

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

FORM 3

AMENDED REPORT

<b>APPLICATION FOR PERMIT TO DRILL</b>		<b>1. WELL NAME and NUMBER</b> GMBU T-2-9-17
<b>2. TYPE OF WORK</b> DRILL NEW WELL <input checked="" type="checkbox"/> REENTER P&A WELL <input type="checkbox"/> DEEPEN WELL <input type="checkbox"/>		<b>3. FIELD OR WILDCAT</b> MONUMENT BUTTE
<b>4. TYPE OF WELL</b> Oil Well Coalbed Methane Well: NO		<b>5. UNIT or COMMUNITIZATION AGREEMENT NAME</b> GMBU (GRRV)
<b>6. NAME OF OPERATOR</b> NEWFIELD PRODUCTION COMPANY		<b>7. OPERATOR PHONE</b> 435 646-4825
<b>8. ADDRESS OF OPERATOR</b> Rt 3 Box 3630 , Myton, UT, 84052		<b>9. OPERATOR E-MAIL</b> mcrozier@newfield.com
<b>10. MINERAL LEASE NUMBER (FEDERAL, INDIAN, OR STATE)</b> ML-45555	<b>11. MINERAL OWNERSHIP</b> FEDERAL <input type="checkbox"/> INDIAN <input type="checkbox"/> STATE <input checked="" type="checkbox"/> FEE <input type="checkbox"/>	
<b>13. NAME OF SURFACE OWNER (if box 12 = 'fee')</b>		<b>12. SURFACE OWNERSHIP</b> FEDERAL <input type="checkbox"/> INDIAN <input type="checkbox"/> STATE <input checked="" type="checkbox"/> FEE <input type="checkbox"/>
<b>15. ADDRESS OF SURFACE OWNER (if box 12 = 'fee')</b>		<b>14. SURFACE OWNER PHONE (if box 12 = 'fee')</b>
<b>17. INDIAN ALLOTTEE OR TRIBE NAME (if box 12 = 'INDIAN')</b>		<b>16. SURFACE OWNER E-MAIL (if box 12 = 'fee')</b>
<b>18. INTEND TO COMMINGLE PRODUCTION FROM MULTIPLE FORMATIONS</b> YES <input type="checkbox"/> (Submit Commingling Application) NO <input checked="" type="checkbox"/>		<b>19. SLANT</b> VERTICAL <input type="checkbox"/> DIRECTIONAL <input checked="" type="checkbox"/> HORIZONTAL <input type="checkbox"/>

20. LOCATION OF WELL	FOOTAGES	QTR-QTR	SECTION	TOWNSHIP	RANGE	MERIDIAN
LOCATION AT SURFACE	644 FSL 644 FEL	SESE	2	9.0 S	17.0 E	S
Top of Uppermost Producing Zone	1097 FSL 301 FEL	SESE	2	9.0 S	17.0 E	S
At Total Depth	1340 FSL 100 FEL	NESE	2	9.0 S	17.0 E	S

<b>21. COUNTY</b> UINTAH	<b>22. DISTANCE TO NEAREST LEASE LINE (Feet)</b> 100	<b>23. NUMBER OF ACRES IN DRILLING UNIT</b> 20
<b>27. ELEVATION - GROUND LEVEL</b> 5062	<b>25. DISTANCE TO NEAREST WELL IN SAME POOL (Applied For Drilling or Completed)</b> 1240	<b>26. PROPOSED DEPTH</b> MD: 6189 TVD: 6189
	<b>28. BOND NUMBER</b> B001834	<b>29. SOURCE OF DRILLING WATER / WATER RIGHTS APPROVAL NUMBER IF APPLICABLE</b> 437478

**Hole, Casing, and Cement Information**

String	Hole Size	Casing Size	Length	Weight	Grade & Thread	Max Mud Wt.	Cement	Sacks	Yield	Weight
Surf	12.25	8.625	0 - 300	24.0	J-55 ST&C	8.3	Class G	138	1.17	15.8
Prod	7.875	5.5	0 - 6189	15.5	J-55 LT&C	8.3	Premium Lite High Strength	289	3.26	11.0
							50/50 Poz	363	1.24	14.3

**ATTACHMENTS**

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

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

<b>NAME</b> Mandie Crozier	<b>TITLE</b> Regulatory Tech	<b>PHONE</b> 435 646-4825
<b>SIGNATURE</b>	<b>DATE</b> 03/17/2011	<b>EMAIL</b> mcrozier@newfield.com
<b>API NUMBER ASSIGNED</b> 43047515430000	<b>APPROVAL</b>   Permit Manager	

NEWFIELD PRODUCTION COMPANY  
 GMBU T-2-9-17  
 AT SURFACE: SE/SE SECTION 2, T9S, R17E  
 UTAH 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' – 1325'
Green River	1325'
Wasatch	6025'
<b>Proposed TD</b>	<b>6189'</b>

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

Green River Formation (Oil)      1325' – 6025'

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

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

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

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

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

4. **PROPOSED CASING PROGRAM**a. **Casing Design: GMBU T-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'	6,189'	15.5	J-55	LTC	4,810	4,040	217,000
						2.44	2.05	2.26

## 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 T-2-9-17**

Job	Fill	Description	Sacks	OH Excess*	Weight (ppg)	Yield (ft <sup>3</sup> /sk)
			ft <sup>3</sup>			
Surface casing	300'	Class G w/ 2% CaCl	138	30%	15.8	1.17
			161			
Prod casing Lead	4,189'	Prem Lite II w/ 10% gel + 3% KCl	289	30%	11.0	3.26
			944			
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 ±350 feet will be drilled with an air/mist system. The air rig is equipped with a 6 ½" blooie line that is straight run and securely anchored. The blooie line is used with a discharge less than 100 ft from the wellbore in order to minimize the well pad size. The blooie line is not equipped with an automatic igniter or continuous pilot light and the compressor is located less than 100 ft from the well bore due to the low possibility of combustion with the air dust mixture. The trailer mounted compressor (capacity of 2000 CFM) has a safety shut-off valve which is located 15 feet from the air rig. A truck with 70 bbls of water is on stand by to be used as kill fluid, if necessary. From about ±350 feet to TD, a fresh water system will be utilized. Clay inhibition and hole stability will be achieved with a KCl substitute additive. This additive will be identified in the APD and reviewed to determine if the reserve pit shall be lined. This fresh water system will typically contain Total Dissolved Solids (TDS) of less than 3000 PPM. Anticipated mud weight is 8.4 lbs/gal. If necessary to control formation fluids or pressure, the system will be weighted with the addition of bentonite gel, and if pressure conditions warrant, with barite

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

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

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

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

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

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

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

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

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

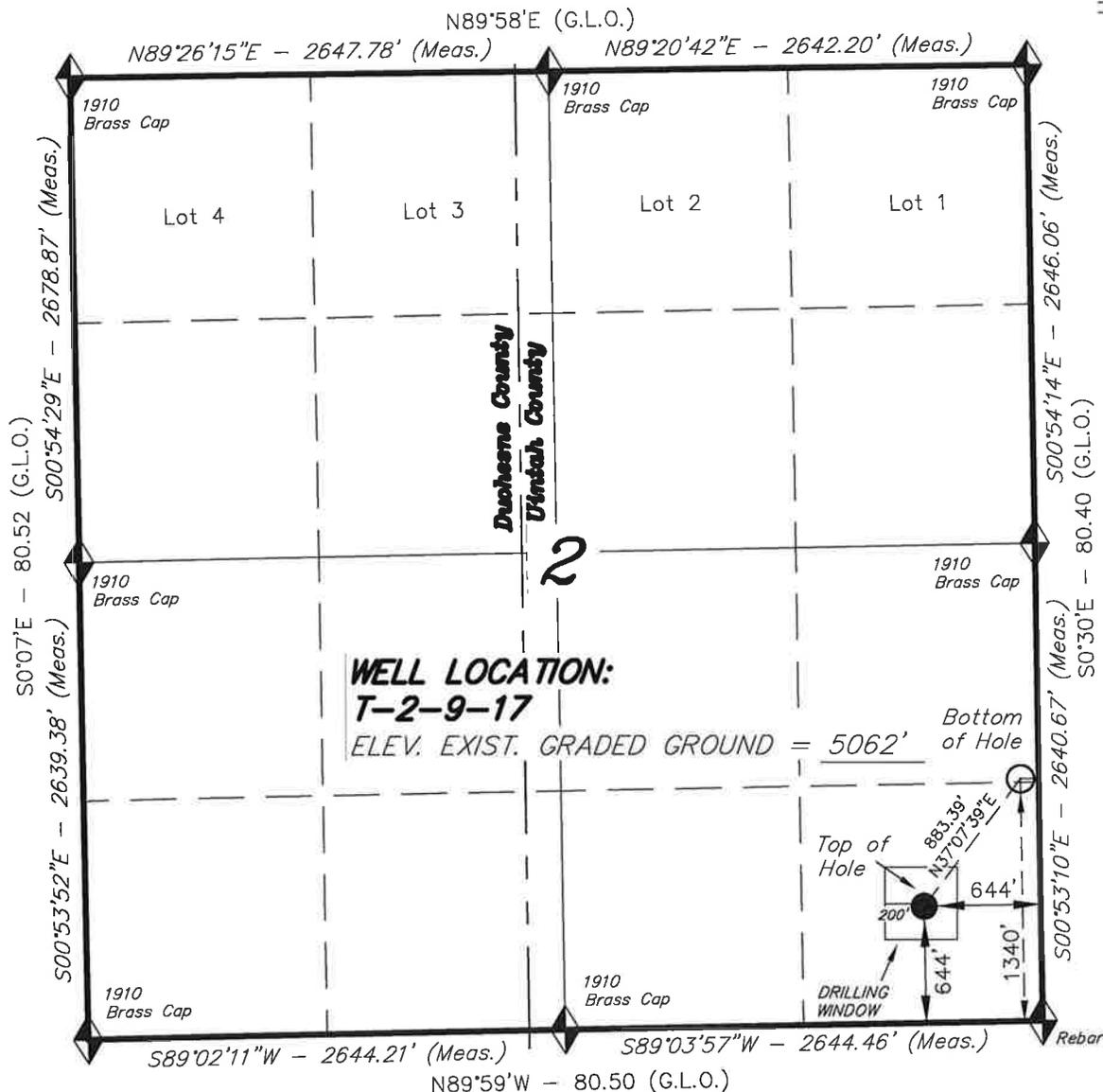
No abnormal temperatures or pressures are anticipated. No hydrogen sulfide has been encountered or is known to exist from previous drilling in the area at this depth. Maximum anticipated bottomhole pressure will approximately equal total depth in feet multiplied by a 0.433 psi/foot gradient.

10. ANTICIPATED STARTING DATE AND DURATION OF THE OPERATIONS:

- 6. It is anticipated that the drilling operations will commence the second quarter of 2011, and take approximately seven (7) days from spud to rig release.

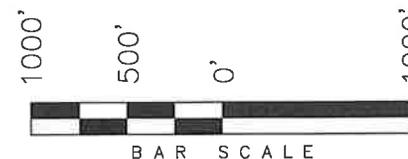
# T9S, R17E, S.L.B.&M.

## NEWFIELD EXPLORATION COMPANY



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

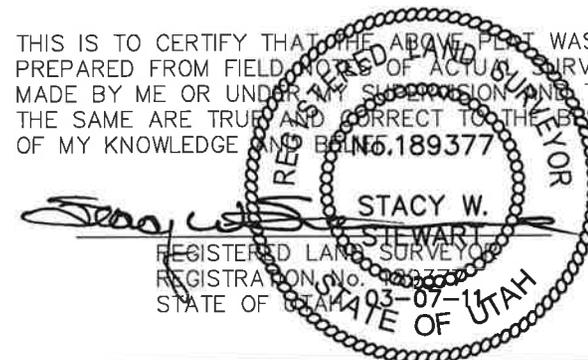
TARGET BOTTOM HOLE, T-2-9-17, LOCATED AS SHOWN IN THE NE 1/4 SE 1/4 OF SECTION 2, T9S, R17E, S.L.B.&M. UINTAH COUNTY, UTAH.



**NOTES:**

1. Well footages are measured at right angles to the Section Lines.
2. Bearings are based on Global Positioning Satellite observations.
3. The Bottom of Hole footages are 1340' FSL & 100' FEL.

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



◆ = SECTION CORNERS LOCATED

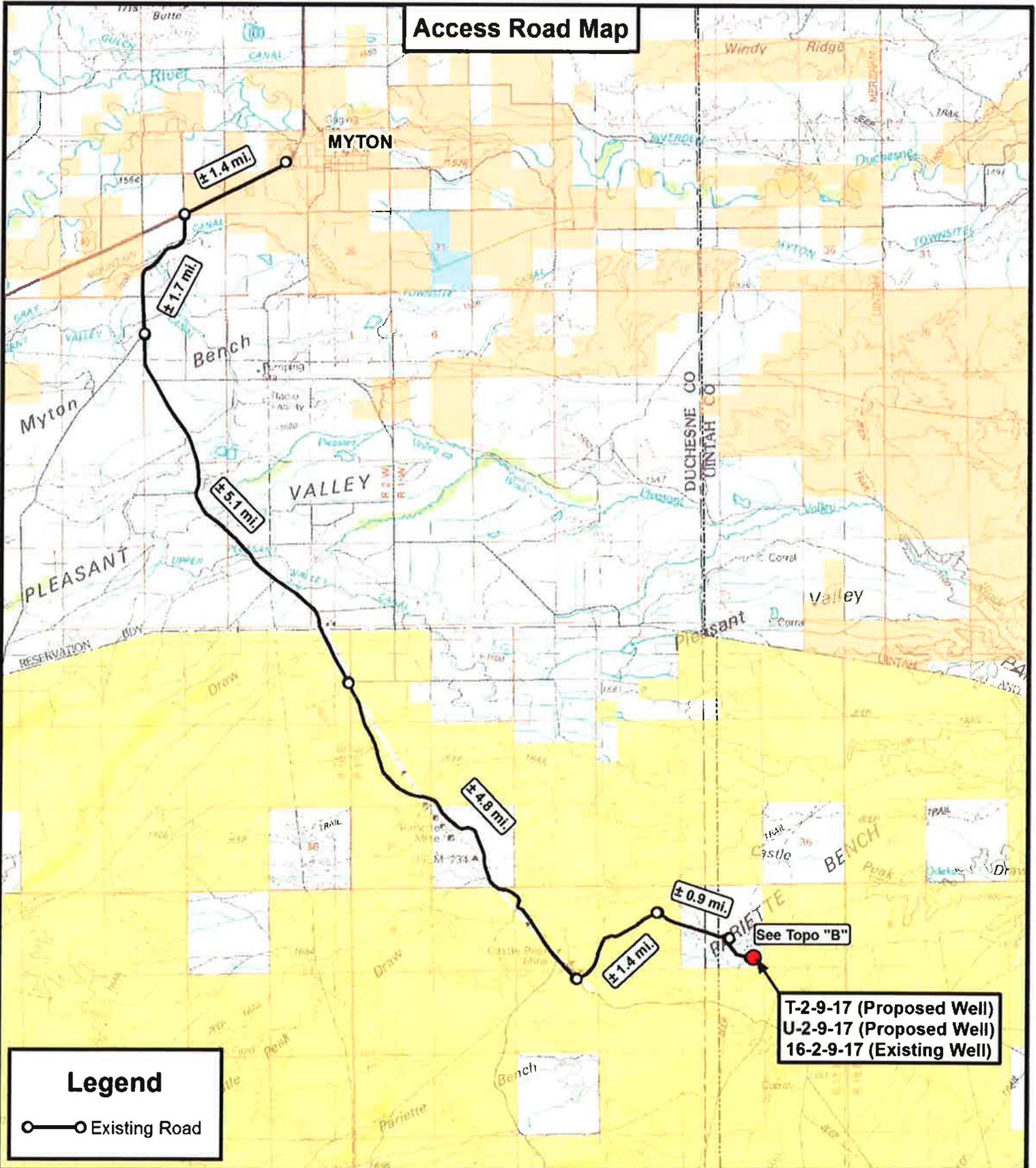
BASIS OF ELEV; Elevations are based on an N.G.S. OPUS Correction. LOCATION: LAT.  $40^{\circ}04'09.56''$  LONG.  $110^{\circ}00'43.28''$  (Tristate Aluminum Cap) Elev. 5281.57'

**T-2-9-17**  
**(Surface Location) NAD 83**  
LATITUDE =  $40^{\circ}03'16.01''$   
LONGITUDE =  $109^{\circ}58'00.11''$

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

DATE SURVEYED: 03-01-11	SURVEYED BY: D.G.
DATE DRAWN: 03-07-11	DRAWN BY: F.T.M.
REVISED:	SCALE: 1" = 1000'

**Access Road Map**



**Legend**

○—○ Existing Road

T-2-9-17 (Proposed Well)  
 U-2-9-17 (Proposed Well)  
 16-2-9-17 (Existing Well)

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

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

DRAWN BY:	C.H.M.
DATE:	03-07-2011
SCALE:	1:100,000



**NEWFIELD EXPLORATION COMPANY**

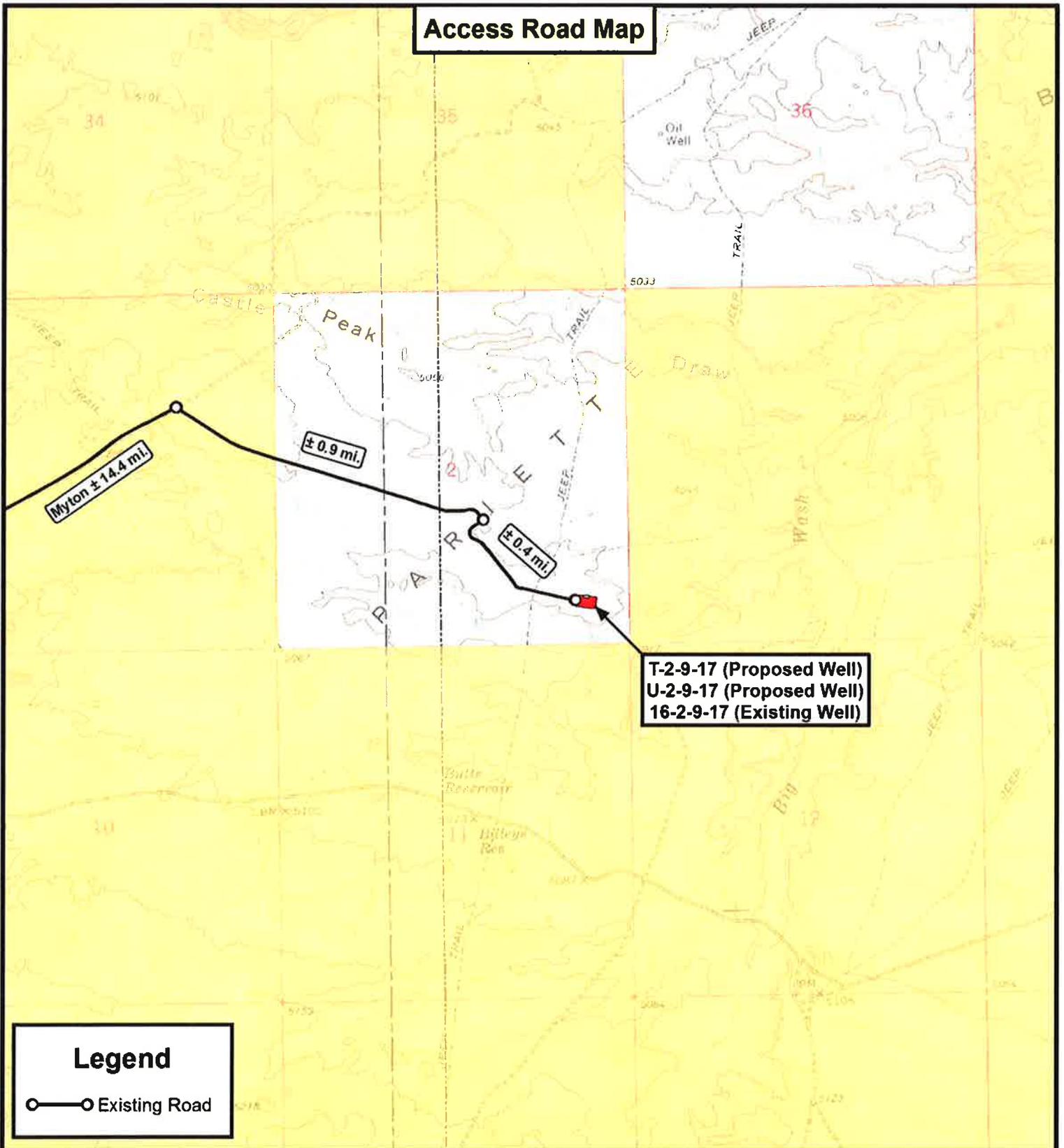
T-2-9-17 (Proposed Well)  
 U-2-9-17 (Proposed Well)  
 16-2-9-17 (Existing Well)  
 SEC. 2, T9S, R17E, S.L.B.&M. Uintah County, UT.

**TOPOGRAPHIC MAP**

SHEET  
**A**

RECEIVED: Mar. 17, 2011

**Access Road Map**



**T-2-9-17 (Proposed Well)  
U-2-9-17 (Proposed Well)  
16-2-9-17 (Existing 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.

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

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



**NEWFIELD EXPLORATION COMPANY**

T-2-9-17 (Proposed Well)  
U-2-9-17 (Proposed Well)  
16-2-9-17 (Existing Well)  
SEC. 2, T9S, R17E, S.L.B.&M. Uintah County, UT.

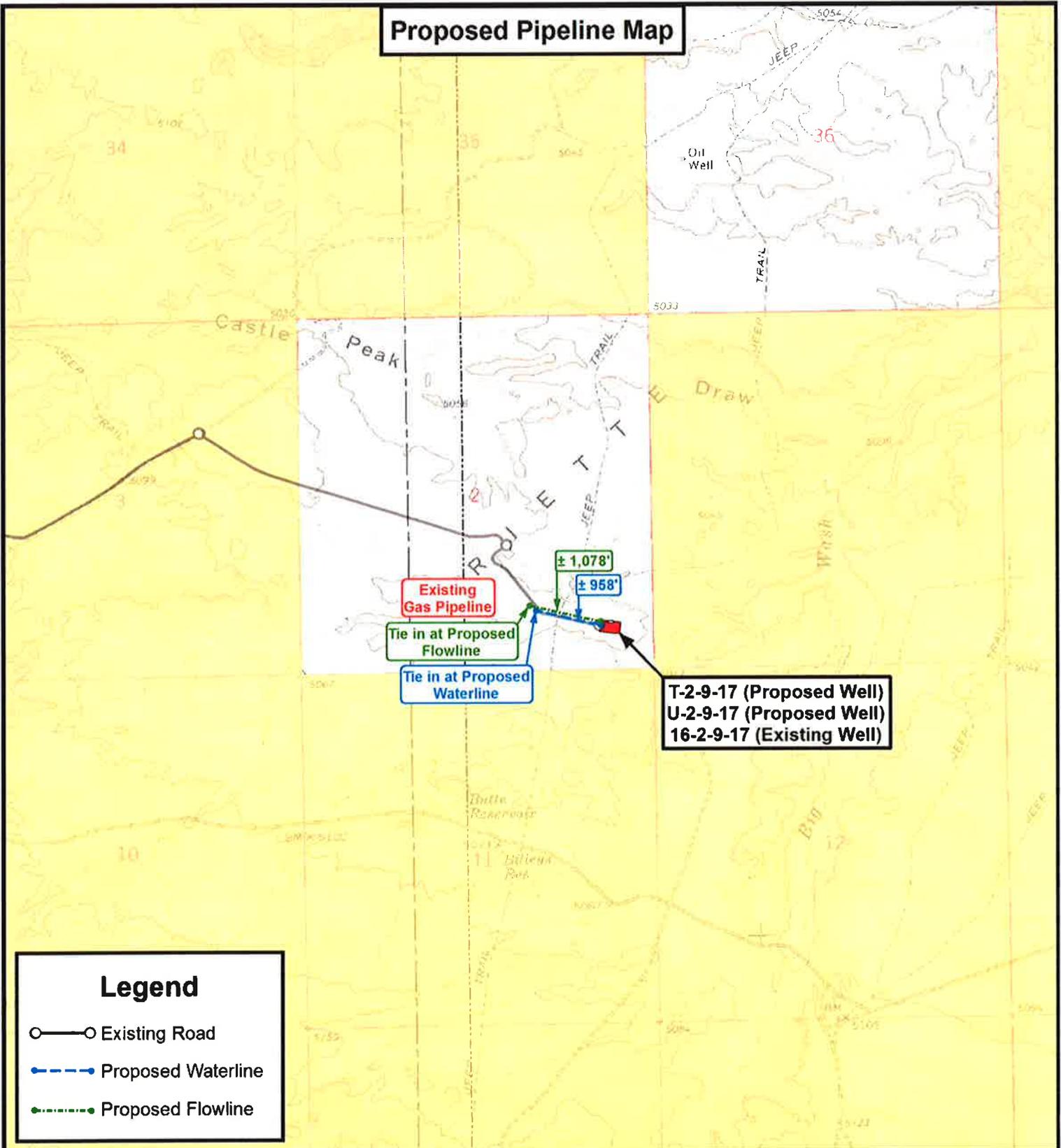
DRAWN BY:	C.H.M.
DATE:	03-07-2011
SCALE:	1" = 2,000'

**TOPOGRAPHIC MAP**

SHEET  
**B**

RECEIVED: Mar 17, 2011

**Proposed Pipeline Map**



Existing Gas Pipeline

Tie in at Proposed Flowline

Tie in at Proposed Waterline

T-2-9-17 (Proposed Well)  
 U-2-9-17 (Proposed Well)  
 16-2-9-17 (Existing Well)

± 1,078'  
 ± 958'

**Legend**

- Existing Road
- Proposed Waterline
- ..... Proposed Flowline

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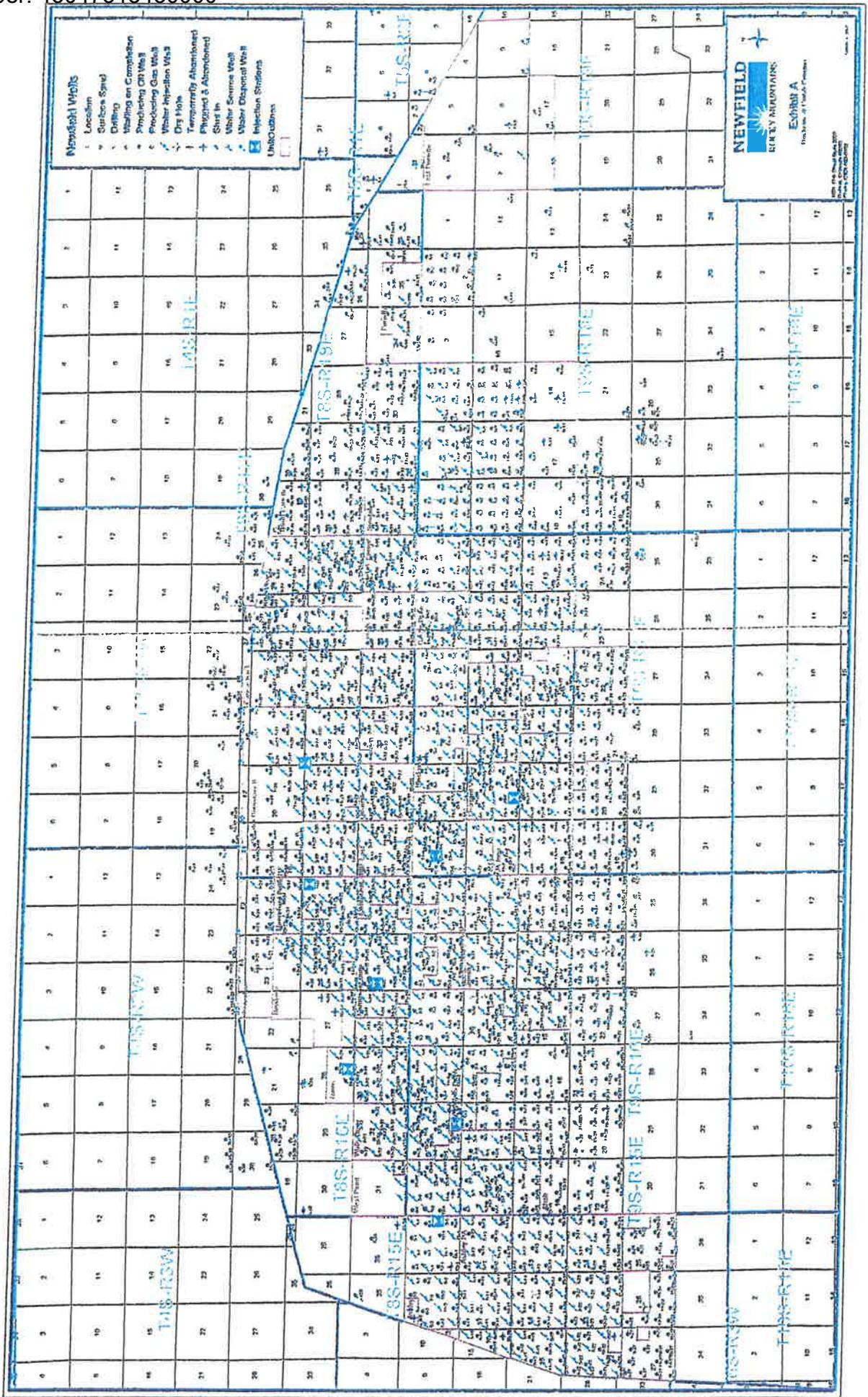
**NEWFIELD EXPLORATION COMPANY**  
 T-2-9-17 (Proposed Well)  
 U-2-9-17 (Proposed Well)  
 16-2-9-17 (Existing Well)  
 SEC. 2, T9S, R17E, S.L.B.&M. Uintah County, UT.

DRAWN BY:	C.H.M.
DATE:	03-07-2011
SCALE:	1" = 2,000'

**TOPOGRAPHIC MAP**

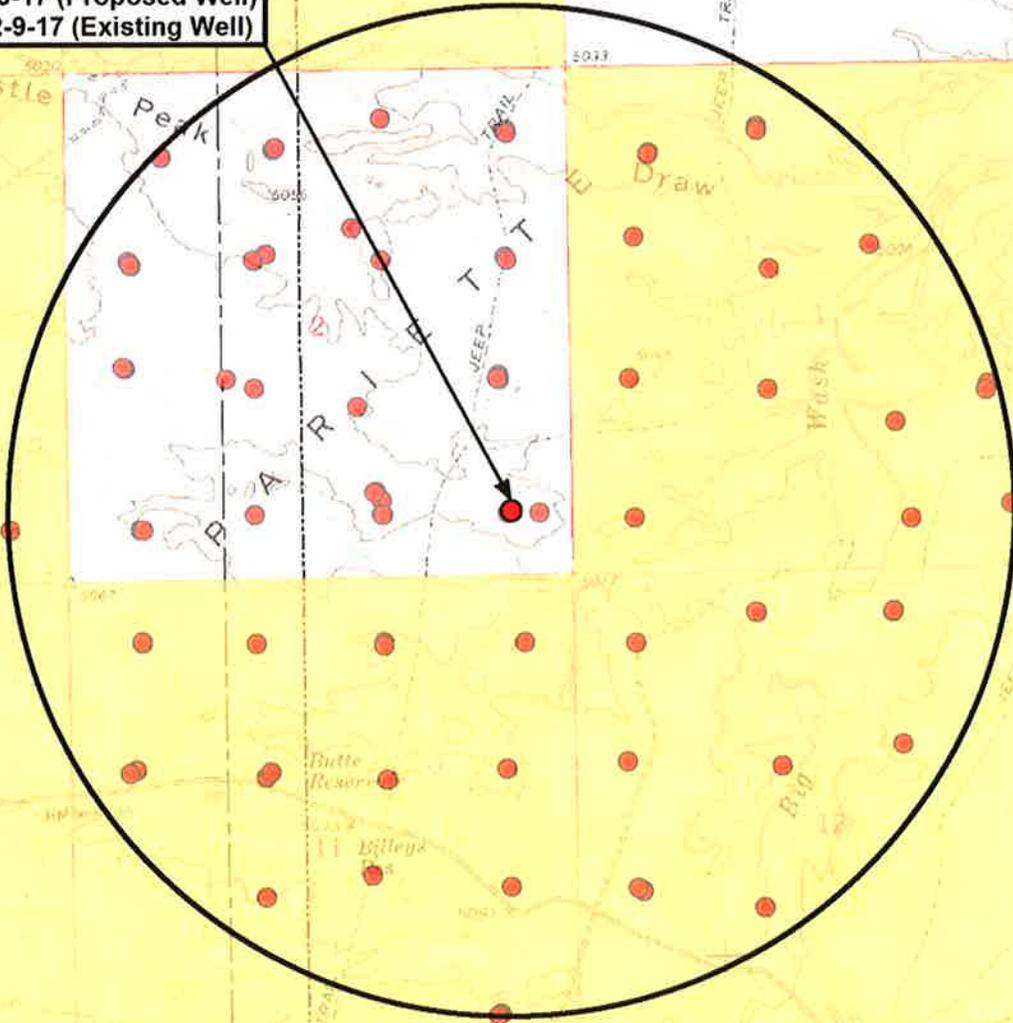
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RECEIVED: Mar. 17, 2011



**Exhibit "B" Map**

T-2-9-17 (Proposed Well)  
 U-2-9-17 (Proposed Well)  
 16-2-9-17 (Existing Well)



**Legend**

-  1 Mile Radius
-  Pad Location

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**NEWFIELD EXPLORATION COMPANY**

T-2-9-17 (Proposed Well)  
 U-2-9-17 (Proposed Well)  
 16-2-9-17 (Existing Well)  
 SEC. 2, T9S, R17E, S.L.B.&M. Uintah County, UT.

DRAWN BY:	C.H.M.
DATE:	03-07-2011
SCALE:	1" = 2,000'

**TOPOGRAPHIC MAP**

SHEET  
**D**

RECEIVED: Mar. 17, 2011



# **NEWFIELD EXPLORATION**

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

**Wellbore #1**

**Plan: Design #1**

## **Standard Planning Report**

**15 March, 2011**





**PayZone Directional Services, LLC.**  
 Planning Report



<b>Database:</b>	EDM 2003.21 Single User Db	<b>Local Co-ordinate Reference:</b>	Well T-2-9-17
<b>Company:</b>	NEWFIELD EXPLORATION	<b>TVD Reference:</b>	T-2-9-17 @ 5074.0ft (Newfield Rig)
<b>Project:</b>	USGS Myton SW (UT)	<b>MD Reference:</b>	T-2-9-17 @ 5074.0ft (Newfield Rig)
<b>Site:</b>	SECTION 2 T9S, R17E	<b>North Reference:</b>	True
<b>Well:</b>	T-2-9-17	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	Wellbore #1		
<b>Design:</b>	Design #1		

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

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

<b>Well</b>	T-2-9-17, SHL LAT: 40 03 16.01 LONG: -109 58 00.11					
<b>Well Position</b>	<b>+N/-S</b>	-2,604.1 ft	<b>Northing:</b>	7,192,234.88 ft	<b>Latitude:</b>	40° 3' 16.010 N
	<b>+E/-W</b>	2,251.3 ft	<b>Easting:</b>	2,069,588.70 ft	<b>Longitude:</b>	109° 58' 0.110 W
<b>Position Uncertainty</b>		0.0 ft	<b>Wellhead Elevation:</b>	5,074.0 ft	<b>Ground Level:</b>	5,062.0 ft

<b>Wellbore</b>	Wellbore #1				
<b>Magnetics</b>	<b>Model Name</b>	<b>Sample Date</b>	<b>Declination (°)</b>	<b>Dip Angle (°)</b>	<b>Field Strength (nT)</b>
	IGRF2010	2011/03/15	11.31	65.83	52,318

<b>Design</b>	Design #1				
<b>Audit Notes:</b>					
<b>Version:</b>	<b>Phase:</b>	PROTOTYPE	<b>Tie On Depth:</b>	0.0	
<b>Vertical Section:</b>	<b>Depth From (TVD) (ft)</b>	<b>+N/-S (ft)</b>	<b>+E/-W (ft)</b>	<b>Direction (°)</b>	
	5,100.0	0.0	0.0	37.13	

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	
1,412.1	12.18	37.13	1,406.0	68.6	51.9	1.50	1.50	0.00	37.13	
5,191.2	12.18	37.13	5,100.0	704.3	533.2	0.00	0.00	0.00	0.00	T-2-9-17 TGT
6,188.6	12.18	37.13	6,075.0	872.1	660.2	0.00	0.00	0.00	0.00	



**PayZone Directional Services, LLC.**  
 Planning Report



<b>Database:</b>	EDM 2003.21 Single User Db	<b>Local Co-ordinate Reference:</b>	Well T-2-9-17
<b>Company:</b>	NEWFIELD EXPLORATION	<b>TVD Reference:</b>	T-2-9-17 @ 5074.0ft (Newfield Rig)
<b>Project:</b>	USGS Myton SW (UT)	<b>MD Reference:</b>	T-2-9-17 @ 5074.0ft (Newfield Rig)
<b>Site:</b>	SECTION 2 T9S, R17E	<b>North Reference:</b>	True
<b>Well:</b>	T-2-9-17	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	Wellbore #1		
<b>Design:</b>	Design #1		

**Planned Survey**

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.00	0.00	0.00
100.0	0.00	0.00	100.0	0.0	0.0	0.0	0.00	0.00	0.00
200.0	0.00	0.00	200.0	0.0	0.0	0.0	0.00	0.00	0.00
300.0	0.00	0.00	300.0	0.0	0.0	0.0	0.00	0.00	0.00
400.0	0.00	0.00	400.0	0.0	0.0	0.0	0.00	0.00	0.00
500.0	0.00	0.00	500.0	0.0	0.0	0.0	0.00	0.00	0.00
600.0	0.00	0.00	600.0	0.0	0.0	0.0	0.00	0.00	0.00
700.0	1.50	37.13	700.0	1.0	0.8	1.3	1.50	1.50	0.00
800.0	3.00	37.13	799.9	4.2	3.2	5.2	1.50	1.50	0.00
900.0	4.50	37.13	899.7	9.4	7.1	11.8	1.50	1.50	0.00
1,000.0	6.00	37.13	999.3	16.7	12.6	20.9	1.50	1.50	0.00
1,100.0	7.50	37.13	1,098.6	26.1	19.7	32.7	1.50	1.50	0.00
1,200.0	9.00	37.13	1,197.5	37.5	28.4	47.0	1.50	1.50	0.00
1,300.0	10.50	37.13	1,296.1	51.0	38.6	64.0	1.50	1.50	0.00
1,400.0	12.00	37.13	1,394.2	66.6	50.4	83.5	1.50	1.50	0.00
1,412.1	12.18	37.13	1,406.0	68.6	51.9	86.0	1.50	1.50	0.00
1,500.0	12.18	37.13	1,491.9	83.4	63.1	104.6	0.00	0.00	0.00
1,600.0	12.18	37.13	1,589.7	100.2	75.8	125.7	0.00	0.00	0.00
1,700.0	12.18	37.13	1,687.4	117.0	88.6	146.8	0.00	0.00	0.00
1,800.0	12.18	37.13	1,785.2	133.8	101.3	167.9	0.00	0.00	0.00
1,900.0	12.18	37.13	1,882.9	150.6	114.0	189.0	0.00	0.00	0.00
2,000.0	12.18	37.13	1,980.7	167.5	126.8	210.1	0.00	0.00	0.00
2,100.0	12.18	37.13	2,078.4	184.3	139.5	231.2	0.00	0.00	0.00
2,200.0	12.18	37.13	2,176.2	201.1	152.3	252.3	0.00	0.00	0.00
2,300.0	12.18	37.13	2,273.9	217.9	165.0	273.4	0.00	0.00	0.00
2,400.0	12.18	37.13	2,371.7	234.8	177.7	294.5	0.00	0.00	0.00
2,500.0	12.18	37.13	2,469.4	251.6	190.5	315.6	0.00	0.00	0.00
2,600.0	12.18	37.13	2,567.2	268.4	203.2	336.7	0.00	0.00	0.00
2,700.0	12.18	37.13	2,664.9	285.2	215.9	357.8	0.00	0.00	0.00
2,800.0	12.18	37.13	2,762.6	302.1	228.7	378.9	0.00	0.00	0.00
2,900.0	12.18	37.13	2,860.4	318.9	241.4	400.0	0.00	0.00	0.00
3,000.0	12.18	37.13	2,958.1	335.7	254.1	421.1	0.00	0.00	0.00
3,100.0	12.18	37.13	3,055.9	352.5	266.9	442.2	0.00	0.00	0.00
3,200.0	12.18	37.13	3,153.6	369.3	279.6	463.3	0.00	0.00	0.00
3,300.0	12.18	37.13	3,251.4	386.2	292.3	484.4	0.00	0.00	0.00
3,400.0	12.18	37.13	3,349.1	403.0	305.1	505.5	0.00	0.00	0.00
3,500.0	12.18	37.13	3,446.9	419.8	317.8	526.6	0.00	0.00	0.00
3,600.0	12.18	37.13	3,544.6	436.6	330.6	547.7	0.00	0.00	0.00
3,700.0	12.18	37.13	3,642.4	453.5	343.3	568.8	0.00	0.00	0.00
3,800.0	12.18	37.13	3,740.1	470.3	356.0	589.9	0.00	0.00	0.00
3,900.0	12.18	37.13	3,837.9	487.1	368.8	611.0	0.00	0.00	0.00
4,000.0	12.18	37.13	3,935.6	503.9	381.5	632.1	0.00	0.00	0.00
4,100.0	12.18	37.13	4,033.4	520.8	394.2	653.2	0.00	0.00	0.00
4,200.0	12.18	37.13	4,131.1	537.6	407.0	674.3	0.00	0.00	0.00
4,300.0	12.18	37.13	4,228.9	554.4	419.7	695.4	0.00	0.00	0.00
4,400.0	12.18	37.13	4,326.6	571.2	432.4	716.5	0.00	0.00	0.00
4,500.0	12.18	37.13	4,424.4	588.0	445.2	737.6	0.00	0.00	0.00
4,600.0	12.18	37.13	4,522.1	604.9	457.9	758.6	0.00	0.00	0.00
4,700.0	12.18	37.13	4,619.9	621.7	470.6	779.7	0.00	0.00	0.00
4,800.0	12.18	37.13	4,717.6	638.5	483.4	800.8	0.00	0.00	0.00
4,900.0	12.18	37.13	4,815.4	655.3	496.1	821.9	0.00	0.00	0.00
5,000.0	12.18	37.13	4,913.1	672.2	508.9	843.0	0.00	0.00	0.00
5,100.0	12.18	37.13	5,010.9	689.0	521.6	864.1	0.00	0.00	0.00
5,191.2	12.18	37.13	5,100.0	704.3	533.2	883.4	0.00	0.00	0.00



**PayZone Directional Services, LLC.**  
 Planning Report



<b>Database:</b>	EDM 2003.21 Single User Db	<b>Local Co-ordinate Reference:</b>	Well T-2-9-17
<b>Company:</b>	NEWFIELD EXPLORATION	<b>TVD Reference:</b>	T-2-9-17 @ 5074.0ft (Newfield Rig)
<b>Project:</b>	USGS Myton SW (UT)	<b>MD Reference:</b>	T-2-9-17 @ 5074.0ft (Newfield Rig)
<b>Site:</b>	SECTION 2 T9S, R17E	<b>North Reference:</b>	True
<b>Well:</b>	T-2-9-17	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	Wellbore #1		
<b>Design:</b>	Design #1		

**Planned Survey**

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
<b>T-2-9-17 TGT</b>									
5,200.0	12.18	37.13	5,108.6	705.8	534.3	885.2	0.00	0.00	0.00
5,300.0	12.18	37.13	5,206.4	722.6	547.1	906.3	0.00	0.00	0.00
5,400.0	12.18	37.13	5,304.1	739.5	559.8	927.4	0.00	0.00	0.00
5,500.0	12.18	37.13	5,401.9	756.3	572.5	948.5	0.00	0.00	0.00
5,600.0	12.18	37.13	5,499.6	773.1	585.3	969.6	0.00	0.00	0.00
5,700.0	12.18	37.13	5,597.4	789.9	598.0	990.7	0.00	0.00	0.00
5,800.0	12.18	37.13	5,695.1	806.7	610.7	1,011.8	0.00	0.00	0.00
5,900.0	12.18	37.13	5,792.9	823.6	623.5	1,032.9	0.00	0.00	0.00
6,000.0	12.18	37.13	5,890.6	840.4	636.2	1,054.0	0.00	0.00	0.00
6,100.0	12.18	37.13	5,988.4	857.2	649.0	1,075.1	0.00	0.00	0.00
6,188.6	12.18	37.13	6,075.0	872.1	660.2	1,093.9	0.00	0.00	0.00



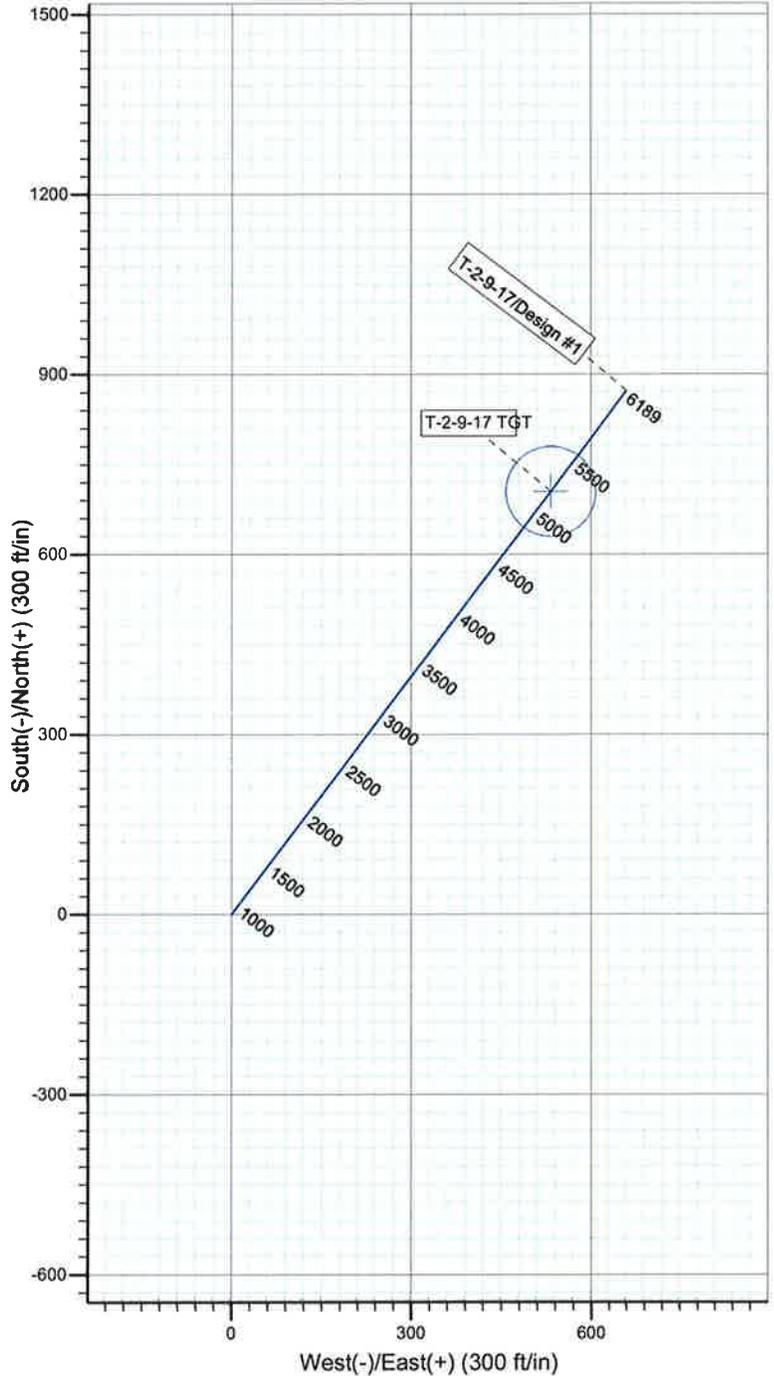
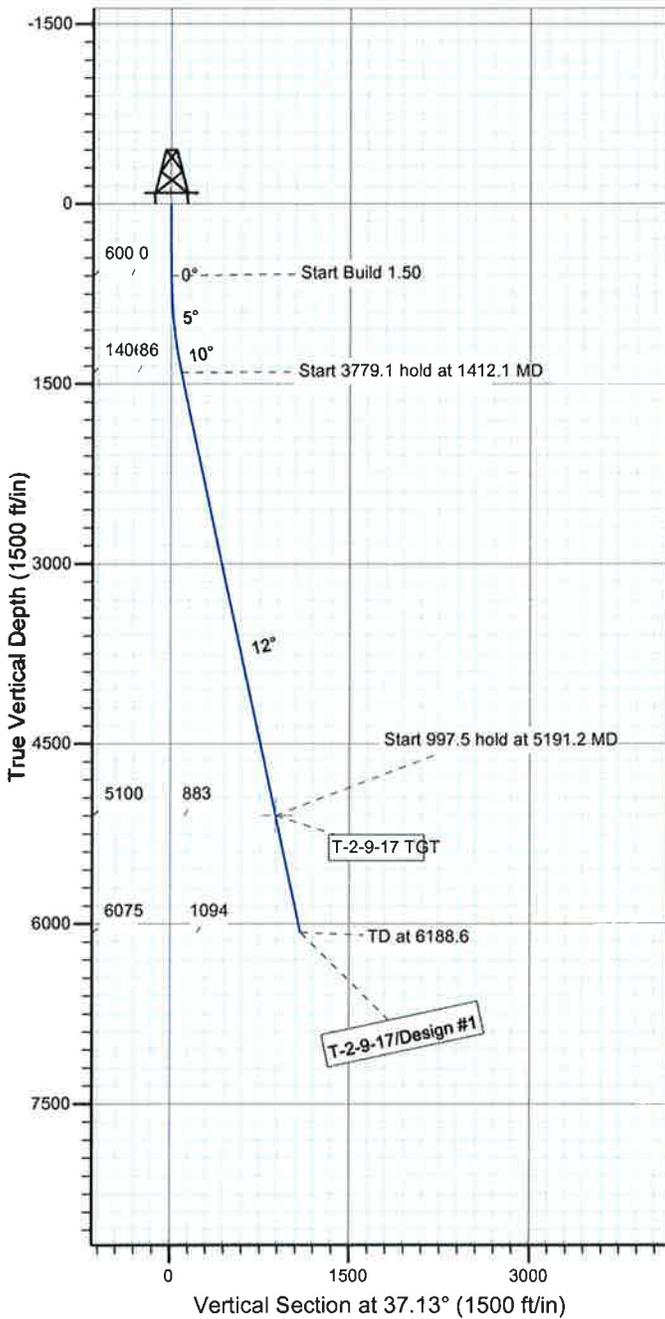
Project: USGS Myton SW (UT)  
 Site: SECTION 2 T9S, R17E  
 Well: T-2-9-17  
 Wellbore: Wellbore #1  
 Design: Design #1



Azimuths to True North  
 Magnetic North: 11.31°

Magnetic Field  
 Strength: 52317.6snT  
 Dip Angle: 65.83°  
 Date: 2011/03/15  
 Model: IGRF2010

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



WELLBORE TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Shape
T-2-9-17 TGT	5100.0	704.3	533.2	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	1412.1	12.18	37.13	1406.0	68.6	51.9	1.50	37.13	86.0	
4	5191.2	12.18	37.13	5100.0	704.3	533.2	0.00	0.00	883.4	T-2-9-17 TGT
5	6188.6	12.18	37.13	6075.0	872.1	660.2	0.00	0.00	1093.9	



NEWFIELD PRODUCTION COMPANY  
GMBU T-2-9-17  
AT SURFACE: SE/SE 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 T-2-9-17 located in the SE 1/4 SE 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 - 1.3 miles  $\pm$  to the access road to the existing 16-2-9-17 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 16-2-9-17 well pad. See attached **Topographic Map "B"**.

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

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

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

3. LOCATION OF EXISTING WELLS

Refer to Exhibit "B".

4. LOCATION OF EXISTING AND/OR PROPOSED FACILITIES

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

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

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

Tank batteries will be built to State specifications.

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

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

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

Johnson Water District  
Water Right : 43-10136

Maurice Harvey Pond  
Water Right: 47-1358

Neil Moon Pond  
Water Right: 43-11787

Newfield Collector Well  
Water Right: 47-1817 (A30414DVA, contracted with the Duchesne County Conservancy District).

There will be no water well drilled at this site.

6. **SOURCE OF CONSTRUCTION MATERIALS**

All construction material for this location shall be borrowed material accumulated during construction of the location site and access road.

A mineral material application is not required for this location.

7. **METHODS FOR HANDLING WASTE DISPOSAL**

A small reserve pit (90' x 40' x 8' deep, or less) will be constructed from native soil and clay materials. The reserve pit will receive the processed drill cutting (wet sand, shale & rock) removed from the wellbore. Any drilling fluids, which do accumulate in the pit as a result of shale-shaker carryover, cleaning of the sand trap, etc., will be promptly reclaimed. All drilling fluids will be fresh water based, typically containing Total Dissolved Solids of less than 3000 PPM. No potassium chloride, chromates, trash, debris, nor any other substance deemed hazardous will be placed in this pit. Therefore, it is proposed that no synthetic liner be required in the reserve pit. However, if upon constructing the pit there is insufficient fine clay and silt present, a liner will be used for the purpose of reducing water loss through percolation.

Newfield requests approval that a flare pit not be constructed or utilized on this location.

A portable toilet will be provided for human waste.

A trash basket will be provided for garbage (trash) and hauled away to an approved disposal site at the completion of the drilling activities.

8. ANCILLARY FACILITIES

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

9. WELL SITE LAYOUT

See attached Location Layout Sheet.

Fencing Requirements

All pits will be fenced according to the following minimum standards:

- a) A 39-inch net wire shall be used with at least one strand of barbed wire on top of the net.
- b) The net wire shall be no more than two (2) inches above the ground. The barbed wire shall be three (3) inches above the net wire. Total height of the fence shall be at least forty-two (42) inches.
- c) Corner posts shall be centered and/or braced in such a manner to keep tight at all times
- d) Standard steel, wood or pipe posts shall be used between the corner braces. Maximum distance between any two posts shall be no greater than sixteen (16) feet.
- e) All wire shall be stretched, by using a stretching device, before it is attached to the corner posts.

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

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

10. PLANS FOR RESTORATION OF SURFACE:

a) Producing Location

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

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

b) Dry Hole Abandoned Location

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

11. SURFACE OWNERSHIP – State of Utah.

11. OTHER ADDITIONAL INFORMATION :

The Archaeological Resource Survey and Paleontological Resource Survey for this area are attached. MOAC Report #08-088, 4/28/08. Paleontological Resource Survey prepared by, SWCA, 6/18/08. See attached report cover pages, Exhibit "D".

Newfield Production Company requests 958' of buried water line to be granted . It is proposed that the disturbed area will be 30' wide to allow for construction of the proposed buried 10" steel water injection line and a buried 3" poly water return line. The proposed 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. If possible, all proposed surface gas pipelines will be installed on the same side of the road as existing gas lines. 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 form will be applied for through the State of Utah DOGM office.

#### Surface Flow Line

Newfield requests 1,078' 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.

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

**Water Disposal**

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

**Additional Surface Stipulations**

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

**Hazardous Material Declaration**

Newfield Production Company guarantees that during the drilling and completion of the GMBU T-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 T-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.

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

Representative

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

Certification

Please be advised that NEWFIELD PRODUCTION COMPANY is considered to be the operator of well #T-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.

3/17/11  
Date

  
Mandie Crozier  
Regulatory Specialist  
Newfield Production Company

## 2-M SYSTEM

Blowout Prevention Equipment Systems

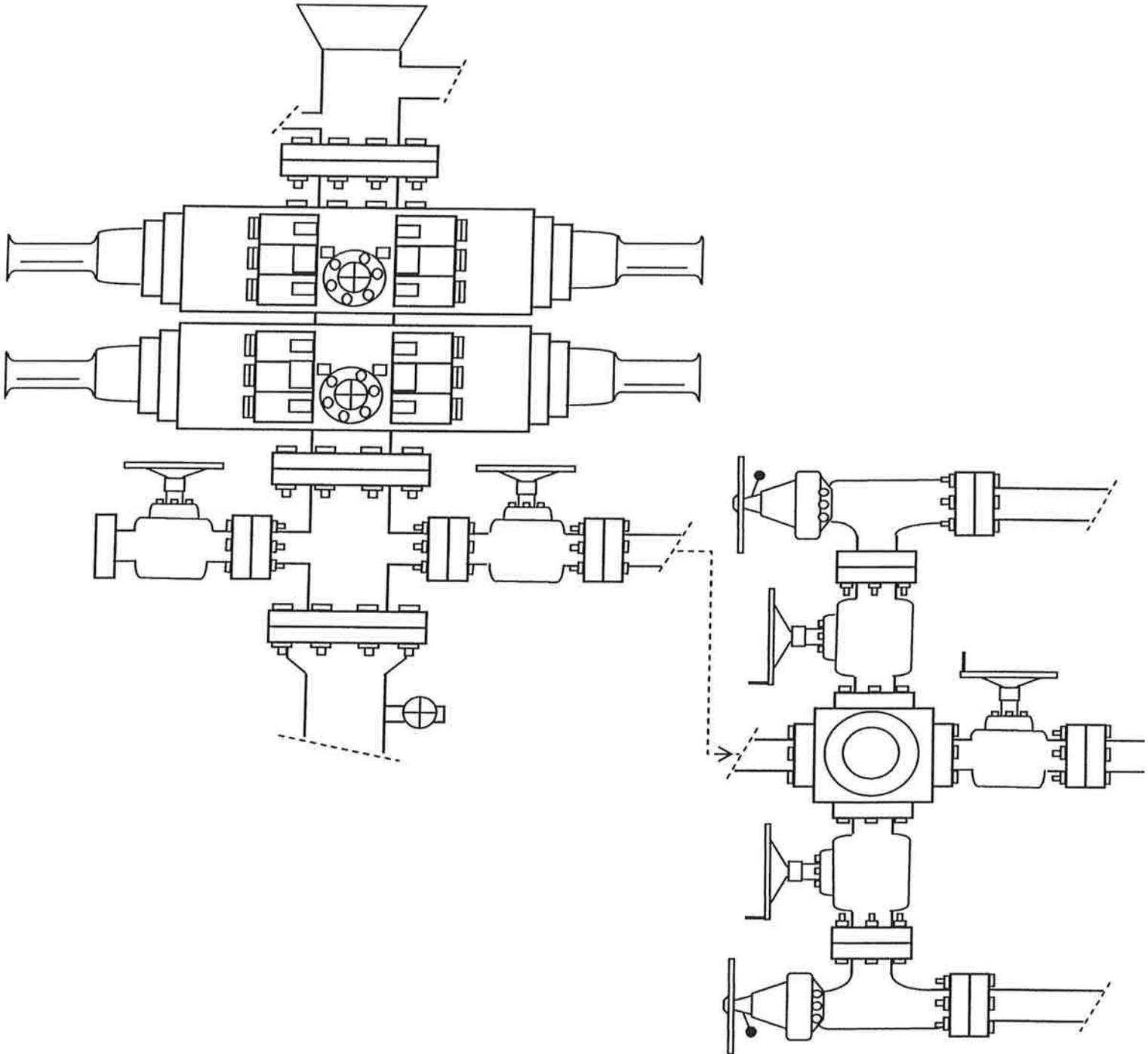


EXHIBIT C

# NEWFIELD EXPLORATION COMPANY

## WELL PAD INTERFERENCE PLAT

T-2-9-17 (Proposed Well)

U-2-9-17 (Proposed Well)

16-2-9-17 (Existing Well)

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

### TOP HOLE FOOTAGES

T-2-9-17 (PROPOSED)

644' FSL & 644' FEL

U-2-9-17 (PROPOSED)

627' FSL & 631' FEL

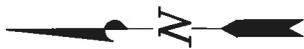
### BOTTOM HOLE FOOTAGES

T-2-9-17 (PROPOSED)

1340' FSL & 100' FEL

U-2-9-17 (PROPOSED)

100' FSL & 100' FEL



Existing Access

Existing Anchor (Typ.)

Edge of Existing Pad

Future Pit

16-2-9-17 (EXISTING)

T-2-9-17 (PROPOSED)

U-2-9-17 (PROPOSED)

Injection Shed

15'

S82°25'34"E

S46°07'35"E 748.39'  
(To Bottom Hole)

N37°07'39"E 883.39'  
(To Bottom Hole)

LATITUDE & LONGITUDE		
WELL	LATITUDE	LONGITUDE
T-2-9-17	40° 03' 16.01"	109° 58' 00.11"
U-2-9-17	40° 03' 15.84"	109° 57' 59.95"
16-2-9-17	40° 03' 16.18"	109° 58' 00.28"

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

RELATIVE COORDINATES		
From Top Hole to Bottom Hole		
WELL	NORTH	EAST
T-2-9-17	704'	533'
U-2-9-17	-519'	539'

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

SURVEYED BY: D.G.	DATE SURVEYED: 03-01-11
DRAWN BY: F.T.M.	DATE DRAWN: 03-07-11
SCALE: 1" = 50'	REVISED:

# NEWFIELD EXPLORATION COMPANY

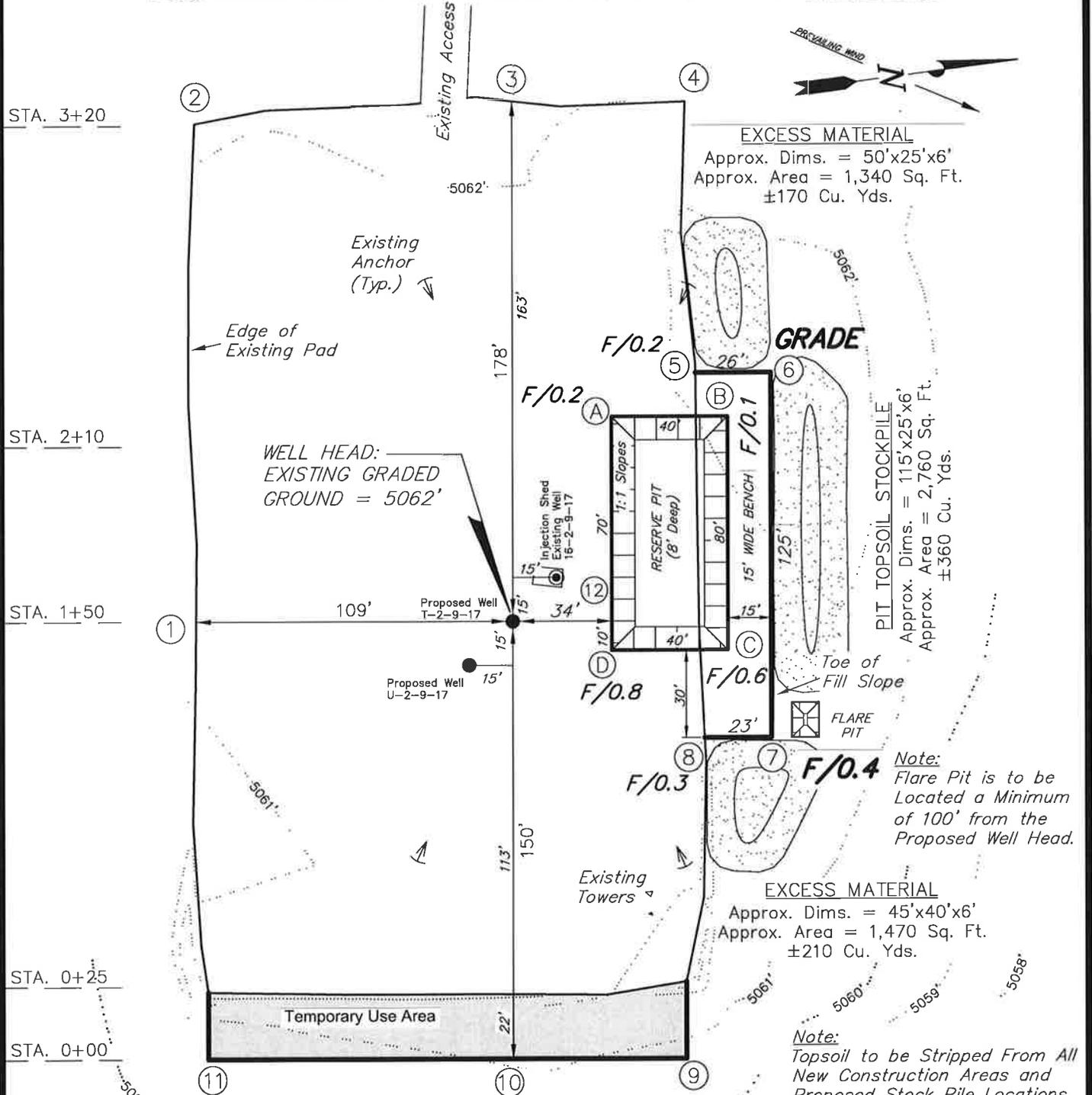
## LOCATION LAYOUT

T-2-9-17 (Proposed Well)

U-2-9-17 (Proposed Well)

16-2-9-17 (Existing Well)

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



**NOTE:**  
The topsoil, excess material & temporary cuttings areas are calculated as being mounds containing 740 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

**Note:**  
Proposed Temporary Use Area, No Earthwork Adjustments required (0.09 Acres)

SURVEYED BY: D.G.	DATE SURVEYED: 03-01-11
DRAWN BY: F.T.M.	DATE DRAWN: 03-07-11
SCALE: 1" = 50'	REVISED:

(435) 781-2501

**Tri State**  
Land Surveying, Inc.

180 NORTH VERNAL AVE. VERNAL, UTAH 84078

RECEIVED: Mar. 17, 2011

# NEWFIELD EXPLORATION COMPANY

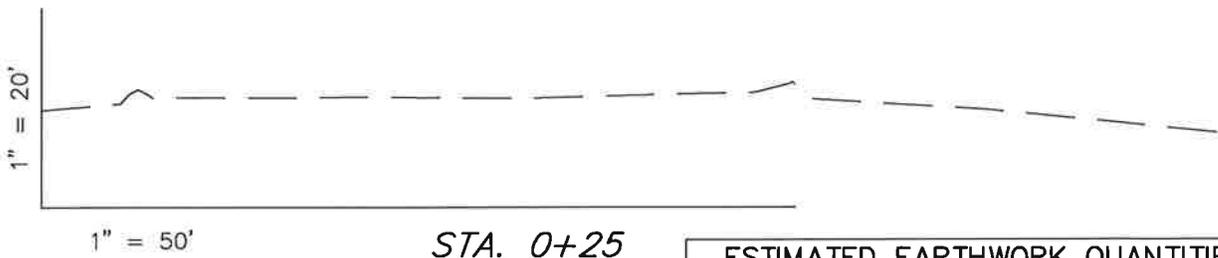
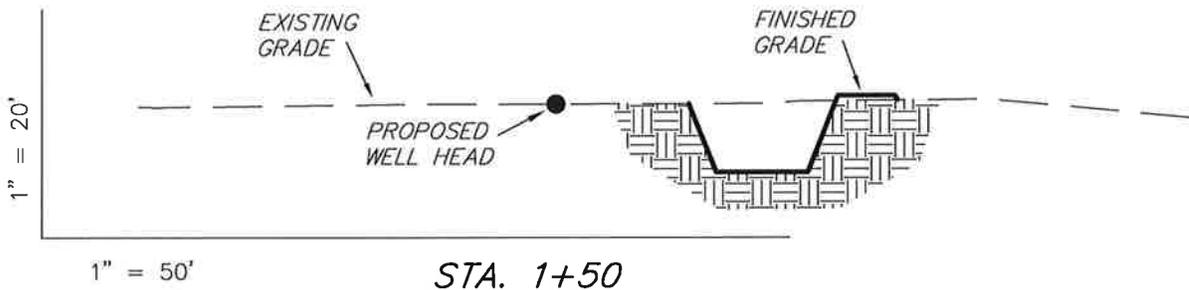
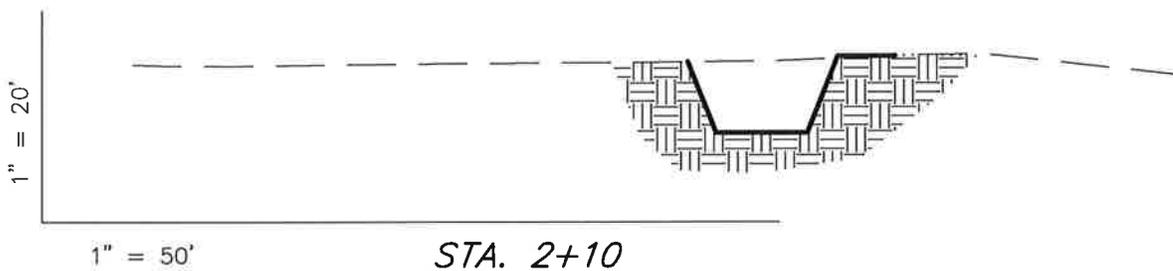
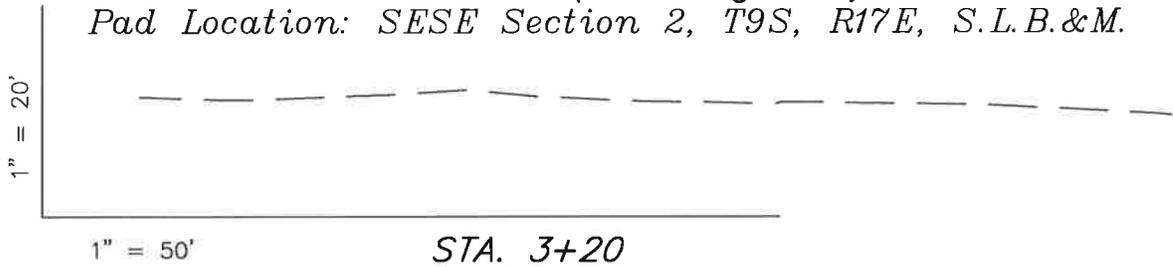
## CROSS SECTIONS

*T-2-9-17 (Proposed Well)*

*U-2-9-17 (Proposed Well)*

*16-2-9-17 (Existing Well)*

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



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

ITEM	CUT	FILL	6" TOPSOIL	EXCESS
PAD	0	110	Topsoil is not included in Pad Cut	-110
PIT	450	0		450
<b>TOTALS</b>	<b>450</b>	<b>110</b>	<b>360</b>	<b>340</b>

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

SURVEYED BY: D.G.	DATE SURVEYED: 03-01-11
DRAWN BY: F.T.M.	DATE DRAWN: 03-07-11
SCALE: 1" = 50'	REVISED:

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

# NEWFIELD EXPLORATION COMPANY

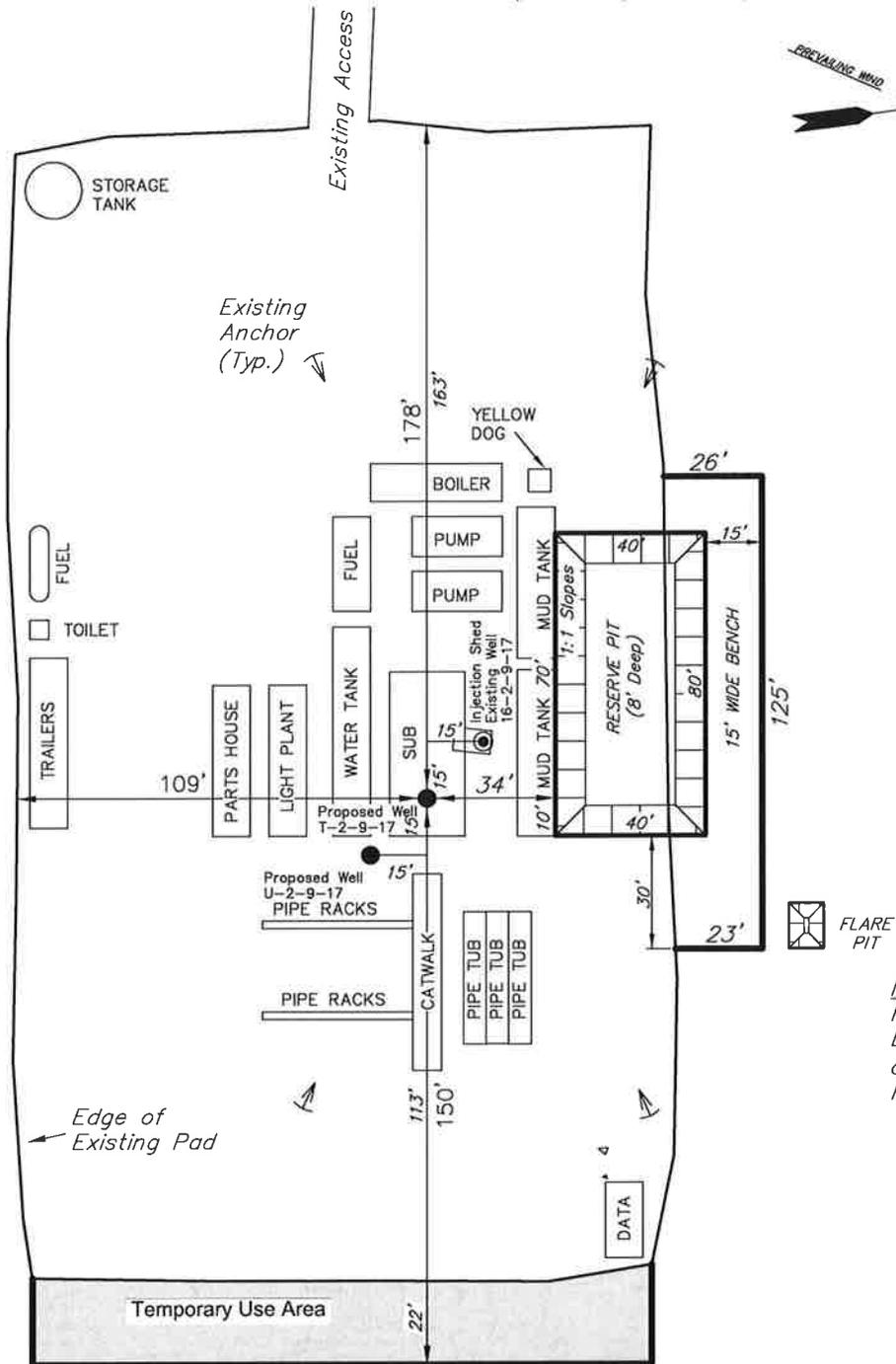
## TYPICAL RIG LAYOUT

T-2-9-17 (Proposed Well)

U-2-9-17 (Proposed Well)

16-2-9-17 (Existing Well)

Pad Location: SESE 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: D.G.	DATE SURVEYED: 03-01-11
DRAWN BY: F.T.M.	DATE DRAWN: 03-07-11
SCALE: 1" = 50'	REVISED:

**Tri State** (435) 781-2501  
 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)

March 22, 2011

## Memorandum

To: Assistant District Manager Minerals, Vernal District

From: Michael Coulthard, Petroleum Engineer

Subject: 2011 Plan of Development Greater Monument  
Butte Unit, Duchesne and Uintah Counties,  
Utah.

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

API#	WELL NAME	LOCATION
(Proposed PZ GREEN RIVER)		
43-013-50648	GMBU U-32-8-16	Sec 32 T08S R16E 0563 FSL 0537 FEL BHL Sec 32 T08S R16E 0100 FSL 0100 FEL
43-013-50649	GMBU I-32-8-17	Sec 32 T08S R17E 0485 FNL 0656 FEL BHL Sec 32 T08S R17E 1648 FNL 1589 FEL
43-013-50650	GMBU S-32-8-17	Sec 32 T08S R17E 2293 FSL 2169 FEL BHL Sec 32 T08S R17E 1054 FSL 1120 FEL
43-047-51540	GMBU N-36-8-17	Sec 36 T08S R17E 1915 FNL 0731 FWL BHL Sec 36 T08S R17E 2461 FSL 1558 FWL
43-047-51541	GMBU R-36-8-17	Sec 36 T08S R17E 0731 FSL 1972 FEL BHL Sec 36 T08S R17E 1486 FSL 2364 FWL
43-013-50651	GMBU K-2-9-15	Sec 02 T09S R15E 1976 FNL 0644 FEL BHL Sec 02 T09S R15E 2625 FSL 0100 FEL
43-013-50652	GMBU W-2-9-15	Sec 02 T09S R15E 0546 FSL 2035 FWL BHL Sec 02 T09S R15E 0100 FSL 2625 FEL
43-047-51542	GMBU K-2-9-17	Sec 02 T09S R17E 2039 FSL 0766 FEL BHL Sec 02 T09S R17E 2630 FSL 0100 FEL

API #	WELL NAME	LOCATION
9Proposed PZ GREEN RIVER)		
43-047-51543	GMBU T-2-9-17	Sec 02 T09S R17E 0644 FSL 0644 FEL BHL Sec 02 T09S R17E 1340 FSL 0100 FEL
43-047-51544	GMBU U-2-9-17	Sec 02 T09S R17E 0627 FSL 0631 FEL BHL Sec 02 T09S R17E 0100 FSL 0100 FEL
43-013-50653	GMBU V-32-8-16	Sec 32 T08S R16E 0584 FSL 0539 FEL BHL Sec 32 T08S R16E 0100 FSL 1290 FEL
43-013-50654	GMBU O-2-9-17	Sec 02 T09S R17E 2026 FNL 0682 FWL BHL Sec 02 T09S R17E 2630 FSL 0100 FWL

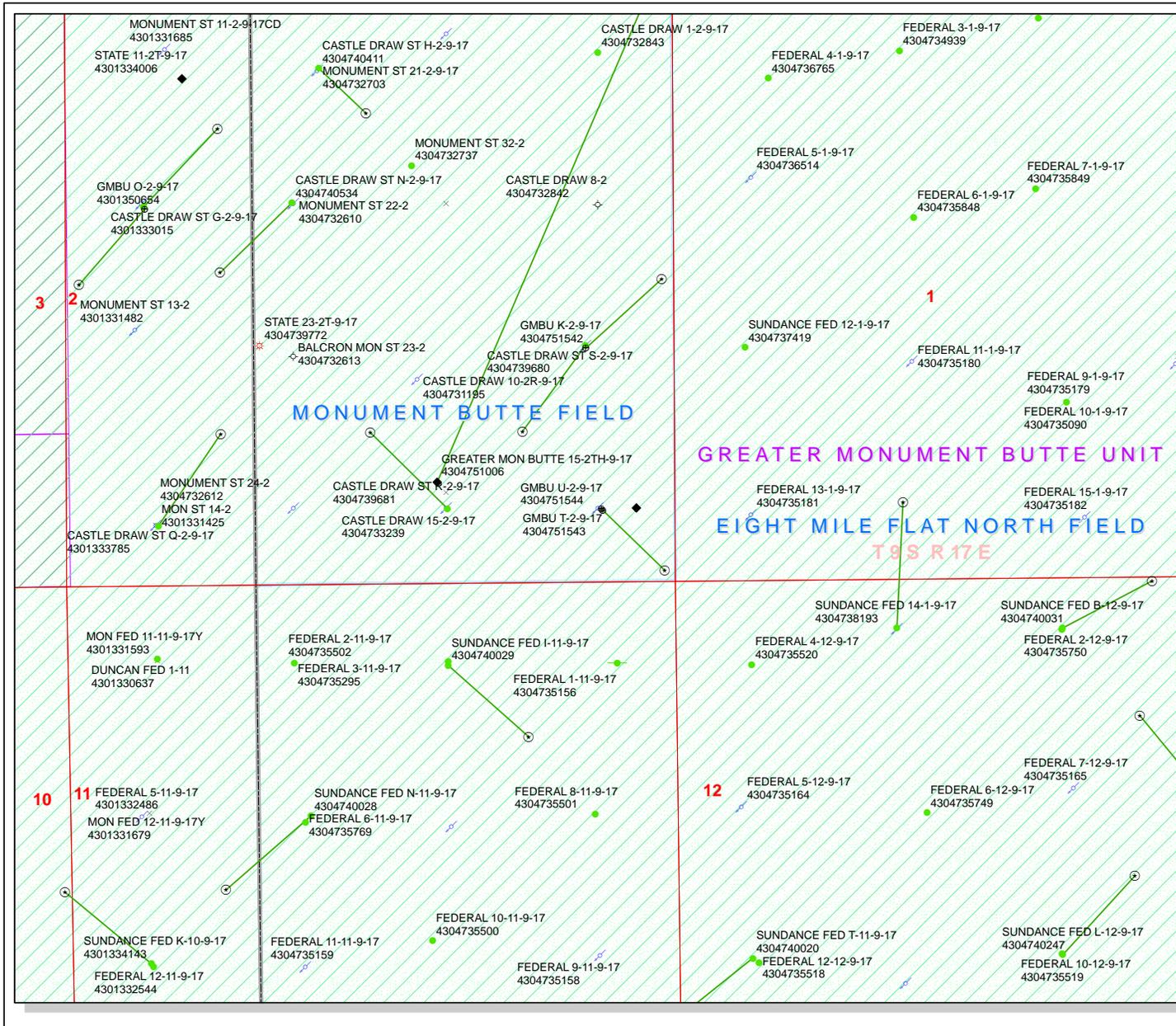
This office has no objection to permitting the wells at this time.

Michael L. Coulthard

Digitally signed by Michael L. Coulthard  
DN: cn=Michael L. Coulthard, o=Bureau of Land Management, ou=Branch of Minerals, email=Michael\_Coulthard@blm.gov, c=US  
Date: 2011.03.22 12:09:21 -0600

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

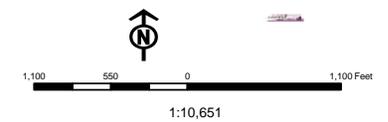
MCoulthard:mc:3-22-11



**API Number: 4304751543**  
**Well Name: GMBU T-2-9-17**  
 Township T0.9 . Range R1.7 . Section 02  
 Meridian: SLBM  
 Operator: NEWFIELD PRODUCTION COMPANY

Map Prepared:  
 Map Produced by Diana Mason

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





VIA ELECTRONIC DELIVERY

March 28, 2011

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

RE: Directional Drilling  
**GMBU T-2-9-17**  
Greater Monument Butte (Green River) Unit

Surface Hole: T9S-R17E Section 2: SESE (ML-45555)  
644' FSL 644' FEL

At Target: T9S-R17E Section 2: NESE (ML-45555)  
1340' FSL 100' 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 3/17/11, 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 303-383-4197 or by email at [sgillespie@newfield.com](mailto:sgillespie@newfield.com). Your consideration in this matter is greatly appreciated.

Sincerely,  
Newfield Production Company

A handwritten signature in blue ink, appearing to read "S. Gillespie", is written over a faint, larger blue signature graphic.

Shane Gillespie  
Land Associate

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

FORM 3

AMENDED REPORT   
(highlight changes)

<b>APPLICATION FOR PERMIT TO DRILL</b>			5 MINERAL LEASE NO ML-45555	6 SURFACE State
1A TYPE OF WORK DRILL <input checked="" type="checkbox"/> REENTER <input type="checkbox"/> DEEPEN <input type="checkbox"/>			7 IF INDIAN, ALLOTTEE OR TRIBE NAME NA	
B TYPE OF WELL OIL <input checked="" type="checkbox"/> GAS <input type="checkbox"/> OTHER _____ SINGLE ZONE <input checked="" type="checkbox"/> MULTIPLE ZONE <input type="checkbox"/>			8 UNIT or CA AGREEMENT NAME Greater Monument Butte	
2 NAME OF OPERATOR: Newfield Production Company			9 WELL NAME and NUMBER GMBU T-2-9-17	
3 ADDRESS OF OPERATOR: Route #3 Box 3630 Myton UT 84052			PHONE NUMBER (435) 646-3721	10 FIELD AND POOL, OR WLDGAT Monument Butte
4 LOCATION OF WELL (FOOTAGES) AT SURFACE SE/SE 644' FSL 644' FEL Sec. 2 T9S R17E AT PROPOSED PRODUCING ZONE: NE/SE 1340' FSL 100' FEL Sec. 2 T9S R17E			11 QTR/QTR, SECTION TOWNSHIP, RANGE MERIDIAN: SESE 2 9S 17E	
14 DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE Approximately 15.7 miles southeast of Myton, Utah			12 COUNTY Uintah	13 STATE UTAH
15 DISTANCE TO NEAREST PROPERTY OR LEASE LINE (FEET) Approx. 100' f/lse line, NA' f/unit line	16 NUMBER OF ACRES IN LEASE: 640.20 acres	17 NUMBER OF ACRES ASSIGNED TO THIS WELL 20 acres		
18 DISTANCE TO NEAREST WELL (DRILLING, COMPLETED, OR APPLIED FOR) ON THIS LEASE (FEET) Approx. 1240'	19 PROPOSED DEPTH 6,189	20 BOND DESCRIPTION #B001834		
21 ELEVATIONS (SHOW WHETHER DF, RT, GR, ETC.): 5062' GL	22 APPROXIMATE DATE WORK WILL START: <i>2nd Qtr. 2011</i>	23 ESTIMATED DURATION: (15) days from SPUD to rig release		

**PROPOSED CASING AND CEMENTING PROGRAM**

SIZE OF HOLE	CASING SIZE, GRADE, AND WEIGHT PER FOOT	SETTING DEPTH	CEMENT TYPE, QUANTITY, YIELD, AND SLURRY WEIGHT		
12 1/4	8 5/8 J-55 24.0	300	Class G w/2% CaCl	155 sx +/-	1.17 15.8
7 7/8	5 1/2 J-55 15.5	6,189	Lead(Prem Lite II)	275 sx +/-	3.26 11.0
			Tail (50/50 Poz)	450 sx +/-	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 checked="" type="checkbox"/> EVIDENCE OF DIVISION OF WATER RIGHTS APPROVAL FOR USE OF WATER | <input type="checkbox"/> FORM 5, IF OPERATOR IS PERSON OR COMPANY OTHER THAN THE LEASE OWNER |

NAME: (PLEASE PRINT) Mandie Crozier TITLE Regulatory Specialist

SIGNATURE: *Mandie Crozier* DATE 3/17/11

(This space for State use only).

API NUMBER ASSIGNED \_\_\_\_\_

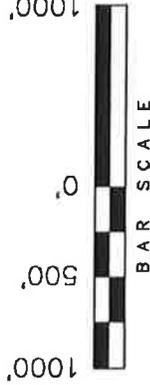
APPROVAL \_\_\_\_\_

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

## NEWFIELD EXPLORATION COMPANY

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

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

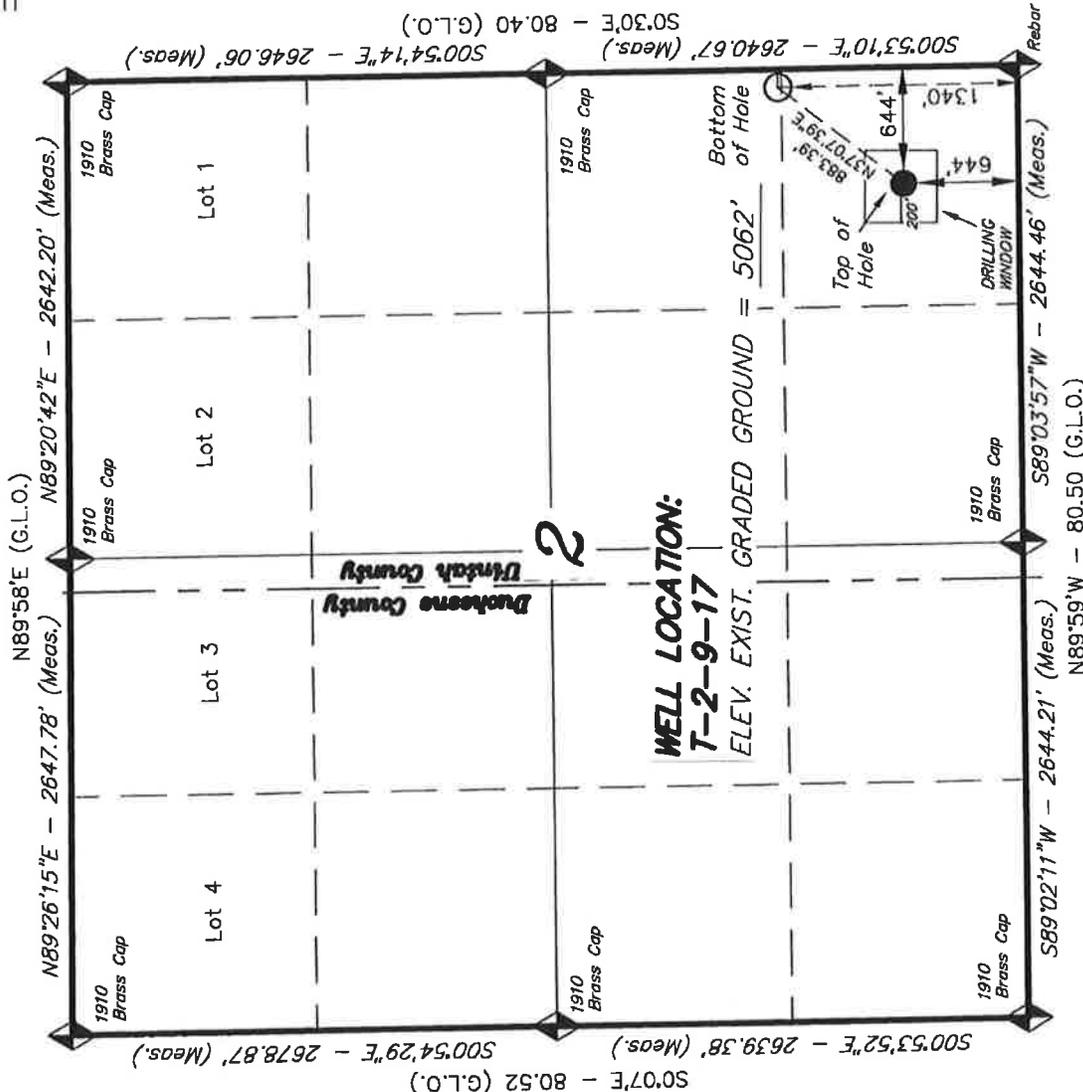


**NOTES:**

1. Well footages are measured at right angles to the Section Lines.
2. Bearings are based on Global Positioning Satellite observations.
3. The Bottom of Hole footages are 1340' FSL & 100' FEL.

THIS IS TO CERTIFY THAT THE ABOVE IS A TRUE AND CORRECT COPY OF THE ORIGINAL SURVEY RECORD AS 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.

STACY W.  
REGISTERED LAND SURVEYOR  
REGISTRATION NO. 03-07-11  
STATE OF UTAH

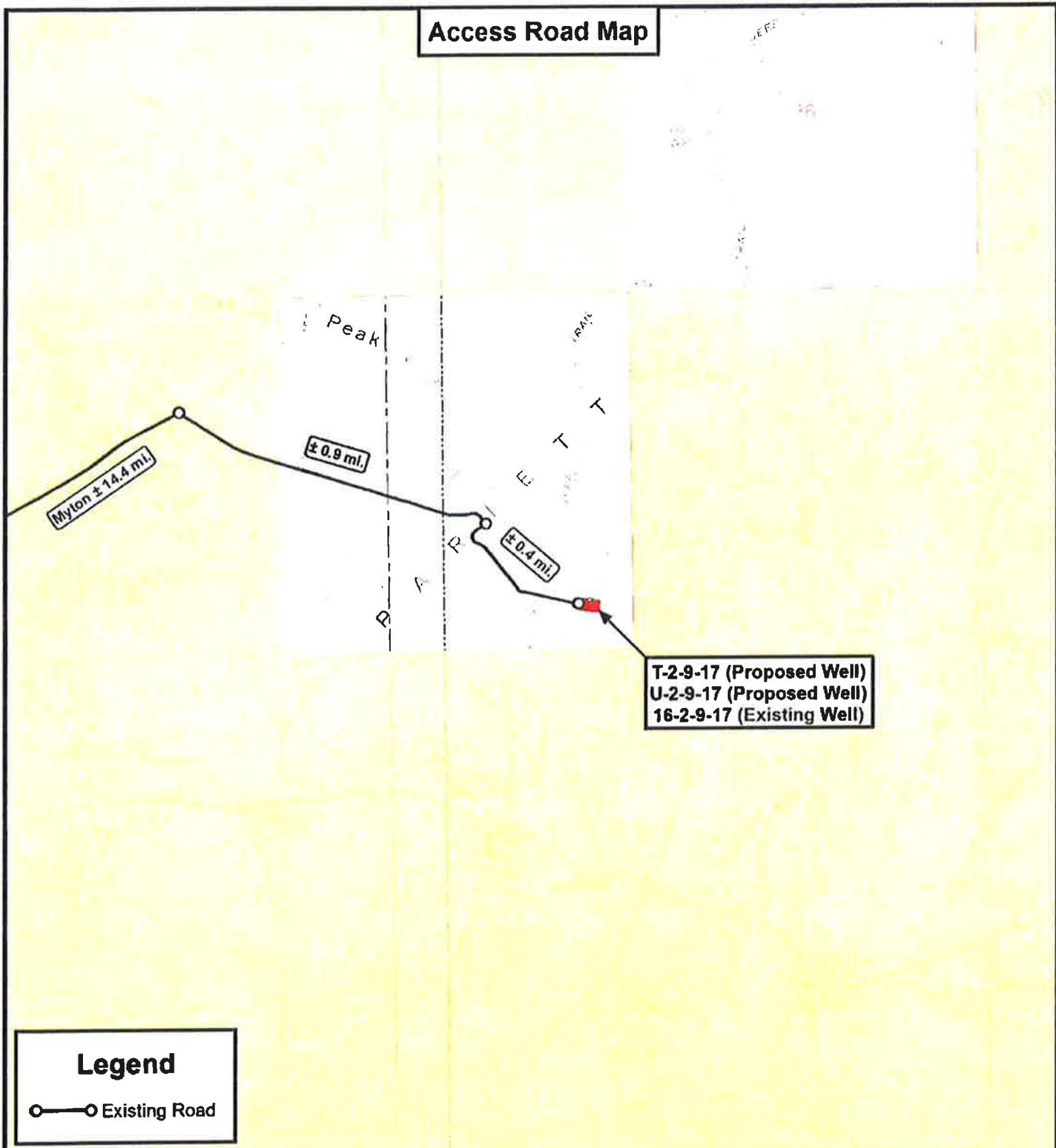


T-2-9-17  
(Surface Location) NAD 83  
LATITUDE = 40° 03' 16.01"  
LONGITUDE = 109° 58' 00.11"

◆ = 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'

<b>TRI STATE LAND SURVEYING &amp; CONSULTING</b> 180 NORTH VERNAL AVE. - VERNAL, UTAH 84078 (435) 781-2501	
DATE SURVEYED: 03-01-11	SURVEYED BY: D.G.
DATE DRAWN: 03-07-11	DRAWN BY: F.T.M.
REVISED:	SCALE: 1" = 1000'

**Access Road Map**



**T-2-9-17 (Proposed Well)**  
**U-2-9-17 (Proposed Well)**  
**16-2-9-17 (Existing 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.

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

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



**NEWFIELD EXPLORATION COMPANY**

T-2-9-17 (Proposed Well)  
 U-2-9-17 (Proposed Well)  
 16-2-9-17 (Existing Well)

SEC. 2, T9S, R17E, S.L.B.&M. Uintah County, UT.

DRAWN BY:	C.H.M.
DATE:	03-07-2011
SCALE:	1" = 2,000'

**TOPOGRAPHIC MAP**

SHEET **B**

**From:** Jim Davis  
**To:** Bonner, Ed; Garrison, LaVonne; Hill, Brad; Mason, Diana  
**CC:** mcrozier@newfield.com; teaton@newfield.com  
**Date:** 4/7/2011 11:06 AM  
**Subject:** Newfield APD approvals

The following APDs have been approved by SITLA. Please note arch and paleo notes below.

Arch and paleo clearance is granted on this group of APDs.

4301350651 GMBU K-2-9-15  
4301350652 GMBU W-2-9-15  
4304751543 GMBU T-2-9-17  
4304751544 GMBU U-2-9-17

On existing pad, requiring no new surface disturbance. Arch and paleo not required.

4301350650 GMBU S-32-8-17  
4301350654 GMBU O-2-9-17  
4304751541 GMBU R-36-8-17  
4304751542 GMBU K-2-9-17  
4301350656 GMBU P-32-8-17  
4301350657 GMBU W-32-8-17  
4304751548 GMBU D-36-8-17

Thanks  
-Jim

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

Well Name	NEWFIELD PRODUCTION COMPANY GMBU T-2-9-17 43047			
String	Surf	Prod		
Casing Size(")	8.625	5.500		
Setting Depth (TVD)	300	6075		
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)	2630	8.3		

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

Calculations	Prod String	5.500	"
Max BHP (psi)	.052*Setting Depth*MW=	2654	
			<b>BOPE Adequate For Drilling And Setting Casing at Depth?</b>
MASP (Gas) (psi)	Max BHP-(0.12*Setting Depth)=	1925	YES <input type="checkbox"/>
MASP (Gas/Mud) (psi)	Max BHP-(0.22*Setting Depth)=	1318	YES <input type="checkbox"/> OK
			<b>*Can Full Expected Pressure Be Held At Previous Shoe?</b>
Pressure At Previous Shoe	Max BHP-.22*(Setting Depth - Previous Shoe Depth)=	1384	NO <input type="checkbox"/> Common for area
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=		
			<b>BOPE Adequate For Drilling And Setting Casing at Depth?</b>
MASP (Gas) (psi)	Max BHP-(0.12*Setting Depth)=		NO <input type="checkbox"/>
MASP (Gas/Mud) (psi)	Max BHP-(0.22*Setting Depth)=		NO <input type="checkbox"/>
			<b>*Can Full Expected Pressure Be Held At Previous Shoe?</b>
Pressure At Previous Shoe	Max BHP-.22*(Setting Depth - Previous Shoe Depth)=		NO <input type="checkbox"/>
Required Casing/BOPE Test Pressure=			psi
*Max Pressure Allowed @ Previous Casing Shoe=			psi *Assumes 1psi/ft frac gradient

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

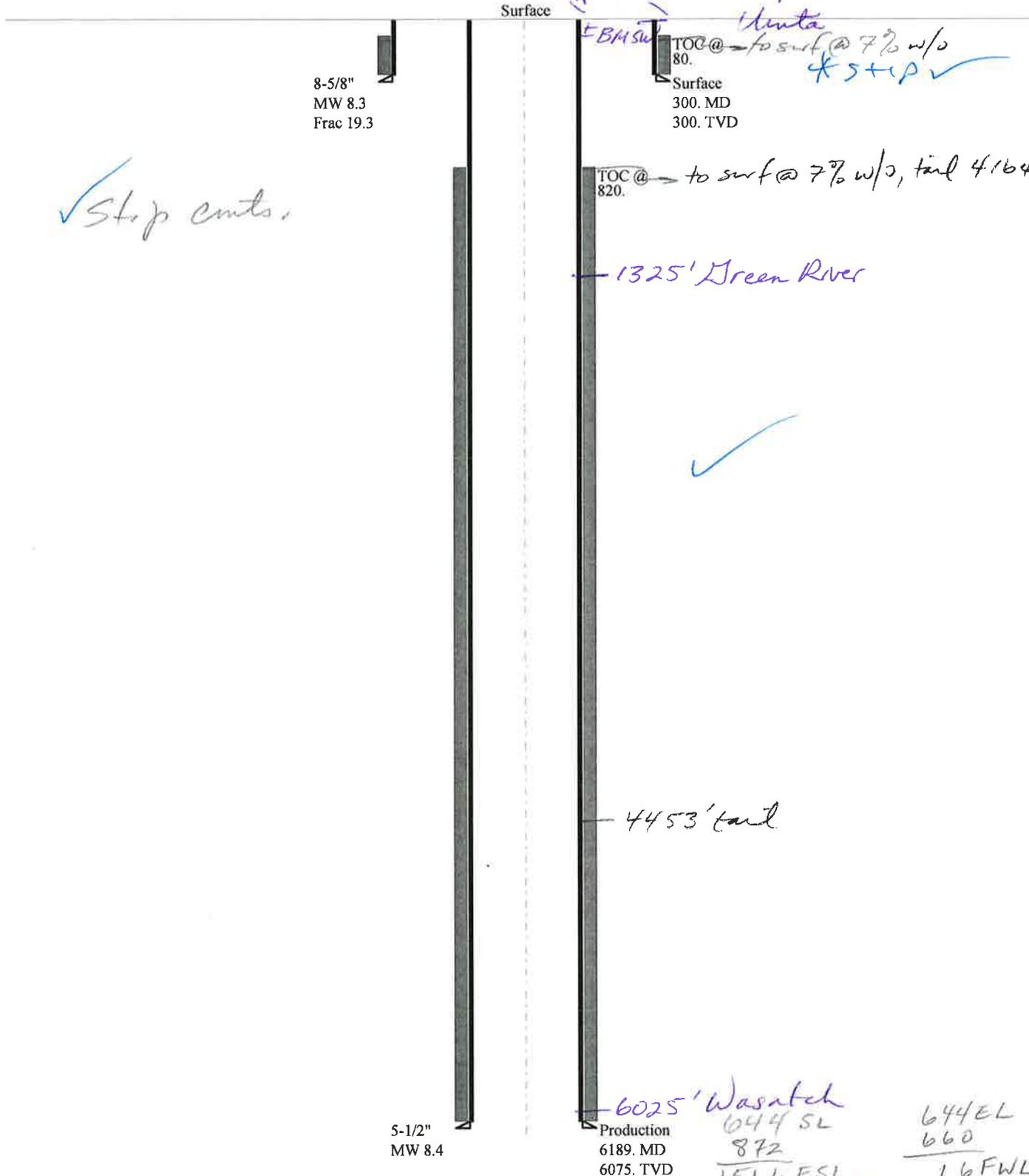
API Well Number: 43047515430000

\*Max Pressure Allowed @ Previous Casing Shoe=

psi \*Assumes 1psi/ft frac gradient

# 43047515430000 GMBU T-2-9-17

## Casing Schematic



Well name:	<b>43047515430000 GMBU T-2-9-17</b>		
Operator:	<b>NEWFIELD PRODUCTION COMPANY</b>		
String type:	Surface		Project ID:
			43-047-51543
Location:	UINTAH COUNTY		

**Design parameters:**

**Collapse**

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

**Minimum design factors:**

**Collapse:**

Design factor 1.125

**Burst:**

Design factor 1.00

**Environment:**

H2S considered? No  
 Surface temperature: 74 °F  
 Bottom hole temperature: 78 °F  
 Temperature gradient: 1.40 °F/100ft  
 Minimum section length: 100 ft  
 Cement top: 80 ft

**Burst**

Max anticipated surface pressure: 95 psi  
 Internal gradient: 0.120 psi/ft  
 Calculated BHP 131 psi

No backup mud specified.

**Tension:**

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

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

**Non-directional string.**

**Re subsequent strings:**

Next setting depth: 300 ft  
 Next mud weight: 8.400 ppg  
 Next setting BHP: 131 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	131	2950	22.54	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: April 27, 2011  
 Salt Lake City, Utah

**Remarks:**

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

Burst strength is not adjusted for tension.

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

Well name:	<b>43047515430000 GMBU T-2-9-17</b>		
Operator:	<b>NEWFIELD PRODUCTION COMPANY</b>		
String type:	Production	Project ID:	43-047-51543
Location:	UINTAH COUNTY		

**Design parameters:**

**Collapse**

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

**Minimum design factors:**

**Collapse:**

Design factor 1.125

**Burst:**

Design factor 1.00

**Environment:**

H2S considered? No  
 Surface temperature: 74 °F  
 Bottom hole temperature: 159 °F  
 Temperature gradient: 1.40 °F/100ft  
 Minimum section length: 100 ft  
 Cement top: 820 ft

**Burst**

Max anticipated surface pressure: 1,314 psi  
 Internal gradient: 0.220 psi/ft  
 Calculated BHP 2,651 psi

No backup mud specified.

**Tension:**

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

Tension is based on air weight.  
 Neutral point: 5,399 ft

**Directional Info - Build & Hold**

Kick-off point 600 ft  
 Departure at shoe: 1094 ft  
 Maximum dogleg: 1.5 °/100ft  
 Inclination at shoe: 12.18 °

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	6189	5.5	15.50	J-55	LT&C	6075	6189	4.825	21853
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	2651	4040	1.524	2651	4810	1.81	94.2	217	2.30 J

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

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

Date: April 27, 2011  
 Salt Lake City, Utah

**Remarks:**

Collapse is based on a vertical depth of 6075 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.*

# ON-SITE PREDRILL EVALUATION

## Utah Division of Oil, Gas and Mining

**Operator** NEWFIELD PRODUCTION COMPANY  
**Well Name** GMBU T-2-9-17  
**API Number** 43047515430000      **APD No** 3575      **Field/Unit** MONUMENT BUTTE  
**Location: 1/4,1/4** SESE      **Sec** 2      **Tw** 9.0S      **Rng** 17.0E      644 FSL 644 FEL  
**GPS Coord (UTM)**      **Surface Owner**

### Participants

Floyd Bartlett (DOGM), Brian Foote (Newfield), Jim Davis (SITLA) and Alex Hansen (UDWR).

### Regional/Local Setting & Topography

Two additional oil wells will be directional drilled from the pad of the existing 16-2-9-17 injection well. They are the T-2-9-17 and U-2-9-17. The area is designated for 20 acre spacing. No construction changes are planned for the existing pad. A temporary use area is designated on the east end of the pad. A reserve pit will be re-dug in approximately the previous location. No tanks are currently on the pad. The oil will be piped to another site. Two electronic transmitter towers are also on the location.

A field review of the existing pad showed no concerns as it now exists. It should be suitable for drilling and operating the proposed additional wells.

### Surface Use Plan

**Current Surface Use**  
Existing Well Pad

New Road Miles	Well Pad Width   Length	Src Const Material	Surface Formation
----------------	----------------------------	--------------------	-------------------

**Ancillary Facilities**

### Waste Management Plan Adequate?

### Environmental Parameters

**Affected Floodplains and/or Wetlands**

**Flora / Fauna**

Existing pad.

**Soil Type and Characteristics**

**Erosion Issues**

**Sedimentation Issues**

**Site Stability Issues**

**Drainage Diversion Required?**

**Berm Required? Y**

**Erosion Sedimentation Control Required?**

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

**Reserve Pit**

**Site-Specific Factors**

**Site Ranking**

<b>Distance to Groundwater (feet)</b>	75 to 100	10
<b>Distance to Surface Water (feet)</b>	>1000	0
<b>Dist. Nearest Municipal Well (ft)</b>	>5280	0
<b>Distance to Other Wells (feet)</b>		20
<b>Native Soil Type</b>	Mod permeability	10
<b>Fluid Type</b>	Fresh Water	5
<b>Drill Cuttings</b>	Normal Rock	0
<b>Annual Precipitation (inches)</b>		0
<b>Affected Populations</b>		
<b>Presence Nearby Utility Conduits</b>	Not Present	0
<b>Final Score</b>		45

1 Sensitivity Level

**Characteristics / Requirements**

A reserve pit will be re-dug in the original location on the north side. Its dimensions are 80' x 40' x 8' deep. A 16 mil liner with an appropriate sub-liner is required.

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

**Other Observations / Comments**

Floyd Bartlett  
**Evaluator**

3/23/2011  
**Date / Time**

# Application for Permit to Drill Statement of Basis

5/4/2011

## Utah Division of Oil, Gas and Mining

Page 1

<b>APD No</b>	<b>API WellNo</b>	<b>Status</b>	<b>Well Type</b>	<b>Surf Owner</b>	<b>CBM</b>
3575	43047515430000	SITLA	OW	S	No
<b>Operator</b>	NEWFIELD PRODUCTION COMPANY		<b>Surface Owner-APD</b>		
<b>Well Name</b>	GMBU T-2-9-17		<b>Unit</b>	GMBU (GRRV)	
<b>Field</b>	MONUMENT BUTTE		<b>Type of Work</b>	DRILL	
<b>Location</b>	SESE 2 9S 17E S 644 FSL 644 FEL	GPS Coord (UTM)	588190E	4434103N	

### 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 a or near the surface. 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 shouls adequately protect ground water in the area.

Brad Hill  
**APD Evaluator**

4/5/2011  
**Date / Time**

### Surface Statement of Basis

Two additional oil wells will be directional drilled from the pad of the existing 16-2-9-17 injection well. They are the T-2-9-17 and U-2-9-17. The area in designated for 20 acre spacing. No construction changes are planned for the existing pad. A temporary use area is designated on the east end of the pad. A reserve pit will be re-dug in approximately the previous location. No tanks are currently on the pad. The oil will be piped to another site. Two electronic transmitter towers are also on the location.

A field review of the existing pad showed no concerns as it now exists. It should be suitable for drilling and operating the proposed additional wells.

SITLA owns the surface and the minerals. Mr. Jim Davis of SITLA attended the evaluation and agreed with the proposal. Mr. Alex Hansen of the UDWR also attended and had no recommendations for wildlife.

Floyd Bartlett  
**Onsite Evaluator**

3/23/2011  
**Date / Time**

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

<b>Category</b>	<b>Condition</b>
Pits	A synthetic liner with a minimum thickness of 16 mils with a felt subliner shall be properly installed and maintained in the reserve pit.
Surface	The well site shall be bermed to prevent fluids from leaving the pad.
Surface	The reserve pit shall be fenced upon completion of drilling operations.

## WORKSHEET APPLICATION FOR PERMIT TO DRILL

**APD RECEIVED:** 3/17/2011**API NO. ASSIGNED:** 43047515430000**WELL NAME:** GMBU T-2-9-17**OPERATOR:** NEWFIELD PRODUCTION COMPANY (N2695)**PHONE NUMBER:** 435 646-4825**CONTACT:** Mandie Crozier**PROPOSED LOCATION:** SESE 02 090S 170E**Permit Tech Review:** **SURFACE:** 0644 FSL 0644 FEL**Engineering Review:** **BOTTOM:** 1340 FSL 0100 FEL**Geology Review:** **COUNTY:** UINTAH**LATITUDE:** 40.05446**LONGITUDE:** -109.96606**UTM SURF EASTINGS:** 588190.00**NORTHINGS:** 4434103.00**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
- 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 T-2-9-17  
**API Well Number:** 43047515430000  
**Lease Number:** ML-45555  
**Surface Owner:** STATE  
**Approval Date:** 5/4/2011

**Issued to:**

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

**Authority:**

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

**Duration:**

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

**General:**

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

**Conditions of Approval:**

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

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

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

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:**



For John Rogers  
Associate Director, Oil & Gas

spud

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 T-2-9-17

Qtr/Qtr SE/SE Section 2 Township 9S Range 17E

Lease Serial Number ML-45555

API Number 43-047-51543

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

Date/Time 5/26/11 9:00 AM  PM

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

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

Date/Time 5/26/11 3:00 AM  PM

BOPE

- Initial BOPE test at surface casing point
- BOPE test at intermediate casing point
- 30 day BOPE test
- Other

Date/Time \_\_\_\_\_ AM  PM

Remarks \_\_\_\_\_

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

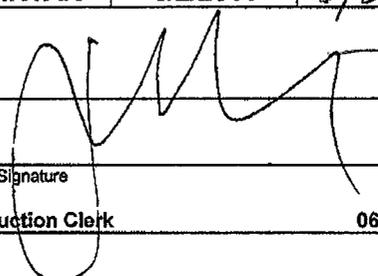
OPERATOR: NEWFIELD PRODUCTION COMPANY  
 ADDRESS: RT. 3 BOX 3630  
MYTON, UT 84052

OPERATOR ACCT. NO. N2695

ACTION CODE	CURRENT ENTITY NO.	NEW ENTITY NO.	API NUMBER	WELL NAME	WELL LOCATION					SPUD DATE	EFFECTIVE DATE
					QQ	SC	TP	RG	COUNTY		
B	99999	17400 ✓	4304751544	GMBU U-2-9-17	SESE	2	9S	17E	UINTAH	5/26/2011	6/22/11
WELL 1 COMMENTS: GRRV BHL=SESE											
B	99999	17400 ✓	4301350654	GMBU O-2-9-17	SWNE	2	9S	17E	DUCHESNE	6/7/2011	6/22/11
GRRV BHL=NWSW											
A	99999		4304751279	FEDERAL 12-24-6-20	NWSW	24	6S	20E	UINTAH	3/29/2011	
Duplicate - original processed 3/31/11											
B	99999	17400 ✓	4304751543	GMBU T-2-9-17	SESE	2	9S	17E	UINTAH	5/26/2011	6/22/11
GRRV BHL=NESE											
A	99999	18071	4301350451	UTE TRIBAL 7-16-4-1W	SWNE	16	4S	1W	DUCHESNE	6/3/2011	6/22/11
GRRV											
A	99999	18072	4304751319	UTE TRIBAL 11-10-4-1E	NESW	10	4S	1E	UINTAH	6/2/2011	6/22/11
GR-WS											

- ACTION CODES (See instructions on back of form)
- A - 1 new entity for new well (single well only)
  - B - / well to existing entity (group or unit well)
  - C - from one existing entity to another existing entity
  - D - well from one existing entity to a new entity
  - E - thor (explain in comments section)

RECEIVED  
 JUN 09 2011

Signature   
 Production Clerk Jentri Park  
 06/09/11

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

<b>STATE OF UTAH</b> DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		<b>FORM 9</b>
<b>SUNDRY NOTICES AND REPORTS ON WELLS</b>		<b>5. LEASE DESIGNATION AND SERIAL NUMBER:</b> ML-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.		<b>6. IF INDIAN, ALLOTTEE OR TRIBE NAME:</b>
		<b>7. UNIT or CA AGREEMENT NAME:</b> GMBU (GRRV)
<b>1. TYPE OF WELL</b> Oil Well	<b>8. WELL NAME and NUMBER:</b> GMBU T-2-9-17	
<b>2. NAME OF OPERATOR:</b> NEWFIELD PRODUCTION COMPANY	<b>9. API NUMBER:</b> 43047515430000	
<b>3. ADDRESS OF OPERATOR:</b> Rt 3 Box 3630 , Myton, UT, 84052	<b>PHONE NUMBER:</b> 435 646-4825 Ext	<b>9. FIELD and POOL or WILDCAT:</b> MONUMENT BUTTE
<b>4. LOCATION OF WELL</b> <b>FOOTAGES AT SURFACE:</b> 0644 FSL 0644 FEL <b>QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:</b> Qtr/Qtr: SESE Section: 02 Township: 09.0S Range: 17.0E Meridian: S	<b>COUNTY:</b> UINTAH	
		<b>STATE:</b> UTAH
11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA		
<b>TYPE OF SUBMISSION</b>	<b>TYPE OF ACTION</b>	
<input type="checkbox"/> NOTICE OF INTENT Approximate date work will start:  <input checked="" type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion: 6/27/2011  <input type="checkbox"/> SPUD REPORT Date of Spud:  <input type="checkbox"/> DRILLING REPORT Report Date:	<input type="checkbox"/> ACIDIZE <input type="checkbox"/> CHANGE TO PREVIOUS PLANS <input type="checkbox"/> CHANGE WELL STATUS <input type="checkbox"/> DEEPEN <input type="checkbox"/> OPERATOR CHANGE <input type="checkbox"/> PRODUCTION START OR RESUME <input type="checkbox"/> REPERFORATE CURRENT FORMATION <input type="checkbox"/> TUBING REPAIR <input type="checkbox"/> WATER SHUTOFF <input type="checkbox"/> WILDCAT WELL DETERMINATION <input type="checkbox"/> ALTER CASING <input type="checkbox"/> CHANGE TUBING <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS <input type="checkbox"/> FRACTURE TREAT <input type="checkbox"/> PLUG AND ABANDON <input type="checkbox"/> RECLAMATION OF WELL SITE <input type="checkbox"/> SIDETRACK TO REPAIR WELL <input type="checkbox"/> VENT OR FLARE <input type="checkbox"/> SI TA STATUS EXTENSION <input checked="" type="checkbox"/> OTHER	
	<input type="checkbox"/> CASING REPAIR <input type="checkbox"/> CHANGE WELL NAME <input type="checkbox"/> CONVERT WELL TYPE <input type="checkbox"/> NEW CONSTRUCTION <input type="checkbox"/> PLUG BACK <input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION <input type="checkbox"/> TEMPORARY ABANDON <input type="checkbox"/> WATER DISPOSAL <input type="checkbox"/> APD EXTENSION OTHER: <input type="text" value="Weekly Status Report"/>	
12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.		
The above well was completed on 06/27/2011. Attached is a daily completion status report.		
<p><b>Accepted by the Utah Division of Oil, Gas and Mining FOR RECORD ONLY</b></p>		
<b>NAME (PLEASE PRINT)</b> Jennifer Peatross	<b>PHONE NUMBER</b> 435 646-4885	<b>TITLE</b> Production Technician
<b>SIGNATURE</b> N/A	<b>DATE</b> 7/15/2011	

## Daily Activity Report

**Format For Sundry**

**GMBU T-2-9-17**

**4/1/2011 To 8/30/2011**

**6/20/2011 Day: 1**

**Completion**

Rigless on 6/20/2011 - Rigged up Perforators WLT with lubricator. Ran CBL under pressure. WLTD was 6070' with TOC at 120'. Ran in hole with 3-1/8" ported guns and perforated CP5 and CP3 sands as shown in perforation report. SWIFN. - Nipple up frac head and Weatherford BOPs. Rig up hot oiler and test casing, frac head, frac valves and BOPs to 4500 psi. Rig up Perforators WLT with lubricator. Run CBL under pressure. WLTD was 6070' with TOC at 120'. Run in hole with 3-1/8" ported guns and perforate CP5 and CP3 sands as shown in perforation report. Rig down WLT and hot oiler. SIWFN w/ 144 BWTR.

**Daily Cost:** \$0

**Cumulative Cost:** \$16,292

**6/22/2011 Day: 2**

**Completion**

Rigless on 6/22/2011 - Frac Stage 1 with Baker Hughes. Frac and perforate Stages 2-4 with Baker Hughes and The Perforators. Began flowback on 20/64 choke at 3 BPM. Well flowed for 6 hours and died. SWIFN. - RU BJ Services and Perforators for Stage 2. Perforate CP2 and CP1 sands as shown in perforation report. Rig down Perforators and frac CP2 and CP1 sands with 39,907 lbs of white 20/40 sand. Leave pressure on well. 1316 BWTR. - RU BJ Services and Perforators for Stage 3. Perforate LODC and A1 sands as shown in perforation report. Rig down Perforators and frac LODC and A1 sands with 96,136 lbs of white 20/40 sand. Leave pressure on well. 2017 BWTR. - RU BJ Services for Stage 1. Frac CP5 and CP3 sands with 100,160 lbs of white 20/40 sand. Leave pressure on well. 924 BWTR. - RU BJ Services and Perforators for Stage 4. Perforate D1 and DS3 sands as shown in perforation report. Rig down Perforators and frac D1 and DS3 sands with 34,274 lbs of white 20/40 sand. Leave pressure on well. 2356 BWTR. - Begin flowback on 20/64 choke at 3 BPM. Well flowed for 6 hours and died. Recovered 860 bbls of fluid. SIWFN with 1500 BWTR.

**Daily Cost:** \$0

**Cumulative Cost:** \$38,212

**6/24/2011 Day: 3**

**Completion**

NC #1 on 6/24/2011 - MIRU NC#1,N/D 10,000 BOP, N/U 5,000 BOP. - 10:30AM MIRU NC#1, 7 Mile Rig Move. OWU W/-600 Psi On Csg, Well Flowed 130 BW. N/D 10,000 BOP, N/U 5,000 BOP, R/U Flr, Well Started Flowing Oil, SWI, 6:30PM C/SDFN, 6:30PM-7:00PM C/Trvl. 1370 BWTR.

**Daily Cost:** \$0

**Cumulative Cost:** \$43,092

**6/25/2011 Day: 4**

**Completion**

NC #1 on 6/25/2011 - R/U WL RIH Set Kill Plg @ 4630',RIH W/-Bit & Tbg, Drill Up Plgs @ 4630'-4810'-5382', Cln Out To Plg @ 5700', POOH W/-2 Jts Tbg, SWI, C/SDFN. - 5:30AM-6:00AM C/Trvl, 6:00AM R/U Preferred H/Oiler pmp 20 BW D/Csg @ 250°, R/U Extreme W/Line RIH & Set Kill Plg @ 4630', P/U & RIH W/-4 3/4" Bit, Bit Sub, 150 Jts Tbg To Plg @ 4630', Drill Up Plg, 40 Min Drill Time, Swvl I/Hle To Plg @ 4810', Drill Up Plg, 1 Hr 10 Min Drill Time, Swvl I/Hle To Fill @ 5305', Drill & Cln Out To Plg @ 5382', Drill Up Plg, 1 Hr 30 Min Drill Time, Swvl

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I/Hle To Plg @ 5700, Curc Well Cln, POOH W/-2 Jts Tbg, EOB @ 5649', SWI, 5:30PM C/SDFN, 5:30PM-6:00PM C/Trvl. 1287 BWTR.

**Daily Cost:** \$0

**Cumulative Cost:** \$51,471

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**6/27/2011 Day: 5****Completion**

NC #1 on 6/27/2011 - OWU,RIH & Drill Up Plg @ 5700',Cln Out To PBTB @ 6098' Curc Cln,POOH W/-4 Jts Tbg, Flow Well Back.Flowed 154 Bbls Oil & Wtr, SWI, C/SDFN. - 5:30AM-6:00AM C/Trvl, 6:00AM OWU, W/-350 Psi On Tbg & Csg, Swvl I/Hle To Plg @ 5700', Drill Up Plg, 1 Hr Drill Time, Swvl I/Hle To Fill @ 5961', Drill & Cln Out To PBTB @ 6098', Curc Well Cln 1 Hr. R/D Swvl, POOH W/-4 Jts Tbg, EOB @ 5990'. OWU To Flow Back, Well Flowed 154 Bbls, SWI, 7:00PM C/SDFN, 7:00PM-7:30PM C/Trvl. 1133 BWTR.

**Daily Cost:** \$0

**Cumulative Cost:** \$60,263

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**6/28/2011 Day: 6****Completion**

NC #1 on 6/28/2011 - OWU, Flow Back 40 Bbls Oil,Kill Well W/-Brine Wtr,Curc Out @ PBTB,Trip Tbg Prod,Set T/A,Land Tbg,Run pmp & Rod Prod, Seat pmp, R/U Unit, Fill Tbg, Test pmp & Tbg To 800 Psi, Good Test, R/D Rig. Could Not POP Due To Flow Line Issue. - 5:30AM-6:00AM C/Trvl, 6:00AM OWU, W/-350 Psi On Csg, 400 Psi On Tbg, Well Flowed 40 Bbls Oil. R/U R/pmp, RIH W/-4 Jts Tbg To Fill @ 6088', Cln Out To PBTB @ 6098', Curc Well Cln W/-Brine Wtr For Kill. POOH W/-197 Jts Tbg, Bit Sub & Bit. P/U & RIH W/-N/C, 2 Jts Tbg, S/N, 1 Jt Tbg, 5 1/2" T/A, 188 Jts Tbg, R/D Flr, N/D BOP, Set T/A In 18,000 Tension, N/U W/-HD. P/U Stroke & RIH W/-C/Hyd 2 1/2X1 1/2X20X24' RHAC, 1"X4' 3 Per Stabilizer Pony, 4-1 1/2 Wt Bars W/-1"X4' 3 Per Stabilizer Ponys Between Wt Bars, 228- 7/8 8 Per, 7/8X4' Pony, 1 1/2X30' Polish Rod, Seat pmp, R/U Unit, Fill Tbg W/-1 BW, Stroke Unit & Tbg To 800 Psi, Good Test. R/D Rig. - C/SDFN, 6:00PM-6:30PM C/Trvl. 1341 BWTR, Could Not POP Due To Flow Line Incomplete. ( Final Rig Invoice ). **Finalized**

**Daily Cost:** \$0

**Cumulative Cost:** \$136,947

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

**RECEIVED** Jul. 15, 2011

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

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

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. Resrv.,  
 Other: \_\_\_\_\_

2. Name of Operator  
NEWFIELD EXPLORATION COMPANY

3. Address  
1401 17TH ST. SUITE 1000 DENVER, CO 80202

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

4. Location of Well (Report location clearly and in accordance with Federal requirements)\*  
 At surface 644' FSL & 644' FEL (SE/SE) SEC. 2, T9S, R17E (ML-45555)

*BHL reviewed by JP*

At top prod. interval reported below 1182' FSL & 270' FEL (SE/SE) SEC. 2, T9S, R17E (ML-45555)

At total depth 1364' FSL & 140' FEL (NE/SE) SEC. 2, T2S, R17E (ML-45555)

14. Date Spudded  
05/26/2011

15. Date T.D. Reached  
06/07/2011

16. Date Completed 06/27/2011  
 D & A  Ready to Prod.

17. Elevations (DF, RKB, RT, GL)\*  
5062' GL 5074' KB

18. Total Depth: MD 6127'  
TVD 6050'

19. Plug Back T.D.: MD 6098'  
TVD 6022'

20. Depth Bridge Plug Set: MD  
TVD

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

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

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

Hole Size	Size/Grade	Wt. (#/ft.)	Top (MD)	Bottom (MD)	Stage Cementer Depth	No. of Sk. & Type of Cement	Slurry Vol. (BBL)	Cement Top*	Amount Pulled
12-1/4"	8-5/8" J-55	24#	0	310'		160 CLASS G			
7-7/8"	5-1/2" J-55	15.5#	0	6136'		300 PRIMLITE		120'	
						400 50/50 POZ			

24. Tubing Record

Size	Depth Set (MD)	Packer Depth (MD)	Size	Depth Set (MD)	Packer Depth (MD)	Size	Depth Set (MD)	Packer Depth (MD)
2-7/8"	EOT@ 5938'	TA @ 5841'						

25. Producing Intervals

Formation	Top	Bottom	Perforated Interval	Size	No. Holes	Perf. Status
A) Green River	4673'	5857'	4673-5857'	.36"	126	
B)						
C)						
D)						

26. Perforation Record

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

Depth Interval	Amount and Type of Material
4673-5857'	Frac w/ 271261#s 20/40 white sand in 1673 bbls of Lightning 17 fluid in 4 stages.

28. Production - Interval A

Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
7/1/11	7/16/11	24	→	27	24	16			2-1/2" x 1-1/2" x 20' x 24' RHAC Pump
Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas/Oil Ratio	Well Status	
			→					PRODUCING	

28a. Production - Interval B

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

RECEIVED  
JUL 28 2011

\*(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.)

SOLD AND USED FOR FUEL

30. Summary of Porous Zones (Include Aquifers):

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

31. Formation (Log) Markers

GEOLOGICAL MARKERS

Formation	Top	Bottom	Descriptions, Contents, etc.	Name	Top
					Meas. Depth
GREEN RIVER	4673'	5857'		GARDEN GULCH MRK	3733'
				GARDEN GULCH 1	3917'
				GARDEN GULCH 2	4037'
				POINT 3	4297'
				X MRKR	4535'
				Y MRKR	4569'
				DOUGLAS CREEK MRK	4700'
				BI-CARB	4953'
				B LIMESTONE MARK	5078'
				CASTLE PEAK	5533'
				BASAL CARBONATE	5961'
				WASATCH	6082'

32. Additional remarks (include plugging procedure):

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

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

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

Name *(please print)* Jennifer Peatross Title Production Technician  
 Signature *Jennifer Peatross* Date 07/22/2011

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

**NEWFIELD**



# **NEWFIELD EXPLORATION**

**USGS Myton SW (UT)**

**SECTION 2 T9S, R17E**

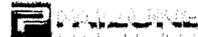
**T-2-9-17**

**Wellbore #1**

**Design: Actual**

## **Standard Survey Report**

**09 June, 2011**





# PayZone Directional Services, LLC.

## Survey Report



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

**Local Co-ordinate Reference:** Well T-2-9-17  
**TVD Reference:** T-2-9-17 @ 5074.0ft (Newfield Rig #1)  
**MD Reference:** T-2-9-17 @ 5074.0ft (Newfield Rig #1)  
**North Reference:** True  
**Survey Calculation Method:** Minimum Curvature  
**Database:** EDM 2003.21 Single User Db

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

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

<b>Well</b>	T-2-9-17, SHL LAT: 40 03 16.01 LONG: -109 58 00.11					
<b>Well Position</b>	<b>+N/-S</b>	0.0 ft	<b>Northing:</b>	7,192,234.88 ft	<b>Latitude:</b>	40° 3' 16.010 N
	<b>+E/-W</b>	0.0 ft	<b>Easting:</b>	2,069,588.70 ft	<b>Longitude:</b>	109° 58' 0.110 W
<b>Position Uncertainty</b>		0.0 ft	<b>Wellhead Elevation:</b>	5,074.0 ft	<b>Ground Level:</b>	5,062.0 ft

<b>Wellbore</b>	Wellbore #1				
<b>Magnetics</b>	<b>Model Name</b>	<b>Sample Date</b>	<b>Declination (°)</b>	<b>Dip Angle (°)</b>	<b>Field Strength (nT)</b>
	IGRF2010	2011/03/15	11.31	65.83	52,318

<b>Design</b>	Actual				
<b>Audit Notes:</b>					
<b>Version:</b>	1.0	<b>Phase:</b>	ACTUAL	<b>Tie On Depth:</b>	0.0
<b>Vertical Section:</b>		<b>Depth From (TVD) (ft)</b>	<b>+N/-S (ft)</b>	<b>+E/-W (ft)</b>	<b>Direction (°)</b>
		0.0	0.0	0.0	37.13

<b>Survey Program</b>	<b>Date</b>	2011/06/09			
<b>From (ft)</b>	<b>To (ft)</b>	<b>Survey (Wellbore)</b>	<b>Tool Name</b>	<b>Description</b>	
322.0	6,127.0	Survey #1 (Wellbore #1)	MWD	MWD - Standard	

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.00	0.00	0.00
322.0	1.00	177.50	322.0	-2.8	0.1	-2.2	0.31	0.31	0.00
353.0	1.30	179.60	353.0	-3.4	0.1	-2.7	0.98	0.97	6.77
384.0	1.20	194.00	384.0	-4.1	0.1	-3.2	1.06	-0.32	46.45
414.0	0.90	184.80	414.0	-4.6	0.0	-3.7	1.14	-1.00	-30.67
445.0	0.60	168.20	445.0	-5.0	0.0	-4.0	1.19	-0.97	-53.55
475.0	0.50	152.80	475.0	-5.3	0.1	-4.2	0.59	-0.33	-51.33
506.0	0.30	104.70	506.0	-5.4	0.2	-4.2	1.21	-0.65	-155.16
536.0	0.60	86.10	536.0	-5.5	0.4	-4.1	1.10	1.00	-62.00
567.0	0.40	64.50	567.0	-5.4	0.7	-3.9	0.88	-0.65	-69.68
597.0	0.90	67.30	597.0	-5.3	1.0	-3.6	1.67	1.67	9.33
628.0	1.40	41.90	628.0	-4.9	1.5	-3.0	2.27	1.61	-81.94
659.0	1.60	40.70	658.9	-4.3	2.0	-2.2	0.65	0.65	-3.87



# PayZone Directional Services, LLC.

## Survey Report



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

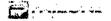
**Local Co-ordinate Reference:** Well T-2-9-17  
**TVD Reference:** T-2-9-17 @ 5074.0ft (Newfield Rig #1)  
**MD Reference:** T-2-9-17 @ 5074.0ft (Newfield Rig #1)  
**North Reference:** True  
**Survey Calculation Method:** Minimum Curvature  
**Database:** EDM 2003.21 Single User Db

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)
689.0	2.00	27.00	688.9	-3.5	2.5	-1.3	1.95	1.33	-45.67
720.0	2.40	26.70	719.9	-2.4	3.1	-0.1	1.29	1.29	-0.97
750.0	2.60	29.90	749.9	-1.3	3.7	1.2	0.81	0.67	10.67
781.0	2.70	28.40	780.8	0.0	4.4	2.6	0.39	0.32	-4.84
825.0	3.00	28.10	824.8	1.9	5.4	4.8	0.68	0.68	-0.68
869.0	3.20	23.60	868.7	4.0	6.5	7.1	0.72	0.45	-10.23
913.0	3.70	28.20	912.6	6.4	7.6	9.7	1.30	1.14	10.45
957.0	4.50	36.30	956.5	9.1	9.3	12.8	2.24	1.82	18.41
1,001.0	5.40	28.90	1,000.4	12.3	11.3	16.6	2.50	2.05	-16.82
1,045.0	6.30	28.90	1,044.1	16.2	13.5	21.1	2.05	2.05	0.00
1,089.0	6.90	29.70	1,087.8	20.6	16.0	26.1	1.38	1.36	1.82
1,133.0	7.90	27.30	1,131.5	25.6	18.7	31.7	2.38	2.27	-5.45
1,177.0	8.70	28.80	1,175.0	31.2	21.7	37.9	1.88	1.82	3.41
1,221.0	8.90	29.00	1,218.5	37.1	24.9	44.6	0.46	0.45	0.45
1,265.0	9.60	30.50	1,261.9	43.2	28.4	51.6	1.68	1.59	3.41
1,309.0	10.00	30.50	1,305.3	49.7	32.2	59.1	0.91	0.91	0.00
1,353.0	10.20	31.90	1,348.6	56.3	36.2	66.7	0.72	0.45	3.18
1,397.0	10.30	32.50	1,391.9	62.9	40.4	74.5	0.33	0.23	1.36
1,441.0	10.20	32.70	1,435.2	69.5	44.6	82.3	0.24	-0.23	0.45
1,485.0	10.00	32.20	1,478.5	76.0	48.8	90.0	0.50	-0.45	-1.14
1,529.0	10.10	30.50	1,521.8	82.6	52.8	97.7	0.71	0.23	-3.86
1,573.0	10.10	31.70	1,565.2	89.2	56.7	105.3	0.48	0.00	2.73
1,617.0	10.10	32.00	1,608.5	95.7	60.8	113.0	0.12	0.00	0.68
1,661.0	9.90	32.00	1,651.8	102.2	64.9	120.6	0.45	-0.45	0.00
1,705.0	9.50	33.70	1,695.2	108.4	68.9	128.0	1.12	-0.91	3.86
1,749.0	9.50	33.60	1,738.6	114.5	72.9	135.3	0.04	0.00	-0.23
1,793.0	9.40	34.70	1,782.0	120.4	77.0	142.5	0.47	-0.23	2.50
1,837.0	8.90	36.80	1,825.4	126.1	81.0	149.5	1.37	-1.14	4.77
1,881.0	8.60	37.20	1,868.9	131.5	85.1	156.2	0.70	-0.68	0.91
1,925.0	8.10	39.90	1,912.4	136.5	89.1	162.6	1.44	-1.14	6.14
1,969.0	7.90	42.80	1,956.0	141.1	93.1	168.7	1.02	-0.45	6.59
2,013.0	8.00	40.00	1,999.6	145.6	97.1	174.7	0.91	0.23	-6.36
2,057.0	7.90	37.20	2,043.2	150.4	100.9	180.8	0.91	-0.23	-6.36
2,101.0	7.80	38.50	2,086.8	155.1	104.6	186.8	0.46	-0.23	2.95
2,145.0	7.90	39.70	2,130.3	159.8	108.4	192.8	0.44	0.23	2.73
2,189.0	8.40	39.30	2,173.9	164.6	112.4	199.1	1.14	1.14	-0.91
2,233.0	8.40	38.30	2,217.4	169.6	116.4	205.5	0.33	0.00	-2.27
2,277.0	8.30	37.90	2,261.0	174.6	120.3	211.9	0.26	-0.23	-0.91
2,321.0	8.50	37.50	2,304.5	179.7	124.3	218.3	0.47	0.45	-0.91
2,365.0	8.70	34.90	2,348.0	185.0	128.1	224.9	0.99	0.45	-5.91
2,409.0	9.30	33.30	2,391.5	190.7	132.0	231.8	1.48	1.36	-3.64
2,453.0	9.60	32.40	2,434.9	196.8	135.9	239.0	0.76	0.68	-2.05
2,497.0	9.60	31.80	2,478.2	203.0	139.8	246.3	0.23	0.00	-1.36
2,541.0	9.80	27.40	2,521.6	209.5	143.5	253.6	1.74	0.45	-10.00
2,585.0	9.50	25.00	2,565.0	216.1	146.7	260.9	1.14	-0.68	-5.45
2,629.0	9.60	24.50	2,608.4	222.7	149.8	268.0	0.30	0.23	-1.14
2,673.0	9.10	25.50	2,651.8	229.2	152.8	275.0	1.19	-1.14	2.27
2,717.0	8.80	24.60	2,695.3	235.4	155.7	281.7	0.75	-0.68	-2.05
2,761.0	8.70	22.90	2,738.7	241.5	158.4	288.2	0.63	-0.23	-3.86
2,804.0	8.80	20.00	2,781.2	247.6	160.8	294.5	1.05	0.23	-6.74
2,848.0	9.30	19.30	2,824.7	254.1	163.1	301.1	1.16	1.14	-1.59
2,892.0	9.90	22.80	2,868.1	261.0	165.8	308.1	1.90	1.36	7.95
2,936.0	10.50	26.70	2,911.4	268.0	169.0	315.7	2.08	1.36	8.86
2,980.0	11.10	30.80	2,954.6	275.3	173.0	323.9	2.21	1.36	9.32



# PayZone Directional Services, LLC.

## Survey Report



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

**Local Co-ordinate Reference:** Well T-2-9-17  
**TVD Reference:** T-2-9-17 @ 5074.0ft (Newfield Rig #1)  
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**North Reference:** True  
**Survey Calculation Method:** Minimum Curvature  
**Database:** EDM 2003.21 Single User Db

### Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
3,024.0	12.00	33.90	2,997.7	282.7	177.7	332.7	2.48	2.05	7.05
3,068.0	11.90	34.80	3,040.8	290.2	182.9	341.8	0.48	-0.23	2.05
3,112.0	11.40	35.10	3,083.9	297.5	187.9	350.6	1.14	-1.14	0.68
3,156.0	11.60	37.10	3,127.0	304.6	193.1	359.4	1.01	0.45	4.55
3,200.0	12.30	39.00	3,170.0	311.8	198.7	368.5	1.82	1.59	4.32
3,244.0	13.40	39.30	3,212.9	319.3	204.9	378.3	2.50	2.50	0.68
3,288.0	13.30	40.70	3,255.7	327.1	211.4	388.4	0.77	-0.23	3.18
3,332.0	13.20	39.60	3,298.6	334.8	217.9	398.5	0.62	-0.23	-2.50
3,376.0	13.30	38.60	3,341.4	342.7	224.3	408.6	0.57	0.23	-2.27
3,420.0	13.20	37.50	3,384.2	350.6	230.5	418.7	0.62	-0.23	-2.50
3,464.0	13.60	38.70	3,427.0	358.6	236.8	428.9	1.11	0.91	2.73
3,508.0	13.90	38.00	3,469.8	366.8	243.3	439.3	0.78	0.68	-1.59
3,552.0	14.00	37.60	3,512.5	375.2	249.8	449.9	0.32	0.23	-0.91
3,596.0	13.90	37.30	3,555.2	383.6	256.3	460.5	0.28	-0.23	-0.68
3,640.0	13.40	37.20	3,597.9	391.9	262.5	470.9	1.14	-1.14	-0.23
3,684.0	12.50	37.50	3,640.8	399.7	268.5	480.8	2.05	-2.05	0.68
3,728.0	11.90	36.50	3,683.8	407.2	274.1	490.1	1.45	-1.36	-2.27
3,772.0	11.60	37.10	3,726.9	414.3	279.5	499.0	0.74	-0.68	1.36
3,816.0	12.00	36.00	3,769.9	421.6	284.8	508.0	1.04	0.91	-2.50
3,860.0	11.70	37.30	3,813.0	428.8	290.2	517.1	0.91	-0.68	2.95
3,904.0	11.40	38.60	3,856.1	435.8	295.6	525.9	0.90	-0.68	2.95
3,948.0	11.70	41.10	3,899.2	442.5	301.3	534.7	1.33	0.68	5.68
3,992.0	11.90	43.40	3,942.3	449.2	307.3	543.6	1.16	0.45	5.23
4,036.0	11.90	42.80	3,985.4	455.8	313.5	552.7	0.28	0.00	-1.36
4,080.0	11.70	43.00	4,028.4	462.4	319.7	561.6	0.46	-0.45	0.45
4,124.0	11.30	39.40	4,071.5	469.0	325.4	570.4	1.87	-0.91	-8.18
4,168.0	10.70	38.00	4,114.7	475.5	330.7	578.7	1.49	-1.36	-3.18
4,212.0	10.10	35.60	4,158.0	481.9	335.5	586.7	1.68	-1.36	-5.45
4,256.0	9.70	33.40	4,201.4	488.1	339.7	594.2	1.25	-0.91	-5.00
4,300.0	9.30	33.00	4,244.8	494.2	343.7	601.5	0.92	-0.91	-0.91
4,344.0	9.00	32.20	4,288.2	500.1	347.5	608.5	0.74	-0.68	-1.82
4,388.0	8.60	33.20	4,331.7	505.8	351.1	615.2	0.97	-0.91	2.27
4,432.0	8.70	33.40	4,375.2	511.3	354.8	621.8	0.24	0.23	0.45
4,476.0	8.80	33.80	4,418.7	516.9	358.5	628.5	0.27	0.23	0.91
4,520.0	8.40	35.50	4,462.2	522.3	362.2	635.0	1.08	-0.91	3.86
4,564.0	8.40	37.50	4,505.7	527.4	366.0	641.5	0.66	0.00	4.55
4,608.0	8.30	37.00	4,549.2	532.5	369.9	647.8	0.28	-0.23	-1.14
4,652.0	8.20	36.40	4,592.8	537.6	373.7	654.2	0.30	-0.23	-1.36
4,696.0	8.60	35.40	4,636.3	542.8	377.4	660.6	0.97	0.91	-2.27
4,740.0	8.70	35.60	4,679.8	548.2	381.3	667.2	0.24	0.23	0.45
4,784.0	8.90	37.00	4,723.3	553.6	385.3	673.9	0.67	0.45	3.18
4,828.0	9.30	36.80	4,766.7	559.2	389.4	680.9	0.91	0.91	-0.45
4,872.0	8.90	37.40	4,810.2	564.7	393.6	687.8	0.93	-0.91	1.36
4,916.0	8.50	36.30	4,853.7	570.0	397.6	694.5	0.98	-0.91	-2.50
4,960.0	8.30	36.70	4,897.2	575.2	401.5	700.9	0.47	-0.45	0.91
5,004.0	8.20	35.40	4,940.7	580.3	405.2	707.2	0.48	-0.23	-2.95
5,048.0	8.60	33.60	4,984.3	585.6	408.8	713.7	1.09	0.91	-4.09
5,092.0	8.50	33.70	5,027.8	591.1	412.4	720.2	0.23	-0.23	0.23
5,136.0	8.50	34.00	5,071.3	596.5	416.1	726.7	0.10	0.00	0.68
5,180.0	8.70	34.80	5,114.8	601.9	419.8	733.3	0.53	0.45	1.82
5,224.0	8.80	34.70	5,158.3	607.4	423.6	739.9	0.23	0.23	-0.23
5,268.0	9.00	35.70	5,201.8	613.0	427.5	746.7	0.57	0.45	2.27
5,312.0	9.90	34.30	5,245.2	618.9	431.7	754.0	2.11	2.05	-3.18
5,356.0	9.70	35.50	5,288.5	625.0	435.9	761.4	0.65	-0.45	2.73



# PayZone Directional Services, LLC.

## Survey Report



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

**Local Co-ordinate Reference:** Well T-2-9-17  
**TVD Reference:** T-2-9-17 @ 5074.0ft (Newfield Rig #1)  
**MD Reference:** T-2-9-17 @ 5074.0ft (Newfield Rig #1)  
**North Reference:** True  
**Survey Calculation Method:** Minimum Curvature  
**Database:** EDM 2003.21 Single User Db

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)	
5,400.0	9.50	37.00	5,331.9	630.9	440.3	768.8	0.73	-0.45	3.41	
5,444.0	9.20	34.00	5,375.3	636.7	444.4	775.9	1.30	-0.68	-6.82	
5,488.0	8.30	30.40	5,418.8	642.4	448.0	782.6	2.39	-2.05	-8.18	
5,532.0	7.50	28.50	5,462.4	647.7	451.0	788.6	1.91	-1.82	-4.32	
5,576.0	7.70	27.20	5,506.0	652.8	453.7	794.3	0.60	0.45	-2.95	
5,620.0	8.00	29.90	5,549.6	658.1	456.6	800.3	1.08	0.68	6.14	
5,664.0	8.40	33.90	5,593.1	663.4	459.9	806.5	1.58	0.91	9.09	
5,708.0	8.90	34.60	5,636.6	668.9	463.6	813.1	1.16	1.14	1.59	
5,752.0	8.80	35.60	5,680.1	674.4	467.5	819.9	0.42	-0.23	2.27	
5,797.0	9.10	37.30	5,724.6	680.0	471.7	826.9	0.89	0.67	3.78	
5,841.0	9.30	38.60	5,768.0	685.6	476.0	833.9	0.66	0.45	2.95	
5,885.0	9.90	39.40	5,811.4	691.3	480.6	841.3	1.40	1.36	1.82	
5,929.0	9.40	36.90	5,854.8	697.1	485.2	848.6	1.48	-1.14	-5.68	
5,973.0	8.70	38.20	5,898.2	702.6	489.4	855.6	1.66	-1.59	2.95	
6,017.0	8.60	40.40	5,941.7	707.7	493.6	862.2	0.79	-0.23	5.00	
6,021.2	8.59	40.44	5,945.8	708.2	494.0	862.8	0.23	-0.19	0.92	
<b>T-2-9-17 NO GO ZONE</b>										
6,071.0	8.50	40.90	5,995.1	713.8	498.8	870.2	0.23	-0.19	0.93	
6,127.0	8.40	41.20	6,050.5	720.0	504.2	878.4	0.20	-0.18	0.54	
<b>T-2-9-17 TGT</b>										

Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (ft)	Easting (ft)	Latitude	Longitude
T-2-9-17 TGT	0.00	0.00	6,075.0	704.3	533.2	7,192,948.24	2,070,109.75	40° 3' 22.971 N	109° 57' 53.252 W
- actual wellpath misses by 41.1ft at 6127.0ft MD (6050.5 TVD, 720.0 N, 504.2 E)									
- Circle (radius 75.0)									
T-2-9-17 NO GO ZONE	0.00	0.00	6,075.0	0.0	0.0	7,192,234.88	2,069,588.70	40° 3' 16.010 N	109° 58' 0.110 W
- actual wellpath misses by 873.0ft at 6020.4ft MD (5945.1 TVD, 708.1 N, 493.9 E)									
- Polygon									
Point 1			6,075.0	904.0	633.0	7,193,149.60	2,070,206.11		
Point 2			6,075.0	504.0	633.0	7,192,749.66	2,070,212.97		
Point 3			6,075.0	904.0	633.0	7,193,149.60	2,070,206.11		

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

# NEWFIELD



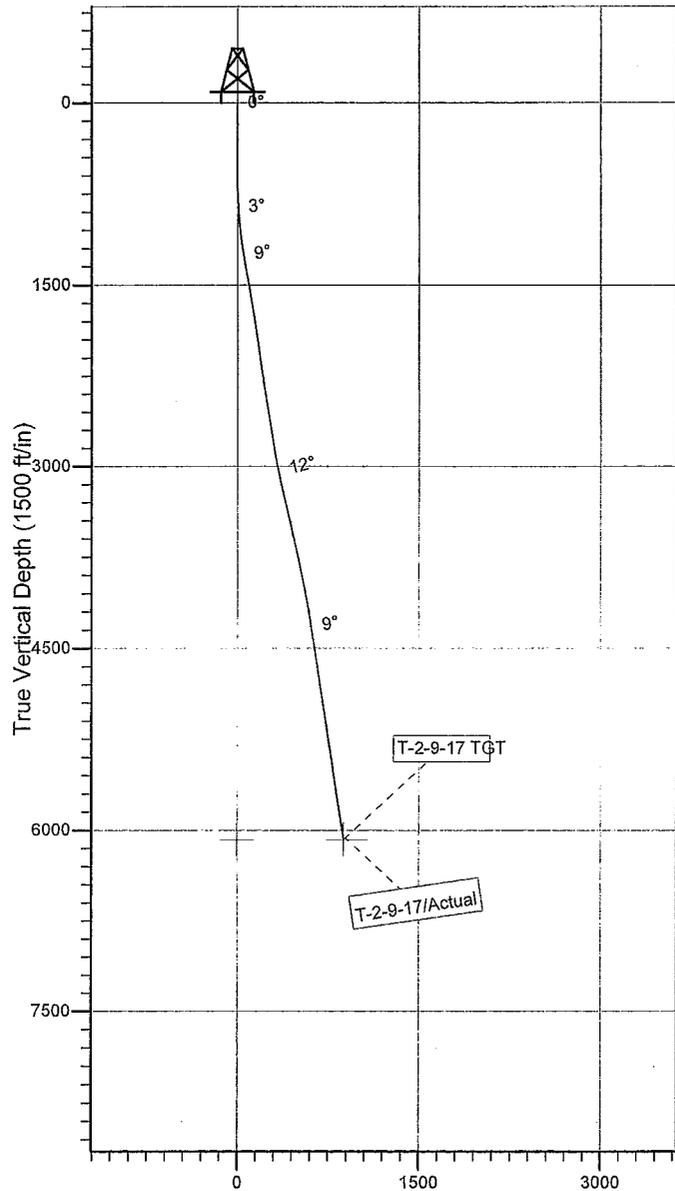
Project: USGS Myton SW (UT)  
 Site: SECTION 2 T9S, R17E  
 Well: T-2-9-17  
 Wellbore: Wellbore #1  
 SURVEY: Actual

FINAL SURVEY REPORT

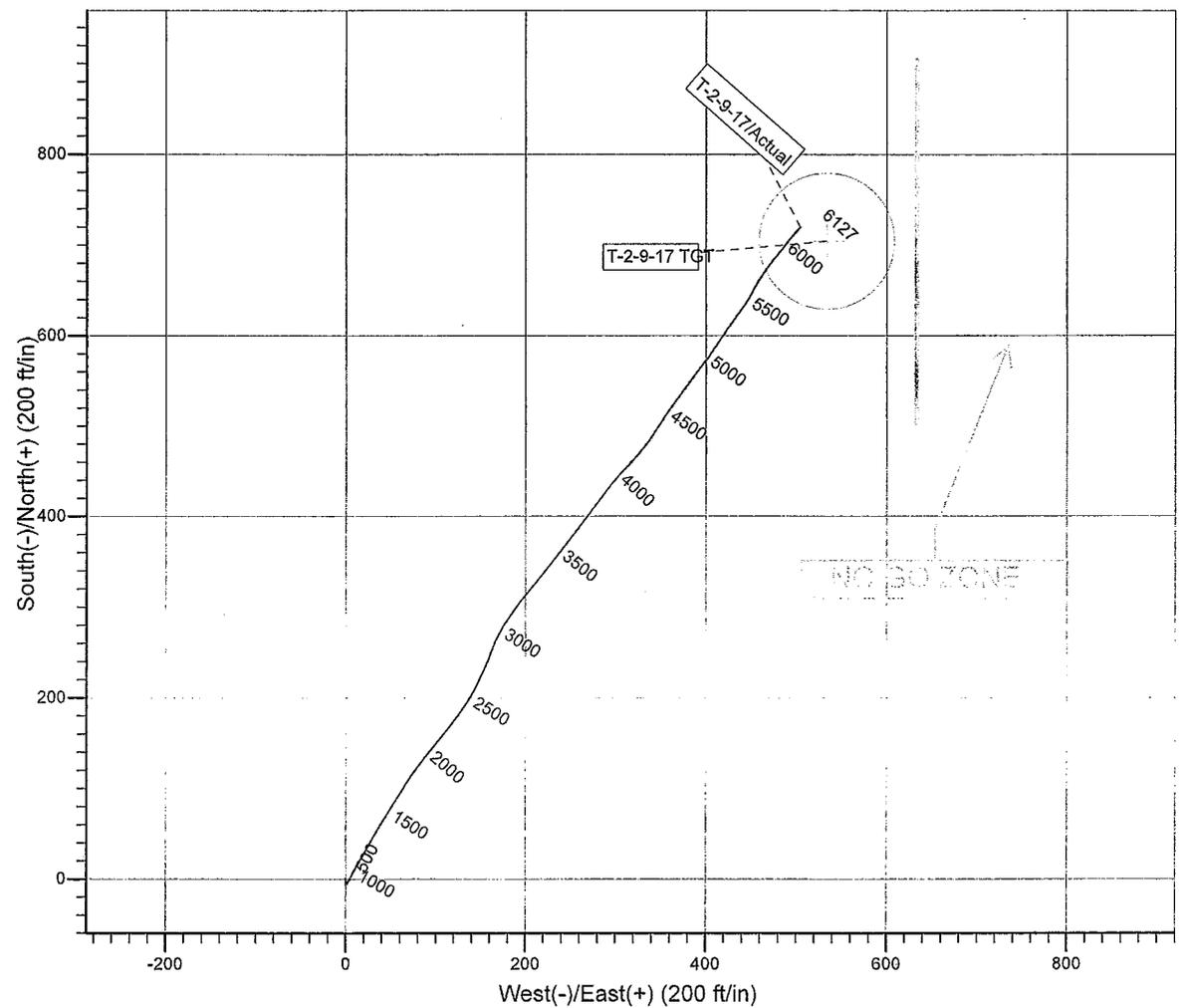


Azimuths to True North  
 Magnetic North: 11.31°

Magnetic Field  
 Strength: 52317.6snT  
 Dip Angle: 65.83°  
 Date: 2011/03/15  
 Model: IGRF2010



Vertical Section at 37.13° (1500 ft/in)



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

Created By: Sarah Webb Date: 18:16, June 09 2011  
 THIS SURVEY IS CORRECT TO THE BEST OF MY  
 KNOWLEDGE AND IS SUPPORTED BY ACTUAL FIELD DATA.



**Daily Activity Report**

Format For Sundry

**GMBU T-2-9-17****3/1/2011 To 7/30/2011****GMBU T-2-9-17****Waiting on Cement****Date:** 5/31/2011

Ross #29 at 310. Days Since Spud - On 5/26/11 Ross #29 spud and drilled 310' of 12 1/4" hole, P/U and run 7 jts of 8 5/8" casing set - 309.02'KB. On 5/27/11 cement w/BJ w/160 sks of class G+2%kcl+.25#CF mixed @ 15.8ppg and 1.17 - yield. Returned 10bbls to pit, bump plug to 570psi, BLM and State were notified of spud via email.

**Daily Cost:** \$0**Cumulative Cost:** \$52,056**GMBU T-2-9-17****Drill 7 7/8" hole with fresh water****Date:** 6/5/2011

NDSI SS #1 at 3210. 1 Days Since Spud - MIRU w/ Liddell trucking set all equipment - Drill 7 7/8" hole F/260' - 3210', w/ 20 WOB, 165 RPM, 379 GPM,ROP 259 - Surface csg @ 1500 PSI - test good - Pick up Sec FX65M bit, .33 mud motor,Payzone directional tools, HWDP tag @ 260' - R/U B&C quickestest Test Kelly,safty valve,choke manifold,Pipe and blind rams @ 2000 PSI

**Daily Cost:** \$0**Cumulative Cost:** \$111,386**GMBU T-2-9-17****Drill 7 7/8" hole with fresh water****Date:** 6/6/2011

NDSI SS #1 at 5586. 2 Days Since Spud - Work on C-9 floor motor - Replace injector - Drill 7 7/8" hole F/3210' - 4970', w/ 20 WOB, 160 RPM, 379 GPM,ROP 130 - Drill 7 7/8" hole F/4970' - 5586', w/ 20 WOB, 165 RPM, 379 GPM,ROP 94 - Work on mud pump change liners and swabs

**Daily Cost:** \$0**Cumulative Cost:** \$131,200**GMBU T-2-9-17****Circulate & Condition Hole****Date:** 6/7/2011

NDSI SS #1 at 6150. 3 Days Since Spud - Circulate csg - R/U csg run 146jt 5.5 15.5# j-55 LTC-tag -GS set @ 6136.15' KB -FC set @ 6094.10' KB - R/U Psi run DISGL/SP/GR suite TD to surface- DSN/SDL/GR/CAL suite TD to 3000' (loggers TD 6150') - Lay down DP,BHA and directional tools - Lay down DP to 4000' Pump 160 bbbs brine - Cirulate for logs-10 gal/min. flow - Drill 7 7/8" hole F/6100' - 6150', w/ 20 WOB, 165 RPM, 379 GPM,ROP 100 - TD - Fix hydraulic hose - Drill 7 7/8" hole F/5586' - 6100', w/ 20 WOB, 165 RPM, 379 GPM,ROP 101 - Change rams and test csg rams @ 2000 psi

**Daily Cost:** \$0**Cumulative Cost:** \$277,855**GMBU T-2-9-17****Wait on Completion****Date:** 6/8/2011

NDSI SS #1 at 6150. 4 Days Since Spud - Clean Mud tanks - Tear down - Mixed @ 14.4 ppg yeild @ 1.24 return 55 bbbs to pit Bump plug to 2190 psi - yield @ 3.54 Then tail of 400 sk 50:50:2+3%KCL+0.5%EC-1+.25# SK CF+.05#SF+.3SMS+FP-6L - CMT w/BJ Pump 300 sks PL II +3% KCL +5#CSE+0.5#CF+2#KOL+.5SMS+FP+SF mixed @ 11ppg - Circulate csg - Release rig @ 1:00 pm on 6/7/11 **Finalized**

**Daily Cost:** \$0

**Cumulative Cost:** \$315,516

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