

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

FORM 3

AMENDED REPORT

APPLICATION FOR PERMIT TO DRILL						1. WELL NAME and NUMBER GMBU M-2-9-17				
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 <input type="checkbox"/> Coalbed Methane Well: NO <input type="checkbox"/>						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-45555			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		2067 FSL 1672 FWL		NESW	2	9.0 S	17.0 E	S		
Top of Uppermost Producing Zone		2443 FSL 2339 FWL		NESW	2	9.0 S	17.0 E	S		
At Total Depth		2500 FNL 2271 FEL		SWNE	2	9.0 S	17.0 E	S		
21. COUNTY UINTAH			22. DISTANCE TO NEAREST LEASE LINE (Feet) 2271			23. NUMBER OF ACRES IN DRILLING UNIT 20				
27. ELEVATION - GROUND LEVEL 5087			25. DISTANCE TO NEAREST WELL IN SAME POOL (Applied For Drilling or Completed) 863			26. PROPOSED DEPTH MD: 6449 TVD: 6230				
28. BOND NUMBER B001834			29. SOURCE OF DRILLING WATER / WATER RIGHTS APPROVAL NUMBER IF APPLICABLE 437478							
Hole, Casing, and Cement Information										
String	Hole Size	Casing Size	Length	Weight	Grade & Thread	Max Mud Wt.	Cement	Sacks	Yield	Weight
Surf	12.25	8.625	0 - 300	24.0	J-55 ST&C	8.3	Class G	138	1.17	15.8
Prod	7.875	5.5	0 - 6449	15.5	J-55 LT&C	8.3	Premium Lite High Strength	307	3.26	11.0
							50/50 Poz	363	1.24	14.3
ATTACHMENTS										
VERIFY THE FOLLOWING ARE ATTACHED IN ACCORDANCE WITH THE UTAH OIL AND GAS CONSERVATION GENERAL RULES										
<input checked="" type="checkbox"/> WELL PLAT OR MAP PREPARED BY LICENSED SURVEYOR OR ENGINEER					<input checked="" type="checkbox"/> COMPLETE DRILLING PLAN					
<input type="checkbox"/> AFFIDAVIT OF STATUS OF SURFACE OWNER AGREEMENT (IF FEE SURFACE)					<input type="checkbox"/> FORM 5. IF OPERATOR IS OTHER THAN THE LEASE OWNER					
<input checked="" type="checkbox"/> DIRECTIONAL SURVEY PLAN (IF DIRECTIONALLY OR HORIZONTALLY DRILLED)					<input checked="" type="checkbox"/> TOPOGRAPHICAL MAP					
NAME Mandie Crozier			TITLE Regulatory Tech			PHONE 435 646-4825				
SIGNATURE			DATE 05/24/2012			EMAIL mcrozier@newfield.com				
API NUMBER ASSIGNED 43047527620000			APPROVAL  Permit Manager							

NEWFIELD PRODUCTION COMPANY
GMBU M-2-9-17
AT SURFACE: NE/SW SECTION 2, T9S, R17E
UINTAH 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' – 1435'
Green River	1435'
Wasatch	6180'
Proposed TD	6449'

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

Green River Formation (Oil)	1435' – 6180'
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Fresh water may be encountered in the Uinta Formation, but would not be expected below about 350'. All water shows and water bearing geologic units shall be reported to the geologic and engineering staff of the Vernal Office prior to running the next string of casing or before plugging orders are requested. All water shows must be reported within one (1) business day after being encountered.

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

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

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

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

4. **PROPOSED CASING PROGRAM**

a. **Casing Design: GMBU M-2-9-17**

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'	6,449'	15.5	J-55	LTC	4,810 2.34	4,040 1.97	217,000 2.17

Assumptions:

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

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

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

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

b. **Cementing Design: GMBU M-2-9-17**

Job	Fill	Description	Sacks	OH Excess*	Weight (ppg)	Yield (ft ³ /sk)
			ft ³			
Surface casing	300'	Class G w/ 2% CaCl	138	30%	15.8	1.17
			161			
Prod casing Lead	4,449'	Prem Lite II w/ 10% gel + 3% KCl	307	30%	11.0	3.26
			1002			
Prod casing Tail	2,000'	50/50 Poz w/ 2% gel + 3% KCl	363	30%	14.3	1.24
			451			

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

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

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

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

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

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

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

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

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

From surface to ± 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 ± 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:**

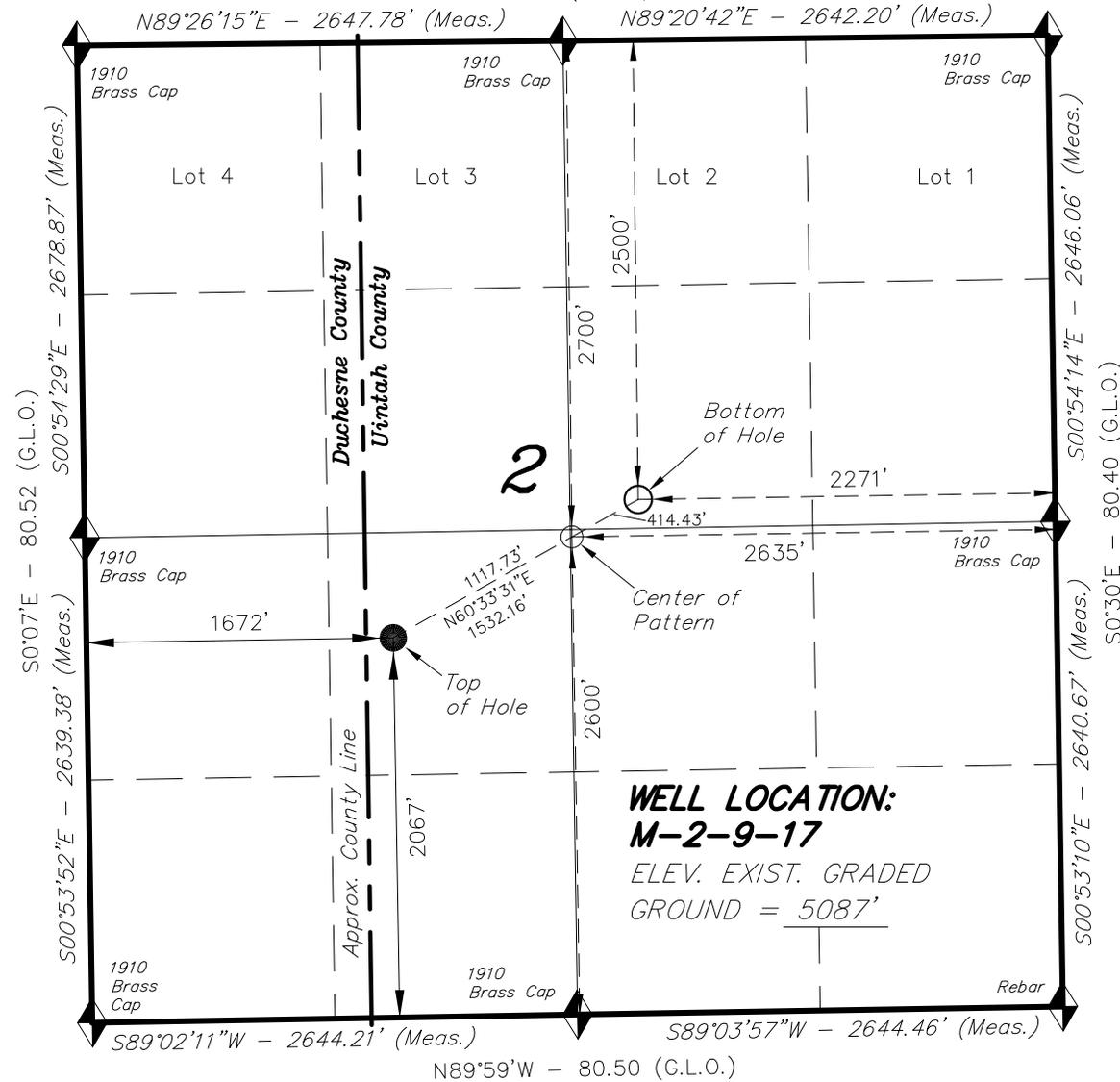
No abnormal temperatures or pressures are anticipated. No hydrogen sulfide has been encountered or is known to exist from previous drilling in the area at this depth. Maximum anticipated bottomhole pressure will approximately equal total depth in feet multiplied by a 0.433 psi/foot gradient.

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

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

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

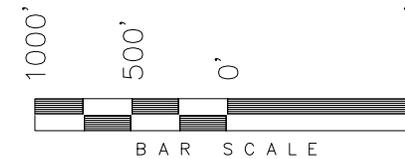
N89°58'E (G.L.O.)



NEWFIELD EXPLORATION COMPANY

WELL LOCATION, M-2-9-17, LOCATED AS SHOWN IN THE NE 1/4 SW 1/4 OF SECTION 2, T9S, R17E, S.L.B.&M. UTAH COUNTY, UTAH.

TARGET BOTTOM HOLE, M-2-9-17, LOCATED AS SHOWN IN THE SW 1/4 NE 1/4 OF SECTION 2, T9S, R17E, S.L.B.&M. UTAH 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.

REGISTERED LAND SURVEYOR
 No. 189377
 01-20-12
 STACY W. STEWART
 REGISTERED LAND SURVEYOR
 REGISTRATION No. 189377
 STATE OF UTAH

◆ = SECTION CORNERS LOCATED

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

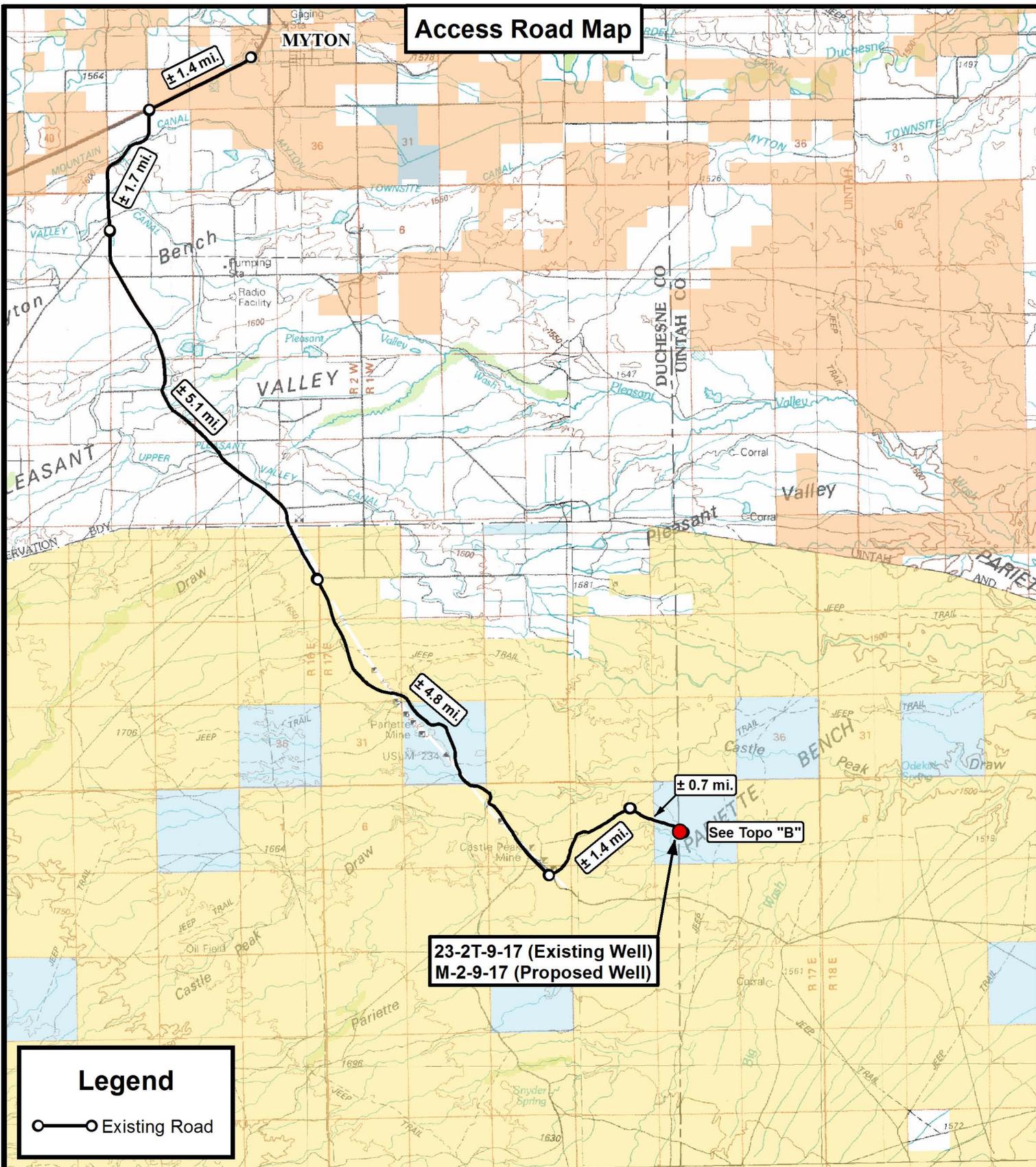
M-2-9-17
 (Surface Location) NAD 83
 LATITUDE = 40° 03' 30.08"
 LONGITUDE = 109° 58' 38.31"

TRI STATE LAND SURVEYING & CONSULTING

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

DATE SURVEYED: 09-26-11	SURVEYED BY: C.D.S.	VERSION:
DATE DRAWN: 01-16-12	DRAWN BY: M.W.	V1
REVISED:	SCALE: 1" = 1000'	

Access Road Map



**23-2T-9-17 (Existing Well)
M-2-9-17 (Proposed Well)**

Legend

○—○ Existing Road

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

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



NEWFIELD EXPLORATION COMPANY

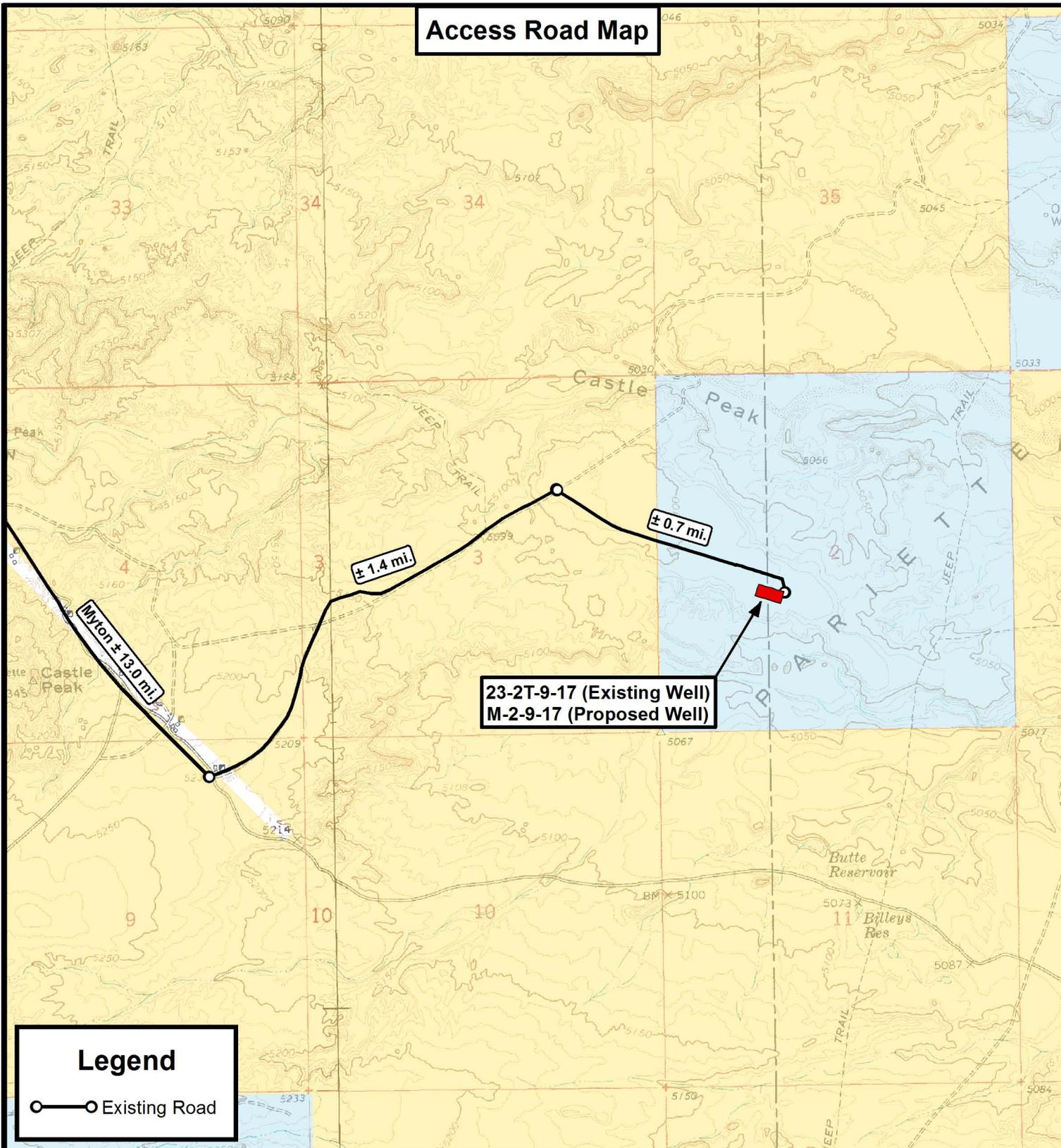
23-2T-9-17 (Existing Well)
M-2-9-17 (Proposed Well)
SEC. 2, T9S, R17E, S.L.B.&M.
Uintah County, UT.

DRAWN BY:	A.P.C.	REVISED:	VERSION:
DATE:	01-19-2012		V1
SCALE:	1:100,000		

TOPOGRAPHIC MAP

SHEET
A

Access Road Map



23-2T-9-17 (Existing Well)
M-2-9-17 (Proposed Well)

Legend

○—○ Existing Road

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



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NEWFIELD EXPLORATION COMPANY

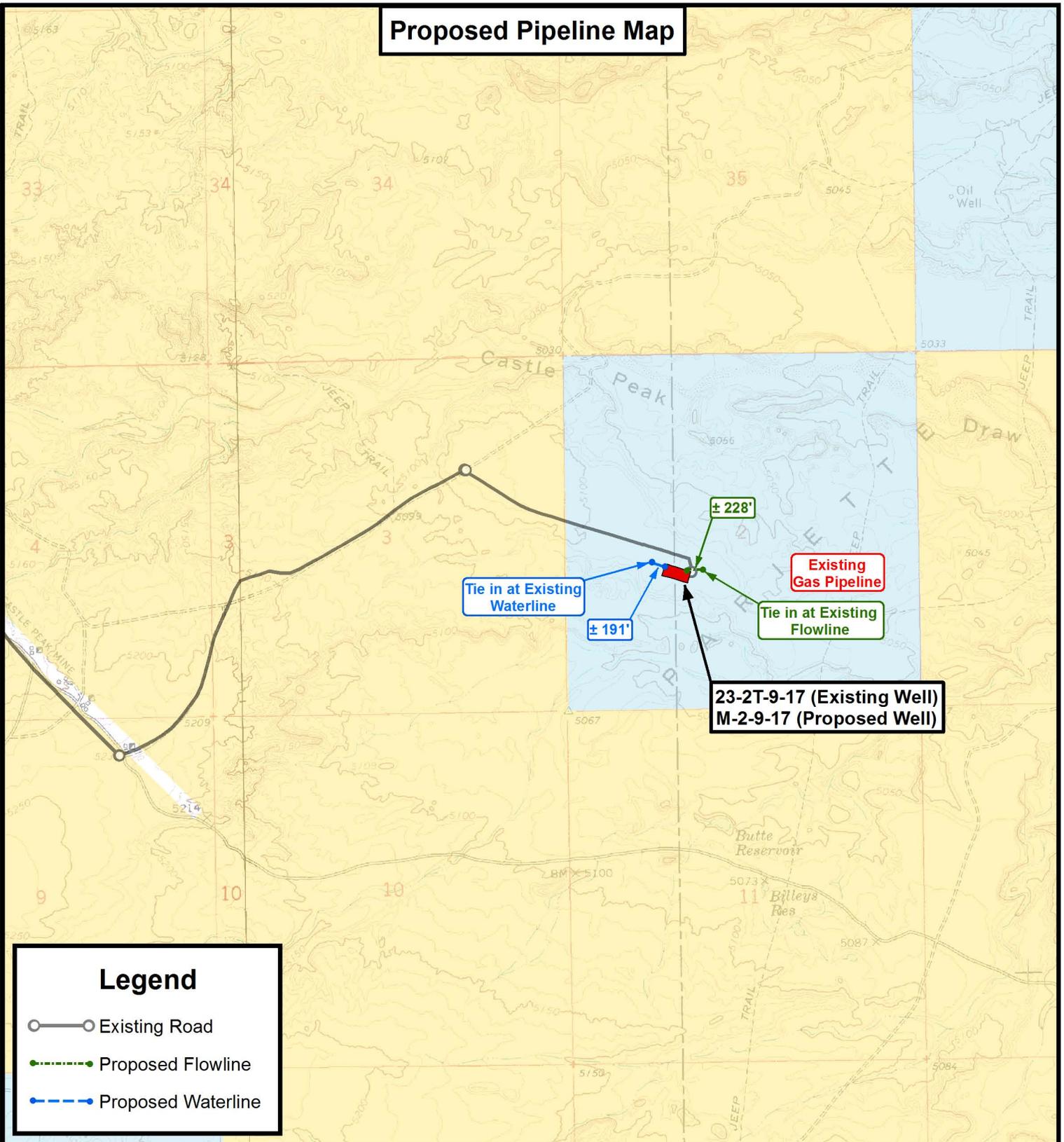
23-2T-9-17 (Existing Well)
 M-2-9-17 (Proposed Well)
 SEC. 2, T9S, R17E, S.L.B.&M.
 Uintah County, UT.

DRAWN BY:	A.P.C.	REVISED:	VERSION:
DATE:	01-19-2012		V1
SCALE:	1" = 2,000'		

TOPOGRAPHIC MAP

SHEET **B**

Proposed Pipeline Map



Legend

- Existing Road
- Proposed Flowline
- Proposed Waterline

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

23-2T-9-17 (Existing Well)
M-2-9-17 (Proposed Well)
SEC. 2, T9S, R17E, S.L.B.&M.
Uintah County, UT.

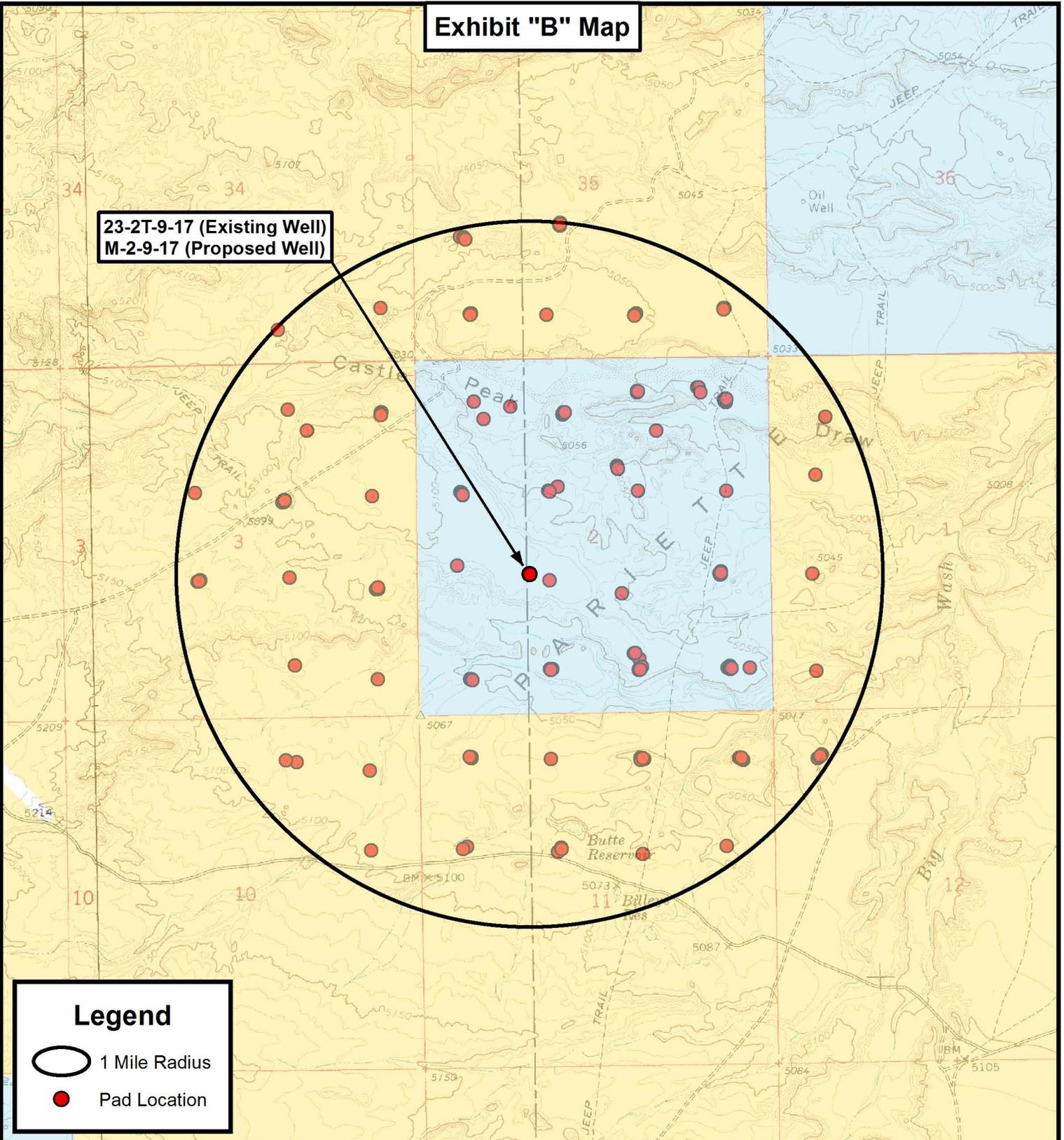
DRAWN BY:	A.P.C.	REVISED:	VERSION:
DATE:	01-19-2012		V1
SCALE:	1" = 2,000'		

TOPOGRAPHIC MAP

SHEET
C

Exhibit "B" Map

23-2T-9-17 (Existing Well)
M-2-9-17 (Proposed Well)



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NEWFIELD EXPLORATION COMPANY

23-2T-9-17 (Existing Well)
M-2-9-17 (Proposed Well)
 SEC. 2, T9S, R17E, S.L.B.&M.
 Uintah County, UT.

DRAWN BY:	A.P.C.	REVISED:	VERSION:
DATE:	01-19-2012		V1
SCALE:	1" = 2,000'		

TOPOGRAPHIC MAP

SHEET
D



NEWFIELD EXPLORATION

**USGS Myton SW (UT)
SECTION 2 T9S, R17E
M-2-9-17**

Wellbore #1

Plan: Design #1

Standard Planning Report

11 January, 2012





Payzone Directional
Planning Report



Database:	EDM 2003.21 Single User Db	Local Co-ordinate Reference:	Well M-2-9-17
Company:	NEWFIELD EXPLORATION	TVD Reference:	M-2-9-17 @ 5099.0ft (Newfield Rig)
Project:	USGS Myton SW (UT)	MD Reference:	M-2-9-17 @ 5099.0ft (Newfield Rig)
Site:	SECTION 2 T9S, R17E	North Reference:	True
Well:	M-2-9-17	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #1		

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

Site	SECTION 2 T9S, R17E, SEC 2 T9S, R17E				
Site Position:		Northing:	7,194,800.00 ft	Latitude:	40° 3' 41.746 N
From:	Lat/Long	Easting:	2,067,293.09 ft	Longitude:	109° 58' 29.067 W
Position Uncertainty:	0.0 ft	Slot Radius:	"	Grid Convergence:	0.98 °

Well	M-2-9-17, SHL LAT: 40 03 30.08 LONG: -109 58 38.30					
Well Position	+N/-S	-1,180.4 ft	Northing:	7,193,607.58 ft	Latitude:	40° 3' 30.080 N
	+E/-W	-717.8 ft	Easting:	2,066,595.48 ft	Longitude:	109° 58' 38.300 W
Position Uncertainty		0.0 ft	Wellhead Elevation:	5,099.0 ft	Ground Level:	5,087.0 ft

Wellbore	Wellbore #1				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	1/11/2012	11.21	65.81	52,236

Design	Design #1			
Audit Notes:				
Version:	Phase:	PROTOTYPE	Tie On Depth:	0.0
Vertical Section:	Depth From (TVD) (ft)	+N/-S (ft)	+E/-W (ft)	Direction (°)
	4,860.0	0.0	0.0	60.56

Plan Sections										
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	
1,722.1	16.83	60.56	1,706.0	80.4	142.5	1.50	1.50	0.00	60.56	
5,017.2	16.83	60.56	4,860.0	549.4	973.4	0.00	0.00	0.00	0.00	M-2-9-17 TGT
6,448.5	16.83	60.56	6,230.0	753.1	1,334.3	0.00	0.00	0.00	0.00	



Payzone Directional
Planning Report



Database:	EDM 2003.21 Single User Db	Local Co-ordinate Reference:	Well M-2-9-17
Company:	NEWFIELD EXPLORATION	TVD Reference:	M-2-9-17 @ 5099.0ft (Newfield Rig)
Project:	USGS Myton SW (UT)	MD Reference:	M-2-9-17 @ 5099.0ft (Newfield Rig)
Site:	SECTION 2 T9S, R17E	North Reference:	True
Well:	M-2-9-17	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	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	60.56	700.0	0.6	1.1	1.3	1.50	1.50	0.00
800.0	3.00	60.56	799.9	2.6	4.6	5.2	1.50	1.50	0.00
900.0	4.50	60.56	899.7	5.8	10.3	11.8	1.50	1.50	0.00
1,000.0	6.00	60.56	999.3	10.3	18.2	20.9	1.50	1.50	0.00
1,100.0	7.50	60.56	1,098.6	16.1	28.5	32.7	1.50	1.50	0.00
1,200.0	9.00	60.56	1,197.5	23.1	41.0	47.0	1.50	1.50	0.00
1,300.0	10.50	60.56	1,296.1	31.4	55.7	64.0	1.50	1.50	0.00
1,400.0	12.00	60.56	1,394.2	41.0	72.7	83.5	1.50	1.50	0.00
1,500.0	13.50	60.56	1,491.7	51.9	91.9	105.5	1.50	1.50	0.00
1,600.0	15.00	60.56	1,588.6	64.0	113.3	130.2	1.50	1.50	0.00
1,700.0	16.50	60.56	1,684.9	77.3	137.0	157.3	1.50	1.50	0.00
1,722.1	16.83	60.56	1,706.0	80.4	142.5	163.6	1.50	1.50	0.00
1,800.0	16.83	60.56	1,780.6	91.5	162.1	186.2	0.00	0.00	0.00
1,900.0	16.83	60.56	1,876.3	105.8	187.4	215.1	0.00	0.00	0.00
2,000.0	16.83	60.56	1,972.0	120.0	212.6	244.1	0.00	0.00	0.00
2,100.0	16.83	60.56	2,067.7	134.2	237.8	273.1	0.00	0.00	0.00
2,200.0	16.83	60.56	2,163.5	148.4	263.0	302.0	0.00	0.00	0.00
2,300.0	16.83	60.56	2,259.2	162.7	288.2	331.0	0.00	0.00	0.00
2,400.0	16.83	60.56	2,354.9	176.9	313.4	359.9	0.00	0.00	0.00
2,500.0	16.83	60.56	2,450.6	191.1	338.7	388.9	0.00	0.00	0.00
2,600.0	16.83	60.56	2,546.3	205.4	363.9	417.8	0.00	0.00	0.00
2,700.0	16.83	60.56	2,642.0	219.6	389.1	446.8	0.00	0.00	0.00
2,800.0	16.83	60.56	2,737.8	233.8	414.3	475.7	0.00	0.00	0.00
2,900.0	16.83	60.56	2,833.5	248.1	439.5	504.7	0.00	0.00	0.00
3,000.0	16.83	60.56	2,929.2	262.3	464.7	533.6	0.00	0.00	0.00
3,100.0	16.83	60.56	3,024.9	276.5	489.9	562.6	0.00	0.00	0.00
3,200.0	16.83	60.56	3,120.6	290.8	515.2	591.6	0.00	0.00	0.00
3,300.0	16.83	60.56	3,216.3	305.0	540.4	620.5	0.00	0.00	0.00
3,400.0	16.83	60.56	3,312.1	319.2	565.6	649.5	0.00	0.00	0.00
3,500.0	16.83	60.56	3,407.8	333.5	590.8	678.4	0.00	0.00	0.00
3,600.0	16.83	60.56	3,503.5	347.7	616.0	707.4	0.00	0.00	0.00
3,700.0	16.83	60.56	3,599.2	361.9	641.2	736.3	0.00	0.00	0.00
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3,900.0	16.83	60.56	3,790.6	390.4	691.7	794.2	0.00	0.00	0.00
4,000.0	16.83	60.56	3,886.4	404.6	716.9	823.2	0.00	0.00	0.00
4,100.0	16.83	60.56	3,982.1	418.9	742.1	852.2	0.00	0.00	0.00
4,200.0	16.83	60.56	4,077.8	433.1	767.3	881.1	0.00	0.00	0.00
4,300.0	16.83	60.56	4,173.5	447.3	792.5	910.1	0.00	0.00	0.00
4,400.0	16.83	60.56	4,269.2	461.6	817.7	939.0	0.00	0.00	0.00
4,500.0	16.83	60.56	4,364.9	475.8	843.0	968.0	0.00	0.00	0.00
4,600.0	16.83	60.56	4,460.7	490.0	868.2	996.9	0.00	0.00	0.00
4,700.0	16.83	60.56	4,556.4	504.3	893.4	1,025.9	0.00	0.00	0.00
4,800.0	16.83	60.56	4,652.1	518.5	918.6	1,054.8	0.00	0.00	0.00
4,900.0	16.83	60.56	4,747.8	532.7	943.8	1,083.8	0.00	0.00	0.00
5,000.0	16.83	60.56	4,843.5	547.0	969.0	1,112.7	0.00	0.00	0.00
5,017.2	16.83	60.56	4,860.0	549.4	973.4	1,117.7	0.00	0.00	0.00
5,100.0	16.83	60.56	4,939.2	561.2	994.3	1,141.7	0.00	0.00	0.00



Payzone Directional

Planning Report



Database:	EDM 2003.21 Single User Db	Local Co-ordinate Reference:	Well M-2-9-17
Company:	NEWFIELD EXPLORATION	TVD Reference:	M-2-9-17 @ 5099.0ft (Newfield Rig)
Project:	USGS Myton SW (UT)	MD Reference:	M-2-9-17 @ 5099.0ft (Newfield Rig)
Site:	SECTION 2 T9S, R17E	North Reference:	True
Well:	M-2-9-17	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #1		

Planned Survey										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	
5,200.0	16.83	60.56	5,034.9	575.4	1,019.5	1,170.7	0.00	0.00	0.00	
5,300.0	16.83	60.56	5,130.7	589.6	1,044.7	1,199.6	0.00	0.00	0.00	
5,400.0	16.83	60.56	5,226.4	603.9	1,069.9	1,228.6	0.00	0.00	0.00	
5,500.0	16.83	60.56	5,322.1	618.1	1,095.1	1,257.5	0.00	0.00	0.00	
5,600.0	16.83	60.56	5,417.8	632.3	1,120.3	1,286.5	0.00	0.00	0.00	
5,700.0	16.83	60.56	5,513.5	646.6	1,145.6	1,315.4	0.00	0.00	0.00	
5,800.0	16.83	60.56	5,609.2	660.8	1,170.8	1,344.4	0.00	0.00	0.00	
5,900.0	16.83	60.56	5,705.0	675.0	1,196.0	1,373.3	0.00	0.00	0.00	
6,000.0	16.83	60.56	5,800.7	689.3	1,221.2	1,402.3	0.00	0.00	0.00	
6,100.0	16.83	60.56	5,896.4	703.5	1,246.4	1,431.2	0.00	0.00	0.00	
6,200.0	16.83	60.56	5,992.1	717.7	1,271.6	1,460.2	0.00	0.00	0.00	
6,300.0	16.83	60.56	6,087.8	732.0	1,296.8	1,489.2	0.00	0.00	0.00	
6,400.0	16.83	60.56	6,183.5	746.2	1,322.1	1,518.1	0.00	0.00	0.00	
6,448.5	16.83	60.56	6,230.0	753.1	1,334.3	1,532.2	0.00	0.00	0.00	



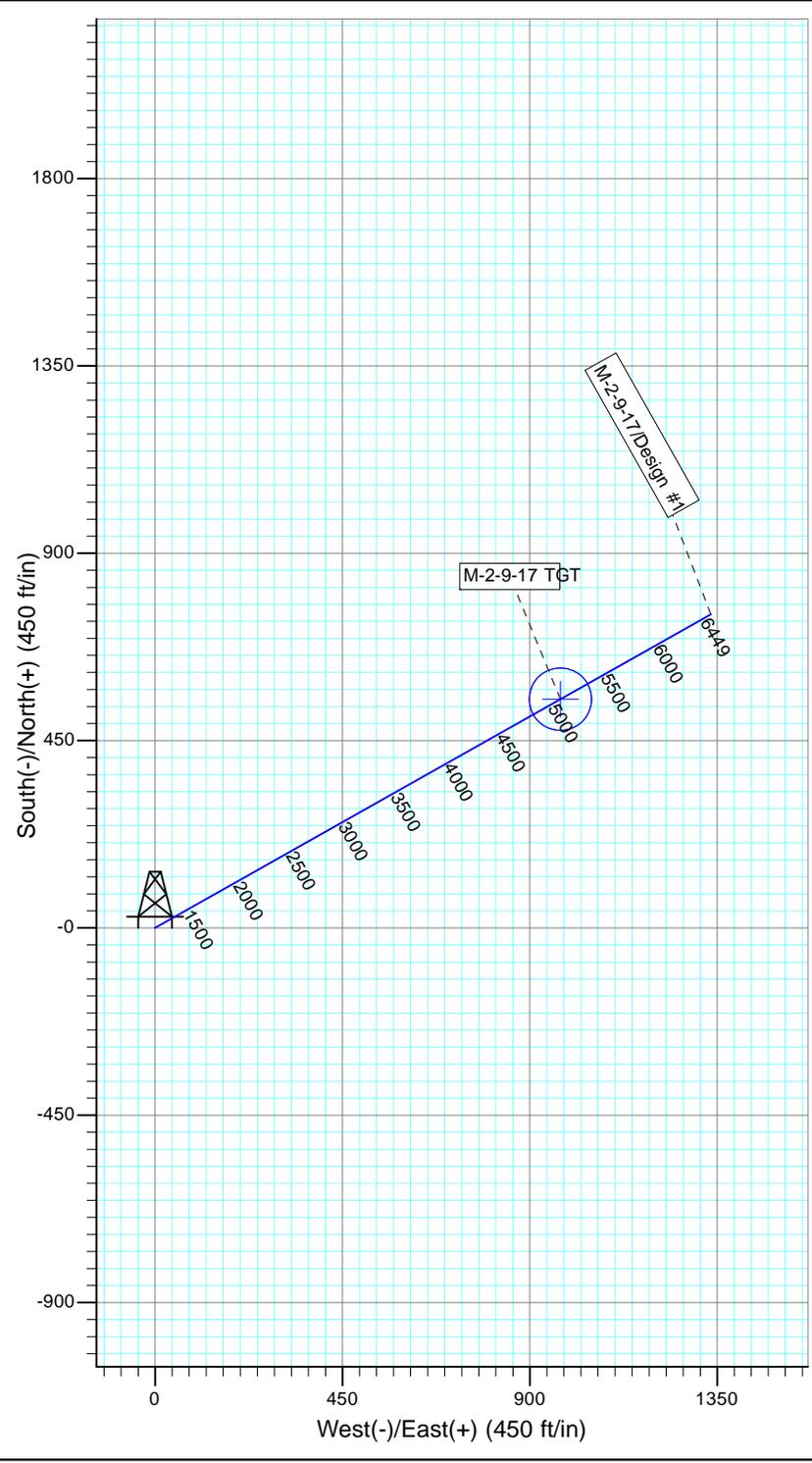
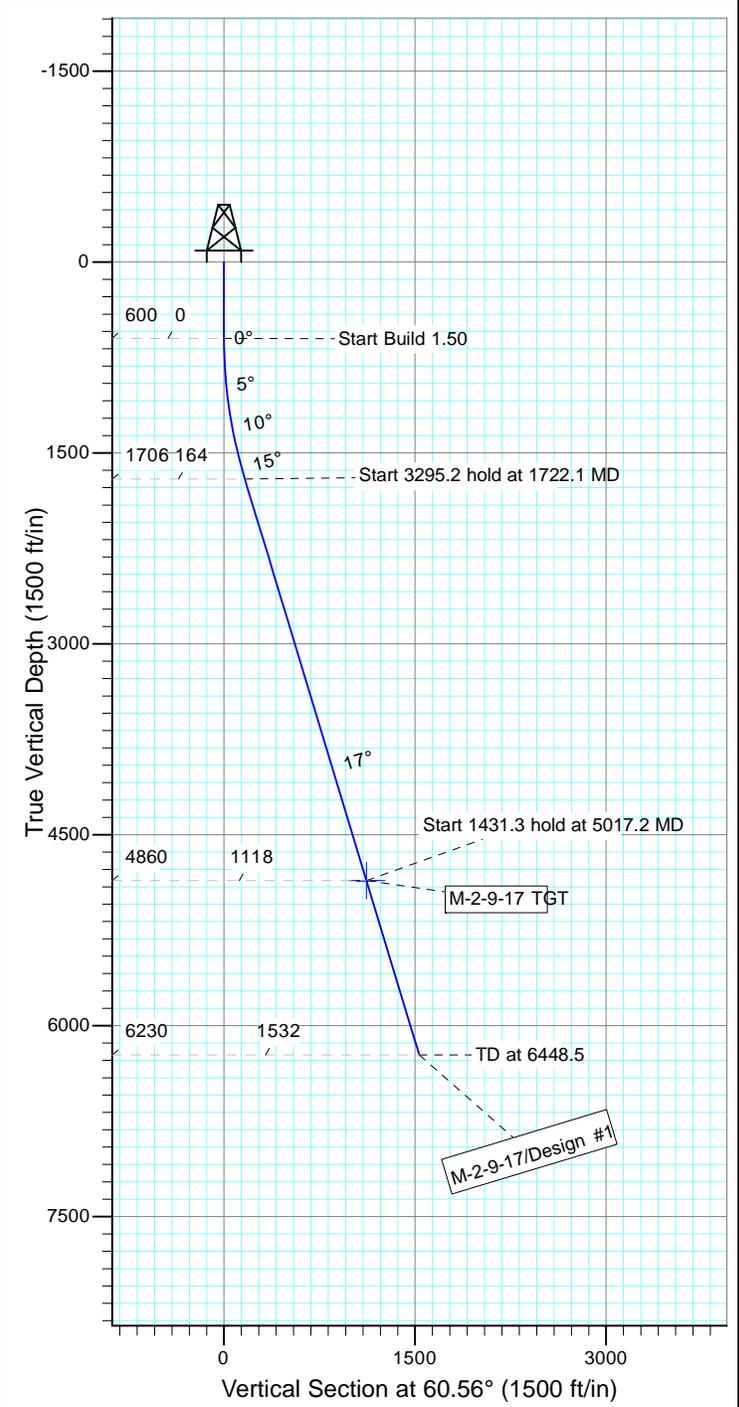
Project: USGS Myton SW (UT)
 Site: SECTION 2 T9S, R17E
 Well: M-2-9-17
 Wellbore: Wellbore #1
 Design: Design #1



Azimuths to True North
 Magnetic North: 11.21°

Magnetic Field
 Strength: 52236.2snT
 Dip Angle: 65.81°
 Date: 1/11/2012
 Model: IGRF2010

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



WELLBORE TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Shape
M-2-9-17 TGT	4860.0	549.4	973.4	Circle (Radius: 75.0)

SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	DLeg	TFace	VSec	Target
1	0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0	
2	600.0	0.00	0.00	600.0	0.0	0.0	0.00	0.00	0.0	
3	1722.1	16.83	60.56	1706.0	80.4	142.5	1.50	60.56	163.6	
4	5017.2	16.83	60.56	4860.0	549.4	973.4	0.00	0.00	1117.7	M-2-9-17 TGT
5	6448.5	16.83	60.56	6230.0	753.1	1334.3	0.00	0.00	1532.2	



**NEWFIELD PRODUCTION COMPANY
GMBU M-2-9-17
AT SURFACE: NE/SW SECTION 2, T9S, R17E
UINTAH 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-2-9-17 located in the NE 1/4 SW 1/4 Section 2, T9S, R17E, Uintah 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 - 11.6 miles \pm to it's junction with an existing road to the northeast; proceed northeasterly - 1.4 miles \pm to it's junction with an existing road to the southeast; proceed southeasterly - 0.7 miles \pm to it's junction the beginning of the access road to the existing 23-2T-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 23-2T-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 :**

Newfield Production Company requests 191' of buried water line be granted. The proposed pipelines Please refer to the Greater Monument Butte Green River Development SOP.

It is proposed that the disturbed area will be 30' wide to allow for construction of a proposed buried 10" steel water injection line, a buried 3" poly water return line, and a and a 14" surface flow line. It is proposed that the buried water lines will tie in to the existing pipeline infrastructure. **Refer to Topographic Map "C."** The proposed water pipelines will be buried in a 4-5' deep trench constructed with a trencher or backhoe for the length of the proposal. The equipment will run on the surface and not be flat bladed to minimize surface impacts to precious topsoil in these High Desert environments. The construction phase of the proposed water lines will last approximately (5) days.

In the event that the proposed well is converted to a water injection well, a Sundry Notice 3160-5 form will be applied for through the State of Utah Division of Oil Gas and Mining.

- 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.

Surface Flow Line

Newfield requests 228' of surface flow line be granted. The Surface Flow Line will consist of up to a 14" bundled pipe consisting of 2-2" poly glycol lines and 1-3" production line. For all new wells, Newfield. **Refer to Topographic Map "C"** for the proposed location of the proposed flow line. Flow lines will be tan and will be constructed using the following procedures:

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

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

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

Water Disposal

After first production, if the production water meets quality guidelines, it will be transported to the Ashley, Monument Butte, Jonah, South Wells Draw and Beluga water injection facilities by company or contract trucks. Subsequently, the produced water is injected into approved Class II wells to enhance Newfield's

secondary recovery project. Water not meeting quality criteria, will be disposed at Newfield's Pariette #4 disposal well (Sec. 7, T9S R19E), Federally approved surface disposal facilities or at a State of Utah approved surface disposal facilities.

Additional Surface Stipulations

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

Hazardous Material Declaration

Newfield Production Company guarantees that during the drilling and completion of the GMBU M-2-9-17, 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 M-2-9-17, 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: 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-2-9-17, Section 2, Township 9S, Range 17E: Lease ML-45555 Uintah 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.

5/23/12
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

23-2T-9-17 (Existing Well)

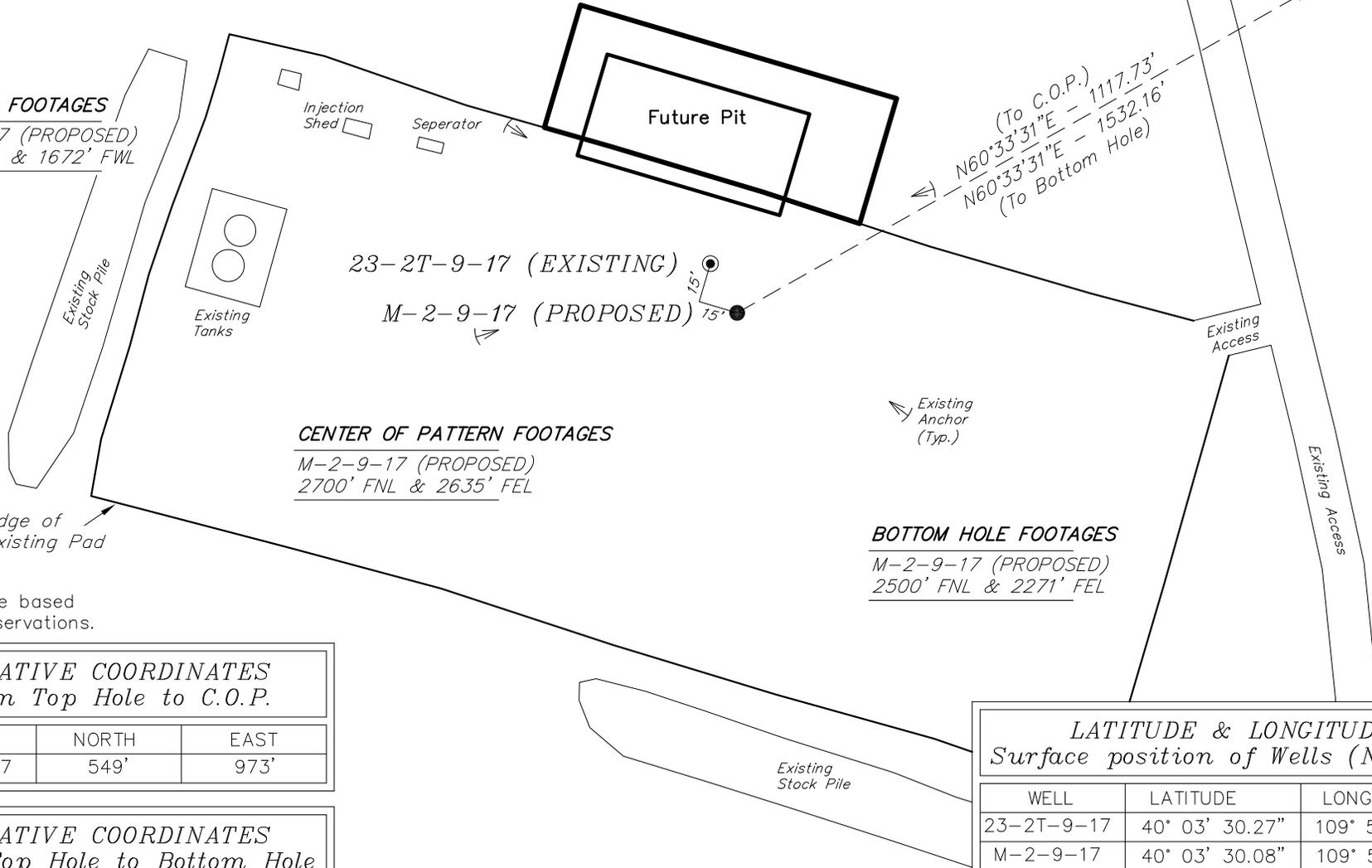
M-2-9-17 (Proposed Well)

Pad Location: *NESW Section 2, T9S, R17E, S.L.B.&M.*



TOP HOLE FOOTAGES

M-2-9-17 (PROPOSED)
2067' FSL & 1672' FWL



23-2T-9-17 (EXISTING)

M-2-9-17 (PROPOSED)

CENTER OF PATTERN FOOTAGES

M-2-9-17 (PROPOSED)
2700' FNL & 2635' FEL

BOTTOM HOLE FOOTAGES

M-2-9-17 (PROPOSED)
2500' FNL & 2271' FEL

Note:

Bearings are based on GPS Observations.

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

WELL	NORTH	EAST
M-2-9-17	549'	973'

*RELATIVE COORDINATES
From Top Hole to Bottom Hole*

WELL	NORTH	EAST
M-2-9-17	753'	1,334'

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

WELL	LATITUDE	LONGITUDE
23-2T-9-17	40° 03' 30.27"	109° 58' 38.43"
M-2-9-17	40° 03' 30.08"	109° 58' 38.31"

SURVEYED BY: C.D.S.	DATE SURVEYED: 09-26-11	VERSION:
DRAWN BY: M.W.	DATE DRAWN: 01-16-12	V1
SCALE: 1" = 60'	REVISED:	

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

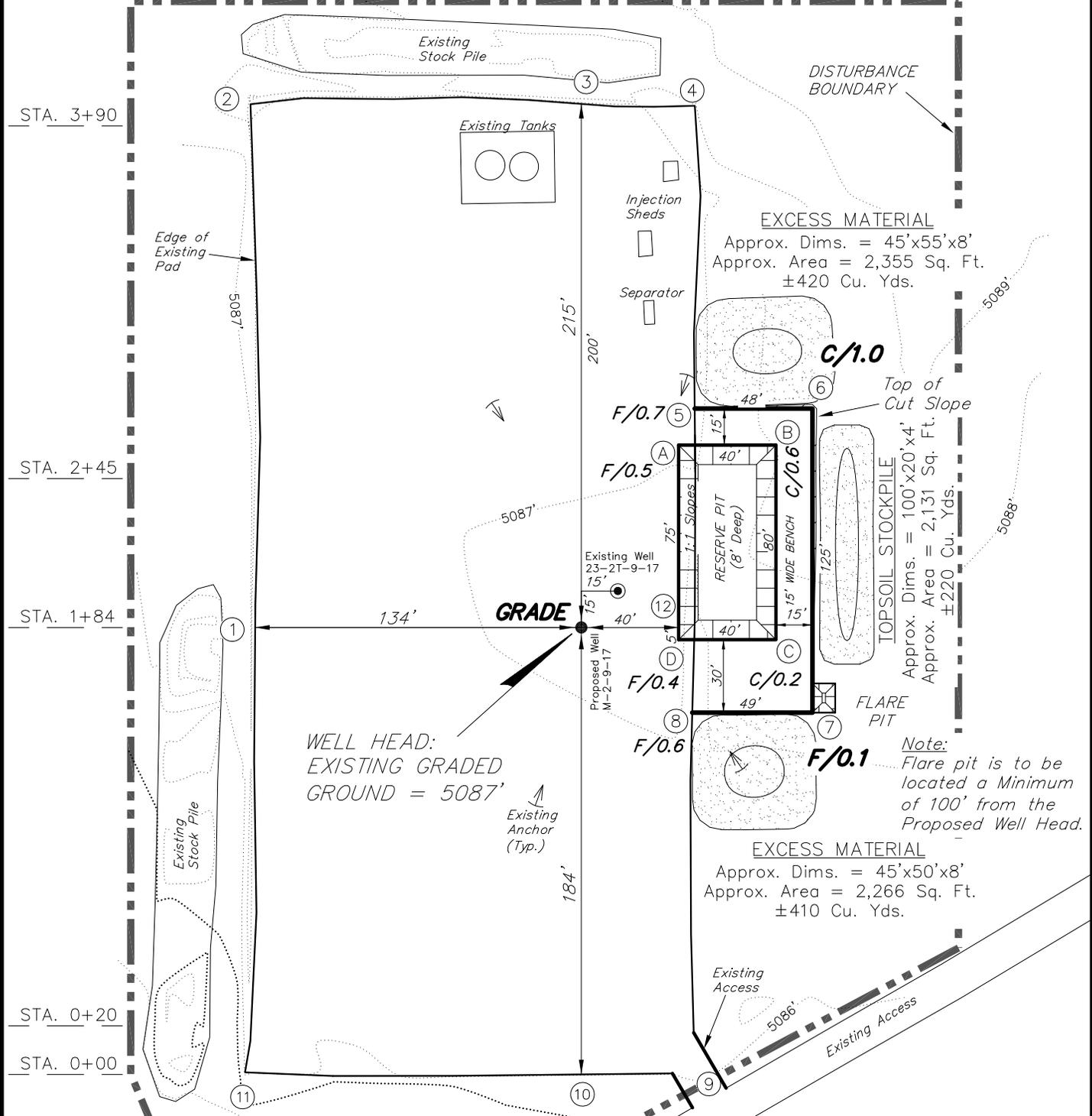
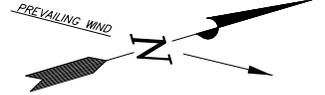
NEWFIELD EXPLORATION COMPANY

LOCATION LAYOUT

23-2T-9-17 (Existing Well)

M-2-9-17 (Proposed Well)

Pad Location: NESW Section 2, T9S, R17E, S.L.B.&M.



STA. 3+90

STA. 2+45

STA. 1+84

STA. 0+20

STA. 0+00

NOTE:
The topsoil & excess material areas are calculated as being mounds containing 1,050 cubic yards of dirt (a 10% fluff factor is included). The mound areas are calculated with push slopes of 1.5:1 & fall slopes of 1.5:1.

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

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

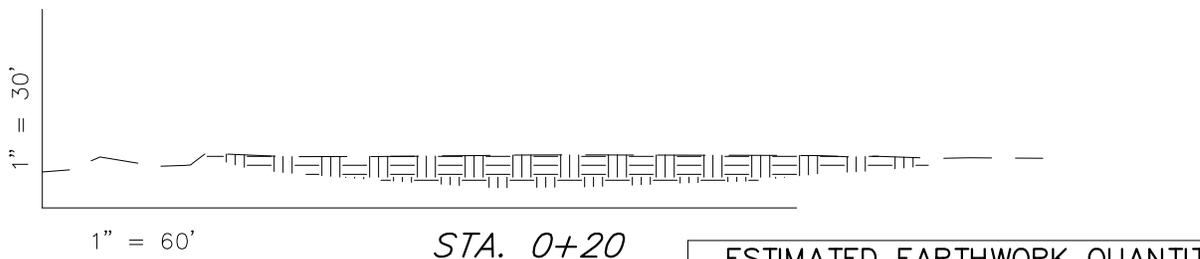
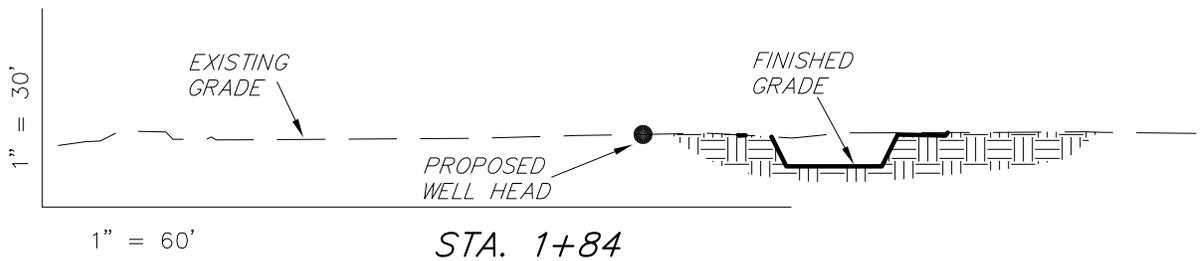
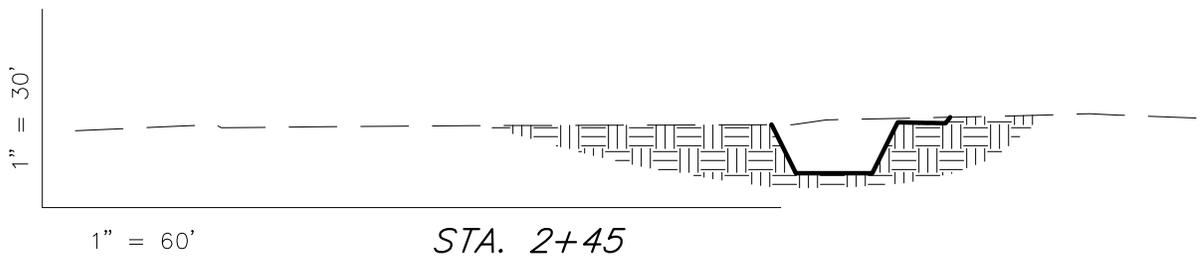
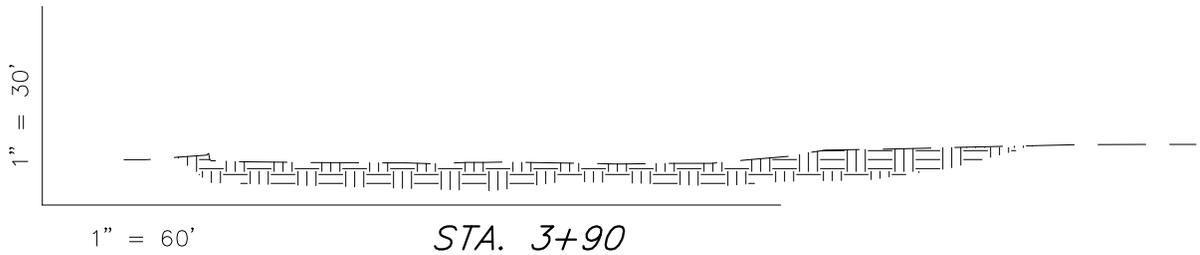
SURVEYED BY: C.D.S.	DATE SURVEYED: 9-26-11	VERSION: V1
DRAWN BY: R.B.T.	DATE DRAWN: 10-18-11	
SCALE: 1" = 60'	REVISED:	

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

NEWFIELD EXPLORATION COMPANY

CROSS SECTIONS
 23-2T-9-17 (Existing Well)
 M-2-9-17 (Proposed Well)

Pad Location: NESW Section 2, T9S, R17E, S.L.B.&M.



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

ESTIMATED EARTHWORK QUANTITIES (No Shrink or swell adjustments have been used) (Expressed in Cubic Yards)				
ITEM	CUT	FILL	6" TOPSOIL	EXCESS
PAD	80	20	Topsoil is not included in Pad Cut	60
PIT	690	0		690
TOTALS	770	20	200	750

SURVEYED BY: C.D.S.	DATE SURVEYED: 9-26-11	VERSION:
DRAWN BY: R.B.T.	DATE DRAWN: 10-18-11	V1
SCALE: 1" = 60'	REVISED:	

(435) 781-2501

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

United States Department of the Interior

BUREAU OF LAND MANAGEMENT

Utah State Office

P.O. Box 45155

Salt Lake City, Utah 84145-0155

IN REPLY REFER TO:

3160

(UT-922)

May 30, 2012

Memorandum

To: Assistant District Manager Minerals, Vernal District

From: Michael Coulthard, Petroleum Engineer

Subject: 2012 Plan of Development Greater Monument
Butte Unit, Duchesne and Uintah Counties,
Utah.

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

API #	WELL NAME	LOCATION
(Proposed PZ GREEN RIVER)		
43-047-52760	GMBU I-2-9-17	Sec 02 T09S R17E 1611 FNL 2296 FEL BHL Sec 02 T09S R17E 1194 FNL 1162 FEL
43-013-51447	GMBU N-16-9-16	Sec 16 T09S R16E 2111 FSL 1881 FWL BHL Sec 16 T09S R16E 2395 FNL 1187 FWL
43-047-52761	GMBU L-2-9-17	Sec 02 T09S R17E 1632 FNL 2290 FEL BHL Sec 02 T09S R17E 2335 FSL 1235 FEL
43-013-51448	GMBU G-16-9-16	Sec 16 T09S R16E 2081 FNL 0759 FWL BHL Sec 16 T09S R16E 1039 FNL 1598 FWL
43-047-52762	GMBU M-2-9-17	Sec 02 T09S R17E 2067 FSL 1672 FWL BHL Sec 02 T09S R17E 2500 FNL 2271 FEL
43-013-51449	GMBU Q-16-9-16	Sec 16 T09S R16E 2096 FSL 1866 FWL BHL Sec 16 T09S R16E 1252 FSL 0916 FWL

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

Michael L. Coulthard

Digitally signed by Michael L. Coulthard
DN: cn=Michael L. Coulthard, o=Bureau of Land Management,
ou=Branch of Minerals, email=Michael_Coulthard@blm.gov, c=US
Date: 2012.05.30 11:42:03 -0600

RECEIVED: May 30, 2012

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

MCoulthard:mc:5-30-12

VIA ELECTRONIC DELIVERY



May 31, 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 M-2-9-17
Greater Monument Butte (Green River) Unit

Surface Hole: T9S-R17E Section 2: NESW (ML-45555)
2067' FSL 1672' FWL

At Target: T9S-R17E Section 16: SWNE (ML-45555)
2500' FNL 2271' FEL

Uintah County, Utah

Dear Ms. Mason:

Pursuant to the filing by Newfield Production Company (NPC) of an Application for Permit to Drill the above referenced well dated 5/24/2012, 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. Your consideration in this matter is greatly appreciated.

Sincerely,
Newfield Production Company

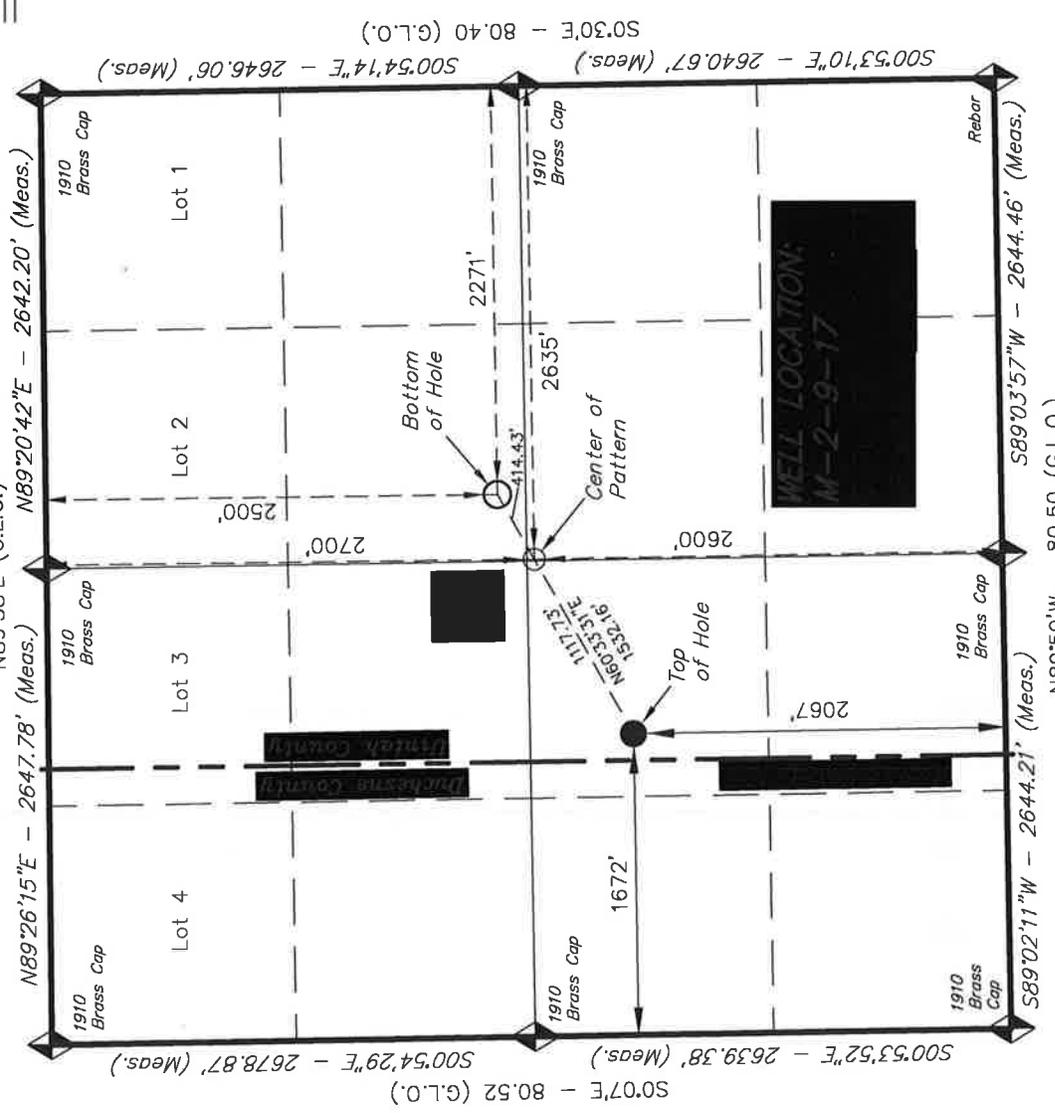
A handwritten signature in cursive script that reads "Leslie Burget".

Leslie Burget
Land Associate

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS AND MINING						FORM 3 AMENDED REPORT <input type="checkbox"/>				
APPLICATION FOR PERMIT TO DRILL						1. WELL NAME and NUMBER GMBU M-2-9-17				
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 <input checked="" type="checkbox"/> 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 mcrozler@newfield.com				
10. MINERAL LEASE NUMBER (FEDERAL, INDIAN, OR STATE) ML-45555			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		2067 FSL 1672 FWL		NESW	2	9.0 S	17.0 E	S		
Top of Uppermost Producing Zone		2443 FSL 2339 FWL		NESW	2	9.0 S	17.0 E	S		
At Total Depth		2500 FNL 2271 FEL		SWNE	2	9.0 S	17.0 E	S		
21. COUNTY UINTAH			22. DISTANCE TO NEAREST LEASE LINE (Feet) 2271			23. NUMBER OF ACRES IN DRILLING UNIT 20				
			25. DISTANCE TO NEAREST WELL IN SAME POOL (Applied For Drilling or Completed) 863			26. PROPOSED DEPTH MD: 6449 TVD: 6230				
27. ELEVATION - GROUND LEVEL 5087			28. BOND NUMBER B001834			29. SOURCE OF DRILLING WATER / WATER RIGHTS APPROVAL NUMBER IF APPLICABLE 437478				
Hole, Casing, and Cement Information										
String	Hole Size	Casing Size	Length	Weight	Grade & Thread	Max Mud Wt.	Cement	Sacks	Yield	Weight
Surf	12.25	8.625	0 - 300	24.0	J-55 ST&C	8.3	Class G	138	1.17	15.8
Prod	7.875	5.5	0 - 6449	15.5	J-55 LT&C	8.3	Premium Lite High Strength	307	3.26	11.0
							50/50 Poz	363	1.24	14.3
ATTACHMENTS										
VERIFY THE FOLLOWING ARE ATTACHED IN ACCORDANCE WITH THE UTAH OIL AND GAS CONSERVATION GENERAL RULES										
<input checked="" type="checkbox"/> WELL PLAT OR MAP PREPARED BY LICENSED SURVEYOR OR ENGINEER					<input checked="" type="checkbox"/> COMPLETE DRILLING PLAN					
<input type="checkbox"/> AFFIDAVIT OF STATUS OF SURFACE OWNER AGREEMENT (IF FEE SURFACE)					<input type="checkbox"/> FORM 5. IF OPERATOR IS OTHER THAN THE LEASE OWNER					
<input checked="" type="checkbox"/> DIRECTIONAL SURVEY PLAN (IF DIRECTIONALLY OR HORIZONTALLY DRILLED)					<input checked="" type="checkbox"/> TOPOGRAPHICAL MAP					
NAME Mandie Crozler			TITLE Regulatory Tech			PHONE 435 646-4825				
SIGNATURE			DATE 05/24/2012			EMAIL mcrozler@newfield.com				
API NUMBER ASSIGNED 43047527620000						APPROVAL				

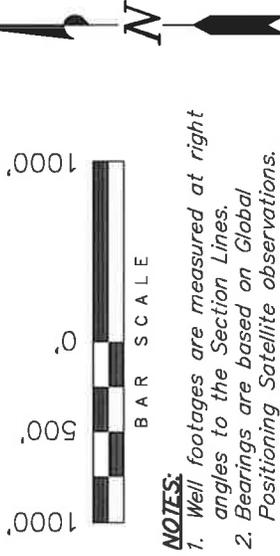
T9S, R17E, S.L.B.&M.

NEWFIELD EXPLORATION COMPANY



WELL LOCATION, M-2-9-17, LOCATED AS SHOWN IN THE NE 1/4 SW 1/4 OF SECTION 2, T9S, R17E, S.L.B.&M. UINTAH COUNTY, UTAH.

TARGET BOTTOM HOLE, M-2-9-17, LOCATED AS SHOWN IN THE SW 1/4 NE 1/4 OF SECTION 2, T9S, R17E, S.L.B.&M. UINTAH 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 PLAN WAS PREPARED FROM FIELD NOTES AND SURVEYS MADE BY ME OR UNDER MY SUPERVISION AND THAT THE SAME ARE TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.

STACY W. REGISTERED LAND SURVEYOR REGISTRATION NO. 01-20-12 STATE OF UTAH

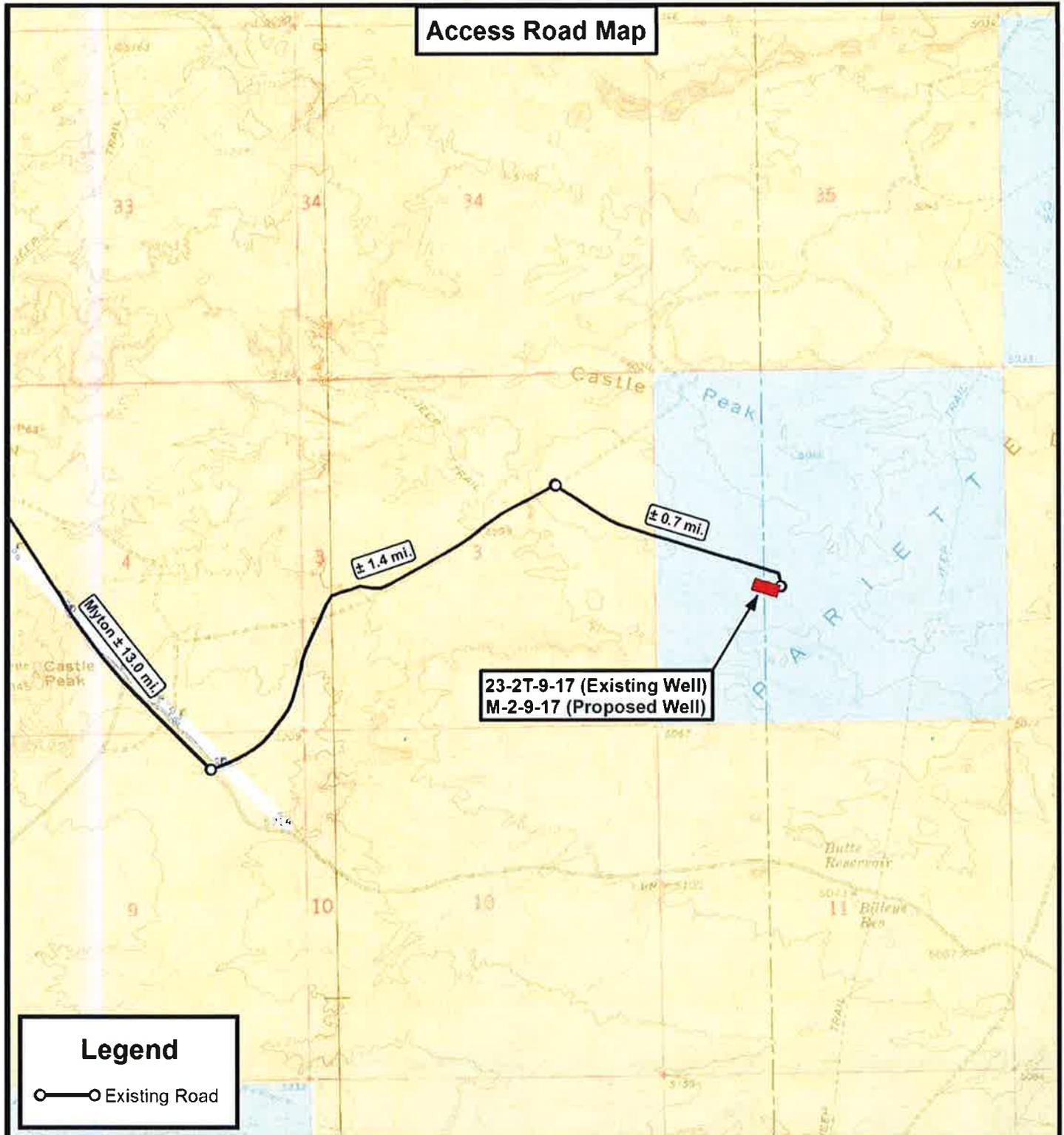
TRI STATE LAND SURVEYING & CONSULTING
180 NORTH VERNAL AVE. - VERNAL, UTAH 84078
(435) 781-2501

DATE SURVEYED: 09-26-11	SURVEYED BY: C.D.S.	VERSION:
DATE DRAWN: 01-16-12	DRAWN BY: M.W.	V1
REVISED:	SCALE: 1" = 1000'	

M-2-9-17
(Surface Location) NAD 83
LATITUDE = 40° 03' 30.08"
LONGITUDE = 109° 58' 38.31"

◆ = 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'

Received: May 24, 2012



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

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

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



NEWFIELD EXPLORATION COMPANY

23-2T-9-17 (Existing Well)
M-2-9-17 (Proposed Well)
SEC. 2, T9S, R17E, S.L.B.&M.
Uintah County, UT.

DRAWN BY:	A.P.C.	REVISED:	VERSION:
DATE:	01-19-2012		V1
SCALE:	1" = 2,000'		

TOPOGRAPHIC MAP

SHEET
B

Received: May 24, 2012

Well Name	NEWFIELD PRODUCTION COMPANY GMBU M-2-9-17 4304752762000			
String	Surf	Prod		
Casing Size(")	8.625	5.500		
Setting Depth (TVD)	300	6230		
Previous Shoe Setting Depth (TVD)	0	300		
Max Mud Weight (ppg)	8.3	8.4		
BOPE Proposed (psi)	500	2000		
Casing Internal Yield (psi)	2950	4810		
Operators Max Anticipated Pressure (psi)	2773	8.6		

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

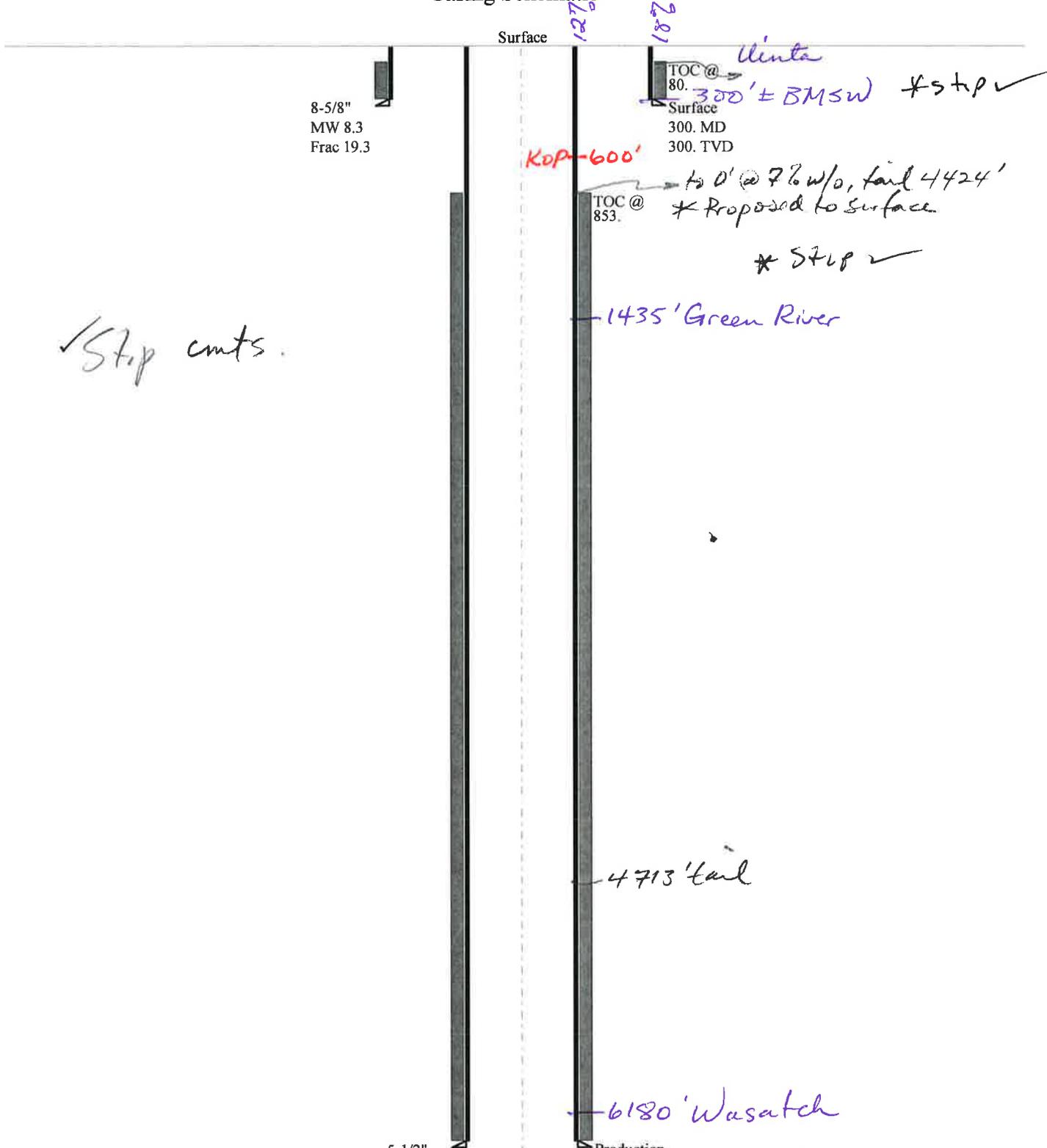
Calculations	Prod String	5.500	"
Max BHP (psi)	.052*Setting Depth*MW=	2721	
			BOPE Adequate For Drilling And Setting Casing at Depth?
MASP (Gas) (psi)	Max BHP-(0.12*Setting Depth)=	1973	YES <input type="checkbox"/>
MASP (Gas/Mud) (psi)	Max BHP-(0.22*Setting Depth)=	1350	YES <input type="checkbox"/> OK
			*Can Full Expected Pressure Be Held At Previous Shoe?
Pressure At Previous Shoe	Max BHP-.22*(Setting Depth - Previous Shoe Depth)=	1416	NO <input type="checkbox"/> OK
Required Casing/BOPE Test Pressure=		2000	psi
*Max Pressure Allowed @ Previous Casing Shoe=		300	psi *Assumes 1psi/ft frac gradient

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

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

43047527620000 GMBU M-2-9-17

Casing Schematic



✓ Stop cmts.

Production	2067 SL	1672 WL	
6449. MD	753	1334	
6230. TVD	<u>2820</u>	<u>3006</u>	
	5300	5288	
	<u>2480 FNL</u>	<u>2282 FEL</u>	ok. ✓
	SW NE sec 2-9S-17E		count

Well name:	43047527620000 GMBU M-2-9-17		
Operator:	NEWFIELD PRODUCTION COMPANY		
String type:	Surface	Project ID:	43-047-52762
Location:	UINTAH COUNTY		

Design parameters:**Collapse**

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

Burst

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

No backup mud specified.

Minimum design factors:**Collapse:**

Design factor 1.125

Burst:

Design factor 1.00

Tension:

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

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

Environment:

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

Cement top: 80 ft

Completion type is subs
Non-directional string.

Re subsequent strings:

Next setting depth: 6,230 ft
Next mud weight: 8.400 ppg
Next setting BHP: 2,719 psi
Fracture mud wt: 19.250 ppg
Fracture depth: 300 ft
Injection pressure: 300 psi

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

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

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

Date: August 16, 2012
Salt Lake City, Utah

Remarks:

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

Burst strength is not adjusted for tension.

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

Well name:	43047527620000 GMBU M-2-9-17		
Operator:	NEWFIELD PRODUCTION COMPANY		
String type:	Production	Project ID:	43-047-52762
Location:	UINTAH COUNTY		

Design parameters:**Collapse**

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

Burst

Max anticipated surface pressure: 1,348 psi
Internal gradient: 0.220 psi/ft
Calculated BHP: 2,719 psi

No backup mud specified.

Minimum design factors:**Collapse:**

Design factor: 1.125

Burst:

Design factor: 1.00

Tension:

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

Tension is based on air weight.
Neutral point: 5,622 ft

Environment:

H2S considered? No
Surface temperature: 74 °F
Bottom hole temperature: 161 °F
Temperature gradient: 1.40 °F/100ft
Minimum section length: 100 ft

Cement top: 853 ft

Completion type is subs

Directional Info - Build & Hold

Kick-off point: 600 ft
Departure at shoe: 1532 ft
Maximum dogleg: 1.5 °/100ft
Inclination at shoe: 16.83 °

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	6449	5.5	15.50	J-55	LT&C	6230	6449	4.825	22771
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	2719	4040	1.486	2719	4810	1.77	96.6	217	2.25 J

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

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

Date: August 16, 2012
Salt Lake City, Utah

Remarks:

Collapse is based on a vertical depth of 6230 ft, a mud weight of 8.4 ppg. The casing is considered to be evacuated for collapse purposes. Collapse strength is based on the Westcott, Dunlop & Kemler method of biaxial correction for tension.

Burst strength is not adjusted for tension.

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

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

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

APD No	API WellNo	Status	Well Type	Surf Owner	CBM
6062	43047527620000	SITLA	OW	S	No
Operator	NEWFIELD PRODUCTION COMPANY		Surface Owner-APD		
Well Name	GMBU M-2-9-17	Unit		GMBU (GRRV)	
Field	MONUMENT BUTTE	Type of Work		DRILL	
Location	NESW 2 9S 17E S 2067 FSL 1672 FWL GPS Coord (UTM) 587223E 4434734N				

Geologic Statement of Basis

Newfield proposes to set 300' of surface casing at this location. The the base of the moderately saline water at this location is estimated to be at approximately 300 feet. A search of Division of Water Rights records shows no water wells within a 10,000 foot radius of the center of Section 2. 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 programs should adequately protect ground water in the area.

Brad Hill
APD Evaluator

6/19/2012
Date / Time

Surface Statement of Basis

This is a new hole on an existing pad. The original SOB follows;

The proposed location is in the Castle Peak area, which is a sub-drainages of the Pariette Draw drainage of Uintah County. Pariette Draw contains a perennial stream somewhat consisting of irrigation runoff and seepage. Pariette Draw runs into the Green River approximately 6 miles downstream from Ouray, Ut and about 12 miles downstream from the location. Broad flats characterize the area with those to the north frequently used for agriculture. Flats are intersected by drainages with gentle to moderate side-slopes. Slopes become steeper and deeper as they approach Pariette Draw. Occasional seeps occur in the draws. Access to the area from Myton, Utah is following State of Utah Hwy. 40 and Duchesne County and oil field development roads a distance of 16 miles. New construction of 250 feet will be required.

The Castle Draw State #11-2T-9-17 proposed gas well location is on a flat with a slight slope to the southeast toward a drainage to the south. This drainage runs east to west. An existing road is to the north and east and a plugged well on a reclaimed site to the southeast. No diversions are needed. The well is a deep gas well with a proposed depth of 16, 200 feet. The proposed site appears to be a suitable location for constructing a pad and drilling and operating a well.

Both the surface and minerals are owned by SITLA.

Ben Williams representing the Utah Division of Wildlife resources stated there are no significant wildlife concerns in the area. Mr. Williams gave Mr. Allred of Newfield

Production Company and Mr. Davis a copy of this evaluation and also a seed mix recommendation to be used when the reserve pit and location are reclaimed.

Chris Jensen
Onsite Evaluator

6/8/2012
Date / Time

Conditions of Approval / Application for Permit to Drill

Category	Condition
Pits	A synthetic liner with a minimum thickness of 16 mils shall be properly installed and maintained in the reserve pit.
Surface	The reserve pit shall be fenced upon completion of drilling operations.
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.

WORKSHEET APPLICATION FOR PERMIT TO DRILL

APD RECEIVED: 5/24/2012

API NO. ASSIGNED: 43047527620000

WELL NAME: GMBU M-2-9-17

OPERATOR: NEWFIELD PRODUCTION COMPANY (N2695)

PHONE NUMBER: 435 646-4825

CONTACT: Mandie Crozier

PROPOSED LOCATION: NESW 02 090S 170E

Permit Tech Review:

SURFACE: 2067 FSL 1672 FWL

Engineering Review:

BOTTOM: 2500 FNL 2271 FEL

Geology Review:

COUNTY: UINTAH

LATITUDE: 40.05835

LONGITUDE: -109.97731

UTM SURF EASTINGS: 587223.00

NORTHINGS: 4434734.00

FIELD NAME: MONUMENT BUTTE

LEASE TYPE: 3 - State

LEASE NUMBER: ML-45555

PROPOSED PRODUCING FORMATION(S): GREEN RIVER

SURFACE OWNER: 3 - State

COALBED METHANE: NO

RECEIVED AND/OR REVIEWED:

- PLAT
- Bond: STATE/FEE - B001834
- Potash
- Oil Shale 190-5
- Oil Shale 190-3
- Oil Shale 190-13
- Water Permit: 437478
- RDCC Review:
- Fee Surface Agreement
- Intent to Commingle

Commingle Approved

LOCATION AND SITING:

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

Comments: Presite Completed

Stipulations: 5 - Statement of Basis - bhill
 12 - Cement Volume (3) - hmacdonald
 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 M-2-9-17
API Well Number: 43047527620000
Lease Number: ML-45555
Surface Owner: STATE
Approval Date: 11/29/2012

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).

Cement volume for the 5 1/2 production string shall be determined from actual hole diameter in order to place cement from the pipe setting depth back to 0' MD as indicated in the submitted drilling plan.

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

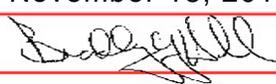
STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING	FORM 9
5. LEASE DESIGNATION AND SERIAL NUMBER: ML-45555	
SUNDRY NOTICES AND REPORTS ON WELLS	
Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.	
6. IF INDIAN, ALLOTTEE OR TRIBE NAME:	
7. UNIT or CA AGREEMENT NAME: GMBU (GRRV)	
1. TYPE OF WELL Oil Well	
8. WELL NAME and NUMBER: GMBU M-2-9-17	
2. NAME OF OPERATOR: NEWFIELD PRODUCTION COMPANY	
9. API NUMBER: 43047527620000	
3. ADDRESS OF OPERATOR: Rt 3 Box 3630 , Myton, UT, 84052	
PHONE NUMBER: 435 646-4825 Ext	
9. FIELD and POOL or WILDCAT: MONUMENT BUTTE	
4. LOCATION OF WELL FOOTAGES AT SURFACE: 2067 FSL 1672 FWL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: NESW Section: 02 Township: 09.0S Range: 17.0E Meridian: S	
COUNTY: UINTAH	
STATE: UTAH	

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

TYPE OF SUBMISSION	TYPE OF ACTION		
<input checked="" type="checkbox"/> NOTICE OF INTENT Approximate date work will start: 11/29/2013	<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 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 checked="" type="checkbox"/> APD EXTENSION
	<input type="checkbox"/> WILDCAT WELL DETERMINATION	<input type="checkbox"/> OTHER	OTHER: <input style="width: 100px;" type="text"/>

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

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

Approved by the Utah Division of Oil, Gas and Mining
Date: November 18, 2013
By: 

NAME (PLEASE PRINT) Mandie Crozier	PHONE NUMBER 435 646-4825	TITLE Regulatory Tech
SIGNATURE N/A	DATE 11/12/2013	



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 43047527620000

API: 43047527620000

Well Name: GMBU M-2-9-17

Location: 2067 FSL 1672 FWL QTR NESW SEC 02 TWNP 090S RNG 170E MER S

Company Permit Issued to: NEWFIELD PRODUCTION COMPANY

Date Original Permit Issued: 11/29/2012

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

- If located on private land, has the ownership changed, if so, has the surface agreement been updated? Yes No

- Have any wells been drilled in the vicinity of the proposed well which would affect the spacing or siting requirements for this location? Yes No

- Has there been any unit or other agreements put in place that could affect the permitting or operation of this proposed well? Yes No

- Have there been any changes to the access route including ownership, or rightof- way, which could affect the proposed location? Yes No

- Has the approved source of water for drilling changed? Yes No

- Have there been any physical changes to the surface location or access route which will require a change in plans from what was discussed at the onsite evaluation? Yes No

- Is bonding still in place, which covers this proposed well? Yes No

Signature: Mandie Crozier

Date: 11/12/2013

Title: Regulatory Tech Representing: NEWFIELD PRODUCTION COMPANY

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		FORM 9
SUNDRY NOTICES AND REPORTS ON WELLS 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.		5. LEASE DESIGNATION AND SERIAL NUMBER: ML-45555
		6. IF INDIAN, ALLOTTEE OR TRIBE NAME:
1. TYPE OF WELL Oil Well		7. UNIT or CA AGREEMENT NAME: GMBU (GRRV)
2. NAME OF OPERATOR: NEWFIELD PRODUCTION COMPANY		8. WELL NAME and NUMBER: GMBU M-2-9-17
3. ADDRESS OF OPERATOR: Rt 3 Box 3630 , Myton, UT, 84052		9. API NUMBER: 43047527620000
PHONE NUMBER: 435 646-4825 Ext		9. FIELD and POOL or WILDCAT: MONUMENT BUTTE
4. LOCATION OF WELL FOOTAGES AT SURFACE: 1805 FSL 2226 FEL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: NWSE Section: 02 Township: 09.0S Range: 17.0E Meridian: S		COUNTY: UINTAH
		STATE: UTAH

11.

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

TYPE OF SUBMISSION	TYPE OF ACTION		
<input checked="" type="checkbox"/> NOTICE OF INTENT Approximate date work will start: 11/18/2013	<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 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="Change to original APD"/>

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

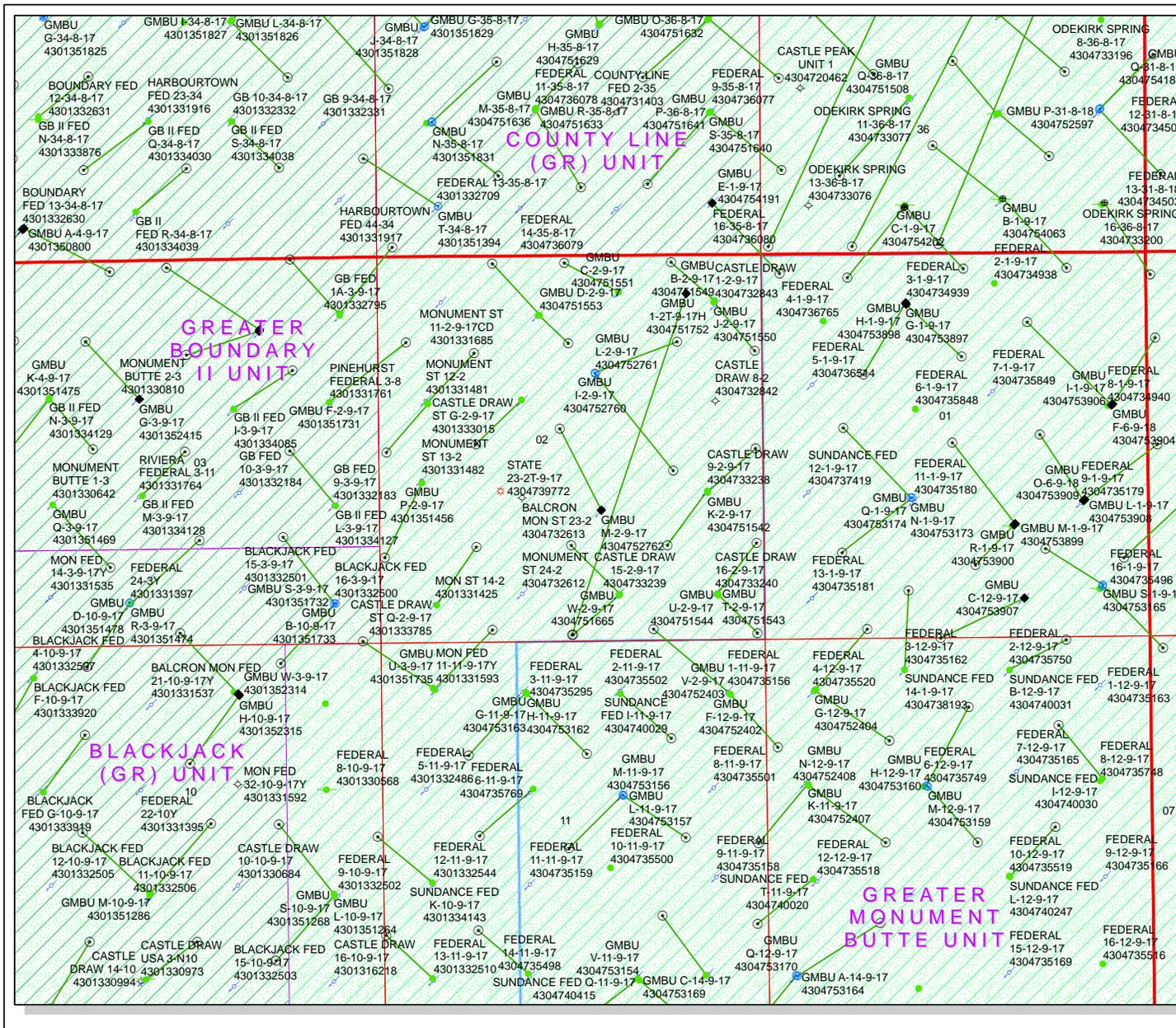
Since submission and approval of the GMBU M-2-9-17, there has been a change of plans for the host well location. The newly proposed surface host well location will be the existing 10-2R-9-17. The revised APD package is attached.

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

Date: November 26, 2013

By: 

NAME (PLEASE PRINT) Mandie Crozier	PHONE NUMBER 435 646-4825	TITLE Regulatory Tech
SIGNATURE N/A	DATE 11/18/2013	

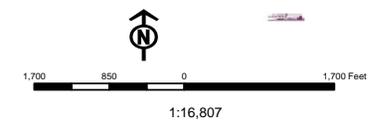


API Number: 4304752762
Well Name: GMBU M-2-9-17

Township: T09.0S Range: R17.0E Section: 02 Meridian: S
 Operator: NEWFIELD PRODUCTION COMPANY

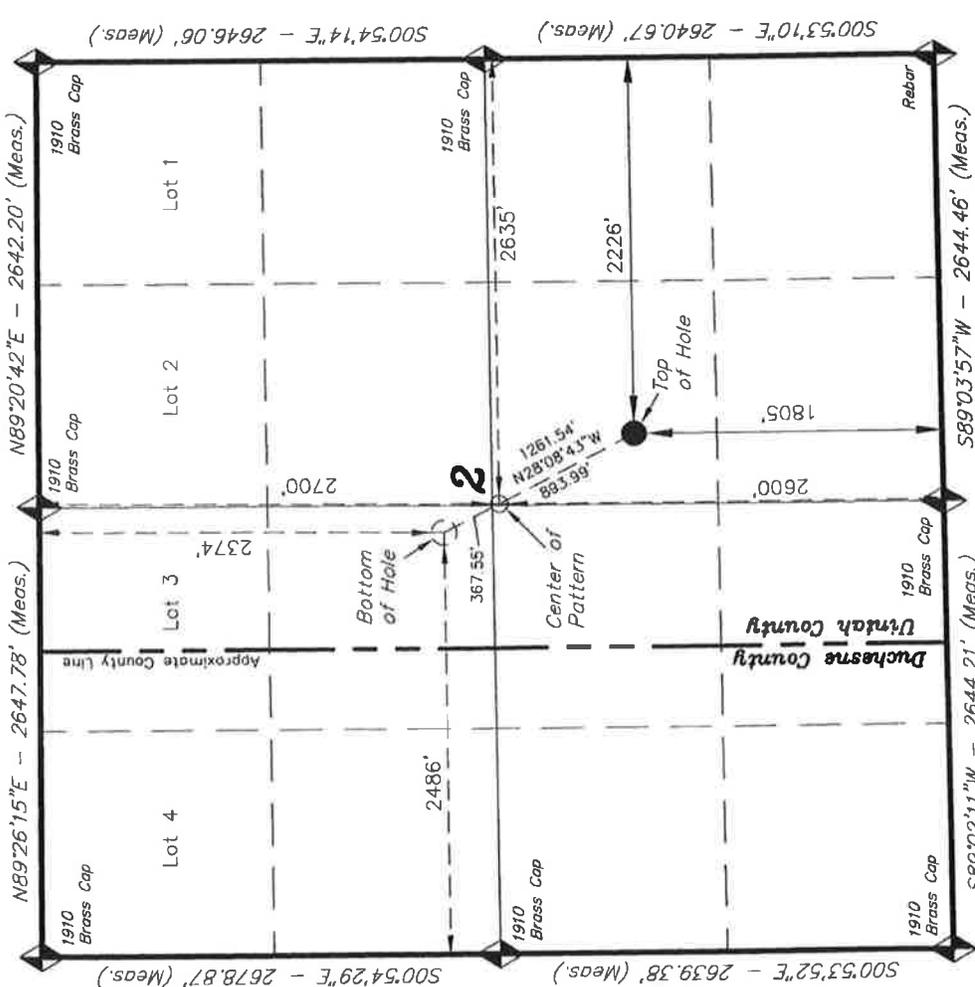
Map Prepared: 11/21/2013
 Map Produced by Diana Mason

Wells Query		Units	
	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
	SGW - Shut-in Oil Well		TERMINATED
	TA - Temp. Abandoned		
	TW - Test Well		
	WDW - Water Disposal		
	WW - Water Injection Well		
	WSW - Water Supply Well		



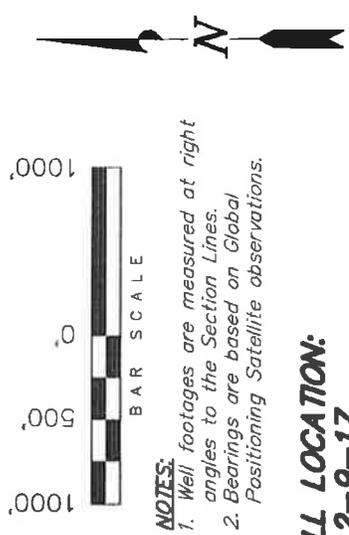
T9S, R17E, S.L.B.&M.

NEWFIELD EXPLORATION COMPANY



WELL LOCATION, M-2-9-17, LOCATED AS SHOWN IN THE NW 1/4 SE 1/4 OF SECTION 2, T9S, R17E, S.L.B.&M. UINTAH COUNTY, UTAH.

TARGET BOTTOM HOLE, M-2-9-17, LOCATED AS SHOWN IN THE SE 1/4 NW 1/4 OF SECTION 2, T9S, R17E, S.L.B.&M. UINTAH COUNTY, UTAH.



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

WELL LOCATION:
M-2-9-17
 ELEV. EXIST. GRADED GROUND = 5051'

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

REGISTERED LAND SURVEYOR
 REGISTRATION NO. 08-20-13
 STACY W. REED
 STATE OF UTAH

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

DATE SURVEYED:	08-01-13	SURVEYED BY:	C.S.	VERSION:	
DATE DRAWN:	08-20-13	DRAWN BY:	F.T.M.		V1
REVISED:		SCALE:	1" = 1000'		

NAD 83 (SURFACE LOCATION)	LATITUDE = 40°03'27.49"
	LONGITUDE = 109°58'20.42"
NAD 27 (SURFACE LOCATION)	LATITUDE = 40°03'27.62"
	LONGITUDE = 109°58'17.88"
NAD 83 (CENTER OF PATTERN)	LATITUDE = 40°03'35.34"
	LONGITUDE = 109°58'25.67"
NAD 27 (CENTER OF PATTERN)	LATITUDE = 40°03'35.48"
	LONGITUDE = 109°58'23.14"
NAD 83 (BOTTOM HOLE LOCATION)	LATITUDE = 40°03'38.57"
	LONGITUDE = 109°58'27.83"
NAD 27 (BOTTOM HOLE LOCATION)	LATITUDE = 40°03'38.71"
	LONGITUDE = 109°58'25.29"

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'

NEWFIELD PRODUCTION COMPANY
GMBU M-2-9-17
AT SURFACE: NW/SE SECTION 2, T9S R17E
UINTAH 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' – 3710'
Green River	3710'
Wasatch	6115'
Proposed TD	6572'

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

Green River Formation (Oil) 3710' – 6115'

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 ₃) (mg/l)
Dissolved Bicarbonate (NaHCO ₃) (mg/l)	Dissolved Chloride (Cl) (mg/l)
Dissolved Sulfate (SO ₄) (mg/l)	Dissolved Total Solids (TDS) (mg/l)

4. **PROPOSED CASING PROGRAM**

a. **Casing Design: GMBU M-2-9-17**

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	1,370	244,000
						17.53	14.35	33.89
Prod casing 5-1/2"	0'	6,572'	15.5	J-55	LTC	4,810	4,040	217,000
						2.30	1.93	2.13

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-2-9-17**

Job	Fill	Description	Sacks	OH Excess*	Weight (ppg)	Yield (ft ³ /sk)
			ft ³			
Surface casing	300'	Class G w/ 2% CaCl	138	30%	15.8	1.17
			161			
Prod casing Lead	4,572'	Prem Lite II w/ 10% gel + 3% KCl	316	30%	11.0	3.26
			1030			
Prod casing Tail	2,000'	50/50 Poz w/ 2% gel + 3% KCl	363	30%	14.3	1.24
			451			

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

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

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

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

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

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

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

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

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

From surface to ± 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 ± 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 PBD to cement top. No drill stem testing or coring is planned for this well.

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

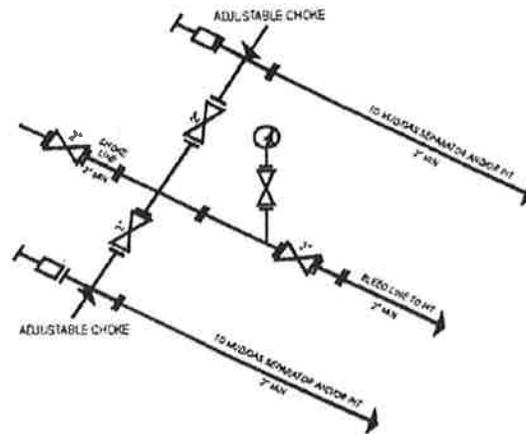
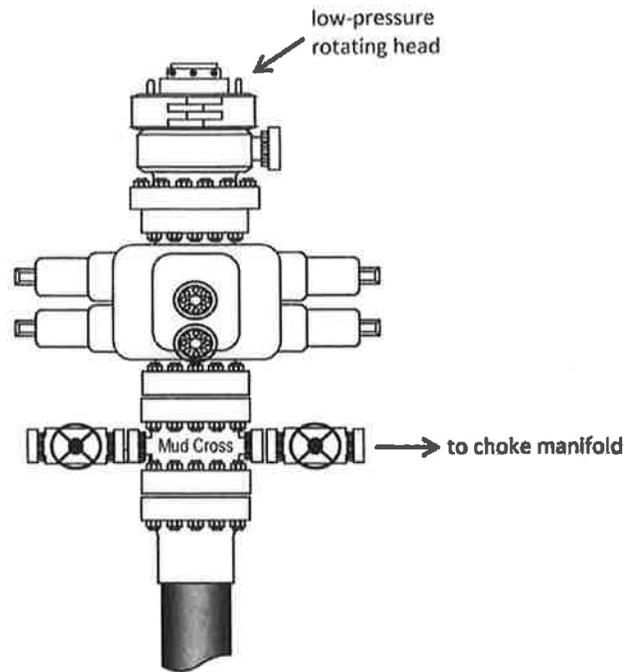
No abnormal temperatures or pressures are anticipated. No hydrogen sulfide has been encountered or is known to exist from previous drilling in the area at this depth. Maximum anticipated

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 2014, and take approximately seven (7) days from spud to rig release.

Typical 2M BOP stack configuration



2M CHOKE MANIFOLD EQUIPMENT - CONFIGURATION OF CHOKES MAY VARY

NEWFIELD



NEWFIELD EXPLORATION

USGS Myton SW (UT)

SECTION 2 T9S, R17E

M-2-9-17

Wellbore #1

Plan: Design #1

Standard Planning Report

20 August, 2013





Payzone Directional
Planning Report



Database:	EDM 2003.21 Single User Db	Local Co-ordinate Reference:	Well M-2-9-17
Company:	NEWFIELD EXPLORATION	TVD Reference:	M-2-9-17 @ 5061.0ft (Newfield Rig)
Project:	USGS Myton SW (UT)	MD Reference:	M-2-9-17 @ 5061.0ft (Newfield Rig)
Site:	SECTION 2 T9S, R17E	North Reference:	True
Well:	M-2-9-17	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #1		

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

Site	SECTION 2 T9S, R17E, SEC 2 T9S, R17E		
Site Position:	Northing:	7,194,800.00 ft	Latitude: 40° 3' 41.746 N
From:	Easting:	2,067,293.09 ft	Longitude: 109° 58' 29.067 W
Position Uncertainty:	0.0 ft	Slot Radius: "	Grid Convergence: 0.98 °

Well	M-2-9-17, SHL LAT: 40 03 27.49 LONG: -109 58 20.42		
Well Position	+N-S	-1,442.4 ft	Northing: 7,193,369.26 ft
	+E-W	672.3 ft	Easting: 2,067,989.91 ft
Position Uncertainty	0.0 ft	Wellhead Elevation:	5,081.0 ft
		Ground Level:	5,051.0 ft

Wellbore	Wellbore #1				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	1/11/2012	11.21	65.81	52,237

Design	Design #1			
Audit Notes:				
Version:	Phase:	PROTOTYPE	Tie On Depth:	0.0
Vertical Section:	Depth From (TVD) (ft)	+N-S (ft)	+E-W (ft)	Direction (°)
	0.0	0.0	0.0	332.81

Plan Sections										
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	
1,478.4	13.18	331.85	1,470.7	88.7	-47.4	1.50	1.50	0.00	331.85	
4,959.4	13.18	331.85	4,860.0	788.2	-421.8	0.00	0.00	0.00	0.00	M-2-9-17 TGT
6,571.8	13.18	331.85	6,430.0	1,112.3	-595.2	0.00	0.00	0.00	0.00	



Payzone Directional
Planning Report



Database: EDM 2003.21 Single User Db
Company: NEWFIELD EXPLORATION
Project: USGS Myton SW (UT)
Site: SECTION 2 T9S, R17E
Well: M-2-9-17
Wellbore: Wellbore #1
Design: Design #1

Local Co-ordinate Reference: Well M-2-9-17
TVD Reference: M-2-9-17 @ 5061.0ft (Newfield Rig)
MD Reference: M-2-9-17 @ 5061.0ft (Newfield Rig)
North Reference: True
Survey Calculation Method: Minimum Curvature

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	
Start Build 1.50										
700.0	1.50	331.85	700.0	1.2	-0.6	1.3	1.50	1.50	0.00	
800.0	3.00	331.85	799.9	4.6	-2.5	5.2	1.50	1.50	0.00	
900.0	4.50	331.85	899.7	10.4	-5.6	11.8	1.50	1.50	0.00	
1,000.0	6.00	331.85	999.3	18.4	-9.9	20.9	1.50	1.50	0.00	
1,100.0	7.50	331.85	1,098.6	28.8	-15.4	32.7	1.50	1.50	0.00	
1,200.0	9.00	331.85	1,197.5	41.5	-22.2	47.0	1.50	1.50	0.00	
1,300.0	10.50	331.85	1,296.1	56.4	-30.2	64.0	1.50	1.50	0.00	
1,400.0	12.00	331.85	1,394.2	73.6	-39.4	83.5	1.50	1.50	0.00	
1,478.4	13.18	331.85	1,470.7	88.7	-47.4	100.5	1.50	1.50	0.00	
Start 3481.0 hold at 1478.4 MD										
1,500.0	13.18	331.85	1,491.7	93.0	-49.8	105.5	0.00	0.00	0.00	
1,600.0	13.18	331.85	1,589.1	113.1	-60.5	128.3	0.00	0.00	0.00	
1,700.0	13.18	331.85	1,686.4	133.2	-71.3	151.0	0.00	0.00	0.00	
1,800.0	13.18	331.85	1,783.8	153.3	-82.0	173.8	0.00	0.00	0.00	
1,900.0	13.18	331.85	1,881.2	173.4	-92.8	196.6	0.00	0.00	0.00	
2,000.0	13.18	331.85	1,978.5	193.5	-103.5	219.4	0.00	0.00	0.00	
2,100.0	13.18	331.85	2,075.9	213.6	-114.3	242.2	0.00	0.00	0.00	
2,200.0	13.18	331.85	2,173.3	233.7	-125.0	265.0	0.00	0.00	0.00	
2,300.0	13.18	331.85	2,270.7	253.8	-135.8	287.8	0.00	0.00	0.00	
2,400.0	13.18	331.85	2,368.0	273.9	-146.5	310.6	0.00	0.00	0.00	
2,500.0	13.18	331.85	2,465.4	294.0	-157.3	333.4	0.00	0.00	0.00	
2,600.0	13.18	331.85	2,562.8	314.1	-168.1	356.2	0.00	0.00	0.00	
2,700.0	13.18	331.85	2,660.1	334.2	-178.8	378.9	0.00	0.00	0.00	
2,800.0	13.18	331.85	2,757.5	354.3	-189.6	401.7	0.00	0.00	0.00	
2,900.0	13.18	331.85	2,854.9	374.4	-200.3	424.5	0.00	0.00	0.00	
3,000.0	13.18	331.85	2,952.2	394.5	-211.1	447.3	0.00	0.00	0.00	
3,100.0	13.18	331.85	3,049.6	414.6	-221.8	470.1	0.00	0.00	0.00	
3,200.0	13.18	331.85	3,147.0	434.7	-232.6	492.9	0.00	0.00	0.00	
3,300.0	13.18	331.85	3,244.3	454.8	-243.3	515.7	0.00	0.00	0.00	
3,400.0	13.18	331.85	3,341.7	474.9	-254.1	538.5	0.00	0.00	0.00	
3,500.0	13.18	331.85	3,439.1	495.0	-264.8	561.3	0.00	0.00	0.00	
3,600.0	13.18	331.85	3,536.4	515.0	-275.6	584.1	0.00	0.00	0.00	
3,700.0	13.18	331.85	3,633.8	535.1	-286.3	606.9	0.00	0.00	0.00	
3,800.0	13.18	331.85	3,731.2	555.2	-297.1	629.6	0.00	0.00	0.00	
3,900.0	13.18	331.85	3,828.5	575.3	-307.8	652.4	0.00	0.00	0.00	
4,000.0	13.18	331.85	3,925.9	595.4	-318.6	675.2	0.00	0.00	0.00	
4,100.0	13.18	331.85	4,023.3	615.5	-329.4	698.0	0.00	0.00	0.00	
4,200.0	13.18	331.85	4,120.6	635.6	-340.1	720.8	0.00	0.00	0.00	
4,300.0	13.18	331.85	4,218.0	655.7	-350.9	743.6	0.00	0.00	0.00	
4,400.0	13.18	331.85	4,315.4	675.8	-361.6	766.4	0.00	0.00	0.00	
4,500.0	13.18	331.85	4,412.7	695.9	-372.4	789.2	0.00	0.00	0.00	
4,600.0	13.18	331.85	4,510.1	716.0	-383.1	812.0	0.00	0.00	0.00	
4,700.0	13.18	331.85	4,607.5	736.1	-393.9	834.8	0.00	0.00	0.00	
4,800.0	13.18	331.85	4,704.8	756.2	-404.6	857.5	0.00	0.00	0.00	
4,900.0	13.18	331.85	4,802.2	776.3	-415.4	880.3	0.00	0.00	0.00	
4,959.4	13.18	331.85	4,860.0	788.2	-421.8	893.9	0.00	0.00	0.00	

NEWFIELD



Payzone Directional Planning Report



Database: EDM 2003 21 Single User Db
Company: NEWFIELD EXPLORATION
Project: USGS Myton SW (UT)
Site: SECTION 2 T9S, R17E
Well: M-2-9-17
Wellbore: Wellbore #1
Design: Design #1

Local Co-ordinate Reference: Well M-2-9-17
TVD Reference: M-2-9-17 @ 5061.0ft (Newfield Rig)
MD Reference: M-2-9-17 @ 5061.0ft (Newfield Rig)
North Reference: True
Survey Calculation Method: Minimum Curvature

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)
Start 1612.4 hold at 4959.4 MD									
5,000.0	13.18	331.85	4,899.6	796.4	-426.1	903.1	0.00	0.00	0.00
5,100.0	13.18	331.85	4,996.9	816.5	-436.9	925.9	0.00	0.00	0.00
5,200.0	13.18	331.85	5,094.3	836.6	-447.6	948.7	0.00	0.00	0.00
5,300.0	13.18	331.85	5,191.7	856.7	-458.4	971.5	0.00	0.00	0.00
5,400.0	13.18	331.85	5,289.0	876.8	-469.2	994.3	0.00	0.00	0.00
5,500.0	13.18	331.85	5,386.4	896.9	-479.9	1,017.1	0.00	0.00	0.00
5,600.0	13.18	331.85	5,483.8	917.0	-490.7	1,039.9	0.00	0.00	0.00
5,700.0	13.18	331.85	5,581.1	937.1	-501.4	1,062.7	0.00	0.00	0.00
5,800.0	13.18	331.85	5,678.5	957.2	-512.2	1,085.5	0.00	0.00	0.00
5,900.0	13.18	331.85	5,775.9	977.3	-522.9	1,108.2	0.00	0.00	0.00
6,000.0	13.18	331.85	5,873.3	997.4	-533.7	1,131.0	0.00	0.00	0.00
6,100.0	13.18	331.85	5,970.6	1,017.5	-544.4	1,153.8	0.00	0.00	0.00
6,200.0	13.18	331.85	6,068.0	1,037.6	-555.2	1,176.6	0.00	0.00	0.00
6,300.0	13.18	331.85	6,165.4	1,057.7	-565.9	1,199.4	0.00	0.00	0.00
6,400.0	13.18	331.85	6,262.7	1,077.8	-576.7	1,222.2	0.00	0.00	0.00
6,500.0	13.18	331.85	6,360.1	1,097.9	-587.4	1,245.0	0.00	0.00	0.00
6,571.8	13.18	331.85	6,430.0	1,112.3	-595.2	1,261.3	0.00	0.00	0.00
TD at 6571.8									

Plan Annotations

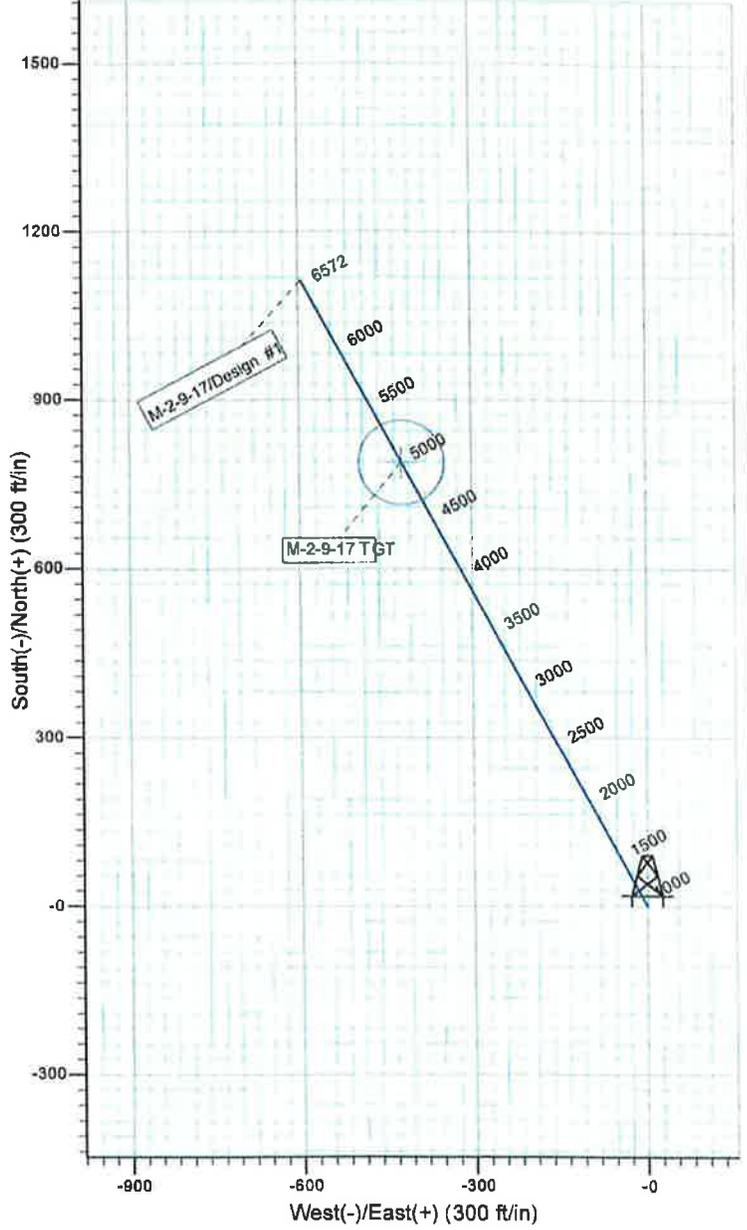
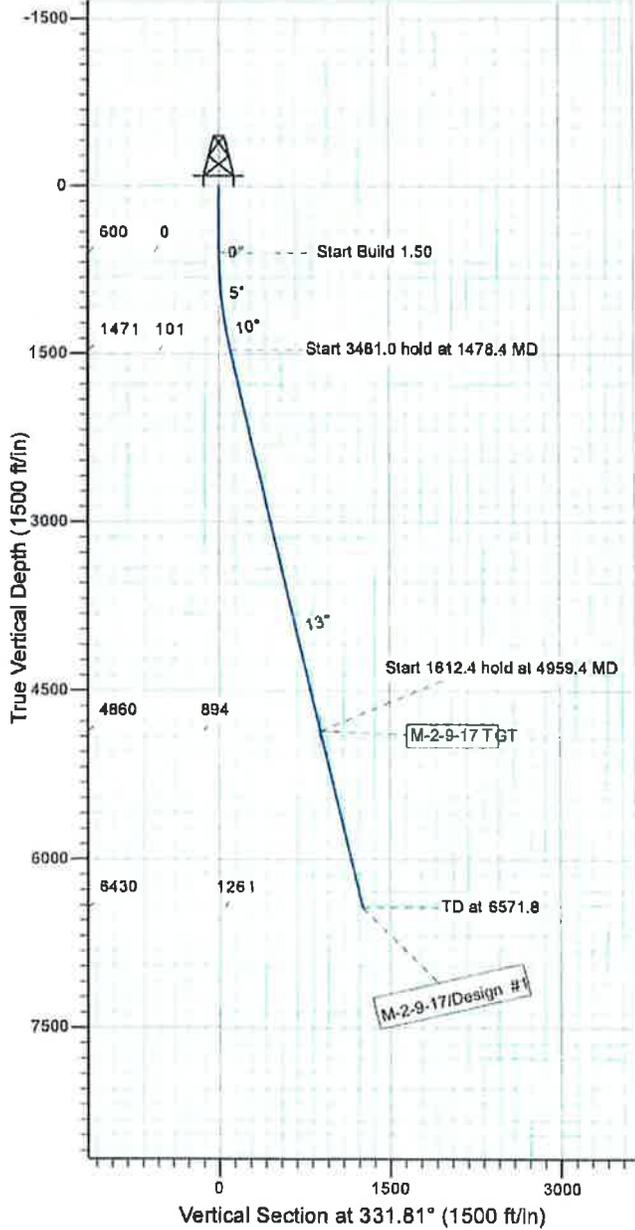
Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates		Comment
		+N/-S (ft)	+E/-W (ft)	
600.0	600.0	0.0	0.0	Start Build 1.50
1,478.4	1,470.7	88.7	-47.4	Start 3481.0 hold at 1478.4 MD
4,959.4	4,860.0	788.2	-421.8	
4,959.4	4,860.0	788.2	-421.8	Start 1612.4 hold at 4959.4 MD
6,571.8	6,430.0	1,112.3	-595.2	TD at 6571.8



Project: USGS Myton SW (UT)
 Site: SECTION 2 T9S, R17E
 Well: M-2-9-17
 Wellbore: Wellbore # 1
 Design: Design #1



Azimuths to True North
 Magnetic North: 11.20°
 Magnetic Field
 Strength: 52236.8snT
 Dip Angle: 65.81°
 Date: 1/11/2012
 Model: IGRF2010



WELLBORE TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Shape
M-2-9-17 TGT	4860.0	788.2	-421.8	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	1478.4	13.18	331.85	1470.7	88.7	-47.4	1.50	331.85	100.5	
4	4959.4	13.18	331.85	4860.0	788.2	-421.8	0.00	0.00	893.9	M-2-9-17 TGT
5	6571.8	13.18	331.85	6430.0	1112.3	-595.2	0.00	0.00	1261.3	



**NEWFIELD PRODUCTION COMPANY
GMBU M-2-9-17
AT SURFACE: NW/SE SECTION 2, T9S R17E
UINTAH COUNTY, UTAH**

MULTI-POINT SURFACE USE & OPERATIONS PLAN

The onsite inspection for this pad will need to be set up as soon as the APD is received by the State of Utah DOGM. The proposed well will be drilled directionally off of the existing 10-2R-9-17 well pad.

1. EXISTING ROADS

- a) To reach Newfield Production Company well location site GMBU M-2-9-17, 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 southeasterly direction – 11.7 miles \pm to it's junction with an existing road to the northeast; proceed in a northeasterly direction – 1.4 miles \pm to it's junction with an existing road to the southeast; proceed in a southeasterly direction – 0.9 miles \pm to it's junction with the beginning of the access road to the existing 10-2R-9-17 well location.
- b) The proposed location is approximately 15.4 miles southeast of Roosevelt, Utah
- c) Existing native surface roads in the area range from clays to a sandy-clay shale material.
- d) Access roads will be maintained at the standards required by UDOT, Duchesne County or other controlling agencies. This maintenance will consist of some minor grader work for road surfacing and snow removal. Any necessary fill material for repair will be purchased and hauled from private sources.

2. PLANNED ACCESS ROAD

- a) There is no proposed access road for this location. The proposed well will be drilled directionally off of the existing 10-2R-9-17 well pad. See attached Topographic Map "B".
- b) There will be **no** culverts required along this access road. There will be barrow ditches and turnouts as needed along this road.
- c) There are no fences encountered along this proposed road. There will be no new gates or cattle guards required.
- d) All construction material for this access road will be borrowed material accumulated during construction of the access road.

3. LOCATION OF EXISTING WELLS

- a) Refer to Topographic Map "D".

4. LOCATION OF EXISTING AND/OR PROPOSED FACILITIES

- a) There are no existing facilities that will be utilized.
- b) It is anticipated that this well will be a producing oil well with some associated natural gas.
- c) 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.

- d) Tank batteries will be built to Federal Gold Book specifications.
- e) All permanent above-ground structures would be painted a flat, non-reflective covert green color, to match the standard environmental colors. All facilities would be painted the designated color at the time of installation (weather permitting). Facilities required to comply with the Occupational Safety and Health Act (OSHA) may be excluded.

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

- a) Newfield Production will transport water by truck from nearest water source. 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).

6. **SOURCE OF CONSTRUCTION MATERIALS**

- a) Construction material for this access road will be borrowed material accumulated during construction of the access road. If any additional borrow or gravel is required, it would be obtained from a local supplier having a permitted source of materials within the general area.

7. **METHODS FOR HANDLING WASTE DISPOSAL**

- a) A small pit (80 feet x 120 feet x 8 feet deep, or less) will be constructed inboard of the pad area. The 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.
- b) The pit would be lined with 16 mil (minimum) thickness polyethylene nylon reinforced liner material. The liner(s) would overlay straw, dirt and/or bentonite if rock is encountered during excavation. The liner would overlap the pit walls and be covered with dirt and/or rocks to hold them in place. No trash, scrap pipe, or other materials that could puncture the liner would be discarded in the pit. A minimum of two feet of free board would be maintained between the maximum fluid level and the top of the pit at all times.
- c) A portable toilet will be provided for human waste.
- d) A trash basket will be provided for garbage (trash) and hauled away to an approved disposal site at the completion of the drilling activities.
- e) 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.

- f) 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.

Newfield Production Company guarantees that during the drilling and completion of the referenced well, 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 referenced well, 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.

8. **ANCILLARY FACILITIES**

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

9. **WELL SITE LAYOUT**

- a) 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.
- b) 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.

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

- a) Producing Location
 - 1. 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.
 - 2. 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

1. 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

- a) State of Utah.

12. OTHER ADDITIONAL INFORMATION

- a) Montgomery Archeological Consultants, Inc. has conducted a Class III archeological survey, State of Utah Antiquities Project Permit # U-13-MQ-0824bs 10/2/13. The report has been submitted under separate cover by Montgomery Archeological Consultants, Inc. The cover page of the report has been attached to this submittal for reference. Newfield would require that their personnel, contractors, and subcontractors to comply with Federal regulations intended to protect archeological and cultural resources.
- b) Wade E. Miller Ph.D. Paleontological Consultant has conducted a paleontological survey. The report has been submitted under separate cover by Wade E. Miller dated 9/25/13. The cover page of the report has been attached to this submittal for reference.
- c) Newfield Production will control noxious weeds along rights-of-way for roads, pipelines, well sites or other applicable facilities. On federal 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.
- d) A complete copy of the approved APD, if applicable, shall be on location during the construction of the location and drilling 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-2-9-17, Section 2, Township 9S, Range 17E: Lease ML-45555 Uintah 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, Utah State 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.

11/7/13
Date

**Mandie
Crozier**

Digitally signed by Mandie Crozier
DN: cn=Mandie Crozier, o=Newfield
Production, ou=Regulatory Analyst,
email=mcrozier@newfield.com,
c=US

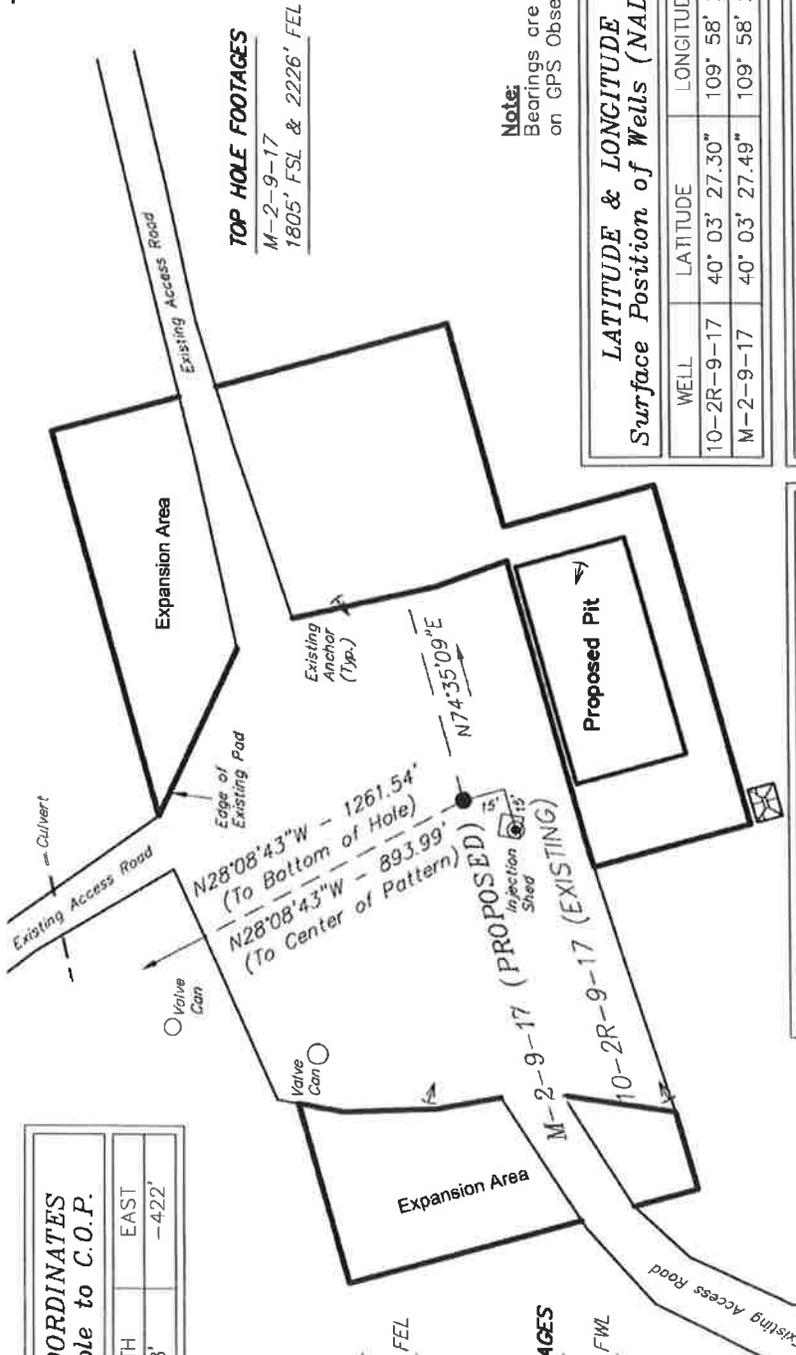
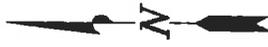
Mandie Crozier
Regulatory Analyst
Newfield Production Company

NEWFIELD EXPLORATION COMPANY

WELL PAD INTERFERENCE PLAT

EXISTING 10-2R-9-17 PAD
 PROPOSED WELL: M-2-9-17

Pad Location: NWSE Section 2, T9S, R17E, S.L.B.&M.



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

WELL	NORTH	EAST
M-2-9-17	788'	-422'

**CENTER OF
PATTERN FOOTAGES**

M-2-9-17
 2700' FNL & 2635' FEL

BOTTOM HOLE FOOTAGES

M-2-9-17
 2374' FNL & 2486' FWL

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

WELL	NORTH	EAST
M-2-9-17	1,112'	-595'

TOP HOLE FOOTAGES

M-2-9-17
 1805' FSL & 2226' FEL

Note:
 Bearings are based
 on GPS Observations.

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

WELL	LATITUDE	LONGITUDE
10-2R-9-17	40° 03' 27.30"	109° 58' 20.56"
M-2-9-17	40° 03' 27.49"	109° 58' 20.42"

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

WELL	LATITUDE	LONGITUDE
M-2-9-17	40° 03' 38.57"	109° 58' 27.83"

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

WELL	LATITUDE	LONGITUDE
M-2-9-17	40° 03' 35.34"	109° 58' 25.67"

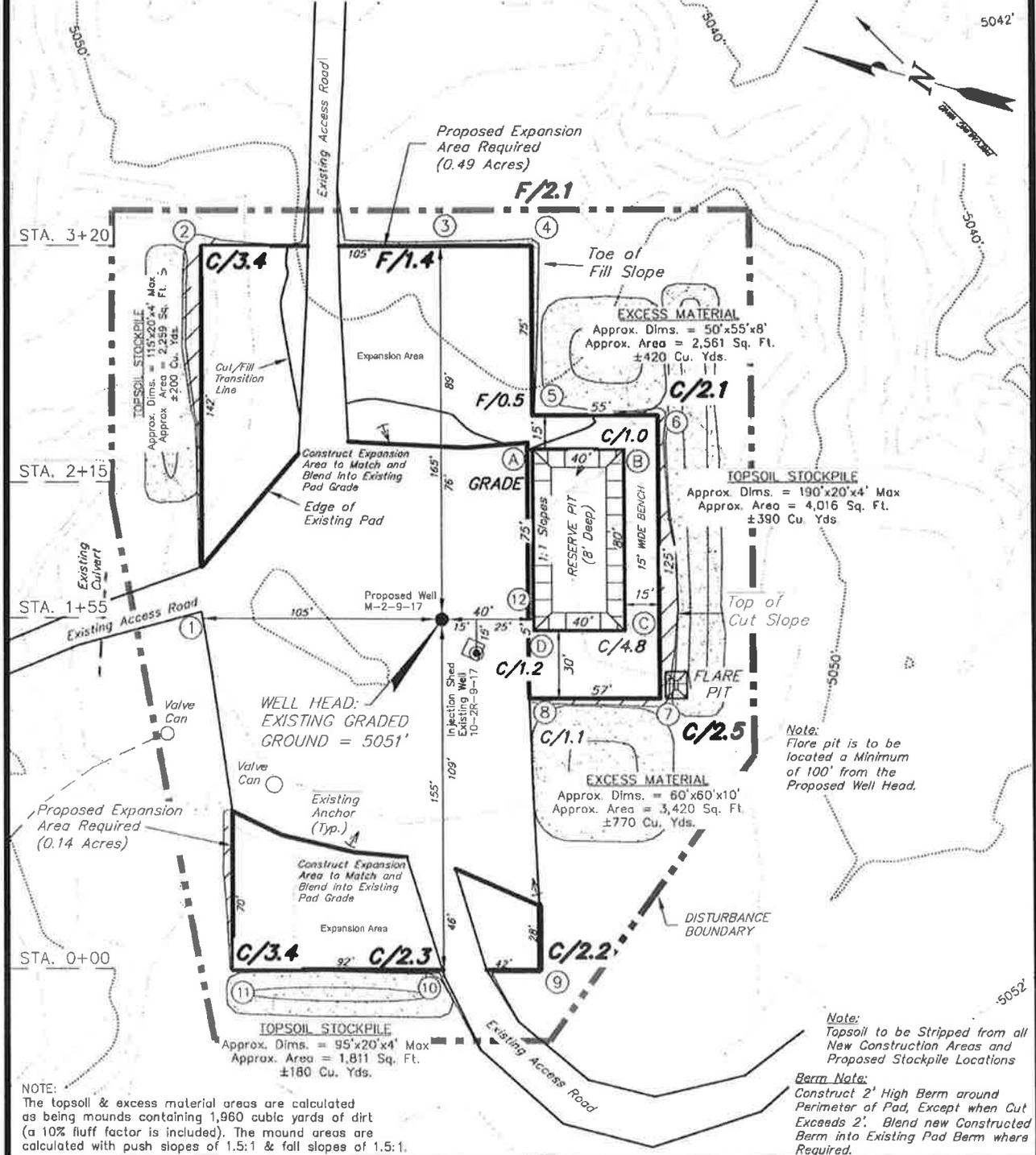
SURVEYED BY: C.S.	DATE SURVEYED: 08-01-13	VERSION: V1
DRAWN BY: F.T.M.	DATE DRAWN: 08-15-13	
SCALE: 1" = 60'	REVISED:	

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

NEWFIELD EXPLORATION COMPANY

LOCATION LAYOUT EXISTING 10-2R-9-17 PAD PROPOSED WELL: M-2-9-17

Pad Location: NWSE Section 2, T9S, R17E, S.L.B.&M.



NOTE:
The topsoil & excess material areas are calculated as being mounds containing 1,960 cubic yards of dirt (a 10% fluff factor is included). The mound areas are calculated with push slopes of 1.5:1 & fall slopes of 1.5:1.

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

Note:
Topsoil to be Stripped from all New Construction Areas and Proposed Stockpile Locations

Berm Note:
Construct 2' High Berm around Perimeter of Pad, Except when Cut Exceeds 2'. Blend new Constructed Berm into Existing Pad Berm where Required.

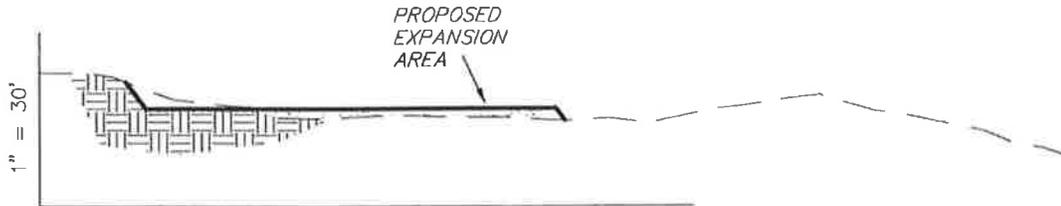
SURVEYED BY: C.S.	DATE SURVEYED: 08-01-13	VERSION:
DRAWN BY: F.T.M.	DATE DRAWN: 08-19-13	V1
SCALE: 1" = 60'	REVISED:	

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

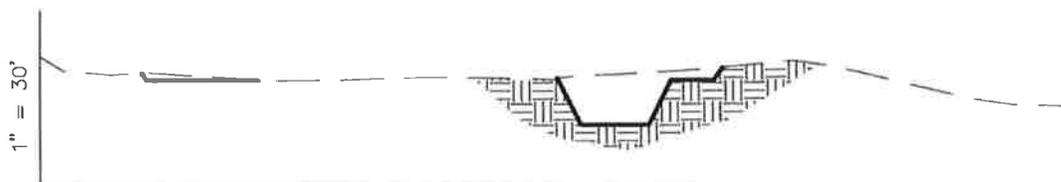
NEWFIELD EXPLORATION COMPANY

CROSS SECTIONS EXISTING 10-2R-9-17 PAD PROPOSED WELL: M-2-9-17

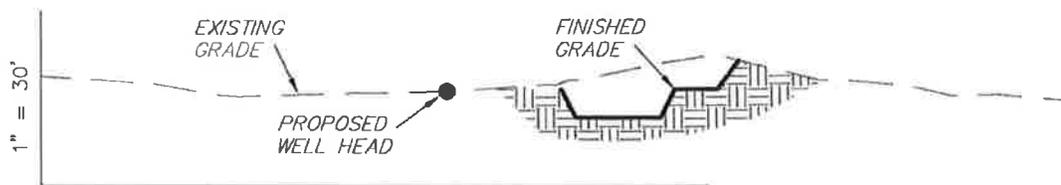
Pad Location: NWSE Section 2, T9S, R17E, S.L.B.&M.



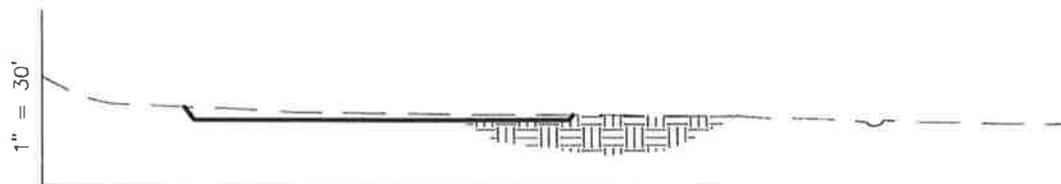
1" = 60' STA. 3+20



1" = 60' STA. 2+15



1" = 60' STA. 1+55



1" = 60' STA. 0+00

ESTIMATED EARTHWORK QUANTITIES (No Shrink or swell adjustments have been used) (Expressed in Cubic Yards)				
ITEM	CUT	FILL	6" TOPSOIL	EXCESS
PAD	670	280	Topsoil is not included in Pad Cut	390
PIT	690	0		690
TOTALS	1,360	280	700	1,080

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

SURVEYED BY: C.S.	DATE SURVEYED: 08-01-13	VERSION:	
DRAWN BY: F.T.M.	DATE DRAWN: 08-19-13	V1	
SCALE: 1" = 60'	REVISED:		

Tri State
Land Surveying, Inc.

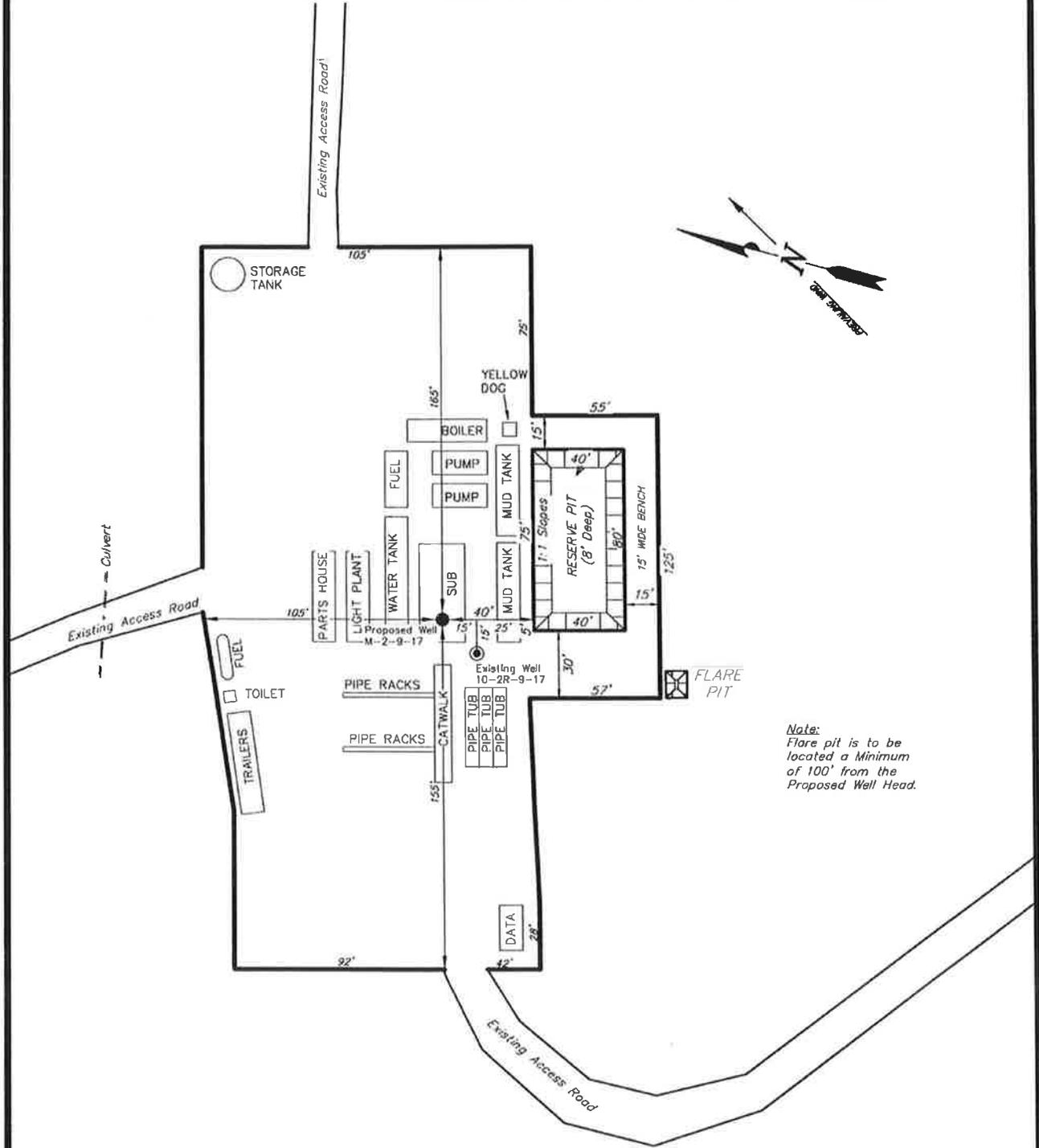
180 NORTH VERNAL AVE. VERNAL, UTAH 84078

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TYPICAL RIG LAYOUT EXISTING 10-2R-9-17 PAD PROPOSED WELL: M-2-9-17

Pad Location: NWSE Section 2, T9S, R17E, S.L.B.&M.



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

SURVEYED BY: C.S.	DATE SURVEYED: 08-01-13	VERSION:	 (435) 781-2501 180 NORTH VERNAL AVE. VERNAL, UTAH 84078
DRAWN BY: F.T.M.	DATE DRAWN: 08-19-13	V1	
SCALE: 1" = 60'	REVISED:		

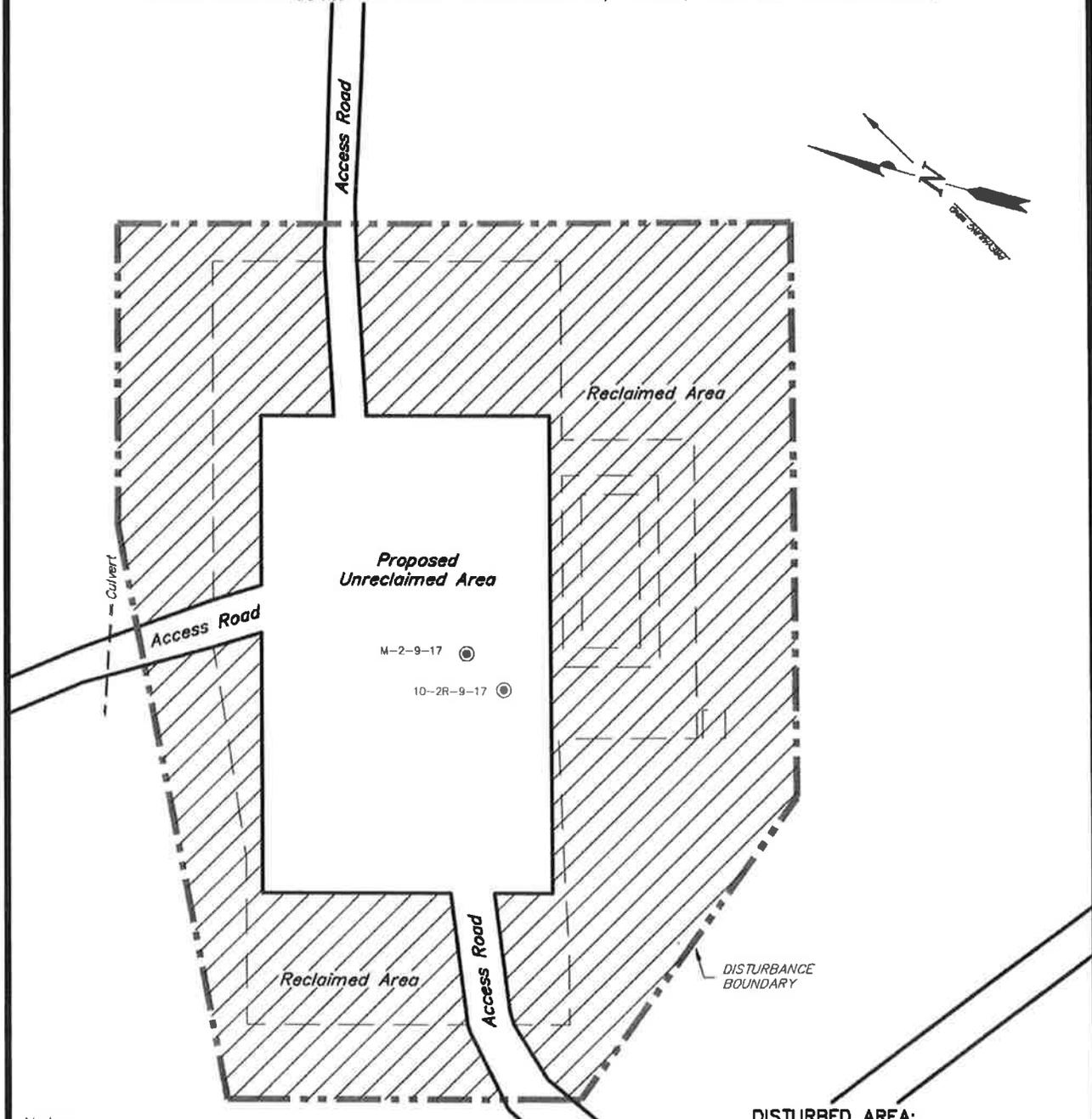
NEWFIELD EXPLORATION COMPANY

RECLAMATION LAYOUT

EXISTING 10-2R-9-17 PAD

PROPOSED WELL: M-2-9-17

Pad Location: NWSE Section 2, T9S, R17E, 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 = ±2.11 ACRES
 TOTAL RECLAIMED AREA = ±1.47 ACRES
 UNRECLAIMED AREA = ±0.64 ACRES

SURVEYED BY: C.S.	DATE SURVEYED: 08-01-13	VERSION:
DRAWN BY: F.T.M.	DATE DRAWN: 08-19-13	V1
SCALE: 1" = 60'	REVISED:	

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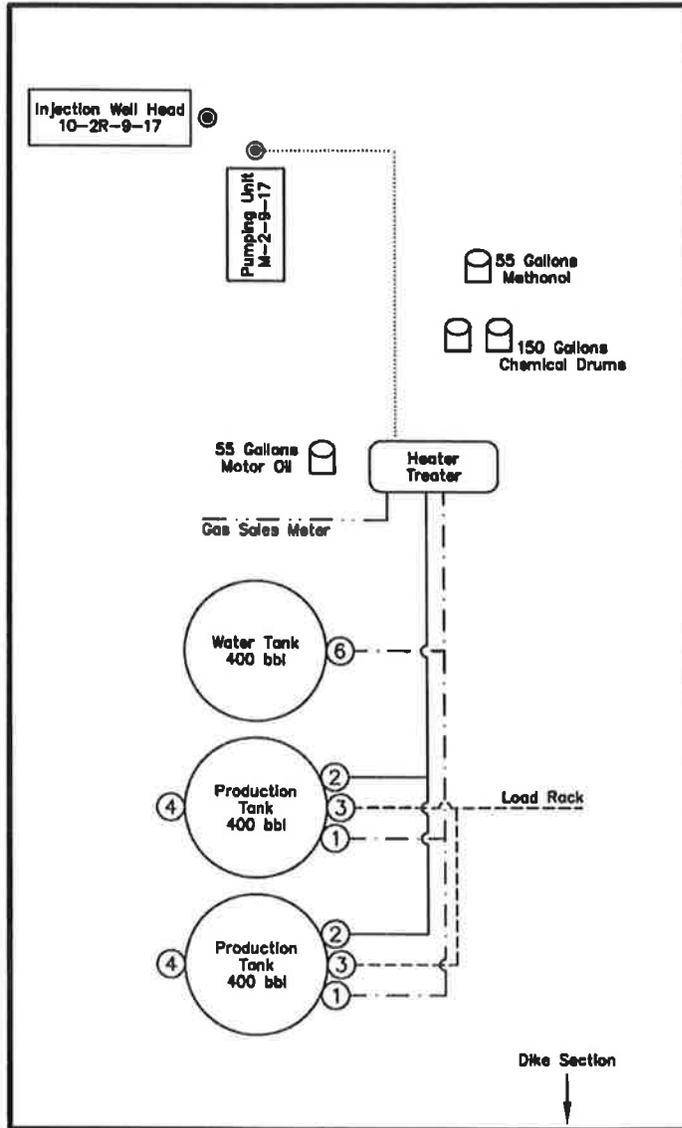
NEWFIELD EXPLORATION COMPANY

PROPOSED SITE FACILITY DIAGRAM

EXISTING 10-2R-9-17 PAD

M-2-9-17 ML-45555

*Pad Location: NWSE Section 2, T9S, R17E, S.L.B.&M.
Utah County, Utah*



Legend

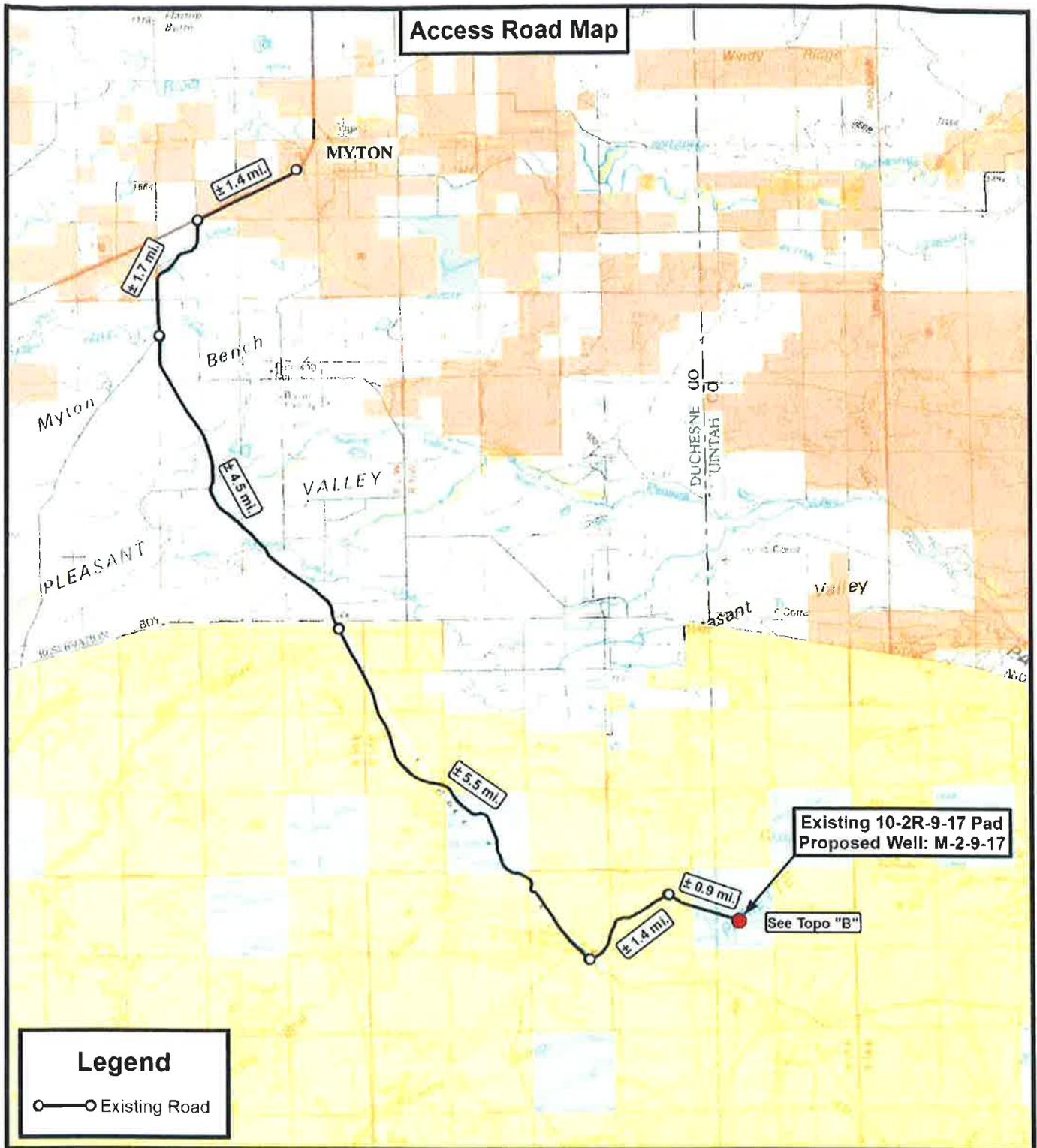
Emulsion Line
Load Rack	-----
Water Line	-----
Gas Sales	-----
Oil Line	-----

NOT TO SCALE

SURVEYED BY: C.S.	DATE SURVEYED: 08-01-13	VERSION:
DRAWN BY: F.T.M.	DATE DRAWN: 08-19-13	V1
SCALE: NONE	REVISED:	

(435) 781-2501

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180 NORTH VERNAL AVE., VERNAL, UTAH 84078



Legend
 ○—○ Existing Road

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 180 NORTH VERNAL AVE. VERNAL, UTAH 84078

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NEWFIELD EXPLORATION COMPANY

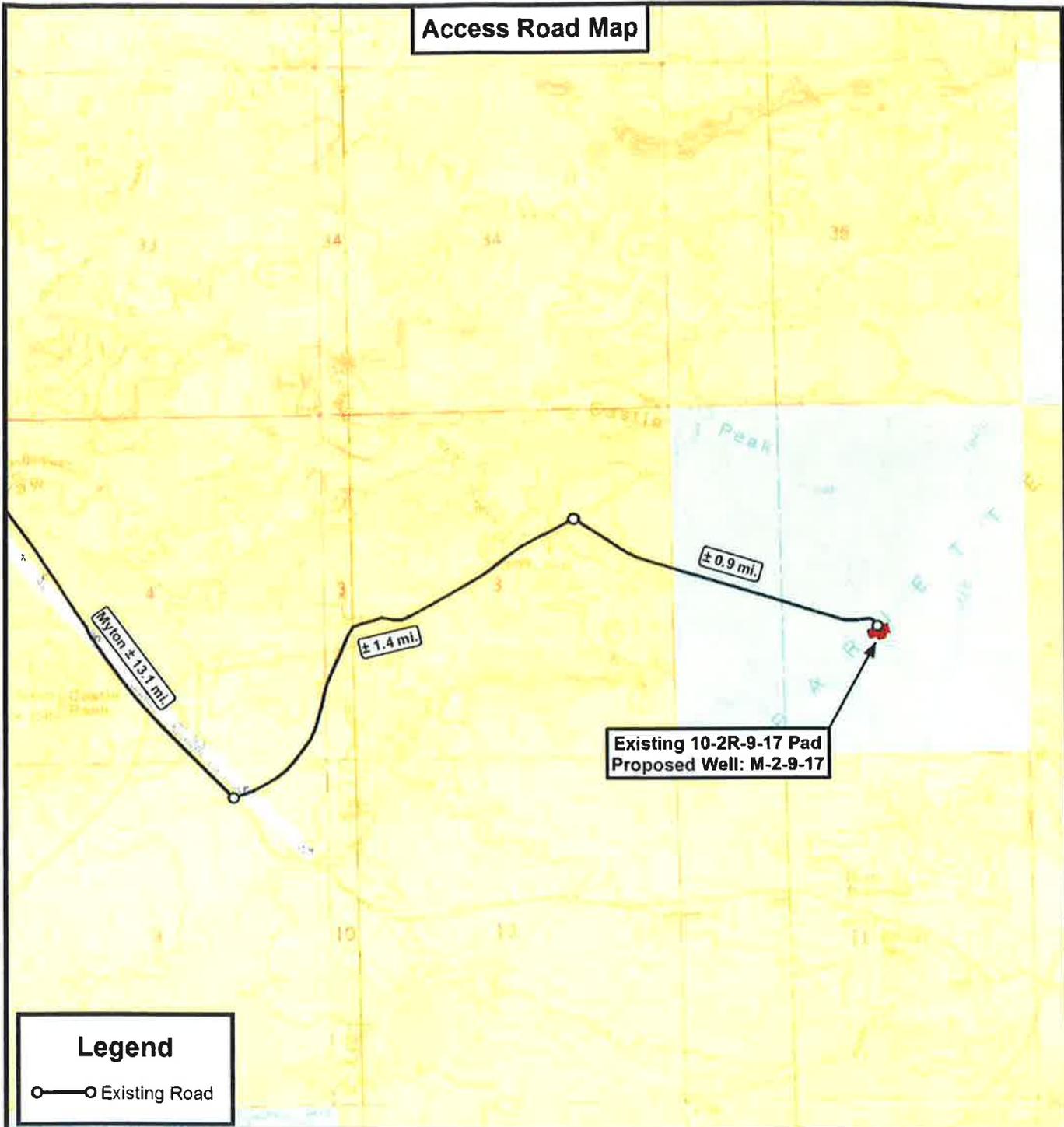
Existing 10-2R-9-17 Pad
 Proposed Well: M-2-9-17
 Sec. 2, T9S, R17E, S.L.B.&M.
 Uintah County, UT.

DRAWN BY:	A.P.C.	REVISED:	VERSION:
DATE:	08-21-2013		V1
SCALE:	1:100,000		

TOPOGRAPHIC MAP

SHEET
A

Access Road Map



Legend

○—○ Existing Road

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



**Tri State
Land Surveying, Inc.**
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NEWFIELD EXPLORATION COMPANY

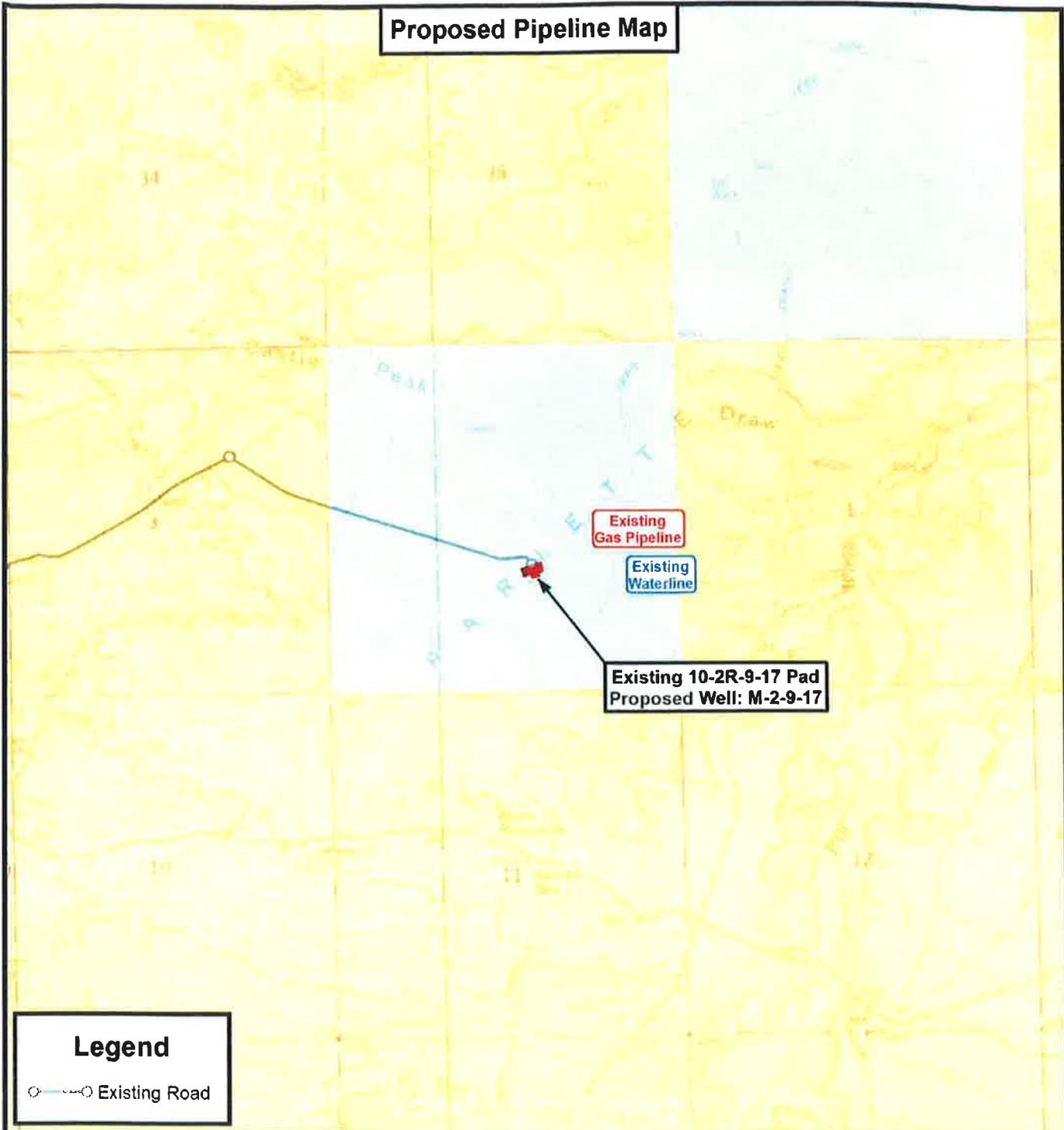
Existing 10-2R-9-17 Pad
Proposed Well: M-2-9-17
Sec. 2, T9S, R17E, S.L.B.&M.
Uintah County, UT.

DRAWN BY:	A.P.C.	REVISED:	VERSION:
DATE:	08-21-2013		V1
SCALE:	1" = 2,000'		

TOPOGRAPHIC MAP

SHEET
B

Proposed Pipeline Map



Legend

○—○ Existing Road

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

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



NEWFIELD EXPLORATION COMPANY

Existing 10-2R-9-17 Pad
 Proposed Well: M-2-9-17
 Sec. 2, T9S, R17E, S.L.B.&M.
 Uintah County, UT.

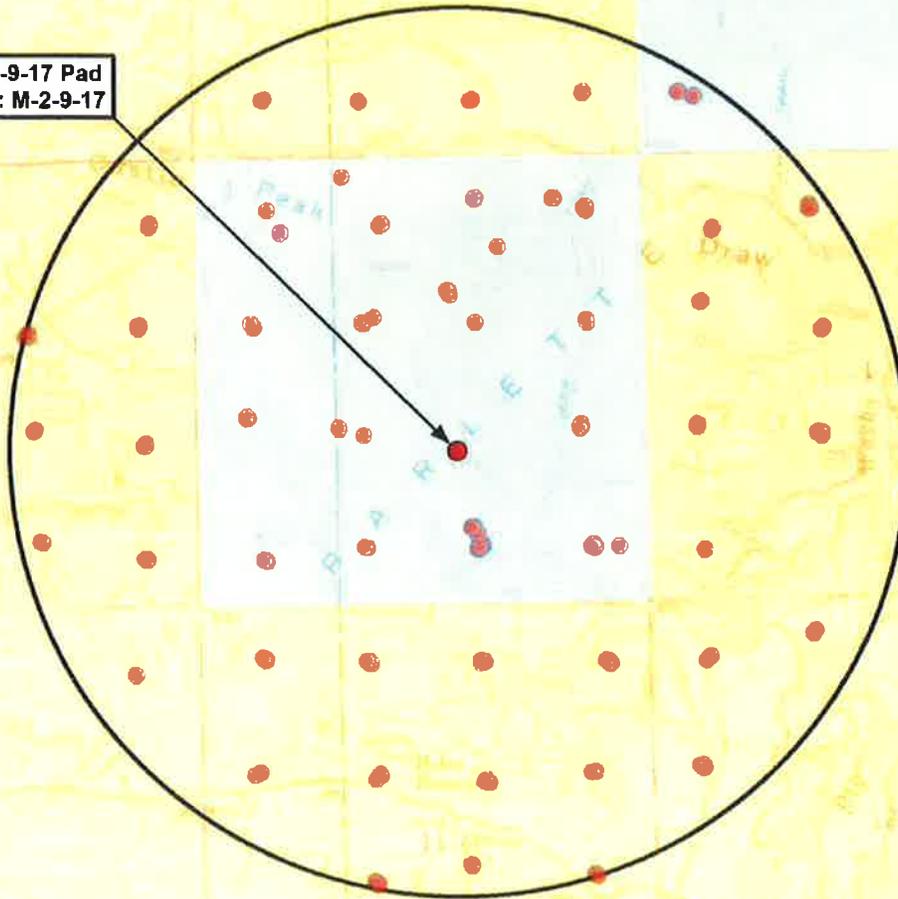
DRAWN BY:	A.P.C.	REVISED:	VERSION:
DATE:	08-21-2013		V1
SCALE:	1" = 2,000'		

TOPOGRAPHIC MAP

SHEET
C

Exhibit "B" Map

**Existing 10-2R-9-17 Pad
Proposed Well: M-2-9-17**



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 10-2R-9-17 Pad
Proposed Well: M-2-9-17
Sec. 2, T9S, R17E, S.L.B.&M.
Uintah County, UT.

DRAWN BY:	A.P.C.	REVISED:	VERSION:
DATE:	08-21-2013		V1
SCALE:	1" = 2,000'		

TOPOGRAPHIC MAP

SHEET
D

Coordinate Report

Well Number	Feature Type	Latitude (NAD 83) (DMS)	Longitude (NAD 83) (DMS)
10-2R-9-17	Surface Hole	40° 03' 27.30" N	109° 58' 20.56" W
M-2-9-17	Surface Hole	40° 03' 27.49" N	109° 58' 20.42" W
M-2-9-17	Center of Pattern	40° 03' 35.34" N	109° 58' 25.67" W
M-2-9-17	Bottom of Hole	40° 03' 38.57" N	109° 58' 27.83" W
Well Number	Feature Type	Latitude (NAD 83) (DD)	Longitude (NAD 83) (DD)
10-2R-9-17	Surface Hole	40.057585	109.972378
M-2-9-17	Surface Hole	40.057635	109.972340
M-2-9-17	Center of Pattern	40.059817	109.973797
M-2-9-17	Bottom of Hole	40.060715	109.974397
Well Number	Feature Type	Northing (NAD 83) (UTM Meters)	Longitude (NAD 83) (UTM Meters)
10-2R-9-17	Surface Hole	4434654.424	587644.581
M-2-9-17	Surface Hole	4434660.026	587647.802
M-2-9-17	Center of Pattern	4434900.865	587520.671
M-2-9-17	Bottom of Hole	4434999.883	587468.402
Well Number	Feature Type	Latitude (NAD 27) (DMS)	Longitude (NAD 27) (DMS)
10-2R-9-17	Surface Hole	40° 03' 27.44" N	109° 58' 18.03" W
M-2-9-17	Surface Hole	40° 03' 27.62" N	109° 58' 17.89" W
M-2-9-17	Center of Pattern	40° 03' 35.48" N	109° 58' 23.14" W
M-2-9-17	Bottom of Hole	40° 03' 38.71" N	109° 58' 25.29" W
Well Number	Feature Type	Latitude (NAD 27) (DD)	Longitude (NAD 27) (DD)
10-2R-9-17	Surface Hole	40.057622	109.971674
M-2-9-17	Surface Hole	40.057672	109.971636
M-2-9-17	Center of Pattern	40.059855	109.973094
M-2-9-17	Bottom of Hole	40.060752	109.973693
Well Number	Feature Type	Northing (NAD 27) (UTM Meters)	Longitude (NAD 27) (UTM Meters)
10-2R-9-17	Surface Hole	4434449.108	587706.865
M-2-9-17	Surface Hole	4434454.709	587710.087
M-2-9-17	Center of Pattern	4434695.548	587582.954
M-2-9-17	Bottom of Hole	4434794.566	587530.685



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

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 F: (435) 781-2518

NEWFIELD EXPLORATION COMPANY

Existing 10-2R-9-17 Pad
 Proposed Well: M-2-9-17
 Sec. 2, T9S, R17E, S.L.B.&M.
 Uintah County, UT.

DRAWN BY: A.P.C.
 DATE: 08-21-2013
 VERSION: V1

REVISED:

COORDINATE REPORT

SHEET

1

Exhibit "D"
1 of 2

**CULTURAL RESOURCE INVENTORY OF
NEWFIELD EXPLORATION'S FIVE PROPOSED WELLS
ON THREE PADS: 10-2R-9-17 (EXISTING), M-2-9-17 (PROPOSED);
1-4-9-17 (EXISTING), 4-3-9-17 (PROPOSED),
2-4-9-17 (PROPOSED); AND 44-5-9-17 (EXISTING),
132-5-9-17 (PROPOSED), 101-8-9-17 (PROPOSED)
DUCHESNE AND UINTAH COUNTIES, UTAH
(T9S, R17E, SECTIONS 2, 4, AND 5)**

By:

Robert B. Nash

Prepared For:

**Bureau of Land Management
Vernal Field Office
and
State of Utah
School and Institutional Trust Lands Administration**

Prepared Under Contract With:

**Newfield Exploration Company
Rt. 3 Box 3630
Myton, UT 54052**

Submitted By:

**Montgomery Archaeological Consultants, Inc.
P.O. Box 219
Moab, Utah 84532**

MOAC Report No. 13-274

October 2, 2013

**United States Department of Interior (FLPMA)
Permit No. 13-UT-60122**

**Public Lands Policy Coordination Office
Archaeological Survey Permit No. 117**

**State of Utah Antiquities Project (Survey)
Permit No. U-13-MQ-0824bs**

NEWFIELD EXPLORATION COMPANY

**PALEONTOLOGICAL SURVEY OF PROPOSED
PRODUCTION DEVELOPMENT AREAS,
DUCHESNE AND UINTAH COUNTIES, UTAH**

Proposed Site Expansion and Planned New Wells Survey

SW 1/4, NW 1/4, Sec. 25, T 9 S, R 15 E (5-25-9-15, J-26-9-15); SE 1/4, NW 1/4, Sec. 21, T 8 S, R 17 E (6-21-8-17, N-21-8-17, M-21-8-17); NW 1/4, NW 1/4, Sec. 32, T 8 S, R 17 E (4-32-8-17, 112-32-8-17); SE 1/4, NE 1/4, Sec. 36, T 8 S, R 16 E (8-36-8-16, 117-36-8-16); SE 1/4, SW 1/4, Sec. 23, T 8 S, R 17 E (14-23-8-17, C-26-8-17); NE 1/4, NE 1/4, Sec. 4, T 9 S, R 17 E (1-4-9-17, 4-3-9-17, 2-4-9-17); SE 1/4, NW 1/4, Sec. 4, T 9 S, R 17 E (6-4-9-17, 3-4-9-17); NW 1/4, SE 1/4, Sec. 2, T 9 S, R 17 E (10-2R-9-17, M-2-9-17); SE 1/4, SW 1/4, Sec. 34, T 8 S, R 17 E (14-34-8-17, 3-3-9-17); SE 1/4, SE 1/4, Sec. 5, T 9 S, R 17 E (44-5-9-17, 101-8-9-17, 132-5-9-17).

REPORT OF SURVEY

Prepared for:

Newfield Exploration Company

Prepared by:

Wade E. Miller
Consulting Paleontologist
September 25, 2013

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		FORM 9
SUNDRY NOTICES AND REPORTS ON WELLS 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.		5. LEASE DESIGNATION AND SERIAL NUMBER: ML-45555
		6. IF INDIAN, ALLOTTEE OR TRIBE NAME:
1. TYPE OF WELL Oil Well		7. UNIT or CA AGREEMENT NAME: GMBU (GRRV)
2. NAME OF OPERATOR: NEWFIELD PRODUCTION COMPANY		8. WELL NAME and NUMBER: GMBU M-2-9-17
3. ADDRESS OF OPERATOR: Rt 3 Box 3630, Myton, UT, 84052		9. API NUMBER: 43047527620000
PHONE NUMBER: 435 646-4825 Ext		9. FIELD and POOL or WILDCAT: MONUMENT BUTTE
4. LOCATION OF WELL FOOTAGES AT SURFACE: 1805 FSL 2226 FEL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: NWSE Section: 02 Township: 09.0S Range: 17.0E Meridian: S		COUNTY: UINTAH
		STATE: UTAH

11.

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

TYPE OF SUBMISSION	TYPE OF ACTION		
<input type="checkbox"/> NOTICE OF INTENT Approximate date work will start:	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> CASING REPAIR
<input type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion:	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> CHANGE WELL NAME
<input checked="" type="checkbox"/> SPUD REPORT Date of Spud: 9/8/2014	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> CONVERT WELL TYPE
<input type="checkbox"/> DRILLING REPORT Report Date:	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> NEW CONSTRUCTION
	<input type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> PLUG BACK
	<input type="checkbox"/> PRODUCTION START OR RESUME	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION
	<input type="checkbox"/> REPERFORATE CURRENT FORMATION	<input type="checkbox"/> SIDETRACK TO REPAIR WELL	<input type="checkbox"/> TEMPORARY ABANDON
	<input type="checkbox"/> TUBING REPAIR	<input type="checkbox"/> VENT OR FLARE	<input type="checkbox"/> WATER DISPOSAL
	<input type="checkbox"/> WATER SHUTOFF	<input type="checkbox"/> SI TA STATUS EXTENSION	<input type="checkbox"/> APD EXTENSION
	<input type="checkbox"/> WILDCAT WELL DETERMINATION	<input type="checkbox"/> OTHER	OTHER: <input style="width: 100px;" type="text"/>

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

On 9/8/14 drill and set 4' of 14" conductor. Drill f/4' to 341' KB of 12 1/4 hole. P/U and run 7 joints of 8 5/8" casing set depth 333'KB. On 9/9/14 cement w/Halliburton w/155 sx of 15.8# 1.19 yield class G Neat cement. Return 4 bbls to pit and bumped plug to 725 psi.

**Accepted by the
Utah Division of
Oil, Gas and Mining
FOR RECORD ONLY
September 11, 2014**

NAME (PLEASE PRINT) Cherei Neilson	PHONE NUMBER 435 646-4883	TITLE Drilling Technician
SIGNATURE N/A	DATE 9/11/2014	

NEWFIELD

Casing

Conductor

Legal Well Name GMBU M-2-9-17		Wellbore Name Original Hole		
API/UWI 43047527620000	Surface Legal Location NWSE 1805 FSL 2226 FEL Sec 2 T9S R17E	Field Name GMBU CTB8	Well Type Development	Well Configuration Type Slant
Well RC 500348319	County Duchesne	State/Province Utah	Spud Date	Final Rig Release Date

Wellbore					
Wellbore Name Original Hole			Kick Off Depth (ftKB)		
Section Des	Size (in)	Actual Top Depth (MD) (ftKB)	Actual Bottom Depth (MD) (ftKB)	Start Date	End Date
Conductor	14	11	15	9/8/2014	9/8/2014

Wellhead				
Type	Install Date	Service	Comment	

Wellhead Components				
Des	Make	Model	SN	WP Top (psi)

Casing				
Casing Description Conductor	Set Depth (ftKB)	Run Date	Set Tension (kips)	
	15	9/8/2014		
Centralizers	Scratchers			

Casing Components												
Item Des	OD (in)	ID (in)	Wt (lb/ft)	Grade	Top Thread	Jts	Len (ft)	Top (ftKB)	Btm (ftKB)	Mk-up Tq (ft-lb)	Class	Max OD (in)
Conductor	14	13.500	36.75	H-40	Welded	1	4.00	11.0	15.0			

Jewelry Details									
External Casing Packer									
Type	Setting Requirement	Release Requirements			Inflation Method	Vol Inflation (gal)	Equiv Hole Sz (in)		
Inflation Fluid Type	Infl FI Dens (lb/gal)	P AV Set (psi)	AV Acting Pressure (psi)	P ICV Set (psi)	P ICV Act (psi)	ECP Load (1000lbf)	Seal Load (1000lbf)		

Slotted Liner							
% Open Area (%)	Perforation Min Dimension (in)	Perforation Max Dimension (in)	Axial Perf Spacing (ft)	Perf Rows	Blank Top Length (ft)	Blank Bottom Length (ft)	
Slot Description	Slot Pattern			Slot Length (in)	Slot Width (in)	Slot Frequency	Screen Gauge (ga)

Liner Hanger						
Retrievable?	Elastomer Type	Element Center Depth (ft)		Polish Bore Size (in)	Polish Bore Length (ft)	
Slip Description				Set Mechanics		
Setting Procedure						
Unsetting Procedure						

NEWFIELD

Casing

Surface

Legal Well Name GMBU M-2-9-17		Wellbore Name Original Hole	
API/UWI 43047527620000	Surface Legal Location NWSE 1805 FSL 2226 FEL Sec 2 T9S R17E	Field Name GMBU CTB8	Well Type Development
Well RC 500348319	County Duchesne	State/Province Utah	Spud Date
		Final Rig Release Date	

Wellbore					
Wellbore Name Original Hole			Kick Off Depth (ftKB)		
Section Des	Size (in)	Actual Top Depth (MD) (ftKB)	Actual Bottom Depth (MD) (ftKB)	Start Date	End Date
Conductor	14	11	15	9/8/2014	9/8/2014
Vertical	12 1/4	15	341	9/8/2014	9/8/2014

Wellhead				
Type	Install Date	Service	Comment	

Wellhead Components				
Des	Make	Model	SN	WP Top (psi)

Casing				
Casing Description Surface	Set Depth (ftKB)	333	Run Date 9/8/2014	Set Tension (kips)
Centralizers 3	Scratchers			

Casing Components												
Item Des	OD (in)	ID (in)	Wt (lb/ft)	Grade	Top Thread	Jts	Len (ft)	Top (ftKB)	Btm (ftKB)	Mk-up Tq (ft-lb)	Class	Max OD (in)
Wellhead	8 5/8	8.097	24.00	J-55	ST&C	1	1.60	11.1	12.7			
Cut Off	8 5/8	8.097	24.00	J-55	ST&C	1	39.22	12.7	51.9			
Casing Joints	8 5/8	8.097	24.00	J-55	ST&C	6	241.06	51.9	293.0			
Float Collar	8 5/8	8.097	24.00	J-55	ST&C	1	1.00	293.0	294.0			
Shoe Joint	8 5/8	8.097	24.00	J-55	ST&C	1	37.53	294.0	331.5			
Guide Shoe	8 5/8	8.097	24.00	J-55	ST&C	1	1.50	331.5	333.0			

Jewelry Details							
External Casing Packer							
Type	Setting Requirement	Release Requirements		Inflation Method	Vol Inflation (gal)	Equiv Hole Sz (in)	
Inflation Fluid Type	Infl Fl Dens (lb/gal)	P AV Set (psi)	AV Acting Pressure (psi)	P ICV Set (psi)	P ICV Act (psi)	ECP Load (1000lbf)	Seal Load (1000lbf)

Slotted Liner							
% Open Area (%)	Perforation Min Dimension (in)	Perforation Max Dimension (in)	Axial Perf Spacing (ft)	Perf Rows	Blank Top Length (ft)	Blank Bottom Length (ft)	
Slot Description	Slot Pattern		Slot Length (in)	Slot Width (in)	Slot Frequency	Screen Gauge (ga)	

Liner Hanger							
Retrievable?	Elastomer Type	Element Center Depth (ft)		Polish Bore Size (in)	Polish Bore Length (ft)		
Slip Description				Set Mechanics			
Setting Procedure							
Unsetting Procedure							

BLM - Vernal Field Office - Notification Form

Operator Newfield Exploration Rig Name/# Ross 29 Submitted By
Branden Arnold Phone Number 435-401-0223
Well Name/Number GMBU M-2-9-17
Qtr/Qtr NW/SE Section 2 Township 9S Range 17E
Lease Serial Number ML-45555
API Number 43-047-52762

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

Date/Time 9/8/14 8:00 AM PM

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

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

Date/Time 9/8/14 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 DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		FORM 9
SUNDRY NOTICES AND REPORTS ON WELLS		5. LEASE DESIGNATION AND SERIAL NUMBER: ML-45555
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.		6. IF INDIAN, ALLOTTEE OR TRIBE NAME:
		7. UNIT or CA AGREEMENT NAME: GMBU (GRRV)
1. TYPE OF WELL Oil Well	8. WELL NAME and NUMBER: GMBU M-2-9-17	
2. NAME OF OPERATOR: NEWFIELD PRODUCTION COMPANY	9. API NUMBER: 43047527620000	
3. ADDRESS OF OPERATOR: Rt 3 Box 3630 , Myton, UT, 84052	PHONE NUMBER: 435 646-4825 Ext	9. FIELD and POOL or WILDCAT: MONUMENT BUTTE
4. LOCATION OF WELL FOOTAGES AT SURFACE: 1805 FSL 2226 FEL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: NWSE Section: 02 Township: 09.0S Range: 17.0E Meridian: S	COUNTY: UINTAH	
	STATE: UTAH	
11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA		
TYPE OF SUBMISSION	TYPE OF ACTION	
<input type="checkbox"/> NOTICE OF INTENT Approximate date work will start: <input type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion: <input type="checkbox"/> SPUD REPORT Date of Spud: <input checked="" type="checkbox"/> DRILLING REPORT Report Date: 10/9/2014	<input type="checkbox"/> ACIDIZE <input type="checkbox"/> ALTER CASING <input type="checkbox"/> CASING REPAIR <input type="checkbox"/> CHANGE TO PREVIOUS PLANS <input type="checkbox"/> CHANGE TUBING <input type="checkbox"/> CHANGE WELL NAME <input type="checkbox"/> CHANGE WELL STATUS <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS <input type="checkbox"/> CONVERT WELL TYPE <input type="checkbox"/> DEEPEN <input type="checkbox"/> FRACTURE TREAT <input type="checkbox"/> NEW CONSTRUCTION <input type="checkbox"/> OPERATOR CHANGE <input type="checkbox"/> PLUG AND ABANDON <input type="checkbox"/> PLUG BACK <input checked="" type="checkbox"/> PRODUCTION START OR RESUME <input type="checkbox"/> RECLAMATION OF WELL SITE <input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION <input type="checkbox"/> REPERFORATE CURRENT FORMATION <input type="checkbox"/> SIDETRACK TO REPAIR WELL <input type="checkbox"/> TEMPORARY ABANDON <input type="checkbox"/> TUBING REPAIR <input type="checkbox"/> VENT OR FLARE <input type="checkbox"/> WATER DISPOSAL <input type="checkbox"/> WATER SHUTOFF <input type="checkbox"/> SI TA STATUS EXTENSION <input type="checkbox"/> WILDCAT WELL DETERMINATION <input type="checkbox"/> OTHER	
12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc. The above well was placed on production on 10/09/2014 at 17:30 hours.		
		Accepted by the Utah Division of Oil, Gas and Mining FOR RECORD ONLY October 22, 2014
NAME (PLEASE PRINT) Jennifer Peatross	PHONE NUMBER 435 646-4885	TITLE Production Technician
SIGNATURE N/A	DATE 10/16/2014	

Form 3160-4
(March 2012)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

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

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

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

5. Lease Serial No.
ML-45555

2. Name of Operator
NEWFIELD PRODUCTION COMPANY

6. If Indian, Allottee or Tribe Name

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

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

7. Unit or CA Agreement Name and No.
UTU87538X

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

 At surface 1805' FSL 2226' FEL (NW/SE) SEC 2 T9S R17E (ML-45555)

 At top prod. interval reported below 2472' FSL 2589' FEL (NW/SE) SEC 2 T9S R17E (ML-45555)

 At total depth 2471' FSL 2537' FWL (SE/NW) SEC 2 T9S R17E (ML-45555)

8. Lease Name and Well No.
GMBU M-2-9-17

9. API Well No.
43-047-52762

10. Field and Pool or Exploratory
MONUMENT BUTTE

11. Sec., T., R., M., on Block and
Survey or Area SEC 2 T9S R17E Mer SLB

14. Date Spudded
09/08/2014

15. Date T.D. Reached
09/22/2014

12. County or Parish
UINTAH

13. State
UT

18. Total Depth: MD 6191'
TVD 6057'

19. Plug Back T.D.: MD 6161'
TVD

20. Depth Bridge Plug Set: MD
TVD

17. Elevations (DF, RKB, RT, GL)*
5087' GL 5098' KB

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

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

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

Hole Size	Size/Grade	Wt. (#/ft.)	Top (MD)	Bottom (MD)	Stage Cementer Depth	No. of Sks. & Type of Cement	Slurry Vol. (BBL)	Cement Top*	Amount Pulled
12-1/4"	8-5/8" J-55	24	0'	333'		155 CLASS G			
7-7/8"	5-1/2" J-55	15.50	0'	6185'		220 Econocem		50'	
						415Expandacem			

24. Tubing Record

Size	Depth Set (MD)	Packer Depth (MD)	Size	Depth Set (MD)	Packer Depth (MD)	Size	Depth Set (MD)	Packer Depth (MD)
2-7/8"	EOT@5480'	TA@5343'						

25. Producing Intervals

Formation	Top	Bottom
A) Green River	4216'	5402'
B)		
C)		
D)		

26. Perforation Record

Perforated Interval	Size	No. Holes	Perf. Status
4216' - 5402' MD	0.34	54	

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

Depth Interval	Amount and Type of Material
4216' - 5402' MD	Frac w/ 363,900#s of 20/40 white sand in 2,796 bbls of Lightning 17 fluid, in 3 stages.

28. Production - Interval A

Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
10/9/14	10/19/14	24	→	73	0	60			2.5 X 1.75 X 20 X 21 X 22 RHAC
Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas/Oil Ratio	Well Status	
			→					PRODUCING	

28a. Production - Interval B

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

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

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

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

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

30. Summary of Porous Zones (Include Aquifers):

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

31. Formation (Log) Markers
GEOLOGICAL MARKERS

Formation	Top	Bottom	Descriptions, Contents, etc.	Name	Top
					Meas. Depth
				GARDEN GULCH MARK GARDEN GULCH 1	3806' 3980'
				GARDEN GULCH 2 POINT 3	4097' 4362'
				X MRKR Y MRKR	4597' 4633'
				DOUGLAS CREEK MRK BI CARBONATE MRK	4765' 5020'
				B LIMESTONE MRK CASTLE PEAK	5153' 5602'
				BASAL CARBONATE WASATCH	6031' 6158'

32. Additional remarks (include plugging procedure):

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

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

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

Name (please print) Heather Calder Title Regulatory Technician
 Signature  Date 10/27/2014

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



NEWFIELD EXPLORATION

**USGS Myton SW (UT)
SECTION 2 T9S, R17E
M-2-9-17
Wellbore #1**

Design: Actual

End of Well Report

24 September, 2014





Payzone Directional

End of Well Report



Company: NEWFIELD EXPLORATION
Project: USGS Myton SW (UT)
Site: SECTION 2 T9S, R17E
Well: M-2-9-17
Wellbore: Wellbore #1
Design: Actual

Local Co-ordinate Reference: Well M-2-9-17
TVD Reference: M-2-9-17 @ 5062.0usft (SS # 2)
MD Reference: M-2-9-17 @ 5062.0usft (SS # 2)
North Reference: True
Survey Calculation Method: Minimum Curvature
Database: EDM 5000.1 Single User Db

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

System Datum: Mean Sea Level

Site: SECTION 2 T9S, R17E, SEC 2 T9S, R17E

Site Position: Northing: 7,194,800.00 usft Latitude: 40° 3' 41.746 N
From: Easting: 2,067,293.09 usft Longitude: 109° 58' 29.067 W
Position Uncertainty: Slot Radius: 13-3/16 " Grid Convergence: 0.98 °

Well: M-2-9-17, SHL: 40 03 27.49 -109 58 20.42

Well Position: +N/-S 0.0 usft Latitude: 40° 3' 27.490 N
 +E/-W 0.0 usft Longitude: 109° 58' 20.420 W
Position Uncertainty: Wellhead Elevation: 5,062.0 usft Ground Level: 5,051.0 usft

Wellbore	Wellbore #1
Magnetics	
Model Name	IGRF2010
Sample Date	9/14/2014
Declination (°)	10.86
Dip Angle (°)	65.74
Field Strength (nT)	51,972

Design	Actual
Audit Notes:	
Version:	1.0
Phase:	ACTUAL
Tie On Depth:	0.0
Vertical Section:	
Depth From (TVD) (usft)	+N/-S (usft)
0.0	0.0
+E/-W (usft)	Direction (°)
0.0	333.24

Survey Program	Date	9/24/2014
From (usft)	To (usft)	Survey (Wellbore)
380.0	6,191.0	Survey #1 (Wellbore #1)
		Tool Name
		MWD
		Description
		MWD - Standard



Payzone Directional

End of Well Report



Company: NEWFIELD EXPLORATION
Project: USGS Myton SW (UT)
Site: SECTION 2 T9S, R17E
Well: M-2-9-17
Wellbore #1: Wellbore #1
Design: Actual

Local Co-ordinate Reference:
TVD Reference: M-2-9-17 @ 5062.0usft (SS # 2)
MD Reference: M-2-9-17 @ 5062.0usft (SS # 2)
North Reference: True
Survey Calculation Method: Minimum Curvature
Database: EDM 5000.1 Single User Db

Well M-2-9-17
 M-2-9-17 @ 5062.0usft (SS # 2)
 M-2-9-17 @ 5062.0usft (SS # 2)
 True
 Minimum Curvature
 EDM 5000.1 Single User Db

Survey	MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	V. Sec (usft)	N/S (usft)	E/W (usft)	DLeg (°/100usft)	Build (°/100usft)	Turn (°/100usft)
	0.0	0.00	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.00
	380.0	0.35	171.66	380.0	-1.1	-1.1	0.2	0.09	0.09	0.00
	410.0	0.44	231.82	410.0	-1.2	-1.3	0.1	1.35	0.30	200.53
	441.0	0.35	173.06	441.0	-1.3	-1.5	0.0	1.28	-0.29	-188.55
	472.0	0.40	235.82	472.0	-1.4	-1.6	-0.1	1.27	0.16	202.45
	503.0	0.44	190.46	503.0	-1.5	-1.8	-0.2	1.05	0.13	-146.32
	533.0	0.48	260.34	533.0	-1.6	-1.9	-0.3	1.76	0.13	232.93
	564.0	0.66	286.31	564.0	-1.4	-1.9	-0.6	1.00	0.58	83.77
	595.0	0.77	323.45	595.0	-1.1	-1.7	-0.9	1.51	0.35	119.81
	626.0	1.27	334.69	626.0	-0.6	-1.2	-1.2	1.73	1.61	36.26
	656.0	1.54	341.24	656.0	0.2	-0.5	-1.5	1.05	0.90	21.83
	687.0	1.77	329.61	687.0	1.1	0.3	-1.8	1.31	0.74	-37.52
	718.0	2.50	325.03	717.9	2.2	1.2	-2.5	2.42	2.35	-14.77
	749.0	2.59	329.77	748.9	3.6	2.4	-3.2	0.74	0.29	15.29
	779.0	3.16	324.76	778.9	5.1	3.7	-4.0	2.07	1.90	-16.70
	810.0	3.57	327.53	809.8	6.9	5.2	-5.0	1.42	1.32	8.94
	841.0	4.09	325.11	840.8	8.9	6.9	-6.2	1.76	1.68	-7.81
	872.0	4.00	325.24	871.7	11.1	8.7	-7.4	0.29	-0.29	0.42
	902.0	4.35	327.88	901.6	13.3	10.5	-8.6	1.33	1.17	8.80
	933.0	4.83	322.39	932.5	15.7	12.5	-10.1	2.10	1.55	-17.71
	964.0	5.02	322.54	963.4	18.3	14.6	-11.7	0.61	0.61	0.48
	995.0	5.84	325.95	994.2	21.2	17.0	-13.4	2.84	2.65	11.00
	1,025.0	6.19	325.55	1,024.1	24.4	19.6	-15.2	1.17	1.17	-1.33
	1,069.0	6.64	329.68	1,067.8	29.2	23.8	-17.8	1.46	1.02	9.39
	1,113.0	6.68	332.23	1,111.5	34.3	28.2	-20.3	0.68	0.09	5.80
	1,157.0	7.04	333.62	1,155.2	39.6	32.9	-22.7	0.90	0.82	3.16
	1,200.0	7.82	334.56	1,197.8	45.2	37.9	-25.1	1.84	1.81	2.19



Payzone Directional

End of Well Report



Company: NEWFIELD EXPLORATION
Project: USGS Myton SW (UT)
Site: SECTION 2 T9S. R17E
Well: M-2-9-17
Wellbore #1: Wellbore #1
Design: Actual

Local Co-ordinate Reference:
TVD Reference: Well M-2-9-17
MD Reference: M-2-9-17 @ 5062.0usft (SS # 2)
North Reference: M-2-9-17 @ 5062.0usft (SS # 2)
Survey Calculation Method: True
Database: Minimum Curvature
 EDM 5000.1 Single User Db

Survey	MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	V. Sec (usft)	N/S (usft)	E/W (usft)	DLeg (°/100usft)	Build (°/100usft)	Turn (°/100usft)
	1,244.0	8.48	334.65	1,241.4	51.4	43.6	-27.8	1.50	1.50	0.20
	1,288.0	9.05	335.48	1,284.9	58.1	49.5	-30.6	1.33	1.30	1.89
	1,332.0	9.14	336.32	1,328.3	65.0	56.0	-33.4	0.36	0.20	1.91
	1,376.0	9.76	337.11	1,371.7	72.3	62.6	-36.3	1.44	1.41	1.80
	1,419.0	9.98	337.73	1,414.1	79.6	69.4	-39.1	0.57	0.51	1.44
	1,463.0	10.46	337.02	1,457.4	87.4	76.6	-42.1	1.13	1.09	-1.61
	1,507.0	10.81	334.47	1,500.6	95.5	84.0	-45.4	1.33	0.80	-5.80
	1,551.0	11.56	331.53	1,543.8	104.0	91.6	-49.3	2.14	1.70	-6.68
	1,595.0	12.00	328.36	1,586.9	113.0	99.4	-53.8	1.78	1.00	-7.20
	1,638.0	12.66	327.97	1,628.9	122.1	107.2	-58.7	1.55	1.53	-0.91
	1,682.0	13.01	328.45	1,671.8	131.9	115.5	-63.8	0.83	0.80	1.09
	1,726.0	13.32	328.94	1,714.6	141.9	124.1	-69.0	0.75	0.70	1.11
	1,770.0	13.75	329.73	1,757.4	152.1	132.9	-74.3	1.06	0.98	1.80
	1,814.0	14.15	331.45	1,800.1	162.7	142.2	-79.5	1.31	0.91	3.91
	1,857.0	13.93	330.91	1,841.8	173.2	151.3	-84.5	0.60	-0.51	-1.26
	1,901.0	14.02	331.00	1,884.5	183.8	160.6	-89.7	0.21	0.20	0.20
	1,945.0	14.19	330.30	1,927.2	194.5	170.0	-94.9	0.55	0.39	-1.59
	1,989.0	14.68	330.43	1,969.8	205.4	179.5	-100.3	1.12	1.11	0.30
	2,033.0	14.81	329.95	2,012.3	216.6	189.2	-105.9	0.41	0.30	-1.09
	2,077.0	14.63	329.11	2,054.9	227.8	198.8	-111.6	0.63	-0.41	-1.91
	2,120.0	14.90	327.88	2,096.5	238.7	208.2	-117.3	0.96	0.63	-2.86
	2,164.0	14.85	327.05	2,139.0	249.9	217.7	-123.4	0.50	-0.11	-1.89
	2,208.0	14.85	327.49	2,181.5	261.2	227.2	-129.5	0.26	0.00	1.00
	2,252.0	14.68	327.53	2,224.1	272.3	236.6	-135.5	0.39	-0.39	0.09
	2,296.0	14.69	327.27	2,266.6	283.4	246.0	-141.5	0.15	0.02	-0.59
	2,339.0	13.84	327.27	2,308.3	294.0	255.0	-147.2	1.98	-1.98	0.00
	2,383.0	14.15	328.23	2,351.0	304.5	264.0	-152.9	0.88	0.70	2.18



Payzone Directional

End of Well Report



Company: NEWFIELD EXPLORATION
Project: USGS Myton SW (UT)
Site: SECTION 2 T9S, R17E
Well: M-2-9-17
Wellbore #1:
Design: Actual

Local Co-ordinate Reference:
TVD Reference: Well M-2-9-17
MD Reference: M-2-9-17 @ 5062.0usft (SS # 2)
North Reference: M-2-9-17 @ 5062.0usft (SS # 2)
Survey Calculation Method: True
Database: Minimum Curvature
 EDM 5000.1 Single User Db

MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	V. Sec (usft)	N/S (usft)	E/W (usft)	DLeg (°/100usft)	Build (°/100usft)	Turn (°/100usft)
2,427.0	14.41	330.56	2,393.7	315.4	273.3	-158.4	1.43	0.59	5.30
2,471.0	14.24	330.61	2,436.3	326.2	282.8	-163.8	0.39	-0.39	0.11
2,515.0	14.59	332.01	2,478.9	337.2	292.4	-169.0	1.12	0.80	3.18
2,559.0	15.29	334.78	2,521.4	348.5	302.5	-174.1	2.27	1.59	6.30
2,602.0	15.21	335.18	2,562.9	359.8	312.8	-178.9	0.31	-0.19	0.93
2,646.0	15.42	336.14	2,605.3	371.4	323.4	-183.7	0.75	0.48	2.18
2,690.0	15.21	334.30	2,647.8	383.1	333.9	-188.6	1.20	-0.48	-4.18
2,734.0	15.12	334.08	2,690.2	394.6	344.3	-193.6	0.24	-0.20	-0.50
2,778.0	14.90	333.73	2,732.7	406.0	354.5	-198.6	0.54	-0.50	-0.80
2,821.0	15.12	333.64	2,774.3	417.1	364.5	-203.5	0.51	0.51	-0.21
2,865.0	15.25	334.25	2,816.7	428.6	374.9	-208.6	0.47	0.30	1.39
2,909.0	15.03	336.80	2,859.2	440.1	385.3	-213.3	1.59	-0.50	5.80
2,953.0	15.12	337.46	2,901.7	451.5	395.9	-217.8	0.44	0.20	1.50
2,997.0	15.56	336.23	2,944.1	463.1	406.6	-222.4	1.24	1.00	-2.80
3,041.0	16.79	336.93	2,986.4	475.4	417.8	-227.2	2.83	2.80	1.59
3,084.0	17.40	338.52	3,027.5	488.0	429.5	-232.0	1.79	1.42	3.70
3,128.0	16.61	336.93	3,069.6	500.8	441.4	-236.9	2.08	-1.80	-3.61
3,172.0	15.74	334.96	3,111.8	513.0	452.6	-241.9	2.34	-1.98	-4.48
3,216.0	15.73	334.03	3,154.2	525.0	463.4	-247.0	0.57	-0.02	-2.11
3,260.0	15.96	333.64	3,196.5	537.0	474.1	-252.3	0.58	0.52	-0.89
3,304.0	15.56	333.29	3,238.8	548.9	484.8	-257.7	0.93	-0.91	-0.80
3,347.0	15.60	331.05	3,280.3	560.5	495.1	-263.1	1.40	0.09	-5.21
3,391.0	14.94	328.94	3,322.7	572.0	505.1	-268.9	1.96	-1.50	-4.80
3,435.0	14.59	328.41	3,365.3	583.2	514.7	-274.7	0.85	-0.80	-1.20
3,480.0	13.84	327.84	3,408.9	594.2	524.1	-280.5	1.70	-1.67	-1.27
3,523.0	14.19	326.96	3,450.6	604.6	532.8	-286.1	0.95	0.81	-2.05
3,567.0	14.33	327.09	3,493.2	615.4	541.9	-292.0	0.33	0.32	0.30



Payzone Directional

End of Well Report



Company: NEWFIELD EXPLORATION
Project: USGS Mylon SW (UT)
Site: SECTION 2 T9S, R17E
Well: M-2-9-17
Wellbore #1: Wellbore #1
Design: Actual

Local Co-ordinate Reference:
TVD Reference: M-2-9-17 @ 5062.0usft (SS # 2)
MD Reference: M-2-9-17 @ 5062.0usft (SS # 2)
North Reference: True
Survey Calculation Method: Minimum Curvature
Database: EDM 5000.1 Single User Db

Well M-2-9-17
 M-2-9-17 @ 5062.0usft (SS # 2)
 M-2-9-17 @ 5062.0usft (SS # 2)
 True
 Minimum Curvature
 EDM 5000.1 Single User Db

Survey	MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	V. Sec (usft)	N/S (usft)	E/W (usft)	D/Leg (°/100usft)	Build (°/100usft)	Turn (°/100usft)
	3,611.0	13.97	326.21	3,535.9	626.0	550.9	-297.9	0.95	-0.82	-2.00
	3,655.0	13.40	328.28	3,578.7	636.4	559.7	-303.6	1.71	-1.30	4.70
	3,698.0	12.91	330.56	3,620.5	646.2	568.1	-308.6	1.66	-1.14	5.30
	3,742.0	13.05	327.27	3,663.4	656.0	576.5	-313.7	1.71	0.32	-7.48
	3,786.0	13.10	328.45	3,706.3	665.9	585.0	-318.9	0.62	0.11	2.68
	3,830.0	12.52	329.20	3,749.2	675.6	593.3	-324.0	1.37	-1.32	1.70
	3,874.0	12.48	328.01	3,792.1	685.1	601.4	-329.0	0.59	-0.09	-2.70
	3,917.0	12.13	328.67	3,834.1	694.3	609.2	-333.8	0.88	-0.81	1.53
	3,961.0	12.13	332.19	3,877.2	703.5	617.3	-338.3	1.68	0.00	8.00
	4,005.0	11.95	335.31	3,920.2	712.7	625.5	-342.4	1.53	-0.41	7.09
	4,049.0	12.17	334.08	3,963.2	721.9	633.8	-346.3	0.77	0.50	-2.80
	4,092.0	12.66	335.35	4,005.2	731.1	642.2	-350.3	1.30	1.14	2.95
	4,136.0	12.35	332.76	4,048.2	740.6	650.7	-354.4	1.46	-0.70	-5.89
	4,180.0	11.78	331.44	4,091.2	749.8	658.9	-358.7	1.44	-1.30	-3.00
	4,224.0	11.43	330.30	4,134.3	758.7	666.6	-363.0	0.95	-0.80	-2.59
	4,267.0	11.43	329.11	4,176.5	767.2	674.0	-367.3	0.55	0.00	-2.77
	4,311.0	11.64	329.03	4,219.6	775.9	681.5	-371.9	0.48	0.48	-0.18
	4,355.0	11.34	331.18	4,262.7	784.7	689.1	-376.2	1.19	-0.68	4.89
	4,398.0	10.94	334.69	4,304.9	793.0	696.5	-380.0	1.83	-0.93	8.16
	4,442.0	10.50	336.19	4,348.1	801.2	703.9	-383.4	1.18	-1.00	3.41
	4,486.0	10.90	335.88	4,391.3	809.3	711.4	-386.7	0.92	0.91	-0.70
	4,530.0	11.38	337.33	4,434.5	817.8	719.2	-390.1	1.26	1.09	3.30
	4,574.0	11.55	339.71	4,477.6	826.5	727.3	-393.3	1.14	0.39	5.41
	4,617.0	12.17	339.35	4,519.7	835.3	735.6	-396.4	1.45	1.44	-0.84
	4,661.0	12.61	340.45	4,562.7	844.7	744.5	-399.6	1.13	1.00	2.50
	4,705.0	13.05	341.86	4,605.6	854.4	753.7	-402.8	1.23	1.00	3.20
	4,749.0	13.23	340.01	4,648.4	864.3	763.2	-406.1	1.04	0.41	-4.20



Payzone Directional

End of Well Report



Company: NEWFIELD EXPLORATION
Project: USGS Myton SW (UT)
Site: SECTION 2 T9S, R17E
Well: M-2-9-17
Wellbore #1: Wellbore #1
Design: Actual

Local Co-ordinate Reference: Well M-2-9-17
TVD Reference: M-2-9-17 @ 5062.0usft (SS # 2)
MD Reference: M-2-9-17 @ 5062.0usft (SS # 2)
North Reference: True
Survey Calculation Method: Minimum Curvature
Database: EDM 5000.1 Single User Db

Survey	MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	V. Sec (usft)	N/S (usft)	E/W (usft)	DLeg (°/100usft)	Build (°/100usft)	Turn (°/100usft)
	4,793.0	14.02	339.35	4,691.2	874.6	772.9	-409.7	1.83	1.80	-1.50
	4,836.0	14.59	342.08	4,732.9	885.1	782.9	-413.2	2.05	1.33	6.35
	4,880.0	15.86	342.95	4,775.3	896.5	794.0	-416.6	2.93	2.89	1.98
	4,924.0	16.22	343.53	4,817.6	908.5	805.6	-420.1	0.90	0.82	1.32
	4,968.0	15.91	343.88	4,859.9	920.5	817.3	-423.6	0.74	-0.70	0.80
	5,011.0	15.60	343.88	4,901.3	931.9	828.5	-426.8	0.72	-0.72	0.00
	5,055.0	14.41	341.42	4,943.8	943.2	839.4	-430.2	3.07	-2.70	-5.59
	5,099.0	14.19	339.18	4,986.4	953.9	849.6	-433.8	1.35	-0.50	-5.09
	5,143.0	13.93	336.49	5,029.1	964.6	859.5	-437.9	1.60	-0.59	-6.11
	5,187.0	13.93	334.91	5,071.8	975.2	869.1	-442.2	0.86	0.00	-3.59
	5,230.0	13.49	332.19	5,113.6	985.4	878.3	-446.8	1.81	-1.02	-6.33
	5,274.0	13.36	331.40	5,156.4	995.6	887.3	-451.6	0.51	-0.30	-1.80
	5,318.0	13.67	332.06	5,199.2	1,005.9	896.3	-456.5	0.79	0.70	1.50
	5,362.0	13.71	333.95	5,241.9	1,016.3	905.6	-461.2	1.02	0.09	4.30
	5,405.0	14.02	336.45	5,283.7	1,026.6	915.0	-465.5	1.57	0.72	5.81
	5,449.0	13.45	335.70	5,326.4	1,037.0	924.5	-469.7	1.36	-1.30	-1.70
	5,494.0	11.59	335.34	5,370.3	1,046.8	933.4	-473.8	4.14	-4.13	-0.80
	5,537.0	9.98	335.18	5,412.6	1,054.8	940.7	-477.2	3.74	-3.74	-0.37
	5,581.0	9.45	333.20	5,455.9	1,062.2	947.4	-480.4	1.42	-1.20	-4.50
	5,624.0	8.92	333.15	5,498.4	1,069.1	953.5	-483.5	1.23	-1.23	-0.12
	5,668.0	9.45	335.48	5,541.8	1,076.1	959.8	-486.5	1.47	1.20	5.30
	5,712.0	9.71	338.43	5,585.2	1,083.4	966.6	-489.4	1.26	0.59	6.70
	5,756.0	9.93	339.44	5,628.6	1,090.9	973.6	-492.1	0.64	0.50	2.30
	5,800.0	10.06	335.70	5,671.9	1,098.5	980.6	-495.0	1.50	0.30	-8.50
	5,843.0	10.42	336.10	5,714.2	1,106.1	987.6	-498.1	0.85	0.84	0.93
	5,887.0	10.85	339.97	5,757.4	1,114.2	995.1	-501.1	1.89	0.98	8.80
	5,931.0	10.46	338.62	5,800.7	1,122.3	1,002.8	-504.0	1.05	-0.89	-3.07



Payzone Directional

End of Well Report



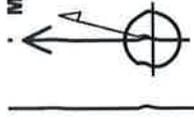
Company: NEWFIELD EXPLORATION
Project: USGS Myton SW (UT)
Site: SECTION 2 T9S, R17E
Well: M-2-9-17
Wellbore: Wellbore #1
Design: Actual

Local Co-ordinate Reference: Well M-2-9-17
TVD Reference: M-2-9-17 @ 5062.0usft (SS # 2)
MD Reference: M-2-9-17 @ 5062.0usft (SS # 2)
North Reference: True
Survey Calculation Method: Minimum Curvature
Database: EDM 5000.1 Single User Db

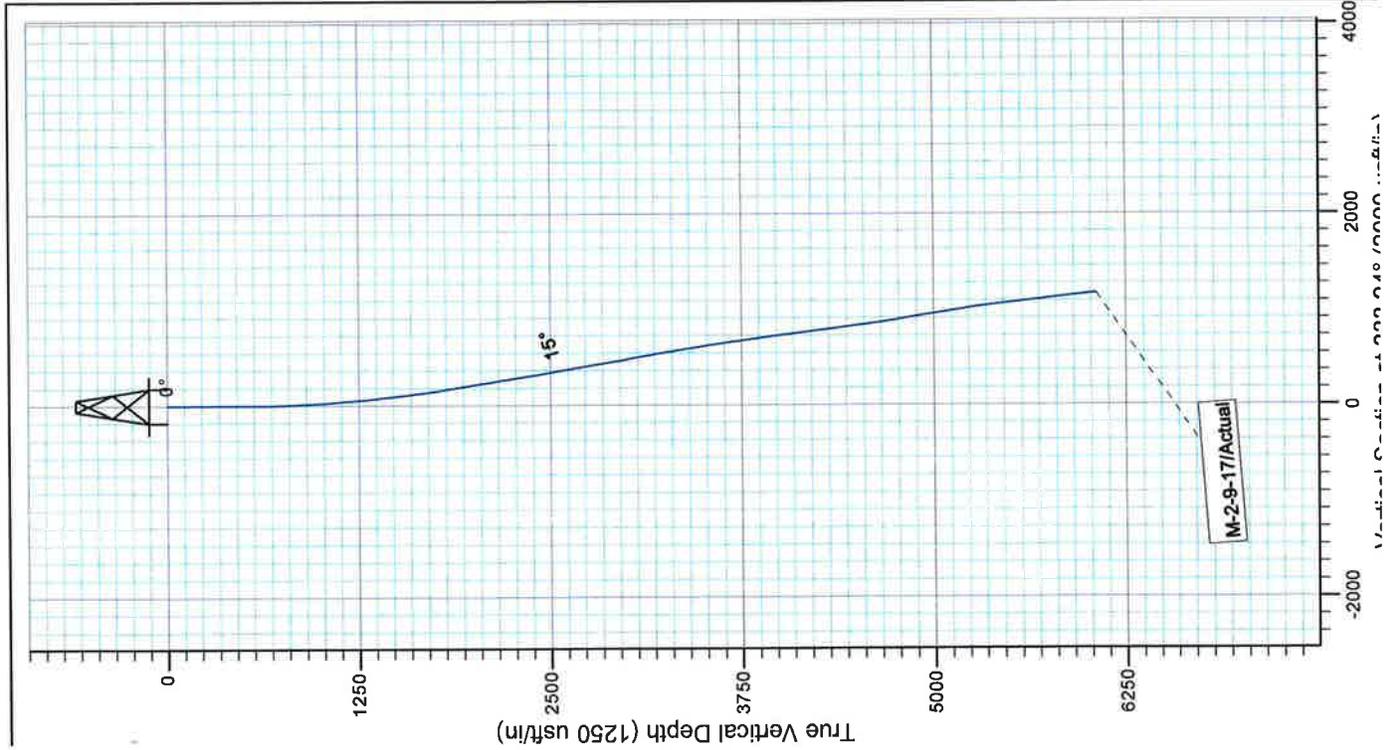
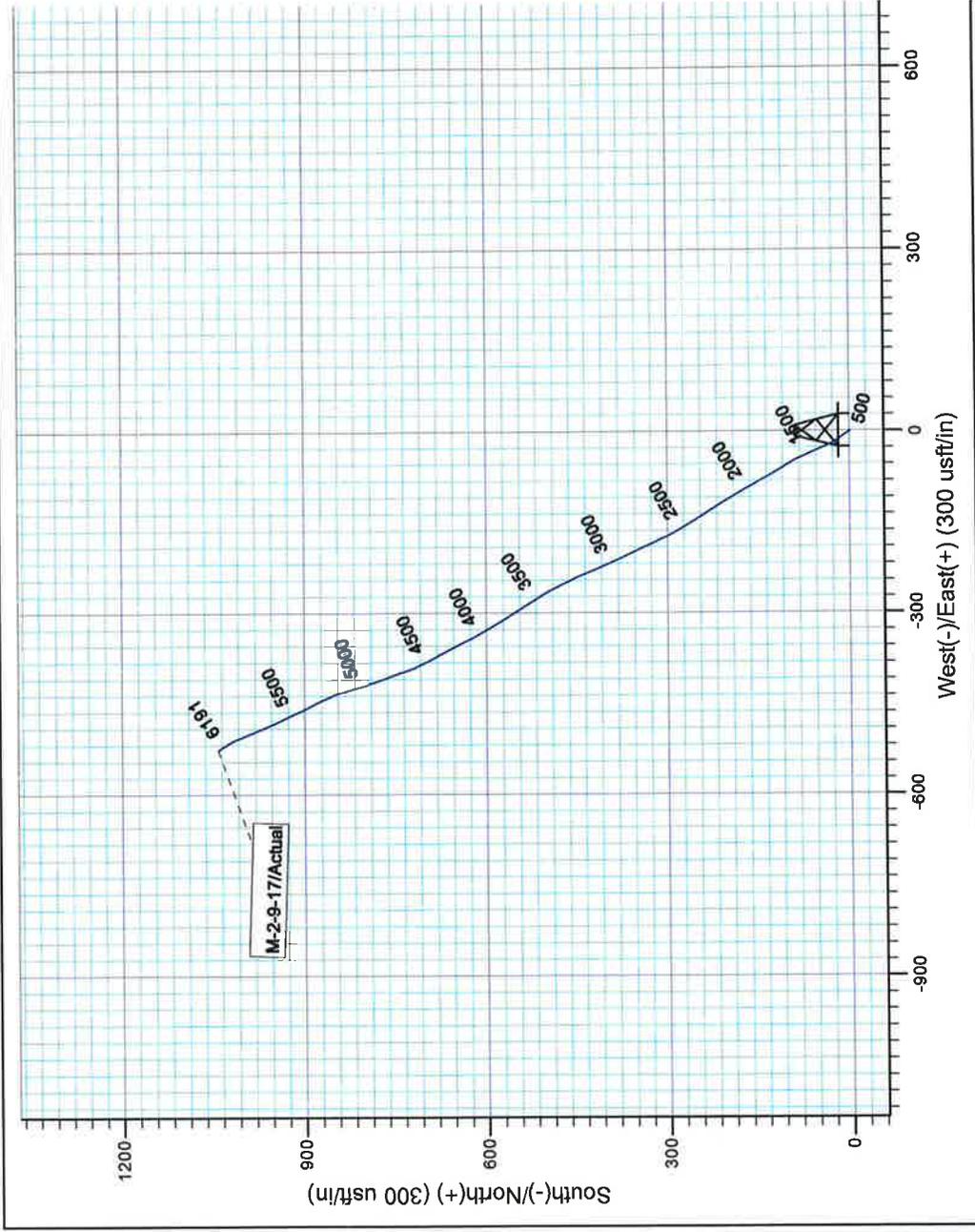
MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	V. Sec (usft)	N/S (usft)	E/W (usft)	DLeg (°/100usft)	Build (°/100usft)	Turn (°/100usft)
5,975.0	10.50	336.98	5,844.0	1,130.3	1,010.2	-507.0	0.68	0.09	-3.73
6,019.0	10.59	331.84	5,887.2	1,138.3	1,017.4	-510.5	2.15	0.20	-11.68
6,062.0	10.28	330.87	5,929.5	1,146.1	1,024.2	-514.3	0.83	-0.72	-2.26
6,106.0	10.06	327.66	5,972.8	1,153.8	1,030.9	-518.2	1.38	-0.50	-7.30
6,139.0	9.58	326.87	6,005.3	1,159.4	1,035.7	-521.3	1.51	-1.45	-2.39
6,191.0	9.58	326.87	6,056.6	1,168.0	1,042.9	-526.0	0.00	0.00	0.00

Checked By: _____ Approved By: _____ Date: _____

Azimuths to true north
 Magnetic North: 10.86°
 Magnetic Field
 Strength: 51972.4snT
 Dip Angle: 65.74°
 Date: 9/14/2014
 Model: GRF2010



Project: USGS Myton SW (U1)
 Site: SECTION 2 T9S, R17E
 Well: M-2-9-17
 Wellbore: Wellbore #1
 Design: Actual



Design: Actual (M-2-9-17/Wellbore #1)

Created By: Matthew Lindon Date: 9:11, September 24

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





Well Name: GMBU M-2-9-17

Summary Rig Activity

Job Category		Job Start Date	Job End Date
Daily Operations			
Report Start Date	Report End Date	24hr Activity Summary	
10/2/2014	10/3/2014	NU BOPs. Ran CBL. Pressure tested well control stack & csg. Perforated 1st stage.	
Start Time	End Time	End Time	Comment
06:00	08:00	08:00	NU 5K blind rams & FMC 5K frac valve.
Start Time	End Time	End Time	Comment
08:00	11:00	11:00	Ran CBL from 6133' to surface under 0 psi. TOC @ 50'.
Start Time	End Time	End Time	Comment
11:00	13:00	13:00	Pressure test csg to 4200 psi for 30 min. Pressure test each component of the well control stack to 5000 psi for 10 min & low test of 250-300 psi for 5 min.
Start Time	End Time	End Time	Comment
13:00	14:00	14:00	Perforate 1st stage LODC @ 5400-012', 5388-90', 5376-78', 5364-65', 5356-57', 5316-18', 5268-69' @ 2 SPF @ 180 deg phasing w/ 16 gram shaped charge w/ .34" EH & 21.00" pen.
Start Time	End Time	End Time	Comment
14:00	00:00	00:00	SDFN.
Report Start Date	Report End Date	24hr Activity Summary	
10/3/2014	10/4/2014	Frac & flow back 3 stages	
Start Time	End Time	End Time	Comment
00:00	11:00	11:00	SDFN
Start Time	End Time	End Time	Comment
11:00	13:00	13:00	MIRU NCPS frac equipment
Start Time	End Time	End Time	Comment
13:00	13:48	13:48	Frac stage 1, LODC & A1 sands as detailed.
Start Time	End Time	End Time	Comment
13:48	14:48	14:48	Set plug @ 5070'. Perforate stage 2 C sands @ 4989-92', 4979-81' D2 sands 4868-71' & D1 sands @ 4796-98'.
Start Time	End Time	End Time	Comment
14:48	15:18	15:18	Frac stage 2, C, D2 & D1 sds.
Start Time	End Time	End Time	Comment
15:18	16:15	16:15	Set plug @ 4290'. Perforate stage 3, GB2 sands @ 4216-20'.
Start Time	End Time	End Time	Comment
16:15	16:45	16:45	Frac stage 3, GB2.
Start Time	End Time	End Time	Comment
16:45	22:00	22:00	Flowback frac @ approx 3-4 BPM.
Start Time	End Time	End Time	Comment
22:00	00:00	00:00	SDFN
Report Start Date	Report End Date	24hr Activity Summary	
10/6/2014	10/7/2014	Set kill plug. MIRUSU. ND frac valve. NU double pipe rams. Pressure test stack. Run pump lines.	
Start Time	End Time	End Time	Comment
00:00	10:00	10:00	SDFN
Start Time	End Time	End Time	Comment
10:00	12:00	12:00	RU WLT & crane. RIH w/ solid composite plug & set plug @ 3950'. Bleed pressure off well.
Start Time	End Time	End Time	Comment
12:00	14:30	14:30	Move rig from 15-30-8-18 to M-2-9-17.
Start Time	End Time	End Time	Comment
14:30	16:30	16:30	MIRUSU. ND frac valve. NU double pipe rams. RU rig floor. Talley tbq. Run pump lines.
Start Time	End Time	End Time	Comment
16:30	18:30	18:30	Pressure test hydraulic chambers to 3000 psi for 5 min & double pipe rams w/ low test of 250-300 psi for 5 min & high test of 5000 psi for 10 min.
Start Time	End Time	End Time	Comment
18:30	19:30	19:30	Crew travel



Well Name: GMBU M-2-9-17

Summary Rig Activity

Start Time	19:30	End Time	00:00	Comment	SDFN
Report Start Date	10/7/2014	Report End Date	10/8/2014	24hr Activity Summary PU tbg & drill out plugs. Flow well overnight	
Start Time	00:00	End Time	06:00	Comment	SDFN
Start Time	06:00	End Time	07:00	Comment	Crew Travel
Start Time	07:00	End Time	10:00	Comment	Open up well, PU & TIH w/BHA as follows - Used 4-3/4" Chomp bit, XO sub, PSN, 86 jts tbg. Prep & Talley the rest of the tbg. Cont PU & TIH to KP @3950' jt 120, RU RBS Power Swivel #4.
Start Time	10:00	End Time	11:45	Comment	Get Circ & Drill KP in 48 min circ well until workable & take lunch break, pumping less then 1 bbl a min well flowing @250psi @2bbbls/min.
Start Time	11:45	End Time	15:00	Comment	Cont PU & TIH to 2nd plug w/swivel @4290' jt 130, Drill plug in 30 min circ well until workable. Cont PU & TIH to 3rd plug @5070' jt 153, Drill plug in 30 min well made 130 bbbls of oil during circ well clean of sand & plug parts.
Start Time	15:00	End Time	17:30	Comment	Hang Back Power swivel & TIH to PBTD @6161' jt 186, tag fill @5575' jt 169, LD 2 jts & pull 10 stands, Circ well clean & flow back up the csg over night on a 20 Choke, Flat tank full of oil.
Start Time	17:30	End Time	18:30	Comment	Crew travel
Start Time	18:30	End Time	00:00	Comment	SDFN
Report Start Date	10/8/2014	Report End Date	10/9/2014	24hr Activity Summary Clean out to PBTD. Circulate well clean. Flow well overnight.	
Start Time	00:00	End Time	06:00	Comment	SDFN
Start Time	06:00	End Time	07:00	Comment	Crew travel
Start Time	07:00	End Time	09:30	Comment	Check pressure on well csg flowing @250psi, tbg 350psi, RU pump & pump down tbg w/30 bbbls to kill tbg, Returning to Z-tank. TIH w/tbg out of derrick & tag Fill higher @5510' jt 167, Circ well clean of oil, before circ sand, well made 200bbbls of oil
Start Time	09:30	End Time	16:00	Comment	Circ sand out of well 4 jts @ a time, then circ sand up until we get to PBTD @6161' jt 186, Circ well clean of sand.
Start Time	16:00	End Time	16:30	Comment	Get a 15 min SIP - 245psi & Rack out Power swivel.
Start Time	16:30	End Time	17:30	Comment	LD 21 jts tbg EOT @5467' RU well to flow to tank battery on 20/64 Choke. Gained 1 bbl a min while circ sand up, after all the sand was out well was flowing 3 bbbls min
Start Time	17:30	End Time	18:30	Comment	Crew Travel
Start Time	18:30	End Time	00:00	Comment	SDFN
Report Start Date	10/9/2014	Report End Date	10/9/2014	24hr Activity Summary Kill well, round trp tbg & PU rods	
Start Time	00:00	End Time	06:00	Comment	SDFN



Well Name: GMBU M-2-9-17

Summary Rig Activity

Start Time	End Time	Comment
06:00	07:00	Crew travel
07:00	08:30	Check pressure on well 200psi on csg, 300psi on tbg. Bleed down csg to Z-tank to get some pressure off. Circ down tbg @3bbbls/min no pressure w/csg returning to flat tank w/50% choked back, Circ w/150 bbbls 10# brine well died.
08:30	13:00	TOOH w/tbg total of 165 jts & LD bit & sub. TIH w/BHA as follows - NC, 2 jts, PSN, 2 jts, TAC, 161 jts tbg, Pre set TAC, Land well w/Donut RD floor and tbg tongs. ND double pipe rams & Single blind rams. Unland donut & set TAC w/18000# Tension. Top TAC @5341', Top PSN @5410', EOT @5478', 682' Rat Hole to PBTD @6161'. NU B1 adapter flange & XO to Rod equip.
13:00	18:00	Comment Finish preping rods PU & stroke test Weatherford new pump - 2.5x1.75xRHACx20x21x22, dbl valve Cali/Cali, 182" MS, PU & TIH w/30 - 7/8" 8per, 112 - 3/4" 4per, 72 - 7/8" 4per, 8,6,4,2,2 x 7/8" Ponies, PU 1-1/2" x 30 sm Polish rod w/acc. Stroke test pump to 800 psi good, RU PU & stroke test again good. RD rig ready to PWOP w/145" sl @5sprm. SDFN @6:00pm Ready to move to next location.
18:00	19:00	Crew travel