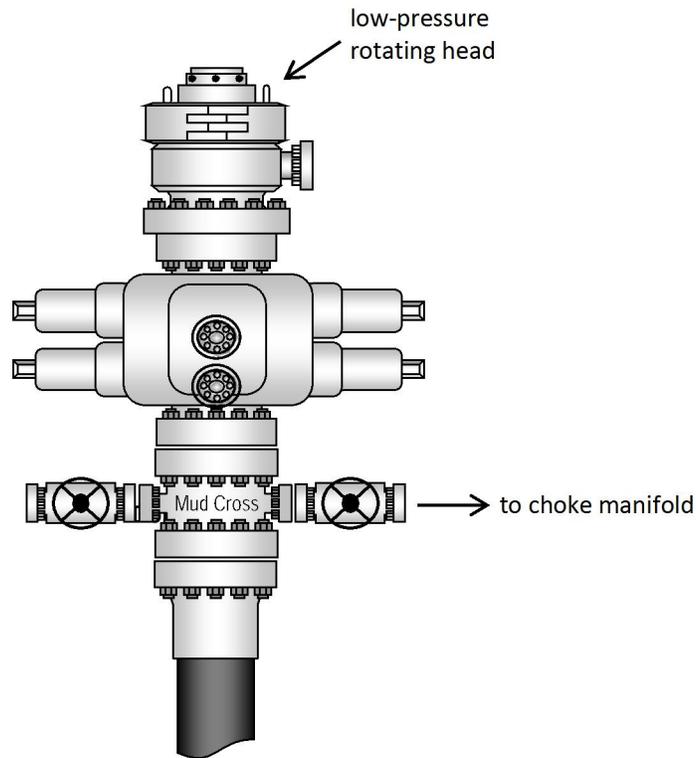
Mandie Crozier  
Regulatory Analyst

API Well Number: 43013530170000

Newfield Production Company

RECEIVED: July 10, 2014

### Typical 2M BOP stack configuration



2M CHOKE MANIFOLD EQUIPMENT - CONFIGURATION OF CHOKES MAY VARY

# NEWFIELD EXPLORATION COMPANY

## WELL PAD INTERFERENCE PLAT

### EXISTING 10-17-9-16 PAD

### PROPOSED WELLS: S-17-9-16 AND M-17-9-16

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

#### TOP HOLE FOOTAGES

S-17-9-16  
2089' FSL & 2130' FEL  
M-17-9-16  
2077' FSL & 2148' FEL

#### CENTER OF PATTERN FOOTAGES

S-17-9-16  
1480' FSL & 1413' FEL  
M-17-9-16  
2561' FSL & 2494' FWL

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

WELL	LATITUDE	LONGITUDE
10-17-9-16	40° 01' 45.78"	110° 08' 28.69"
S-17-9-16	40° 01' 45.66"	110° 08' 28.92"
M-17-9-16	40° 01' 45.55"	110° 08' 29.15"

#### LATITUDE & LONGITUDE Center of Pattern (NAD 83)

WELL	LATITUDE	LONGITUDE
S-17-9-16	40° 01' 39.64"	110° 08' 19.70"
M-17-9-16	40° 01' 50.33"	110° 08' 37.40"

#### LATITUDE & LONGITUDE Bottom Hole Position (NAD 83)

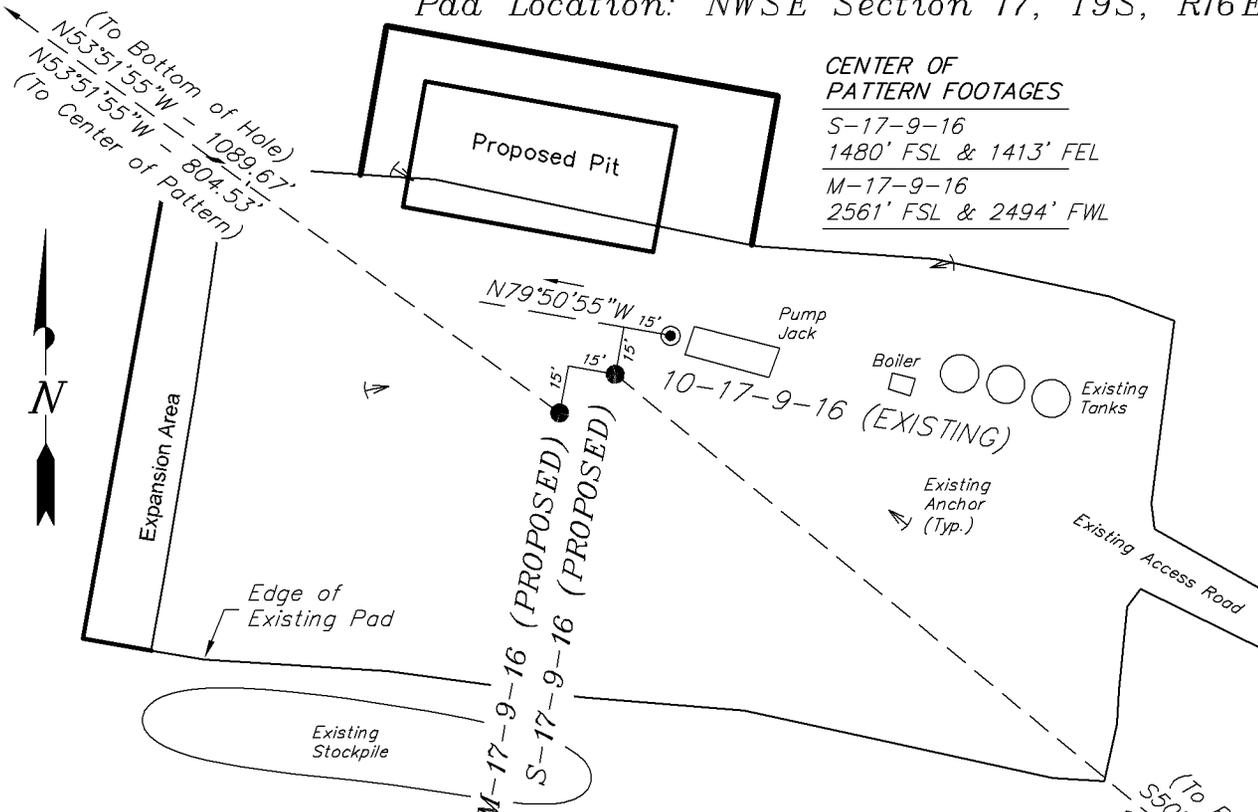
WELL	LATITUDE	LONGITUDE
S-17-9-16	40° 01' 37.48"	110° 08' 16.39"
M-17-9-16	40° 01' 52.02"	110° 08' 40.33"

#### BOTTOM HOLE FOOTAGES

S-17-9-16  
1261' FSL & 1155' FEL  
M-17-9-16  
2564' FNL & 2266' FWL

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

WELL	NORTH	EAST
S-17-9-16	-598'	726'
M-17-9-16	474'	-650'



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

#### RELATIVE COORDINATES From Top Hole to Bottom Hole

WELL	NORTH	EAST
S-17-9-16	-813'	987'
M-17-9-16	643'	-880'

SURVEYED BY: Q.M.	DATE SURVEYED: 12-12-13	VERSION:
DRAWN BY: L.K.	DATE DRAWN: 12-18-13	V2
SCALE: 1" = 60'	REVISED: F.T.M. 06-27-14	

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

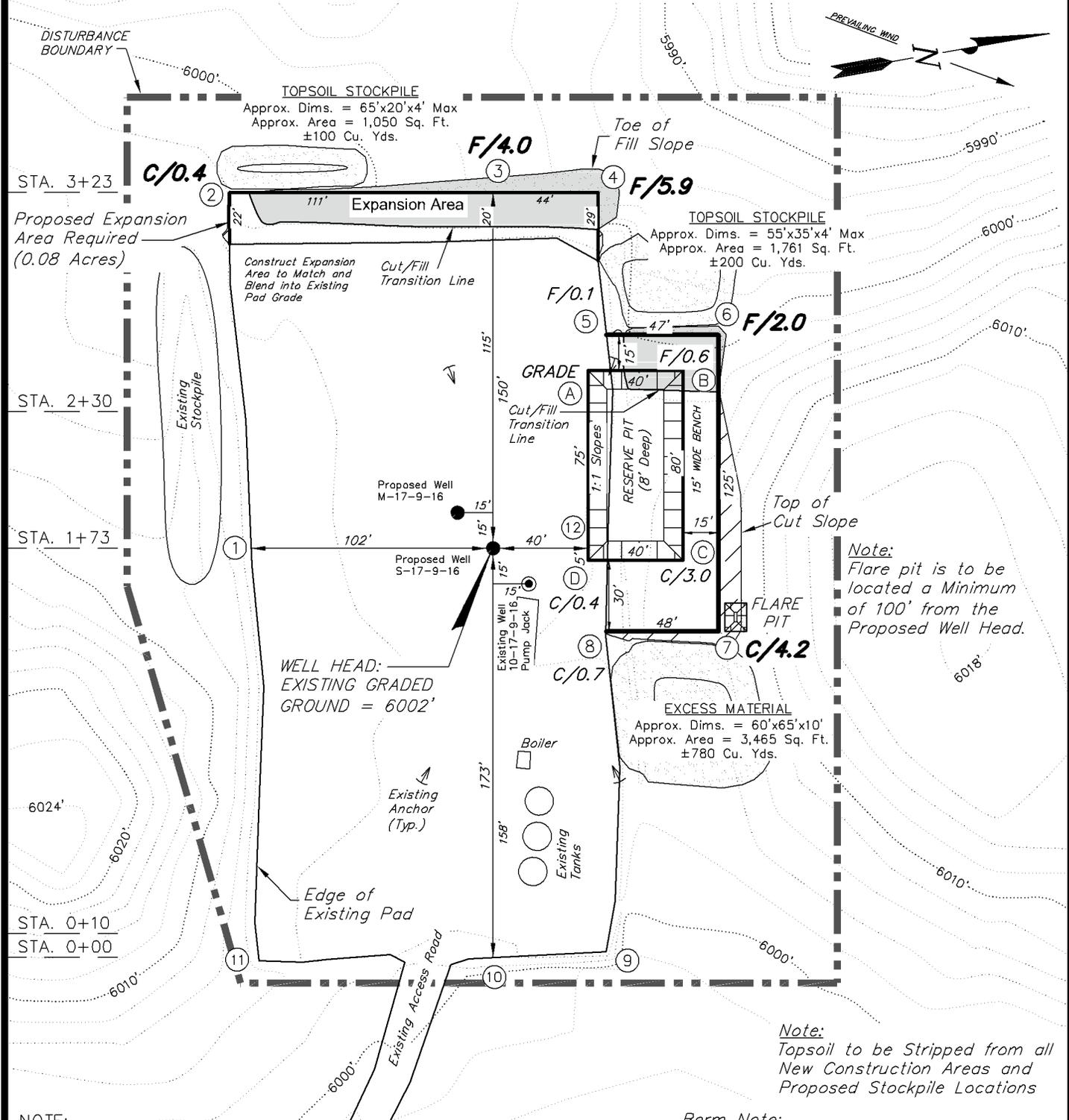
# NEWFIELD EXPLORATION COMPANY

## LOCATION LAYOUT

### EXISTING 10-17-9-16 PAD

### PROPOSED WELLS: S-17-9-16 AND M-17-9-16

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



**NOTE:**  
The topsoil & excess material areas are calculated as being mounds containing 1,080 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: Q.M.	DATE SURVEYED: 12-12-13	VERSION:
DRAWN BY: L.K.	DATE DRAWN: 12-18-13	V2
SCALE: 1" = 60'	REVISED: F.T.M. 06-27-14	

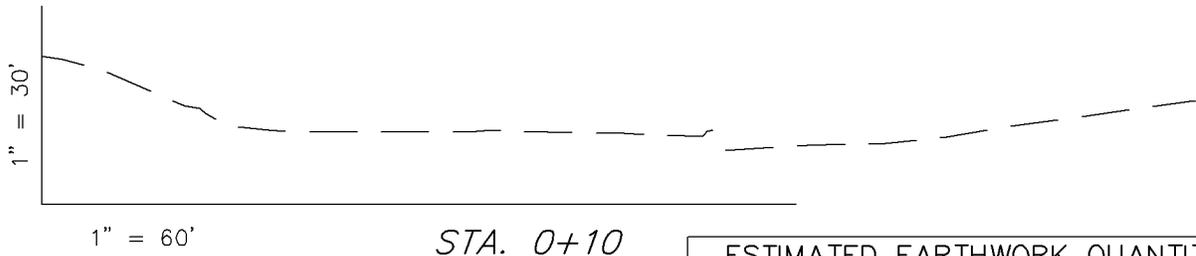
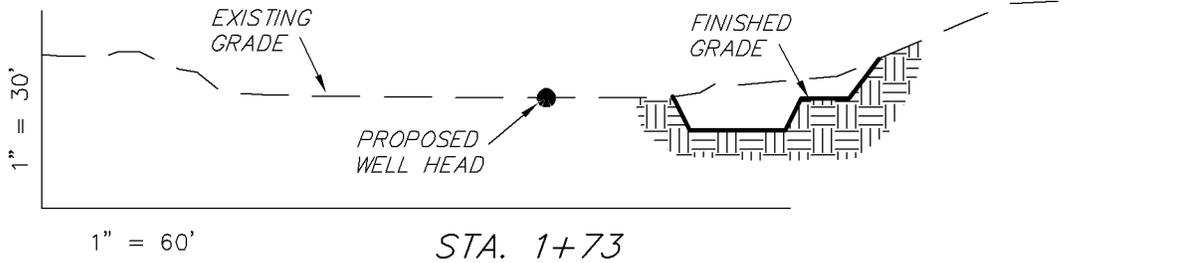
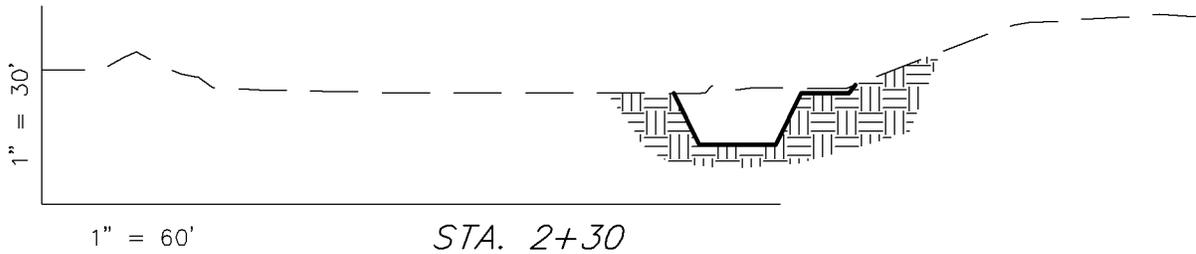
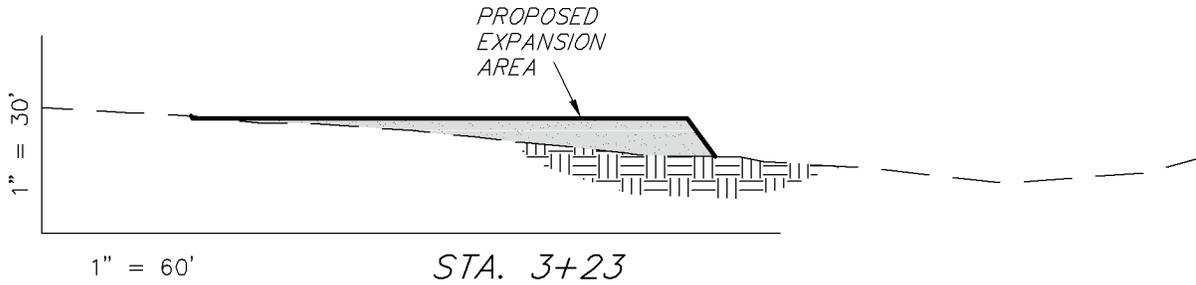
**Tri State Land Surveying, Inc.** (435) 781-2501  
180 NORTH VERNAL AVE. VERNAL, UTAH 84078

# NEWFIELD EXPLORATION COMPANY

## CROSS SECTIONS EXISTING 10-17-9-16 PAD

**PROPOSED WELLS: S-17-9-16 AND M-17-9-16**

*Pad Location: NWSE Section 17, T9S, R16E, 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	290	270	Topsoil is not included in Pad Cut	20
PIT	690	0		690
<b>TOTALS</b>	<b>980</b>	<b>270</b>	<b>270</b>	<b>710</b>

SURVEYED BY: Q.M.	DATE SURVEYED: 12-12-13	VERSION:
DRAWN BY: L.K.	DATE DRAWN: 12-18-13	V2
SCALE: 1" = 60'	REVISED: F.T.M. 06-27-14	

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

(435) 781-2501

RECEIVED: July 10, 2014



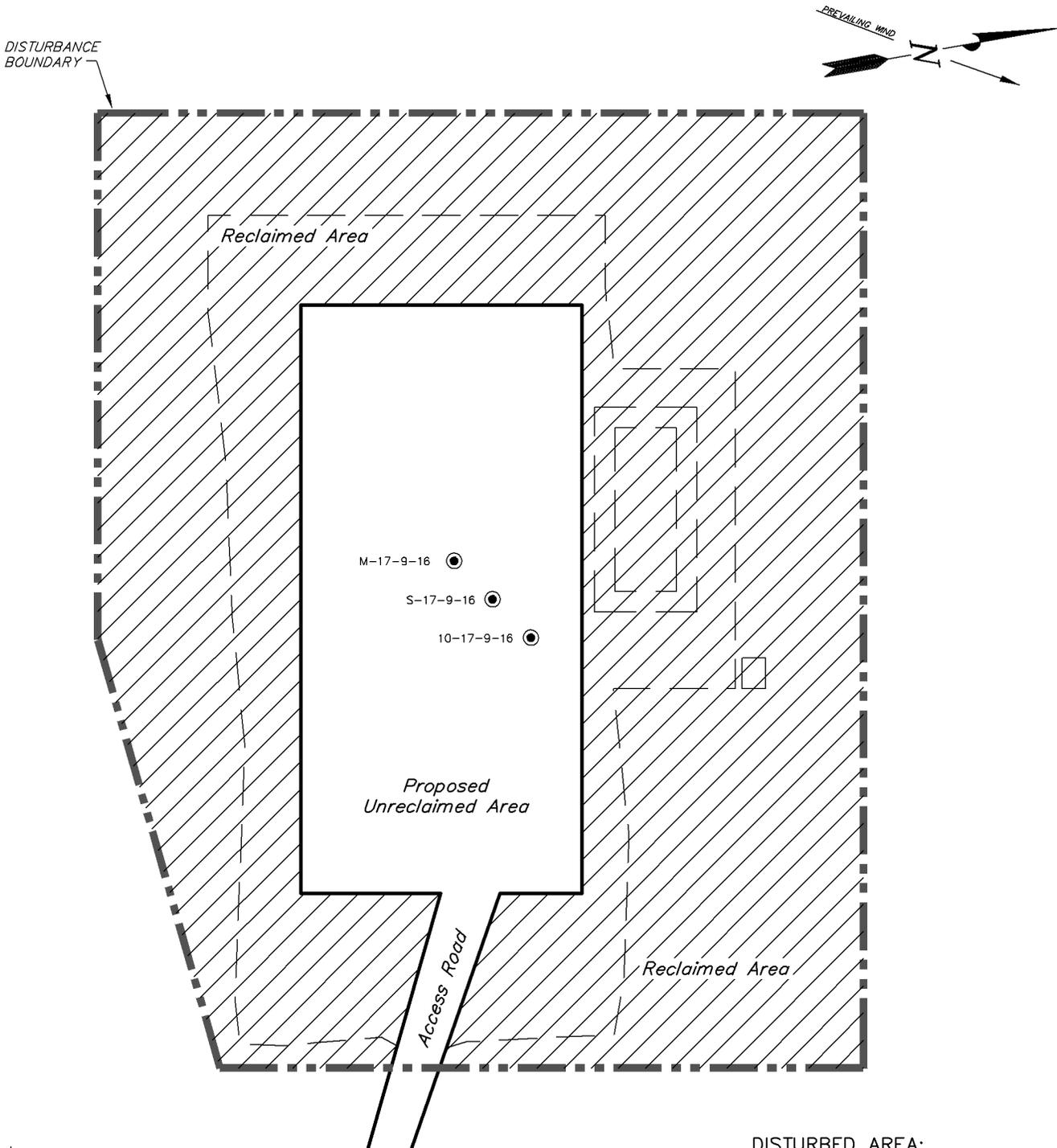
# NEWFIELD EXPLORATION COMPANY

## RECLAMATION LAYOUT

EXISTING 10-17-9-16 PAD

PROPOSED WELLS: S-17-9-16 AND M-17-9-16

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



**Notes:**

1. Reclaimed Area to Include Seeding of Approved Vegetation and Sufficient Storm Water Management System.
2. Actual Equipment Layout and Reclaimed Pad Surface Area May Change due to Production Requirements or Site Conditions.

**DISTURBED AREA:**

TOTAL DISTURBED AREA = ±2.47 ACRES  
 TOTAL RECLAIMED AREA = ±1.86 ACRES  
 UNRECLAIMED AREA = ±0.61 ACRES

SURVEYED BY: Q.M.	DATE SURVEYED: 12-12-13	VERSION: V2
DRAWN BY: L.K.	DATE DRAWN: 12-18-13	
SCALE: 1" = 60'	REVISED: F.T.M. 06-27-14	

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

RECEIVED: July 10, 2014

# NEWFIELD EXPLORATION COMPANY

## PROPOSED SITE FACILITY DIAGRAM

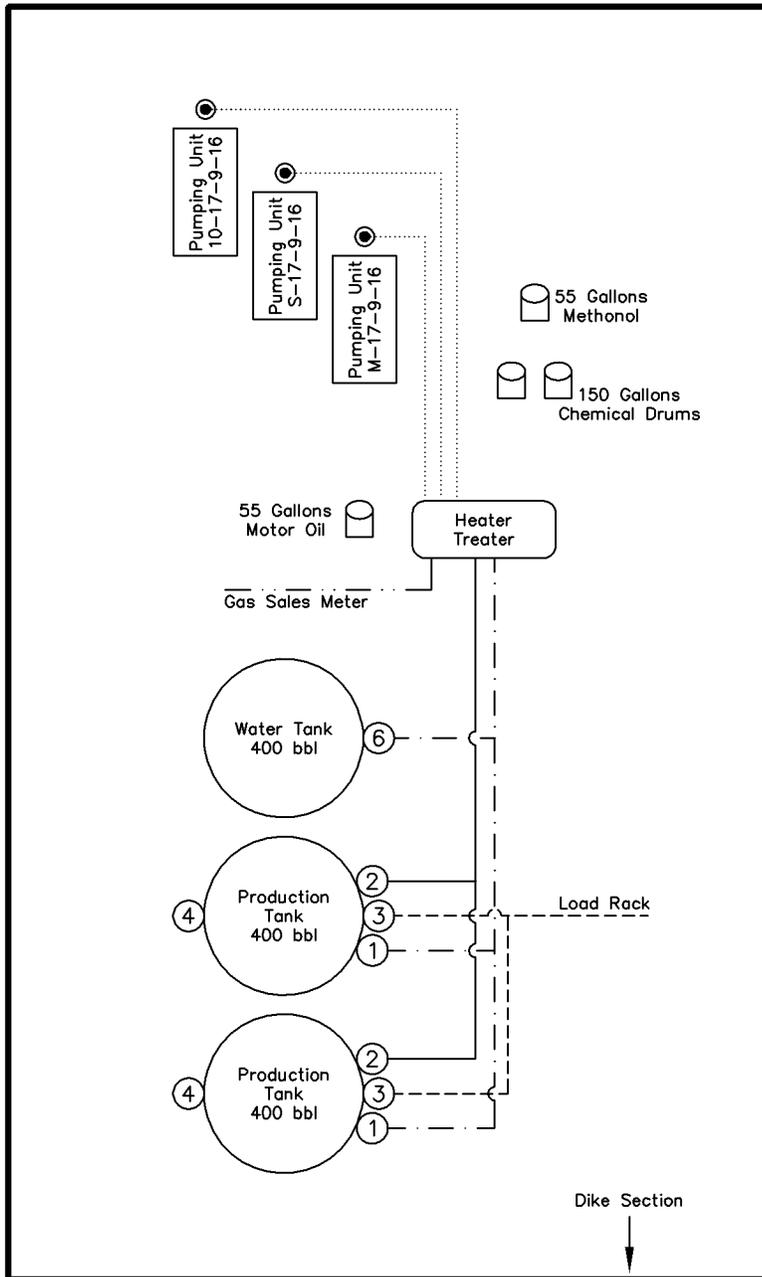
10-17-9-16 PAD

10-17-9-16 UTU-52018

S-17-9-16 UTU-52018

M-17-9-16 UTU-52018

Pad Location: NWSE Section 17, T9S, R16E, S.L.B.&M.  
Duchesne County, Utah



### Legend

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

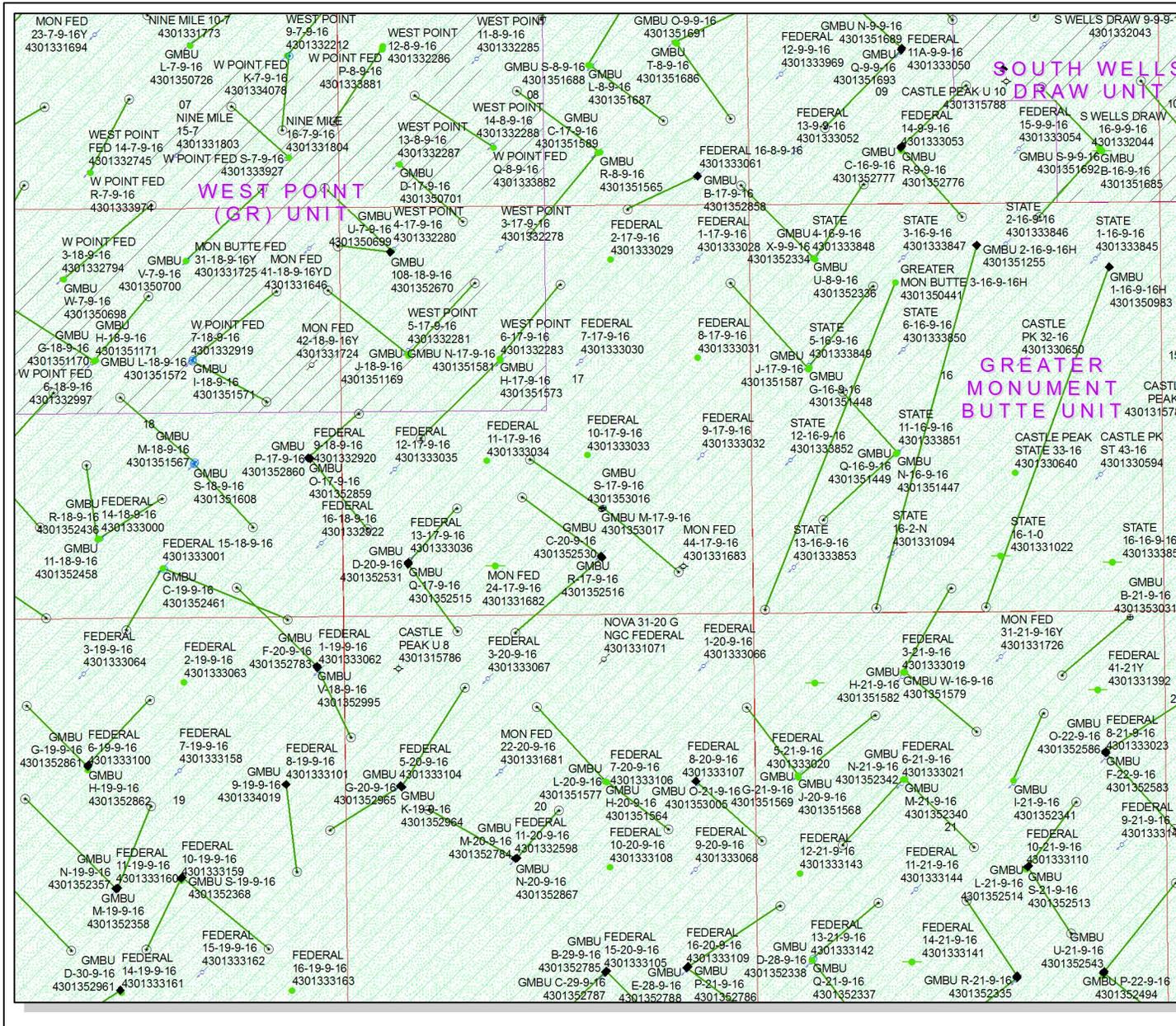
NOT TO SCALE

SURVEYED BY: Q.M.	DATE SURVEYED: 12-12-13	VERSION:
DRAWN BY: L.K.	DATE DRAWN: 12-18-13	V2
SCALE: NONE	REVISED: F.T.M. 06-27-14	

(435) 781-2501

**Tri State**  
Land Surveying, Inc.

180 NORTH VERNAL AVE. VERNAL, UTAH 84078



API Number: 4301353017

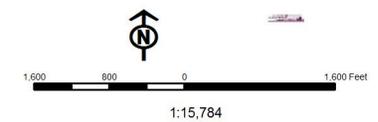
Well Name: GMBU M-17-9-16

Township: T09.0S Range: R16.0E Section: 17 Meridian: S

Operator: NEWFIELD PRODUCTION COMPANY

Map Prepared: 7/16/2014  
Map Produced by Diana Mason

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



# United States Department of the Interior

## BUREAU OF LAND MANAGEMENT

Utah State Office  
440 West 200 South, Suite 500  
Salt Lake City, UT 84101

IN REPLY REFER TO:  
3160  
(UT-922)

July 14, 2014

Memorandum

To: Assistant Field Office Manager Minerals,  
Vernal Field Office

From: Michael Coulthard, Petroleum Engineer

Subject: 2014 Plan of Development Greater Monument  
Butte Unit, Duchesne and Uintah Counties,  
Utah.

Pursuant to email between Diana Mason, Division of Oil, Gas and Mining, and Mickey Coulthard, Utah State Office, Bureau of Land Management, the following wells are planned for calendar year 2014 within the Greater Monument Butte Unit, Duchesne and Uintah Counties, Utah.

API #	WELL NAME	LOCATION
(Proposed PZ GREEN RIVER)		
43-013-53016	GMBU S-17-9-16	Sec 17 T09S R16E 2089 FSL 2130 FEL BHL Sec 17 T09S R16E 1261 FSL 1155 FEL
43-013-53017	GMBU M-17-9-16	Sec 17 T09S R16E 2077 FSL 2148 FEL BHL Sec 17 T09S R16E 2564 FNL 2266 FWL

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

Michael Coulthard

Digitally signed by Michael Coulthard  
DN: cn=Michael Coulthard, o=Bureau of Land  
Management, ou=Division of Minerals,  
email=mcoultha@blm.gov, c=US  
Date: 2014.07.14 13:35:07 -06'00'

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

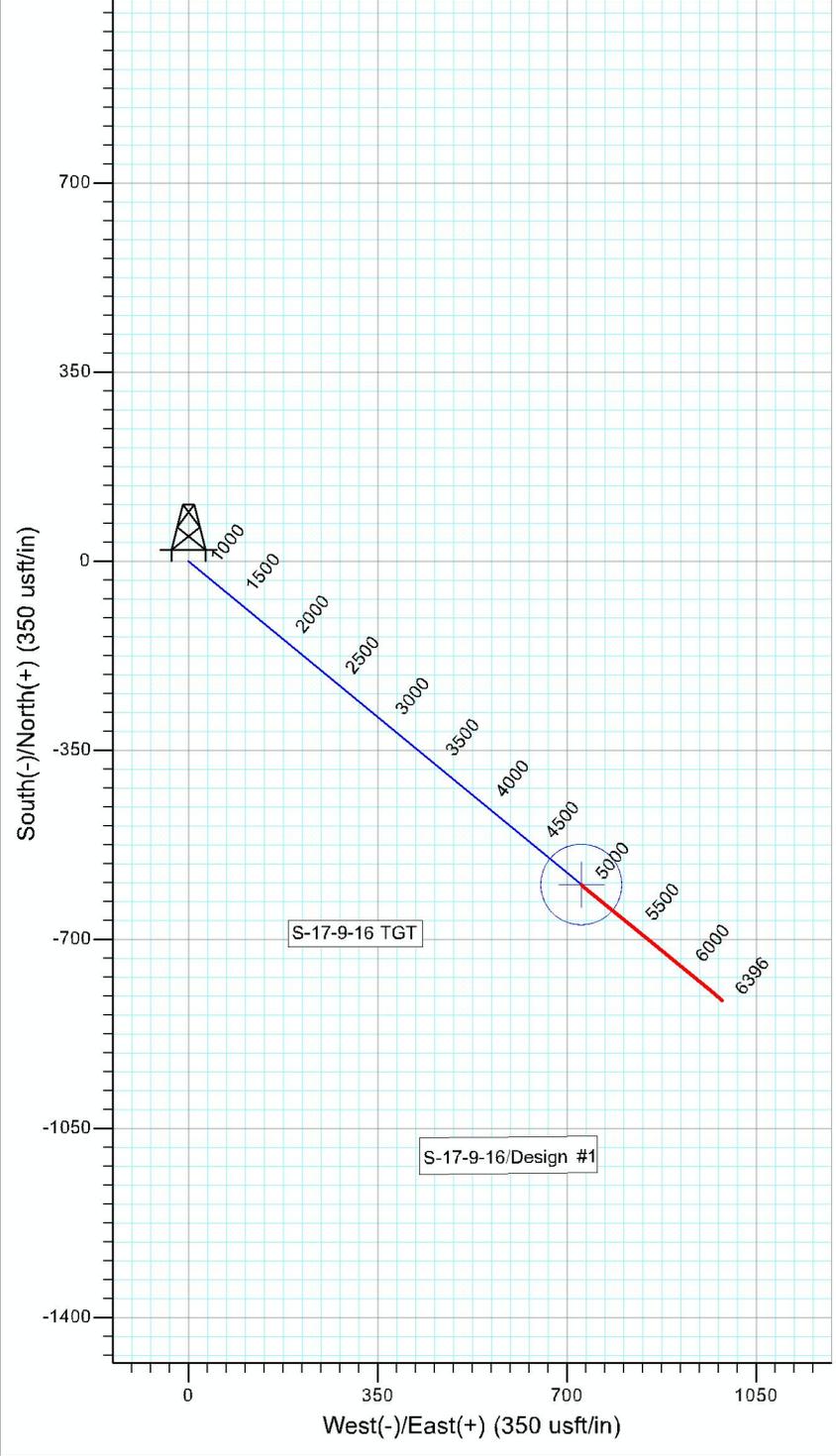
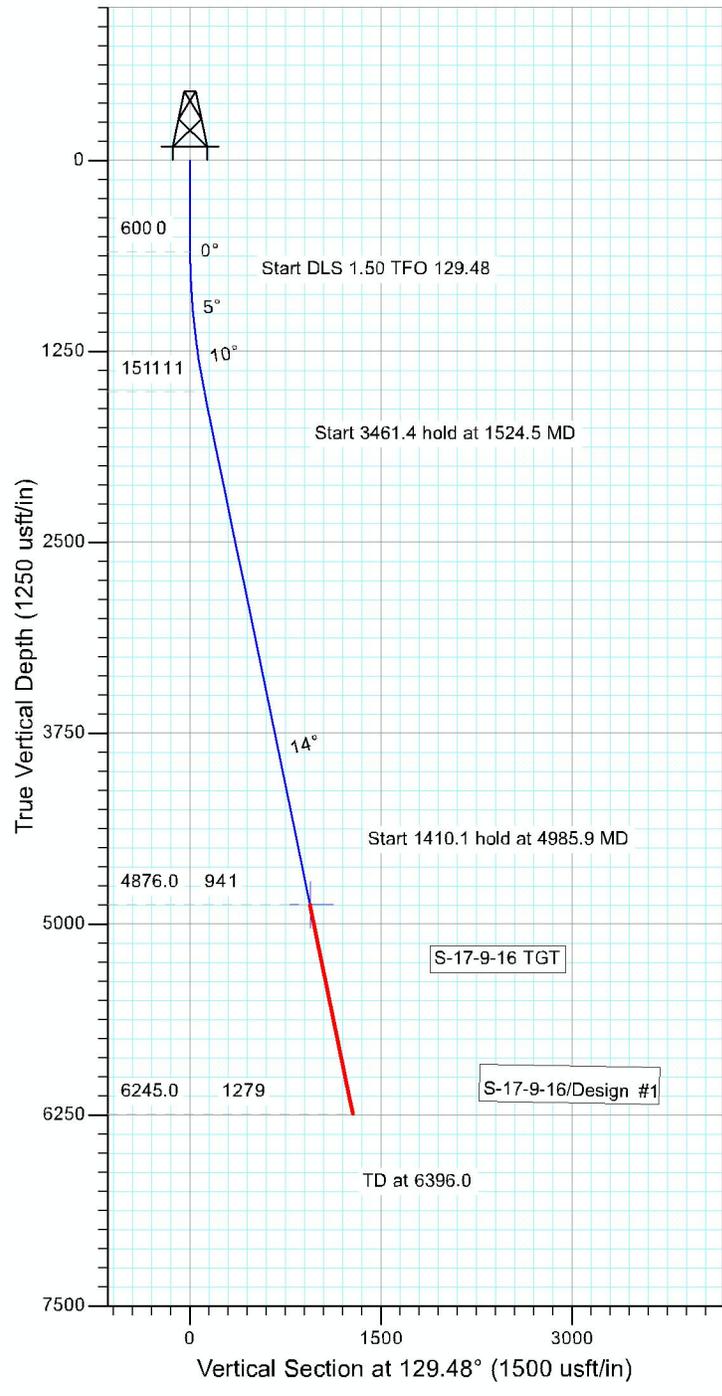
MCoulthard:mc:7-14-14

RECEIVED: July 16, 2014



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

**T M** Azimuths to True North  
 Magnetic North: 11.02°  
 Magnetic Field  
 Strength: 52001.4snT  
 Dip Angle: 65.70°  
 Date: 12/10/2013  
 Model: IGRF2010



WELLBORE TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Shape
S-17-9-16 TGT	4876.0	-598.3	726.3	Circle (Radius: 75.0)

SECTION DETAILS

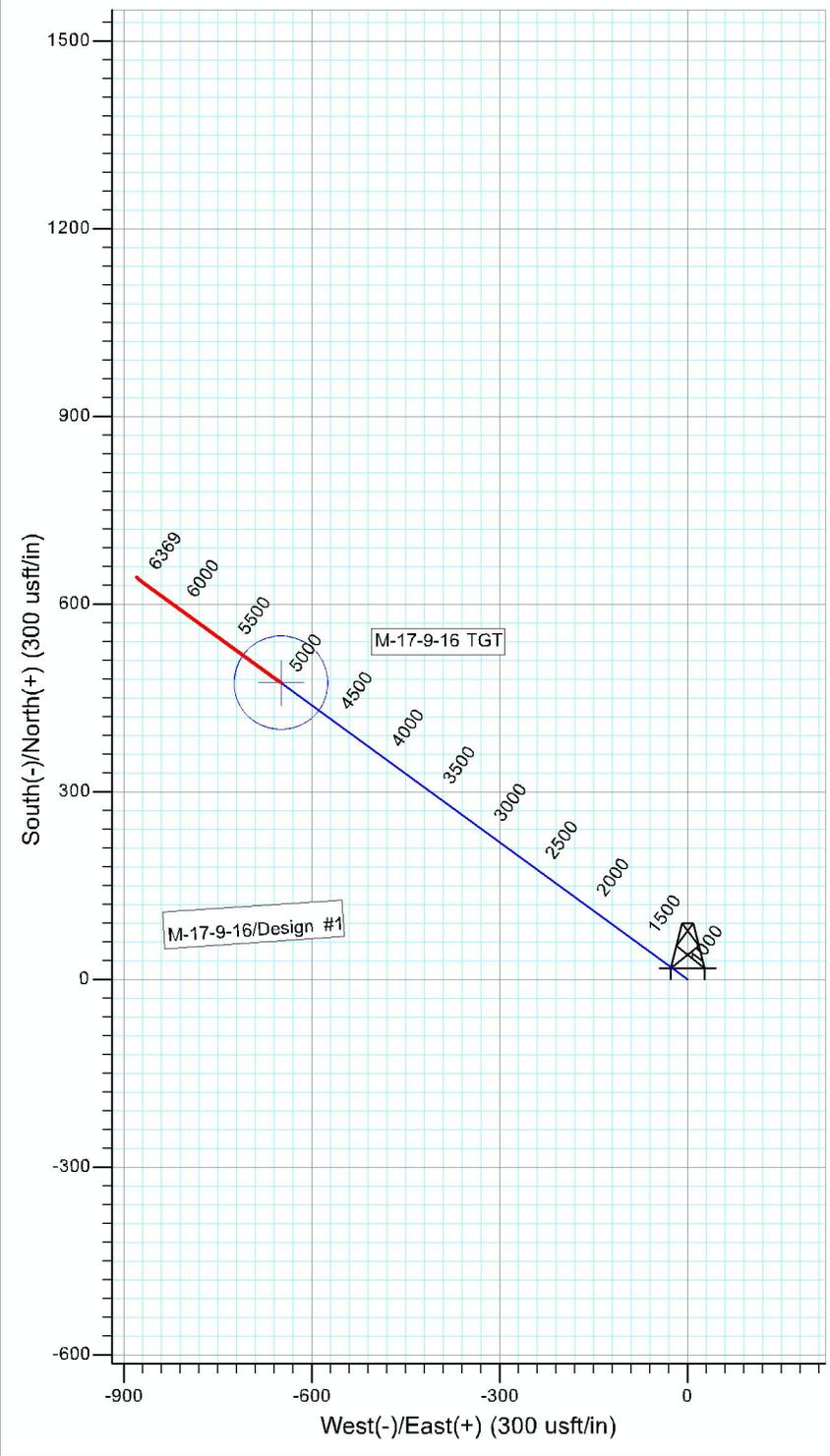
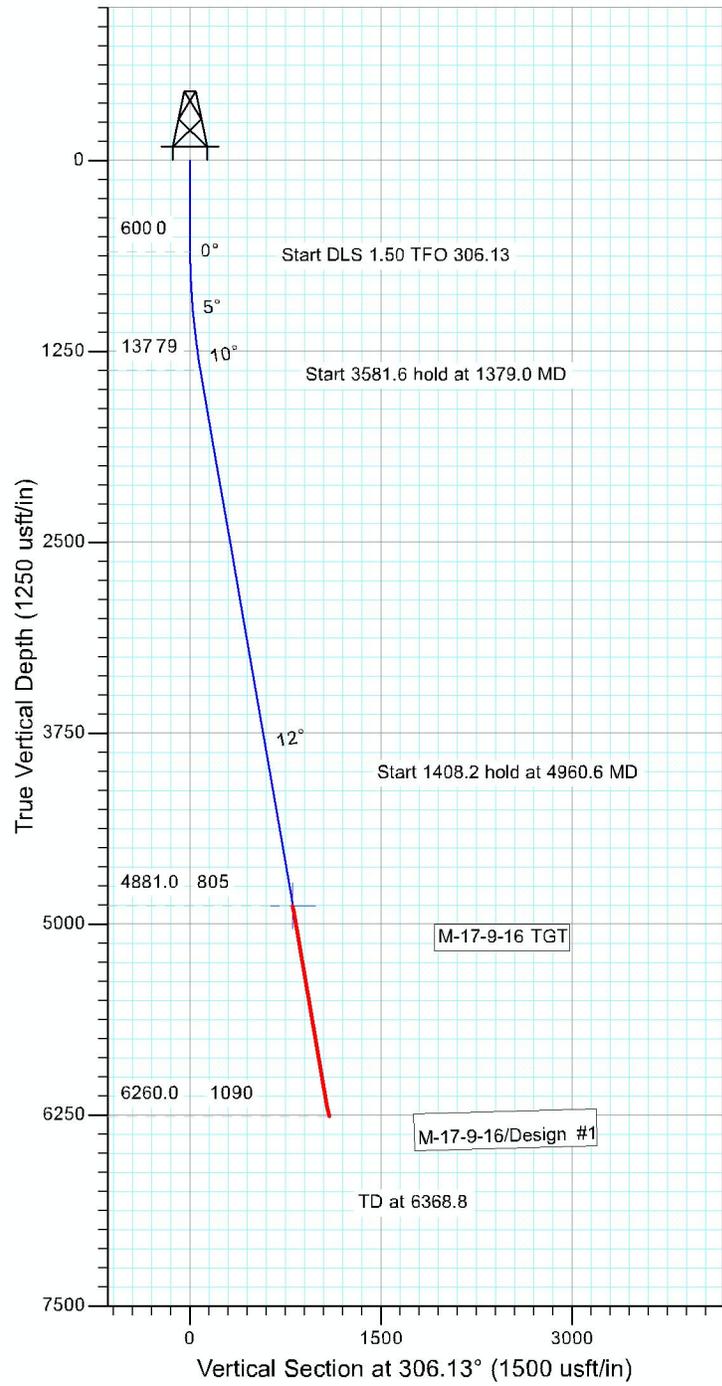
Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSect	Target
1	0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0	
2	600.0	0.00	0.00	600.0	0.0	0.0	0.00	0.00	0.0	
3	1524.5	13.87	129.48	1515.5	-70.8	85.9	1.50	129.48	111.3	
4	4985.9	13.87	129.48	4876.0	-598.3	726.3	0.00	0.00	941.0	S-17-9-16 TGT
5	6396.0	13.87	129.48	6245.0	-813.2	987.1	0.00	0.00	1278.9	





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

**T** Azimuths to True North  
**M** Magnetic North: 11.02°  
 Magnetic Field  
 Strength: 52001.3snT  
 Dip Angle: 65.70°  
 Date: 12/10/2013  
 Model: IGRF2010



WELLBORE TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Shape
M-17-9-16 TGT	4881.0	474.4	-649.8	Circle (Radius: 75.0)

SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSect	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	1379.0	11.68	306.13	1373.6	46.7	-63.9	1.50	306.13	79.2	
4	4960.6	11.68	306.13	4881.0	474.4	-649.8	0.00	0.00	804.5	M-17-9-16 TGT
5	6368.8	11.68	306.13	6260.0	642.5	-880.1	0.00	0.00	1089.7	



## WORKSHEET APPLICATION FOR PERMIT TO DRILL

APD RECEIVED: 7/10/2014

API NO. ASSIGNED: 43013530170000

WELL NAME: GMBU M-17-9-16

OPERATOR: NEWFIELD PRODUCTION COMPANY (N2695)

PHONE NUMBER: 435 646-4825

CONTACT: Mandie Crozier

PROPOSED LOCATION: NWSE 17 090S 160E

Permit Tech Review: 

SURFACE: 2077 FSL 2148 FEL

Engineering Review: 

BOTTOM: 2564 FNL 2266 FWL

Geology Review: 

COUNTY: DUCHESNE

LATITUDE: 40.02934

LONGITUDE: -110.14075

UTM SURF EASTINGS: 573316.00

NORTHINGS: 4431157.00

FIELD NAME: MONUMENT BUTTE

LEASE TYPE: 1 - Federal

LEASE NUMBER: UTU-52018

PROPOSED PRODUCING FORMATION(S): GREEN RIVER

SURFACE OWNER: 1 - Federal

COALBED METHANE: NO

## RECEIVED AND/OR REVIEWED:

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

Commingling Approved

## LOCATION AND SITING:

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

Comments: Presite Completed

Stipulations: 4 - Federal Approval - dmason  
15 - Directional - dmason  
27 - Other - bhll



GARY R. HERBERT  
Governor

SPENCER J. COX  
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 M-17-9-16  
**API Well Number:** 43013530170000  
**Lease Number:** UTU-52018  
**Surface Owner:** FEDERAL  
**Approval Date:** 7/17/2014

### Issued to:

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

### Authority:

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

### Duration:

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

### General:

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

### Conditions of Approval:

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

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

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

### Notification Requirements:

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

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

(please leave a voicemail message if not available)

OR

submit an electronic sundry notice (pre-registration required) via the Utah Oil & Gas website  
at <http://oilgas.ogm.utah.gov>

**Reporting Requirements:**

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

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

**Approved By:**

A handwritten signature in black ink, appearing to read "John Rogers", written over a horizontal line.

For John Rogers  
Associate Director, Oil & Gas

# RECEIVED

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

JUL 16 2014

## APPLICATION FOR PERMIT TO DRILL OR REENTER **BLM Vernal UT**

1a. Type of Work: <input checked="" type="checkbox"/> DRILL <input type="checkbox"/> REENTER		5. Lease Serial No. UTU52018
1b. Type of Well: <input checked="" type="checkbox"/> Oil Well <input type="checkbox"/> Gas Well <input type="checkbox"/> Other <input checked="" type="checkbox"/> Single Zone <input type="checkbox"/> Multiple Zone		6. If Indian, Allottee or Tribe Name
2. Name of Operator NEWFIELD EXPLORATION Contact: MANDIE CROZIER E-Mail: MCROZIER@NEWFIELD.COM		7. If Unit or CA Agreement, Name and No. UTU87538X
3a. Address ROUTE 3 BOX 3630 MYTON, UT 84052		8. Lease Name and Well No. GMBU M-17-9-16
3b. Phone No. (include area code) Ph: 435-646-3721 Ext: 4825		9. API Well No. 43-013-53017
4. Location of Well (Report location clearly and in accordance with any State requirements. *) At surface NWSE 2077FSL 2148FEL At proposed prod. zone SENW 2564FNL 2266FWL		10. Field and Pool, or Exploratory MONUMENT BUTTE
14. Distance in miles and direction from nearest town or post office* 15.1 SOUTHWEST OF MYTON, UT		11. Sec., T., R., M., or Blk. and Survey or Area Sec 17 T9S R16E Mer SLB
15. Distance from proposed location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any) APPROX. 76'	16. No. of Acres in Lease 640.00	12. County or Parish DUCHESENE
18. Distance from proposed location to nearest well, drilling, completed, applied for, on this lease, ft. APPROX. 1320'	19. Proposed Depth 6369 MD 6260 TVD	13. State UT
21. Elevations (Show whether DF, KB, RT, GL, etc.) 6002 GL	22. Approximate date work will start 02/01/2015	17. Spacing Unit dedicated to this well 20.00
		20. BLM/BIA Bond No. on file WYB000493
		23. Estimated duration 7 DAYS

24. Attachments

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

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

25. Signature (Electronic Submission)	Name (Printed/Typed) MANDIE CROZIER Ph: 435-646-3721 Ext: 4825	Date 07/11/2014
Title REGULATORY SPECIALIST		
Approved by (Signature) 	Name (Printed/Typed) Jerry Kenczka	Date NOV 18 2014
Title Assistant Field Manager Lands & Mineral Resources	Office VERNAL FIELD OFFICE	

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

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

Additional Operator Remarks (see next page)

Electronic Submission #252682 verified by the BLM Well Information System  
For NEWFIELD EXPLORATION, sent to the Vernal  
Committed to AFMSS for processing by JEANNE NEWMAN on 07/17/2014 ()



### NOTICE OF APPROVAL

CONDITIONS OF APPROVAL ATTACHED

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

RECEIVED

NOV 21 2014

DIV. OF OIL, GAS & MINING

14JEN 0019AE

NOS 5/6/14

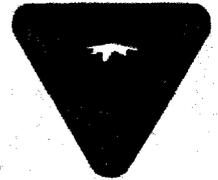


UNITED STATES DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT  
VERNAL FIELD OFFICE

170 South 500 East

VERNAL, UT 84078

(435) 781-4400



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

Company: Newfield Exploration  
Well No: GMBU M-17-9-16  
API No: 43-013-53017

Location: NWSE, Sec.17, T9S, R16E  
Lease No: UTU-52018  
Agreement: Monument Butte

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

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

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

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

**NOTIFICATION REQUIREMENTS**

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

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

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

### **STANDARD STIPULATIONS**

#### **Minerals and Paleontology**

- If there is an active Gilsonite mining operation within 2 miles of the well location, operator shall notify the Gilsonite operator at least 48 hours prior to any blasting during construction.
- If paleontological materials are uncovered during construction, the operator is to immediately stop work and contact the Authorized Officer (AO). A determination will be made by the AO as to what mitigation may be necessary for the discovered paleontologic material before construction can continue.

#### **Green River District Reclamation Guidelines**

The Operator will comply with the requirements of the ***Green River District (GRD) Reclamation Guidelines*** formalized by Green River District Instructional Memo UTG000-2014-004 on May 21, 2014.

### **CONDITIONS OF APPROVAL**

#### **Wildlife**

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

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

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

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

- If it is anticipated that construction or drilling will occur during mountain plover nesting season (May 1 – June 15), a BLM biologist will be notified to determine if surveys are necessary prior to beginning operations. If surveys are deemed necessary, depending on the results permission to proceed may or may not, be granted by the BLM Authorized Officer.

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

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

#### **Air Quality**

- All internal combustion equipment will be kept in good working order.
- Water or other approved dust suppressants will be used at construction sites and along roads, as determined appropriate by the Authorized Officer. Dust suppressant such as magnesium chloride or fresh water may be used, as needed, during the drilling phase.
- Open burning of garbage or refuse will not occur at well sites or other facilities.
- Drill rigs will be equipped with Tier II or better diesel engines.
- Low bleed pneumatics will be installed on separator dump valves and other controllers.

- During completion, no venting will occur, and flaring will be limited as much as possible. Production equipment and gathering lines will be installed as soon as possible.
- Telemetry will be installed to remotely monitor and control production.
- When feasible, two or more rigs (including drilling and completion rigs) will not be run simultaneously within 200 meters of each other. If two or more rigs must be run simultaneously within 200 meters of each other, then effective public health buffer zones out to 200 meters (m) from the nearest emission source will be implemented. Examples of an effective public health protection buffer zone include the demarcation of a public access exclusion zone by signage at intervals of every 250 feet that is visible from a distance of 125 feet during daylight hours, and a physical buffer such as active surveillance to ensure the property is not accessible by the public during drilling operations. Alternatively, the proponent may demonstrate compliance with the 1-hour NO<sub>2</sub> National Ambient Air Quality Standards (NAAQS) with appropriate and accepted near-field modeling. As part of this demonstration, the proponent may propose alternative mitigation that could include but is not limited to natural gas-fired drill rigs, installation of NO<sub>x</sub> controls, time/use restrictions, and/or drill rig spacing.
- All new and replacement internal combustion gas field engines of less than or equal to 300 design-rated horse power must not emit more than 2 grams of NO<sub>x</sub> per horsepower-hour. This requirement does not apply to gas field engines of less than or equal to 40 design-rated horsepower-hour.
- All new and replacement internal combustion gas field engines of greater than 300 design rated horsepower must not emit more than 1.0 grams of NO<sub>x</sub> per horsepower-hour.
- Green completions will be used for all well completion activities where technically feasible.

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

**SITE SPECIFIC DOWNHOLE COAs:**

- Newfield Production Co. shall adhere to all referenced requirements in the SOP (version: "Greater Monument Butte Green River Development Program", Feb 16, 2012). The operator shall also comply with applicable laws and regulations; with lease terms Onshore Oil and Gas Orders, NTL's; and with other orders and instructions of the, authorized officer.

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

**DRILLING/COMPLETION/PRODUCING OPERATING STANDARDS**

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

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

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

## **OPERATING REQUIREMENT REMINDERS:**

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

and/or gas) shall be submitted only when requested by the BLM, Vernal Field Office.

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

<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>1. TYPE OF WELL</b> Oil Well	<b>5. LEASE DESIGNATION AND SERIAL NUMBER:</b> UTU-52018
<b>2. NAME OF OPERATOR:</b> NEWFIELD PRODUCTION COMPANY	<b>6. IF INDIAN, ALLOTTEE OR TRIBE NAME:</b>
<b>3. ADDRESS OF OPERATOR:</b> Rt 3 Box 3630 , Myton, UT, 84052	<b>7. UNIT or CA AGREEMENT NAME:</b> GMBU (GRRV)
<b>PHONE NUMBER:</b> 435 646-4825 Ext	<b>8. WELL NAME and NUMBER:</b> GMBU M-17-9-16
<b>4. LOCATION OF WELL</b> <b>FOOTAGES AT SURFACE:</b> 2077 FSL 2148 FEL <b>QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:</b> Qtr/Qtr: NWSE Section: 17 Township: 09.0S Range: 16.0E Meridian: S	<b>9. API NUMBER:</b> 43013530170000
	<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: 7/17/2015	<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**  
**June 23, 2015**  
**Oil, Gas and Mining**

**Date:** \_\_\_\_\_  
**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> 6/23/2015	



**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 43013530170000**

API: 43013530170000

Well Name: GMBU M-17-9-16

Location: 2077 FSL 2148 FEL QTR NWSE SEC 17 TWNP 090S RNG 160E MER S

Company Permit Issued to: NEWFIELD PRODUCTION COMPANY

Date Original Permit Issued: 7/17/2014

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: 6/23/2015

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>	
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	<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: 7/17/2016	<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
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	<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**  
**July 02, 2016**  
**Oil, Gas and Mining**

**Date:** \_\_\_\_\_  
**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> 7/11/2016	



**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 43013530170000**

API: 43013530170000

Well Name: GMBU M-17-9-16

Location: 2077 FSL 2148 FEL QTR NWSE SEC 17 TWNP 090S RNG 160E MER S

Company Permit Issued to: NEWFIELD PRODUCTION COMPANY

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- Has the approved source of water for drilling changed?  Yes  No
  
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- Is bonding still in place, which covers this proposed well?  Yes  No

Signature: Mandie Crozier

Date: 7/11/2016

Title: Regulatory Tech Representing: NEWFIELD PRODUCTION COMPANY