

**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 U-32-8-16				
<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-21836			<b>11. MINERAL OWNERSHIP</b> FEDERAL <input type="checkbox"/> INDIAN <input type="checkbox"/> STATE <input checked="" type="checkbox"/> FEE <input type="checkbox"/>			<b>12. SURFACE OWNERSHIP</b> FEDERAL <input type="checkbox"/> INDIAN <input type="checkbox"/> STATE <input checked="" type="checkbox"/> FEE <input type="checkbox"/>				
<b>13. NAME OF SURFACE OWNER (if box 12 = 'fee')</b>						<b>14. SURFACE OWNER PHONE (if box 12 = 'fee')</b>				
<b>15. ADDRESS OF SURFACE OWNER (if box 12 = 'fee')</b>						<b>16. SURFACE OWNER E-MAIL (if box 12 = 'fee')</b>				
<b>17. INDIAN ALLOTTEE OR TRIBE NAME (if box 12 = 'INDIAN')</b>			<b>18. INTEND TO COMMINGLE PRODUCTION FROM MULTIPLE FORMATIONS</b> YES <input type="checkbox"/> (Submit Commingling Application) NO <input checked="" type="checkbox"/>			<b>19. SLANT</b> VERTICAL <input type="checkbox"/> DIRECTIONAL <input checked="" type="checkbox"/> HORIZONTAL <input type="checkbox"/>				
<b>20. LOCATION OF WELL</b>		<b>FOOTAGES</b>		<b>QTR-QTR</b>	<b>SECTION</b>	<b>TOWNSHIP</b>	<b>RANGE</b>	<b>MERIDIAN</b>		
LOCATION AT SURFACE		563 FSL 537 FEL		SESE	32	8.0 S	16.0 E	S		
Top of Uppermost Producing Zone		258 FSL 239 FEL		SESE	32	8.0 S	16.0 E	S		
At Total Depth		100 FSL 100 FEL		SESE	32	8.0 S	16.0 E	S		
<b>21. COUNTY</b> DUCHESNE			<b>22. DISTANCE TO NEAREST LEASE LINE (Feet)</b> 100			<b>23. NUMBER OF ACRES IN DRILLING UNIT</b> 20				
			<b>25. DISTANCE TO NEAREST WELL IN SAME POOL (Applied For Drilling or Completed)</b> 945			<b>26. PROPOSED DEPTH</b> MD: 6366 TVD: 6366				
<b>27. ELEVATION - GROUND LEVEL</b> 5669			<b>28. BOND NUMBER</b> B001834			<b>29. SOURCE OF DRILLING WATER / WATER RIGHTS APPROVAL NUMBER IF APPLICABLE</b> 437478				
<b>Hole, Casing, and Cement Information</b>										
<b>String</b>	<b>Hole Size</b>	<b>Casing Size</b>	<b>Length</b>	<b>Weight</b>	<b>Grade &amp; Thread</b>	<b>Max Mud Wt.</b>	<b>Cement</b>	<b>Sacks</b>	<b>Yield</b>	<b>Weight</b>
SURF	12.25	8.625	0 - 800	24.0	J-55 ST&C	8.3	Class G	367	1.17	15.8
PROD	7.875	5.5	0 - 6366	15.5	J-55 LT&C	8.3	Premium Lite High Strength	302	3.26	11.0
							50/50 Poz	363	1.24	14.3
<b>ATTACHMENTS</b>										
<b>VERIFY THE FOLLOWING ARE ATTACHED IN ACCORDANCE WITH THE UTAH OIL AND GAS CONSERVATION GENERAL RULES</b>										
<input checked="" type="checkbox"/> WELL PLAT OR MAP PREPARED BY LICENSED SURVEYOR OR ENGINEER					<input checked="" type="checkbox"/> COMPLETE DRILLING PLAN					
<input type="checkbox"/> AFFIDAVIT OF STATUS OF SURFACE OWNER AGREEMENT (IF FEE SURFACE)					<input type="checkbox"/> FORM 5. IF OPERATOR IS OTHER THAN THE LEASE OWNER					
<input checked="" type="checkbox"/> DIRECTIONAL SURVEY PLAN (IF DIRECTIONALLY OR HORIZONTALLY DRILLED)					<input checked="" type="checkbox"/> TOPOGRAPHICAL MAP					
<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> 43013506480000				<b>APPROVAL</b>				 Permit Manager		

NEWFIELD PRODUCTION COMPANY  
 GMBU U-32-8-16  
 AT SURFACE: SE/SE SECTION 32, T8S, R16E  
 DUCHESNE COUNTY, UTAH

TEN POINT DRILLING PROGRAM

1. **GEOLOGIC SURFACE FORMATION:**

Uinta formation of Upper Eocene Age

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

Uinta	0' – 1640'
Green River	1640'
Wasatch	6290'
<b>Proposed TD</b>	<b>6366'</b>

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

Green River Formation (Oil)	1640' – 6290'
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Fresh water may be encountered in the Uinta Formation, but would not be expected below about 350'. All water shows and water bearing geologic units shall be reported to the geologic and engineering staff of the Vernal Office prior to running the next string of casing or before plugging orders are requested. All water shows must be reported within one (1) business day after being encountered.

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

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

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

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

4. **PROPOSED CASING PROGRAM**

a. **Casing Design: GMBU U-32-8-16**

Size	Interval		Weight	Grade	Coupling	Design Factors		
	Top	Bottom				Burst	Collapse	Tension
Surface casing 8-5/8"	0'	800'	24.0	J-55	STC	2,950 6.57	1,370 5.38	244,000 12.71
Prod casing 5-1/2"	0'	6,366'	15.5	J-55	LTC	4,810 2.37	4,040 1.99	217,000 2.20

Assumptions:

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

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

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

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

b. **Cementing Design: GMBU U-32-8-16**

Job	Fill	Description	Sacks	OH Excess*	Weight (ppg)	Yield (ft <sup>3</sup> /sk)
			ft <sup>3</sup>			
Surface casing	800'	Class G w/ 2% CaCl	367	30%	15.8	1.17
			429			
Prod casing Lead	4,366'	Prem Lite II w/ 10% gel + 3% KCl	302	30%	11.0	3.26
			983			
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 ±800 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 ±800 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 @ 800' +/-, and a Compensated Neutron-Formation Density Log from TD to 3500' +/- . A cement bond log will be run from PBTD to cement top. No drill stem testing or coring is planned for this well.

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

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

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

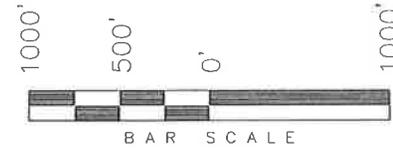
It is anticipated that the drilling operations will commence the second quarter of 2011, and take approximately seven (7) days from spud to rig release.

# T8S, R16E, S.L.B.&M.

## NEWFIELD EXPLORATION COMPANY

WELL LOCATION, U-32-8-16, LOCATED AS SHOWN IN THE SE 1/4 SE 1/4 OF SECTION 32, T8S, R16E, S.L.B.&M. DUCHESNE COUNTY, UTAH.

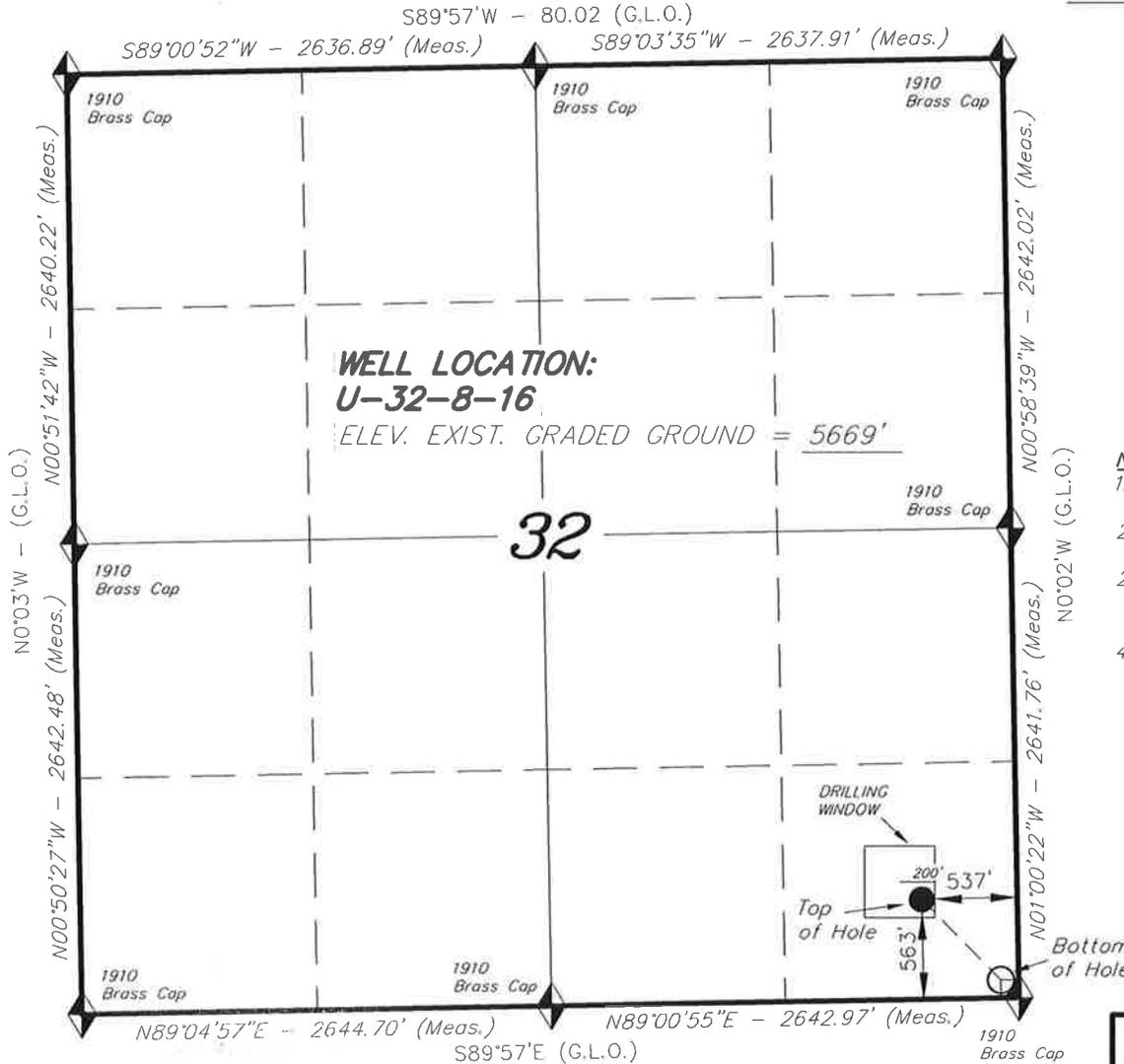
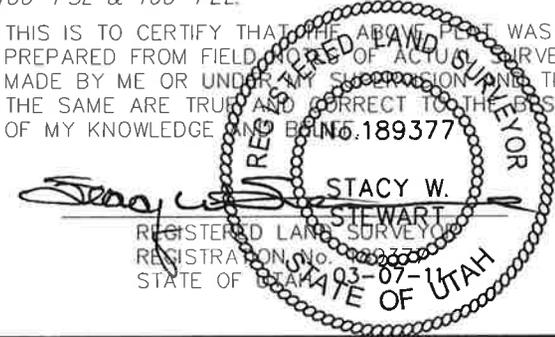
TARGET BOTTOM HOLE, U-32-8-16, LOCATED AS SHOWN IN THE SE 1/4 SE 1/4 OF SECTION 32, T8S, R16E, S.L.B.&M. DUCHESNE COUNTY, UTAH.



**NOTES:**

1. Well footages are measured at right angles to the Section Lines.
2. Bearings are based on Global Positioning Satellite observations.
2. The Bottom of Hole bears S44°20'10"E 636.92' from the Well head.
4. The Bottom of Hole footages are 100' 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

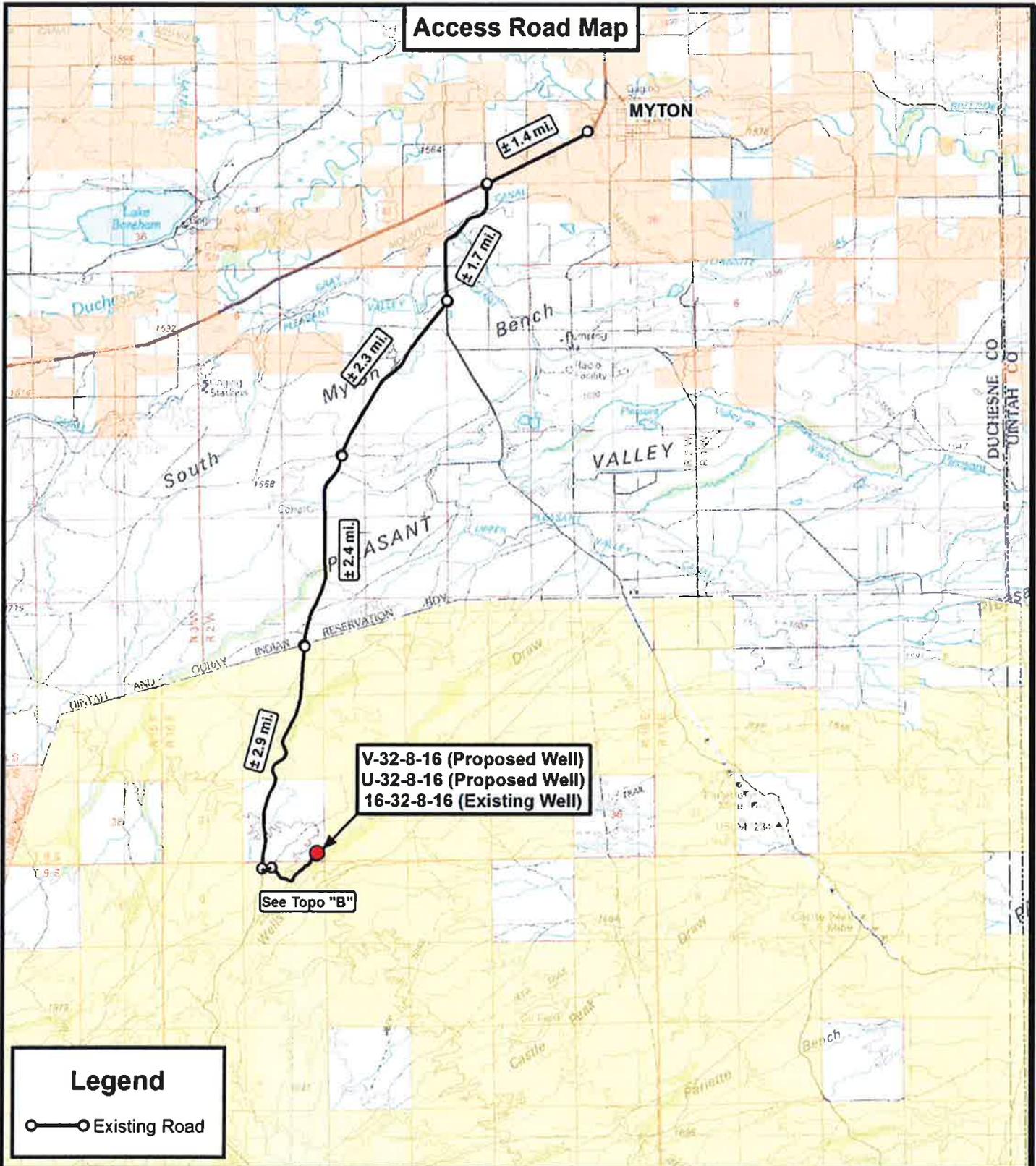
BASIS OF ELEV; Elevations are based on an N.G.S. OPUS Correction. LOCATION: LAT. 40°04'09.56" LONG. 110°00'43.28" (Tristate Aluminum Cap) Elev. 5281.57'

**U-32-8-16**  
 (Surface Location) NAD 83  
 LATITUDE = 40° 04' 07.45"  
 LONGITUDE = 110° 08' 08.76"

**TRI STATE LAND SURVEYING & CONSULTING**

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

DATE SURVEYED: 03-07-11	SURVEYED BY: D.G.
DATE DRAWN: 03-08-11	DRAWN BY: M.W.
REVISED:	SCALE: 1" = 100'



**Access Road Map**

**V-32-8-16 (Proposed Well)**  
**U-32-8-16 (Proposed Well)**  
**16-32-8-16 (Existing Well)**

See Topo "B"

**Legend**

○—○ Existing Road

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

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



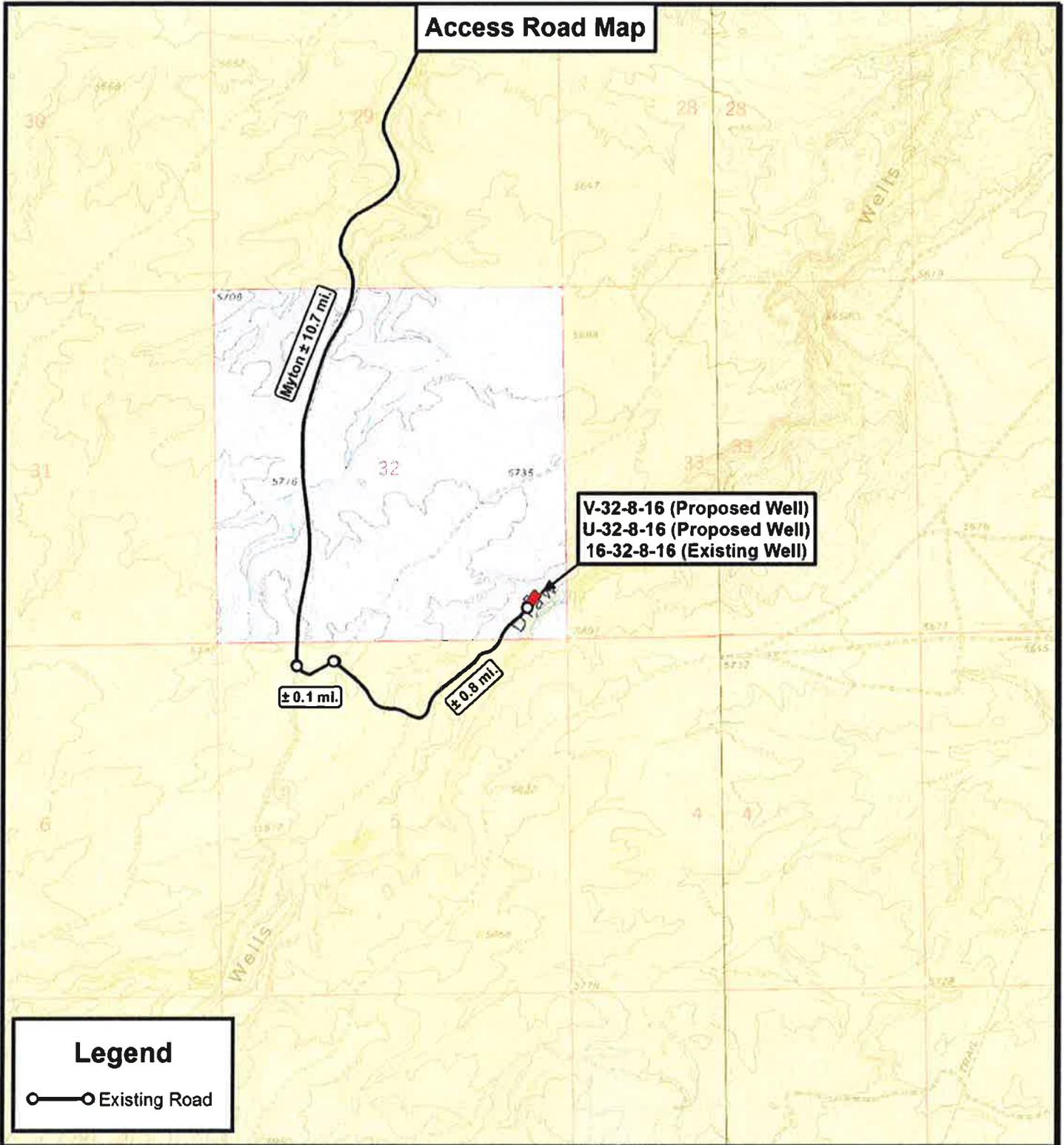
**NEWFIELD EXPLORATION COMPANY**

V-32-8-16 (Proposed Well)  
 U-32-8-16 (Proposed Well)  
 16-32-8-16 (Existing Well)  
 SEC. 32, T8S, R16E, S.L.B.&M. Duchesne County, UT.

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

**TOPOGRAPHIC MAP**

SHEET  
**A**



**Legend**

○—○ Existing Road

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

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**NEWFIELD EXPLORATION COMPANY**

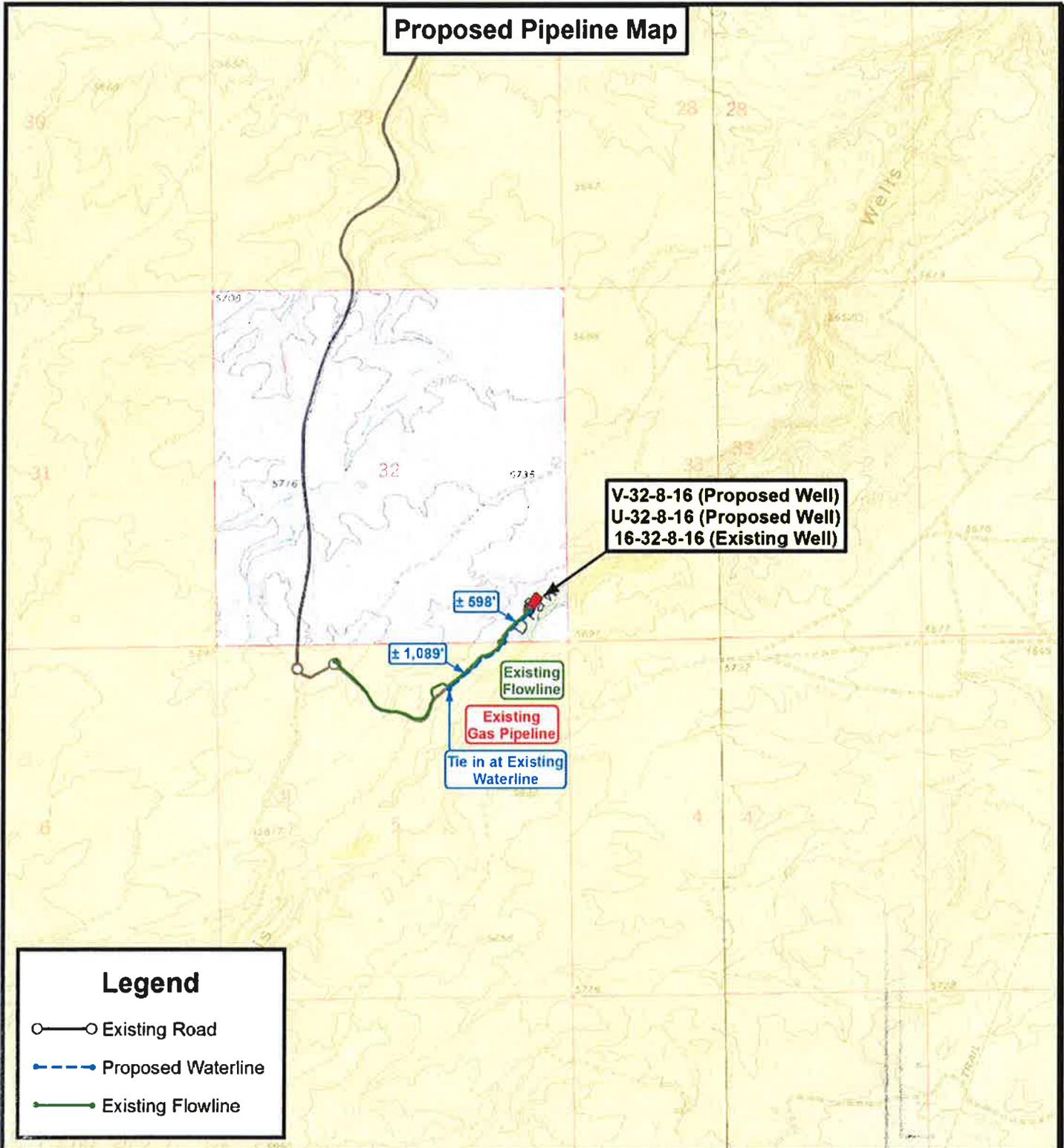
V-32-8-16 (Proposed Well)  
U-32-8-16 (Proposed Well)  
16-32-8-16 (Existing Well)

SEC. 32, T8S, R16E, S.L.B.&M. Duchesne County, UT.

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

**TOPOGRAPHIC MAP**

SHEET  
**B**



**Proposed Pipeline Map**

**V-32-8-16 (Proposed Well)  
U-32-8-16 (Proposed Well)  
16-32-8-16 (Existing Well)**

**Legend**

- Existing Road
- Proposed Waterline
- Existing Flowline

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F: (435) 781-2518



**NEWFIELD EXPLORATION COMPANY**

V-32-8-16 (Proposed Well)  
U-32-8-16 (Proposed Well)  
16-32-8-16 (Existing Well)

SEC. 32, T8S, R16E, S.L.B.&M. Duchesne County, UT.

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

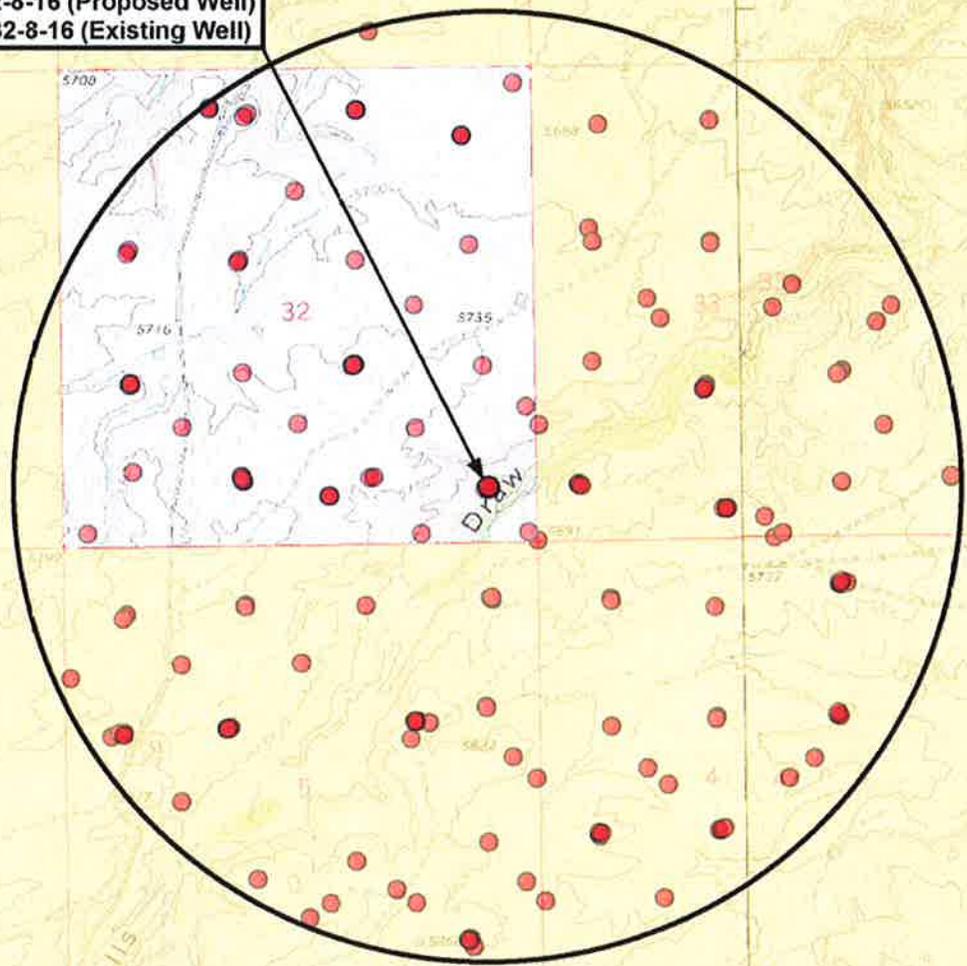
**TOPOGRAPHIC MAP**

SHEET  
**C**



**Exhibit "B" Map**

V-32-8-16 (Proposed Well)  
 U-32-8-16 (Proposed Well)  
 16-32-8-16 (Existing Well)



**Legend**

-  1 Mile Radius
-  Proposed Location

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**NEWFIELD EXPLORATION COMPANY**  
 V-32-8-16 (Proposed Well)  
 U-32-8-16 (Proposed Well)  
 16-32-8-16 (Existing Well)  
 SEC. 32, T8S, R16E, S.L.B.&M. Duchesne County, UT.

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

**TOPOGRAPHIC MAP**

SHEET  
**D**



# **NEWFIELD EXPLORATION**

**USGS Myton SW (UT)  
SECTION 32 T8S, R16E  
U-32-8-16**

**Wellbore #1**

**Plan: Design #1**

## **Standard Planning Report**

**07 June, 2011**





<b>Database:</b>	EDM 2003.21 Single User Db	<b>Local Co-ordinate Reference:</b>	Well U-32-8-16
<b>Company:</b>	NEWFIELD EXPLORATION	<b>TVD Reference:</b>	U-32-8-16 @ 5681.0ft (Newfield Rig)
<b>Project:</b>	USGS Myton SW (UT)	<b>MD Reference:</b>	U-32-8-16 @ 5681.0ft (Newfield Rig)
<b>Site:</b>	SECTION 32 T8S, R16E	<b>North Reference:</b>	True
<b>Well:</b>	U-32-8-16	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	Wellbore #1		
<b>Design:</b>	Design #1		

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

<b>Site</b>	SECTION 32 T8S, R16E, SEC 32 T8S, R16E				
<b>Site Position:</b>		<b>Northing:</b>	7,196,687.77 ft	<b>Latitude:</b>	40° 4' 8.000 N
<b>From:</b>	Lat/Long	<b>Easting:</b>	2,019,528.34 ft	<b>Longitude:</b>	110° 8' 43.000 W
<b>Position Uncertainty:</b>	0.0 ft	<b>Slot Radius:</b>	"	<b>Grid Convergence:</b>	0.87 °

<b>Well</b>	U-32-8-16, SHL LAT: 40 04 07.45 LONG: -110 08 08.76					
<b>Well Position</b>	<b>+N/-S</b>	-55.8 ft	<b>Northing:</b>	7,196,672.57 ft	<b>Latitude:</b>	40° 4' 7.450 N
	<b>+E/-W</b>	2,661.7 ft	<b>Easting:</b>	2,022,190.61 ft	<b>Longitude:</b>	110° 8' 8.760 W
<b>Position Uncertainty</b>		0.0 ft	<b>Wellhead Elevation:</b>	5,681.0 ft	<b>Ground Level:</b>	5,669.0 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	2011/03/10	11.38	65.81	52,298

<b>Design</b>	Design #1			
<b>Audit Notes:</b>				
<b>Version:</b>	<b>Phase:</b>	PROTOTYPE	<b>Tie On Depth:</b>	0.0
<b>Vertical Section:</b>	<b>Depth From (TVD) (ft)</b>	<b>+N/-S (ft)</b>	<b>+E/-W (ft)</b>	<b>Direction (°)</b>
	0.0	0.0	0.0	135.66

<b>Plan Sections</b>										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	TFO (°)	Target
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.00	0.00	
600.0	0.00	0.00	600.0	0.0	0.0	0.00	0.00	0.00	0.00	
1,039.6	6.59	135.66	1,038.6	-18.1	17.7	1.50	1.50	0.00	135.66	
6,366.2	6.59	135.66	6,330.0	-455.5	445.2	0.00	0.00	0.00	0.00	U-32-8-16 TGT



<b>Database:</b>	EDM 2003.21 Single User Db	<b>Local Co-ordinate Reference:</b>	Well U-32-8-16
<b>Company:</b>	NEWFIELD EXPLORATION	<b>TVD Reference:</b>	U-32-8-16 @ 5681.0ft (Newfield Rig)
<b>Project:</b>	USGS Myton SW (UT)	<b>MD Reference:</b>	U-32-8-16 @ 5681.0ft (Newfield Rig)
<b>Site:</b>	SECTION 32 T8S, R16E	<b>North Reference:</b>	True
<b>Well:</b>	U-32-8-16	<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	135.66	700.0	-0.9	0.9	1.3	1.50	1.50	0.00
800.0	3.00	135.66	799.9	-3.7	3.7	5.2	1.50	1.50	0.00
900.0	4.50	135.66	899.7	-8.4	8.2	11.8	1.50	1.50	0.00
1,000.0	6.00	135.66	999.3	-15.0	14.6	20.9	1.50	1.50	0.00
1,039.6	6.59	135.66	1,038.6	-18.1	17.7	25.3	1.50	1.50	0.00
1,100.0	6.59	135.66	1,098.6	-23.0	22.5	32.2	0.00	0.00	0.00
1,200.0	6.59	135.66	1,198.0	-31.2	30.5	43.7	0.00	0.00	0.00
1,300.0	6.59	135.66	1,297.3	-39.5	38.6	55.2	0.00	0.00	0.00
1,400.0	6.59	135.66	1,396.6	-47.7	46.6	66.6	0.00	0.00	0.00
1,500.0	6.59	135.66	1,496.0	-55.9	54.6	78.1	0.00	0.00	0.00
1,600.0	6.59	135.66	1,595.3	-64.1	62.6	89.6	0.00	0.00	0.00
1,700.0	6.59	135.66	1,694.7	-72.3	70.7	101.1	0.00	0.00	0.00
1,800.0	6.59	135.66	1,794.0	-80.5	78.7	112.6	0.00	0.00	0.00
1,900.0	6.59	135.66	1,893.3	-88.7	86.7	124.1	0.00	0.00	0.00
2,000.0	6.59	135.66	1,992.7	-96.9	94.7	135.5	0.00	0.00	0.00
2,100.0	6.59	135.66	2,092.0	-105.2	102.8	147.0	0.00	0.00	0.00
2,200.0	6.59	135.66	2,191.4	-113.4	110.8	158.5	0.00	0.00	0.00
2,300.0	6.59	135.66	2,290.7	-121.6	118.8	170.0	0.00	0.00	0.00
2,400.0	6.59	135.66	2,390.0	-129.8	126.8	181.5	0.00	0.00	0.00
2,500.0	6.59	135.66	2,489.4	-138.0	134.9	193.0	0.00	0.00	0.00
2,600.0	6.59	135.66	2,588.7	-146.2	142.9	204.4	0.00	0.00	0.00
2,700.0	6.59	135.66	2,688.0	-154.4	150.9	215.9	0.00	0.00	0.00
2,800.0	6.59	135.66	2,787.4	-162.7	158.9	227.4	0.00	0.00	0.00
2,900.0	6.59	135.66	2,886.7	-170.9	167.0	238.9	0.00	0.00	0.00
3,000.0	6.59	135.66	2,986.1	-179.1	175.0	250.4	0.00	0.00	0.00
3,100.0	6.59	135.66	3,085.4	-187.3	183.0	261.9	0.00	0.00	0.00
3,200.0	6.59	135.66	3,184.7	-195.5	191.0	273.3	0.00	0.00	0.00
3,300.0	6.59	135.66	3,284.1	-203.7	199.1	284.8	0.00	0.00	0.00
3,400.0	6.59	135.66	3,383.4	-211.9	207.1	296.3	0.00	0.00	0.00
3,500.0	6.59	135.66	3,482.8	-220.1	215.1	307.8	0.00	0.00	0.00
3,600.0	6.59	135.66	3,582.1	-228.4	223.1	319.3	0.00	0.00	0.00
3,700.0	6.59	135.66	3,681.4	-236.6	231.2	330.8	0.00	0.00	0.00
3,800.0	6.59	135.66	3,780.8	-244.8	239.2	342.2	0.00	0.00	0.00
3,900.0	6.59	135.66	3,880.1	-253.0	247.2	353.7	0.00	0.00	0.00
4,000.0	6.59	135.66	3,979.4	-261.2	255.3	365.2	0.00	0.00	0.00
4,100.0	6.59	135.66	4,078.8	-269.4	263.3	376.7	0.00	0.00	0.00
4,200.0	6.59	135.66	4,178.1	-277.6	271.3	388.2	0.00	0.00	0.00
4,300.0	6.59	135.66	4,277.5	-285.8	279.3	399.7	0.00	0.00	0.00
4,400.0	6.59	135.66	4,376.8	-294.1	287.4	411.1	0.00	0.00	0.00
4,500.0	6.59	135.66	4,476.1	-302.3	295.4	422.6	0.00	0.00	0.00
4,600.0	6.59	135.66	4,575.5	-310.5	303.4	434.1	0.00	0.00	0.00
4,700.0	6.59	135.66	4,674.8	-318.7	311.4	445.6	0.00	0.00	0.00
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4,900.0	6.59	135.66	4,873.5	-335.1	327.5	468.6	0.00	0.00	0.00
5,000.0	6.59	135.66	4,972.8	-343.3	335.5	480.0	0.00	0.00	0.00
5,100.0	6.59	135.66	5,072.2	-351.5	343.5	491.5	0.00	0.00	0.00
5,200.0	6.59	135.66	5,171.5	-359.8	351.6	503.0	0.00	0.00	0.00



<b>Database:</b>	EDM 2003.21 Single User Db	<b>Local Co-ordinate Reference:</b>	Well U-32-8-16
<b>Company:</b>	NEWFIELD EXPLORATION	<b>TVD Reference:</b>	U-32-8-16 @ 5681.0ft (Newfield Rig)
<b>Project:</b>	USGS Myton SW (UT)	<b>MD Reference:</b>	U-32-8-16 @ 5681.0ft (Newfield Rig)
<b>Site:</b>	SECTION 32 T8S, R16E	<b>North Reference:</b>	True
<b>Well:</b>	U-32-8-16	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	Wellbore #1		
<b>Design:</b>	Design #1		

Planned Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
5,300.0	6.59	135.66	5,270.8	-368.0	359.6	514.5	0.00	0.00	0.00
5,400.0	6.59	135.66	5,370.2	-376.2	367.6	526.0	0.00	0.00	0.00
5,500.0	6.59	135.66	5,469.5	-384.4	375.6	537.4	0.00	0.00	0.00
5,600.0	6.59	135.66	5,568.9	-392.6	383.7	548.9	0.00	0.00	0.00
5,700.0	6.59	135.66	5,668.2	-400.8	391.7	560.4	0.00	0.00	0.00
5,800.0	6.59	135.66	5,767.5	-409.0	399.7	571.9	0.00	0.00	0.00
5,900.0	6.59	135.66	5,866.9	-417.2	407.7	583.4	0.00	0.00	0.00
6,000.0	6.59	135.66	5,966.2	-425.5	415.8	594.9	0.00	0.00	0.00
6,100.0	6.59	135.66	6,065.6	-433.7	423.8	606.3	0.00	0.00	0.00
6,200.0	6.59	135.66	6,164.9	-441.9	431.8	617.8	0.00	0.00	0.00
6,300.0	6.59	135.66	6,264.2	-450.1	439.8	629.3	0.00	0.00	0.00
6,366.2	6.59	135.66	6,330.0	-455.5	445.2	636.9	0.00	0.00	0.00
<b>U-32-8-16 TGT</b>									



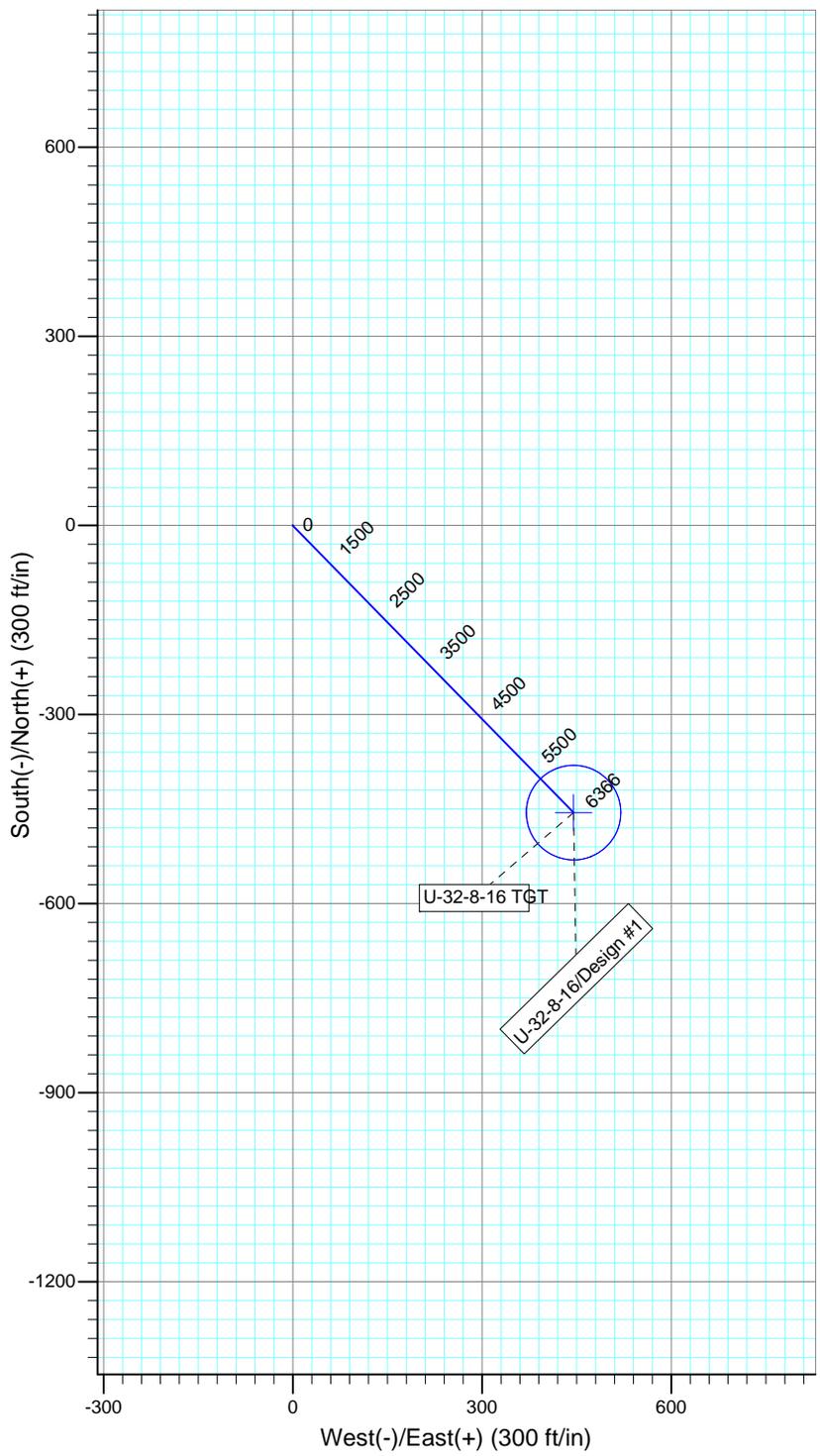
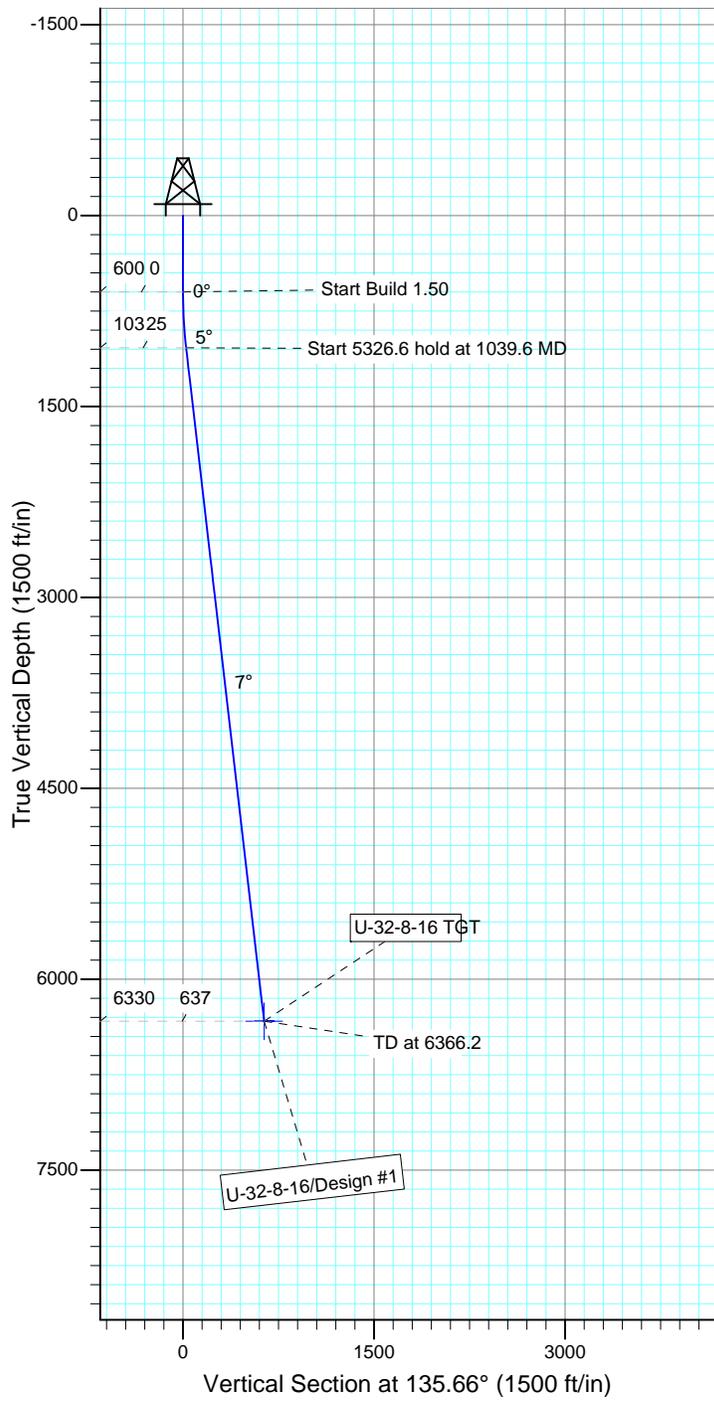
Project: USGS Myton SW (UT)  
 Site: SECTION 32 T8S, R16E  
 Well: U-32-8-16  
 Wellbore: Wellbore #1  
 Design: Design #1



Azimuths to True North  
 Magnetic North: 11.38°

Magnetic Field  
 Strength: 52297.9snT  
 Dip Angle: 65.81°  
 Date: 2011/03/10  
 Model: IGRF2010

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



WELLBORE TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Shape
U-32-8-16 TGT	6330.0	-455.5	445.2	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	1039.6	6.59	135.66	1038.6	-18.1	17.7	1.50	135.66	25.3	
4	6366.2	6.59	135.66	6330.0	-455.5	445.2	0.00	0.00	636.9	U-32-8-16 TGT



NEWFIELD PRODUCTION COMPANY  
GMBU U-32-8-16  
AT SURFACE: SE/SE SECTION 32, T8S, R16E  
DUCHESNE COUNTY, UTAH

ONSHORE ORDER NO. 1

MULTI-POINT SURFACE USE & OPERATIONS PLAN

1. EXISTING ROADS

See attached Topographic Map "A"

To reach Newfield Production Company well location site GMBU U-32-8-16 located in the SE 1/4 SE 1/4 Section 32, T8S, R16E, Duchesne County, Utah:

Proceed southwesterly out of Myton, Utah along Highway 40 - 1.4 miles  $\pm$  to the junction of this highway and UT State Hwy 53; proceed southwesterly - 9.3 miles  $\pm$  to it's junction with an existing road to the east; proceed northeasterly - 0.9 miles  $\pm$  to the access road to the existing 16-32-8-16 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 16-32-8-16 well pad. See attached **Topographic Map "B"**.

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

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

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

3. LOCATION OF EXISTING WELLS

Refer to Exhibit "B".

4. LOCATION OF EXISTING AND/OR PROPOSED FACILITIES

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

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

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

Tank batteries will be built to State specifications.

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

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

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

Johnson Water District  
Water Right : 43-10136

Maurice Harvey Pond  
Water Right: 47-1358

Neil Moon Pond  
Water Right: 43-11787

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

There will be no water well drilled at this site.

6. **SOURCE OF CONSTRUCTION MATERIALS**

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

A mineral material application is not required for this location.

7. **METHODS FOR HANDLING WASTE DISPOSAL**

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

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

A portable toilet will be provided for human waste.

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

8. **ANCILLARY FACILITIES**

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

9. **WELL SITE LAYOUT**

See attached Location Layout Sheet.

**Fencing Requirements**

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

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

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

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

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

- a) Producing Location

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

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

- b) Dry Hole Abandoned Location

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

11. **SURFACE OWNERSHIP** – State of Utah.

11. **OTHER ADDITIONAL INFORMATION:**

Newfield Production Company requests 1,687' 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.

- 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 U-32-8-16, Newfield will not use, produce, store, transport or dispose 10,000# annually of any of the hazardous chemicals contained in the Environmental Protection Agency's consolidated list of chemicals subject to reporting under Title III Superfund Amendments and Reauthorization Act (SARA) of 1986. Newfield also guarantees that during the drilling and completion of the GMBU U-32-8-16, Newfield will use, produce, store, transport or dispose less than the threshold planning quantity (T.P.Q.) of any extremely hazardous substances as defined in 40 CFR 355.

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

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

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

Representative

Name: 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 #U-32-8-16, Section 32, Township 8S, Range 16E: Lease ML-21836 Duchesne County, Utah: and is responsible under the terms and conditions of the lease for the operations conducted upon the leased lands. Bond coverage is provided by, Federal Bond #B001834.

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

3/17/11  
Date

  
Mandie Crozier  
Regulatory Specialist  
Newfield Production Company

## 2-M SYSTEM

Blowout Prevention Equipment Systems

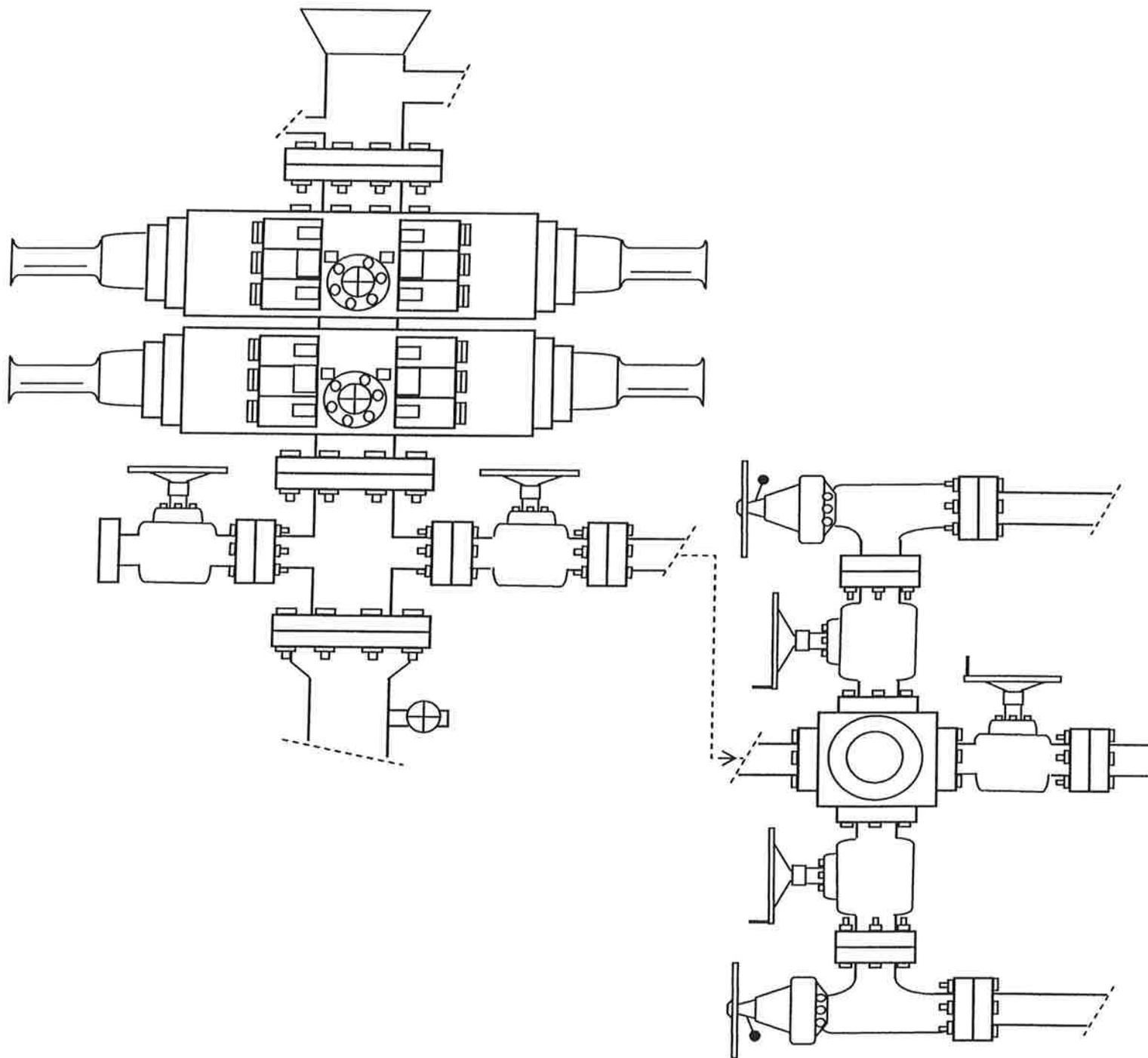


EXHIBIT C

# NEWFIELD EXPLORATION COMPANY

## WELL PAD INTERFERENCE PLAT

V-32-8-16 (Proposed Well)

U-32-8-16 (Proposed Well)

16-32-8-16 (Existing Well)

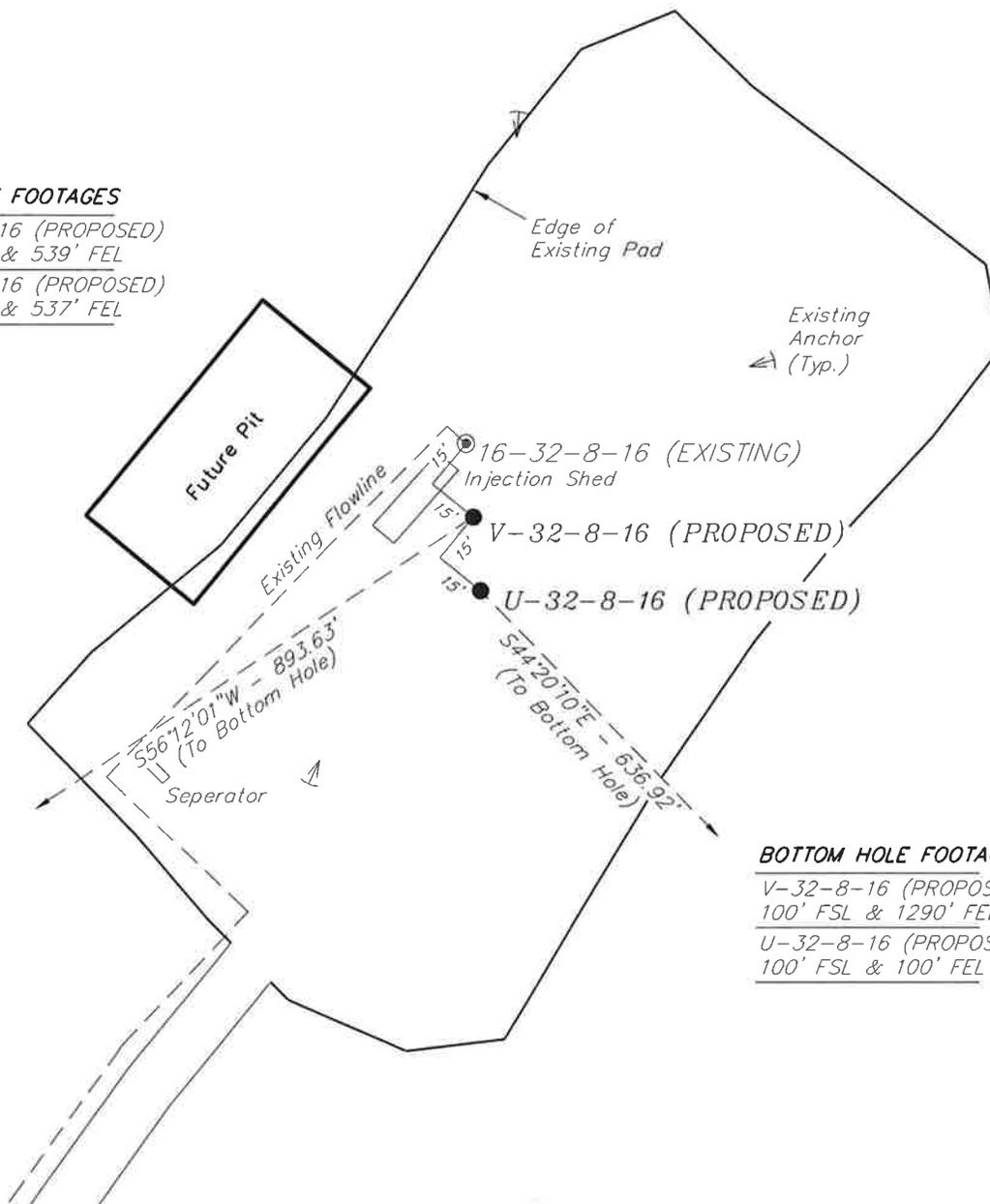
Pad Location: SESE Section 32, T8S, R16E, S.L.B.&M.



### TOP HOLE FOOTAGES

V-32-8-16 (PROPOSED)  
584' FSL & 539' FEL

U-32-8-16 (PROPOSED)  
563' FSL & 537' FEL



Existing Anchor  
(Typ.)

### BOTTOM HOLE FOOTAGES

V-32-8-16 (PROPOSED)  
100' FSL & 1290' FEL

U-32-8-16 (PROPOSED)  
100' FSL & 100' FEL

### RELATIVE COORDINATES From Top Hole to Bottom Hole

WELL	NORTH	EAST
V-32-8-16	-497'	-743'
U-32-8-16	-456'	445'

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

WELL	LATITUDE	LONGITUDE
V-32-8-16	40° 04' 07.66"	110° 08' 08.78"
U-32-8-16	40° 04' 07.45"	110° 08' 08.76"

SURVEYED BY: D.G.      DATE SURVEYED: 03-07-11  
 DRAWN BY: M.W.      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

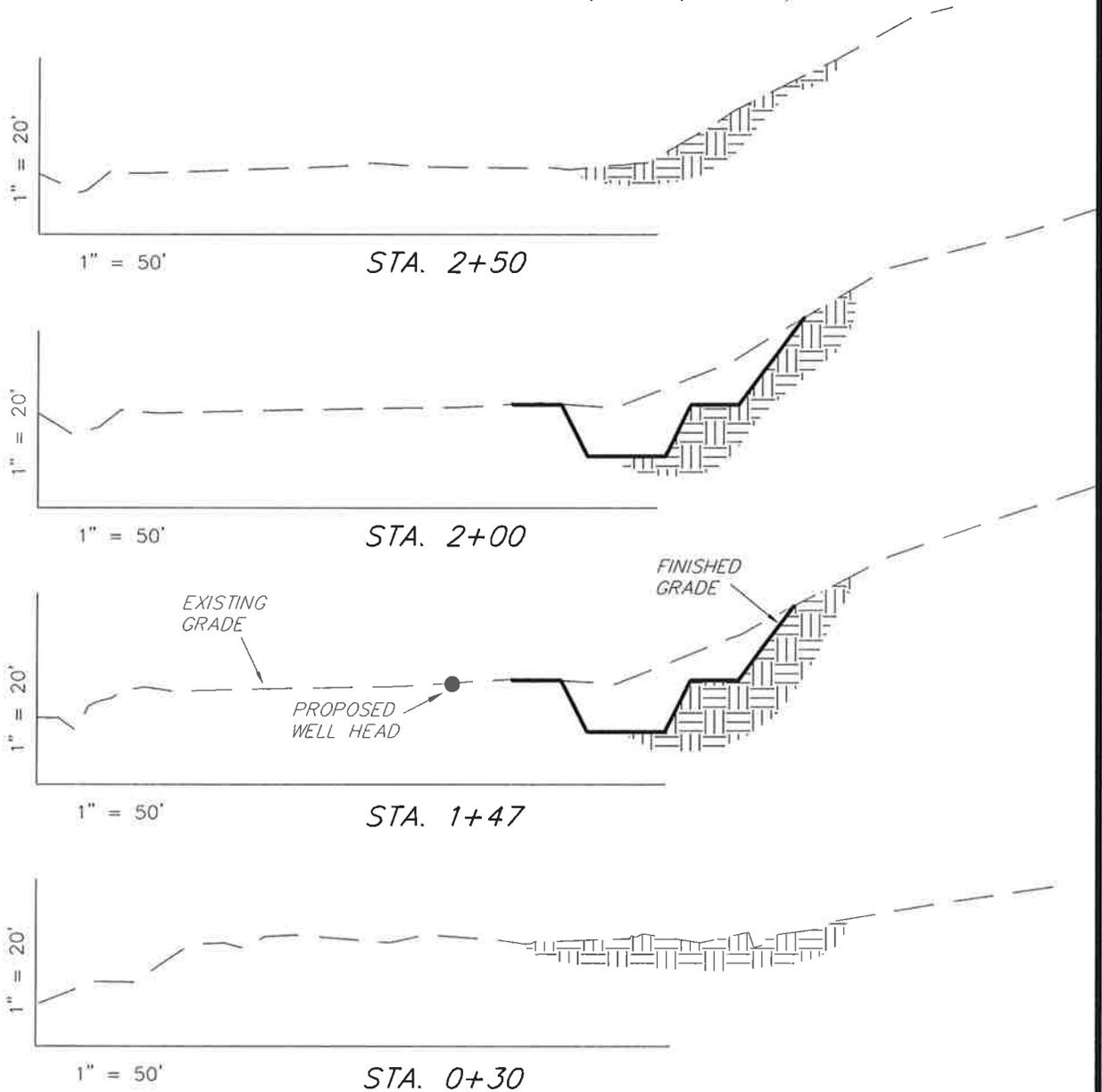
## CROSS SECTIONS

*V-32-8-16 (Proposed Well)*

*U-32-8-16 (Proposed Well)*

*16-32-8-16 (Existing Well)*

*Pad Location: SESE Section 32, T8S, R16E, 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	680	30	Topsoil is not included in Pad Cut	650
PIT	690	0		690
TOTALS	1,370	30	220	1,340

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

SURVEYED BY: D.G.	DATE SURVEYED: 03-07-11	
DRAWN BY: M.W.	DATE DRAWN: 03-08-11	
SCALE: 1" = 50'	REVISED:	

**Tri State**  
Land Surveying, Inc.

180 NORTH VERNAL AVE. VERNAL, UTAH 84078

(435) 781-2501

# NEWFIELD EXPLORATION COMPANY

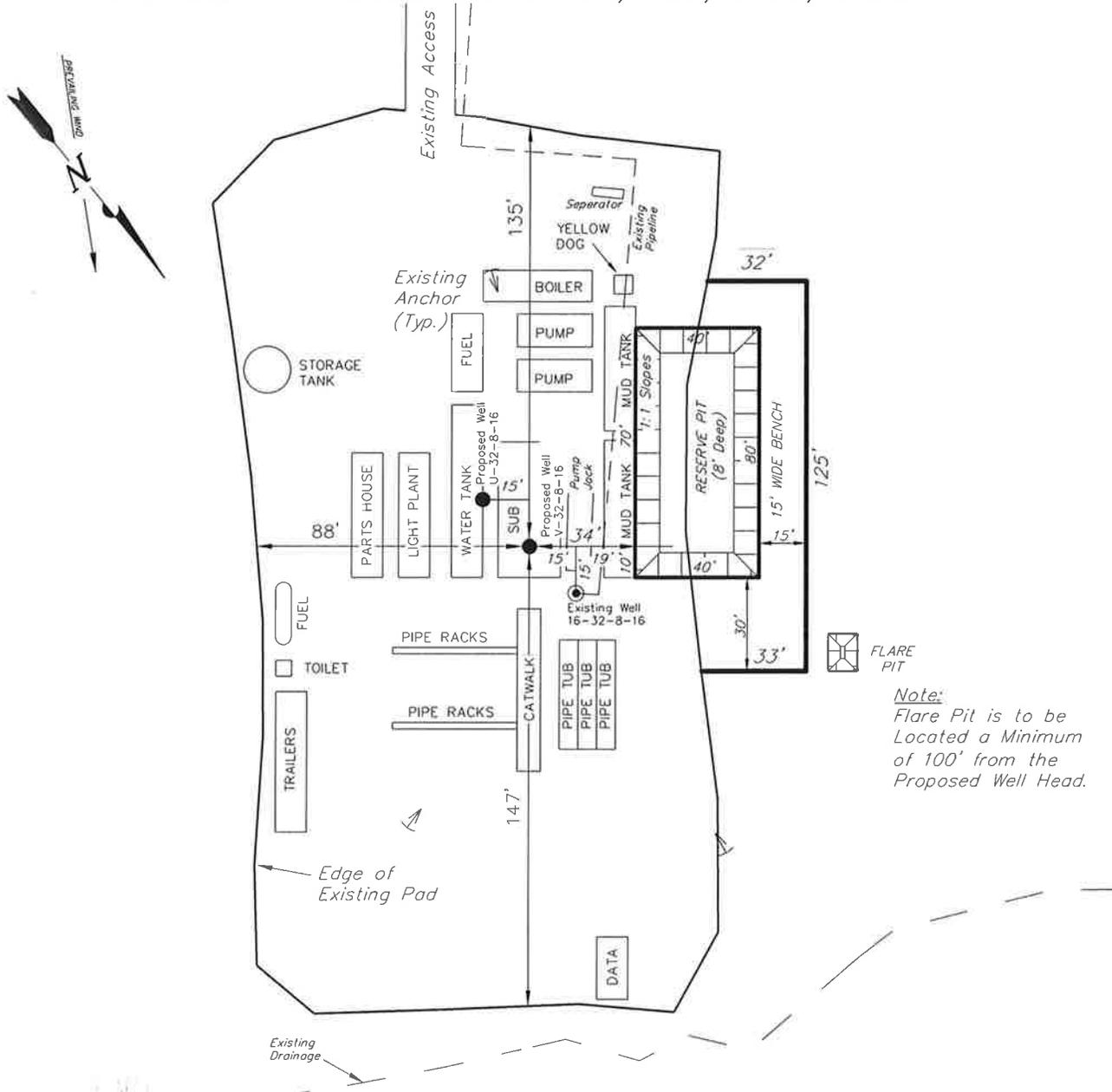
## TYPICAL RIG LAYOUT

V-32-8-16 (Proposed Well)

U-32-8-16 (Proposed Well)

16-32-8-16 (Existing Well)

Pad Location: SESE Section 32, T8S, R16E, S.L.B.&M.



**FLARE PIT**

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

SURVEYED BY: D.G.	DATE SURVEYED: 03-07-11
DRAWN BY: M.W.	DATE DRAWN: 03-08-11
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

**RECEIVED: Jun. 20, 2011**

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

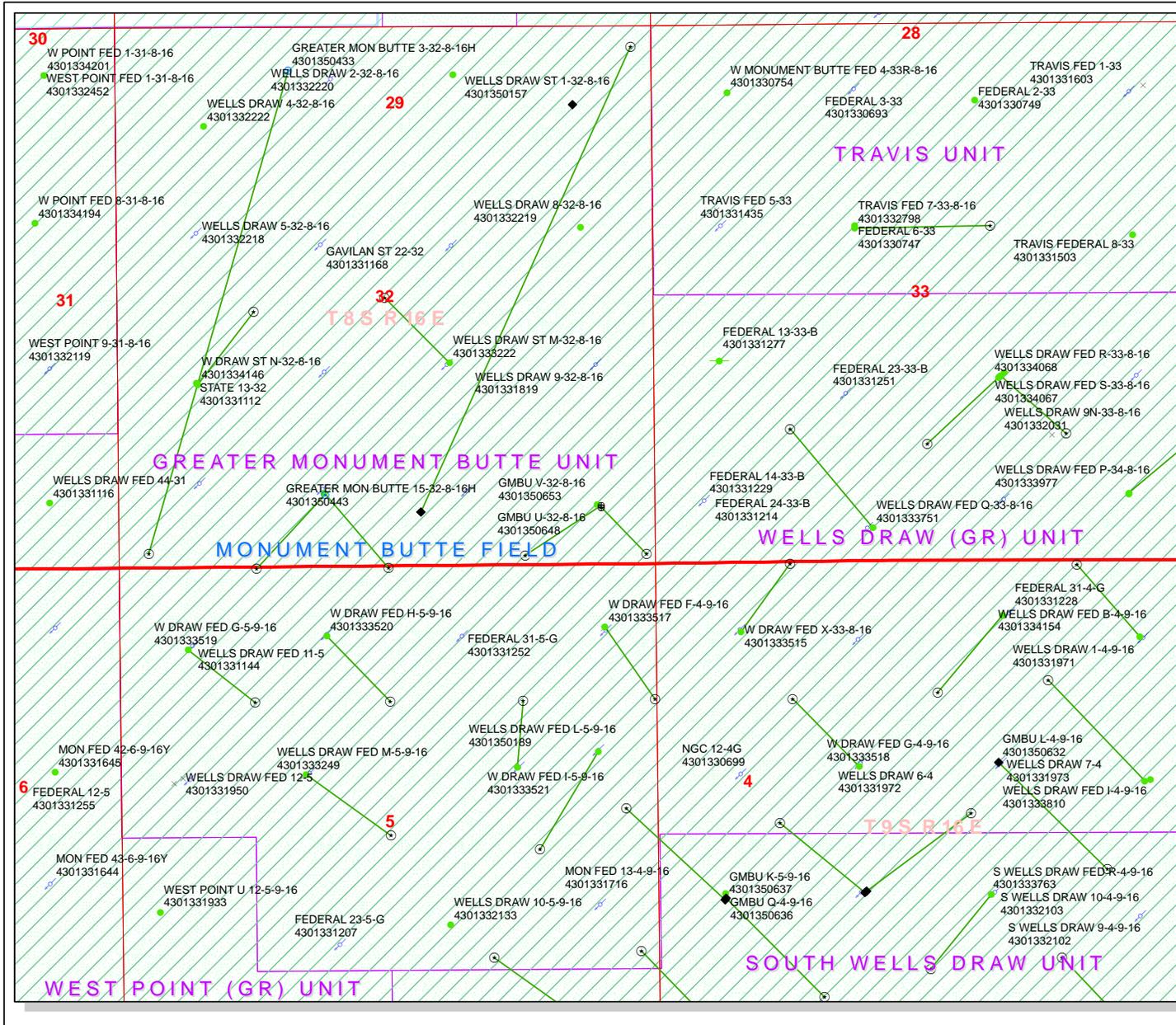
Digitally signed by Michael L. Coulthard  
DN: cn=Michael L. Coulthard, o=Bureau of Land Management, ou=Branch of Minerals, email=Michael\_Coulthard@blm.gov, c=US  
Date: 2011.03.22 12:09:21 -0600

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

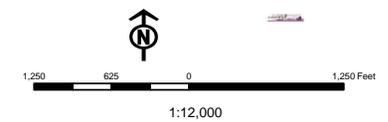
MCoulthard:mc:3-22-11

**API Number: 4301350648**  
**Well Name: GMBU U-32-8-16**  
 Township T0.8 . Range R1.6 . Section 32  
**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
Sectors	
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 U-32-8-16**  
Greater Monument Butte (Green River) Unit

Surface Hole: T8S-R16E Section 32: SESE (ML-21836)  
563' FSL 537' FEL

At Target: T8S-R16E Section 32: SESE (ML-21836)  
100' FSL 100' FEL

Duchesne County, Utah

Dear Ms. Mason:

Pursuant to the filing by Newfield Production Company (NPC) of an Application for Permit to Drill the above referenced well dated 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 light blue horizontal line.

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-21836	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	
8 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 U-32-8-16	
3 ADDRESS OF OPERATOR: Route #3 Box 3630 Myton UT 84052		PHONE NUMBER (435) 646-3721	10 FIELD AND POOL OR WLD/CAT Monument Butte
4 LOCATION OF WELL (FOOTAGES) AT SURFACE: SE/SE 563' FSL 537' FEL Sec. 32 T8S R16E AT PROPOSED PRODUCING ZONE SE/SE 100' FSL 100' FEL Sec. 32 T8S R16E		11 QTR/OTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: SESE 32 8S 16E	
14 DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE Approximately 1.6 miles southwest of Myton, Utah		12 COUNTY Duchesne	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 640.00 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. 945'	19. PROPOSED DEPTH 6,388	20 BOND DESCRIPTION #B001834	
21 ELEVATIONS (SHOW WHETHER OF, RT, GR, ETC ) 5669' 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	6,388	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 PLAN 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)

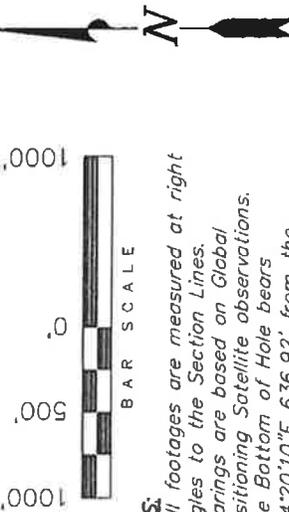
API NUMBER ASSIGNED: \_\_\_\_\_ APPROVAL \_\_\_\_\_

# T8S, R16E, S.L.B.&M.

## NEWFIELD EXPLORATION COMPANY

WELL LOCATION, U-32-8-16, LOCATED AS SHOWN IN THE SE 1/4 SE 1/4 OF SECTION 32, T8S, R16E, S.L.B.&M. DUCHESNE COUNTY, UTAH.

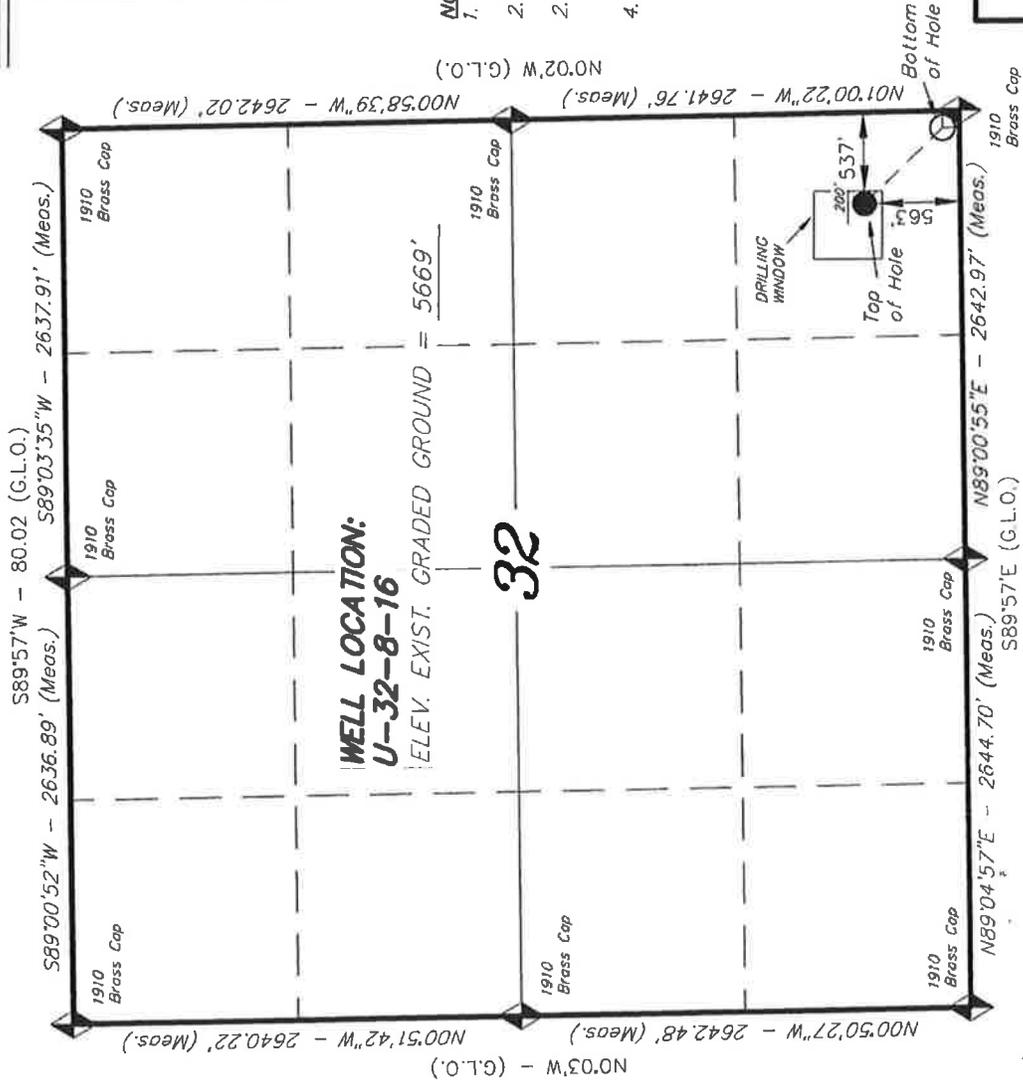
TARGET BOTTOM HOLE, U-32-8-16, LOCATED AS SHOWN IN THE SE 1/4 SE 1/4 OF SECTION 32, T8S, R16E, S.L.B.&M. DUCHESNE COUNTY, UTAH.



- NOTES:**
1. Well footages are measured at right angles to the Section Lines.
  2. Bearings are based on Global Positioning Satellite observations.
  3. The Bottom of Hole bears S44°20'10"E 636.92' from the Well head.
  4. The Bottom of Hole footages are 100' FSL & 100' FEL.

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

STACY W. STEWART  
REGISTERED LAND SURVEYOR  
REGISTRATION NO. 189377  
STATE OF UTAH 03-07-11



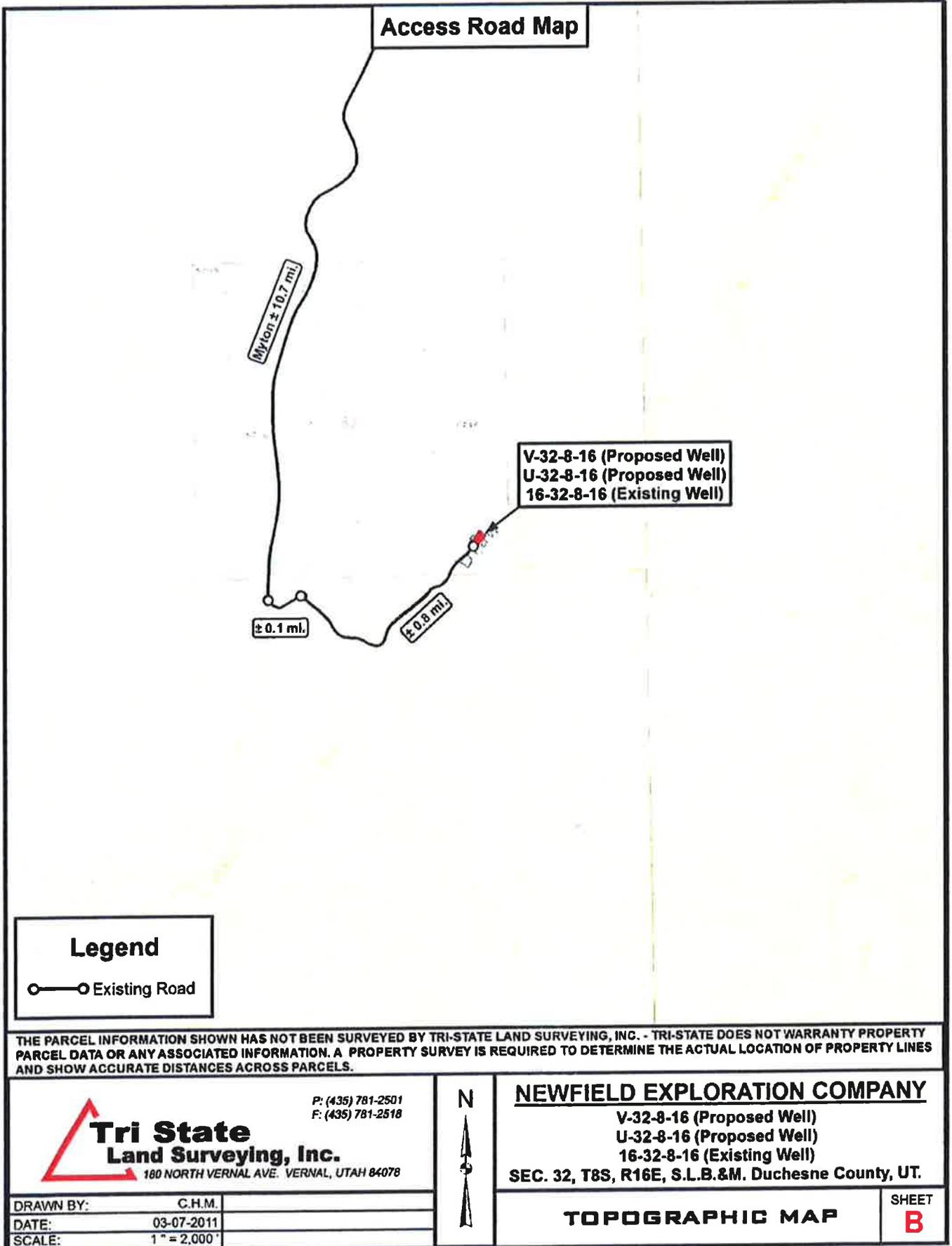
**TRI STATE LAND SURVEYING & CONSULTING**  
180 NORTH VERNAL AVE. - VERNAL, UTAH 84078  
(435) 781-2501

DATE SURVEYED:	03-07-11	SURVEYED BY:	D.G.
DATE DRAWN:	03-08-11	DRAWN BY:	M.W.
REVISED:		SCALE:	1" = 1000'

U-32-8-16  
(Surface Location) NAD 83  
LATITUDE = 40° 04' 07.45"  
LONGITUDE = 110° 08' 08.76"

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'



**Access Road Map**

Myton ± 10.7 mi.

V-32-8-16 (Proposed Well)  
 U-32-8-16 (Proposed Well)  
 16-32-8-16 (Existing Well)

± 0.1 mi.

± 0.8 mi.

**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**

V-32-8-16 (Proposed Well)  
 U-32-8-16 (Proposed Well)  
 16-32-8-16 (Existing Well)  
 SEC. 32, T8S, R16E, S.L.B.&M. Duchesne 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:** 5/12/2011 1:21 PM  
**Subject:** Two more Newfield approvals

The following APDs have been approved by SITLA including arch and paleo clearance.

4301350648 GMBU U-32-8-16  
4301350653 GMBU V-32-8-16

Thanks.  
-Jim

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

BOPE REVIEW NEWFIELD PRODUCTION COMPANY GMBU U-32-8-16 43013506480000

Well Name	NEWFIELD PRODUCTION COMPANY GMBU U-32-8-16 4301			
String	Surf	Prod		
Casing Size(")	8.625	5.500		
Setting Depth (TVD)	800	6330		
Previous Shoe Setting Depth (TVD)	0	800		
Max Mud Weight (ppg)	8.3	8.4		
BOPE Proposed (psi)	500	2000		
Casing Internal Yield (psi)	2950	4810		
Operators Max Anticipated Pressure (psi)	2741	8.3		

Calculations	Surf String	8.625	"
Max BHP (psi)	.052*Setting Depth*MW=	345	
			BOPE Adequate For Drilling And Setting Casing at Depth?
MASP (Gas) (psi)	Max BHP-(0.12*Setting Depth)=	249	YES air drill
MASP (Gas/Mud) (psi)	Max BHP-(0.22*Setting Depth)=	169	YES OK
			*Can Full Expected Pressure Be Held At Previous Shoe?
Pressure At Previous Shoe	Max BHP-.22*(Setting Depth - Previous Shoe Depth)=	169	NO
Required Casing/BOPE Test Pressure=		800	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=	2765	
			BOPE Adequate For Drilling And Setting Casing at Depth?
MASP (Gas) (psi)	Max BHP-(0.12*Setting Depth)=	2005	NO
MASP (Gas/Mud) (psi)	Max BHP-(0.22*Setting Depth)=	1372	YES OK
			*Can Full Expected Pressure Be Held At Previous Shoe?
Pressure At Previous Shoe	Max BHP-.22*(Setting Depth - Previous Shoe Depth)=	1548	NO Reasonable
Required Casing/BOPE Test Pressure=		2000	psi
*Max Pressure Allowed @ Previous Casing Shoe=		800	psi *Assumes 1psi/ft frac gradient

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

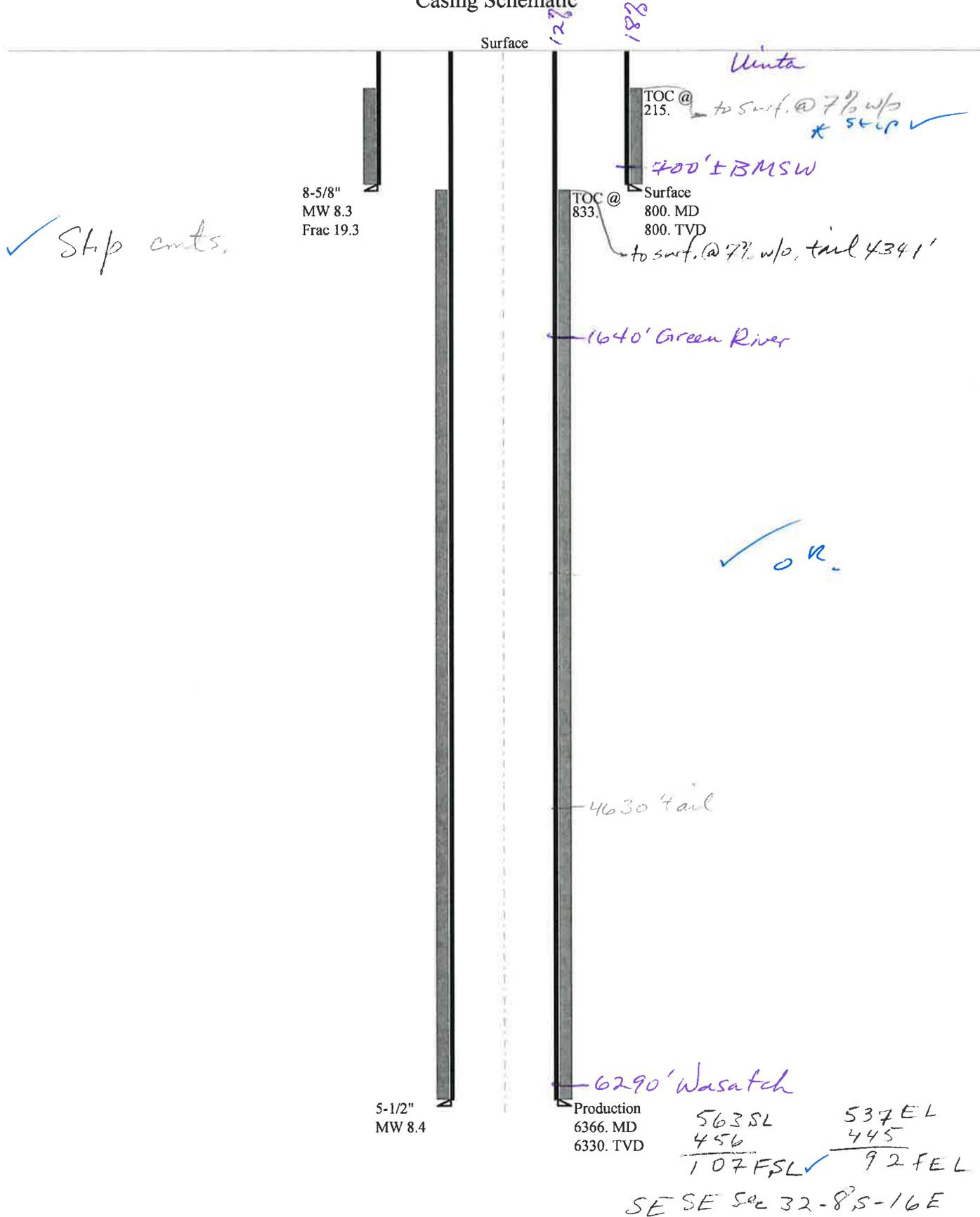
Calculations	String		"
Max BHP (psi)	.052*Setting Depth*MW=		
			BOPE Adequate For Drilling And Setting Casing at Depth?
MASP (Gas) (psi)	Max BHP-(0.12*Setting Depth)=		NO
MASP (Gas/Mud) (psi)	Max BHP-(0.22*Setting Depth)=		NO
			*Can Full Expected Pressure Be Held At Previous Shoe?
Pressure At Previous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

API Well Number: 43013506480000

*Max Pressure Allowed @ Previous Casing Shoe=	<input type="text"/>	psi *Assumes 1psi/ft frac gradient
---	----------------------	------------------------------------

# 43013506480000 GMBU U-32-8-16

## Casing Schematic



Well name:	<b>43013506480000 GMBU U-32-8-16</b>		
Operator:	<b>NEWFIELD PRODUCTION COMPANY</b>		
String type:	Surface	Project ID:	43-013-50648
Location:	DUCHESNE COUNTY		

**Design parameters:**

**Collapse**

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

**Burst**

Max anticipated surface pressure: 704 psi  
 Internal gradient: 0.120 psi/ft  
 Calculated BHP: 800 psi  
  
 No backup mud specified.

**Minimum design factors:**

**Collapse:**

Design factor: 1.125

**Burst:**

Design factor: 1.00

**Tension:**

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

Tension is based on air weight.  
 Neutral point: 700 ft

**Environment:**

H2S considered? No  
 Surface temperature: 74 °F  
 Bottom hole temperature: 85 °F  
 Temperature gradient: 1.40 °F/100ft  
 Minimum section length: 100 ft

Cement top: 215 ft

**Directional well information:**

Kick-off point: 600 ft  
 Departure at shoe: 5 ft  
 Maximum dogleg: 1.5 °/100ft  
 Inclination at shoe: 3 °

**Re subsequent strings:**

Next setting depth: 6,330 ft  
 Next mud weight: 8.400 ppg  
 Next setting BHP: 2,762 psi  
 Fracture mud wt: 19,250 ppg  
 Fracture depth: 800 ft  
 Injection pressure: 800 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	800	8.625	24.00	J-55	ST&C	800	800	7.972	4118
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	346	1350	3.901	800	2950	3.69	19.2	244	12.71 J

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

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

Date: June 8, 2011  
 Salt Lake City, Utah

**Remarks:**

Collapse is based on a vertical depth of 800 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.

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.*

Well name:	<b>43013506480000 GMBU U-32-8-16</b>		
Operator:	<b>NEWFIELD PRODUCTION COMPANY</b>		
String type:	Production	Project ID:	43-013-50648
Location:	DUCHESNE COUNTY		

**Design parameters:**

**Collapse**

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

**Burst**

Max anticipated surface pressure: 1,370 psi  
 Internal gradient: 0.220 psi/ft  
 Calculated BHP: 2,762 psi

No backup mud specified.

**Minimum design factors:**

**Collapse:**

Design factor: 1.125

**Burst:**

Design factor: 1.00

**Tension:**

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

Tension is based on air weight.  
 Neutral point: 5,556 ft

**Environment:**

H2S considered? No  
 Surface temperature: 74 °F  
 Bottom hole temperature: 163 °F  
 Temperature gradient: 1.40 °F/100ft  
 Minimum section length: 100 ft  
 Cement top: 833 ft

**Directional well information:**

Kick-off point: 600 ft  
 Departure at shoe: 637 ft  
 Maximum dogleg: 1.5 °/100ft  
 Inclination at shoe: 6.59 °

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	6366	5.5	15.50	J-55	LT&C	6330	6366	4.825	22478
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	2762	4040	1.463	2762	4810	1.74	98.1	217	2.21 J

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

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

Date: June 8, 2011  
 Salt Lake City, Utah

**Remarks:**

Collapse is based on a vertical depth of 6330 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 U-32-8-16  
**API Number** 43013506480000      **APD No** 3567      **Field/Unit** MONUMENT BUTTE  
**Location: 1/4,1/4** SESE      **Sec** 32      **Tw** 8.0S      **Rng** 16.0E      563 FSL 537 FEL  
**GPS Coord (UTM)** 573763 4435541      **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 16-32-8-16 injection well. They are the GMBU U-32-8-16 and GMBU V-326-8-16. The area in designated for 20 acre spacing. No construction changes are planned for the existing pad. The existing constructed diversion on the upper edge of the old pit needs to be re-established and deepened. One break currently exists. 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.

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 minerals.

### 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** Y

The existing constructed diversion on the upper edge of the old pit needs to be re-established and deepened. One break currently exists.

**Sedimentation Issues** Y

The existing constructed diversion on the upper edge of the old pit needs to be re-established and deepened. One break currently exists.

**Site Stability Issues** N

**Drainage Diversion Required?** Y

The existing constructed diversion on the upper edge of the old pit needs to be re-established and deepened. One break currently exists.

**Berm Required?** Y

**Erosion Sedimentation Control Required?** Y

The existing constructed diversion on the upper edge of the old pit needs to be re-established and deepened. One break currently exists.

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

**Reserve Pit**

<b>Site-Specific Factors</b>	<b>Site Ranking</b>	
<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 west 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

6/20/2011

## 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>
3567	43013506480000	LOCKED	OW	S	No
<b>Operator</b>	NEWFIELD PRODUCTION COMPANY		<b>Surface Owner-APD</b>		
<b>Well Name</b>	GMBU U-32-8-16		<b>Unit</b>	GMBU (GRRV)	
<b>Field</b>	MONUMENT BUTTE		<b>Type of Work</b>	DRILL	
<b>Location</b>	SESE 32 8S 16E S 563 FSL 537 FEL		GPS Coord (UTM)	573758E	4435536N

### Geologic Statement of Basis

Newfield proposes to set 300' of surface casing at this location. The depth to the base of the moderately saline water at this location is estimated to be at a depth of 700'. A search of Division of Water Rights records shows no water wells within a 10,000 foot radius of the center of Section 32. 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 high volume source of useable ground water. The surface casing should be extended to cover the base of the moderately saline ground water.

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 16-32-8-16 injection well. They are the GMBU U-32-8-16 and GMBU V-326-8-16. The area in designated for 20 acre spacing. No construction changes are planned for the existing pad. The existing constructed diversion on the upper edge of the old pit needs to be re-established and deepened. One break currently exists. 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.

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 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	Drainages adjacent to the proposed pad shall be diverted around the location.
Surface	The reserve pit shall be fenced upon completion of drilling operations.

## WORKSHEET APPLICATION FOR PERMIT TO DRILL

**APD RECEIVED:** 3/17/2011**API NO. ASSIGNED:** 43013506480000**WELL NAME:** GMBU U-32-8-16**OPERATOR:** NEWFIELD PRODUCTION COMPANY (N2695)**PHONE NUMBER:** 435 646-4825**CONTACT:** Mandie Crozier**PROPOSED LOCATION:** SESE 32 080S 160E**Permit Tech Review:** **SURFACE:** 0563 FSL 0537 FEL**Engineering Review:** **BOTTOM:** 0100 FSL 0100 FEL**Geology Review:** **COUNTY:** DUCHESNE**LATITUDE:** 40.06875**LONGITUDE:** -110.13508**UTM SURF EASTINGS:** 573758.00**NORTHINGS:** 4435536.00**FIELD NAME:** MONUMENT BUTTE**LEASE TYPE:** 3 - State**LEASE NUMBER:** ML-21836**PROPOSED PRODUCING FORMATION(S):** GREEN RIVER**SURFACE OWNER:** 3 - State**COALBED METHANE:** NO**RECEIVED AND/OR REVIEWED:**

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

**Commingle Approved****LOCATION AND SITING:**

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

**Comments:** Presite Completed

**Stipulations:** 5 - Statement of Basis - bhill  
 15 - Directional - dmason  
 25 - Surface Casing - ddoucet  
 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 U-32-8-16  
**API Well Number:** 43013506480000  
**Lease Number:** ML-21836  
**Surface Owner:** STATE  
**Approval Date:** 6/20/2011

**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/# 29 Submitted By  
David Miller Phone Number 435 401 8893  
Well Name/Number GMBU U-32-8-16  
Qtr/Qtr SE/SE Section 32 Township 8S Range 16E  
Lease Serial Number ML-21836  
API Number 43-013-50648

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

Date/Time 7/21/11      3:00 AM  PM

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

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

Date/Time 7/21/11      7:00 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

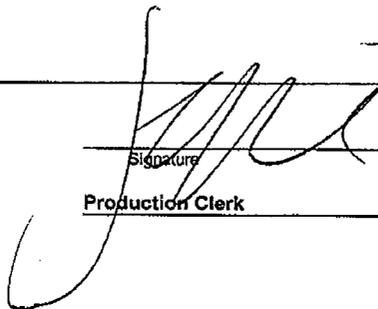
OPERATOR: NEWFIELD PRODUCTION COMPANY  
 ADDRESS: RT. 3 BOX 3630  
MYTON, UT 84052

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		
A	99999	18145	4301350308	UTE TRIBAL 9-22-4-2	NESE	22	4S	2W	DUCHESNE	7/20/2011	7/28/11
WELL 1 COMMENTS: GRRV											
A	99999	18146	4301350411	UTE TRIBAL 15-7-4-1W	SWSE	7	4S	1W	DUCHESNE	7/14/2011	7/28/11
GRRV											
A	99999	18147	4301350447	BECKSTEAD 13-17-4-2W	SWSW	17	4S	2W	DUCHESNE	7/19/2011	7/28/11
GRRV											
B	99999	17400	4301350511	GREATER MON BUTTE Q-17-9-17	SWSW	17	9S	17E	DUCHESNE	7/12/2011	7/28/11
GRRV BHL = NESW											
B	99999	17400	4301350544	GREATER MON BUTTE C-14-9-16	SWSE	11	9S	16E	DUCHESNE	7/13/2011	7/28/11
GRRV BHL = Sec 14 NENW											
B	99999	17400	4301350648	GMBU U-32-8-16	SESE	32	8S	16E	DUCHESNE	7/21/2011	7/28/11
GRRV BHL = SESE											

ACTION CODES (See instructions on back of form)  
 A - 1 new entity for new well (single well only)  
 B - 1 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 - other (explain in comments section)

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 JUL 27 2011

  
 Signature  
 Jentri Park  
 Production Clerk  
 07/27/11

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

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

5. LEASE DESIGNATION AND SERIAL NUMBER: UTAH STATE ML-21836
6. IF INDIAN, ALLOTTEE OR TRIBE NAME:
7. UNIT or CA AGREEMENT NAME: GMBU
8. WELL NAME and NUMBER: GMBU U-32-8-16
9. API NUMBER: 4301350648
10. FIELD AND POOL, OR WILDCAT: GREATER MB UNIT

**SUNDRY NOTICES AND REPORTS ON WELLS**

Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.

1. TYPE OF WELL: OIL WELL  GAS WELL  OTHER

2. NAME OF OPERATOR:  
NEWFIELD PRODUCTION COMPANY

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

4. LOCATION OF WELL:  
FOOTAGES AT SURFACE: 0563 FSL 0539 FEL COUNTY: DUCHESNE  
OTR/OTR. SECTION, TOWNSHIP, RANGE, MERIDIAN: , 32, T8S, R16E STATE: UT

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

TYPE OF SUBMISSION	TYPE OF ACTION		
<input type="checkbox"/> NOTICE OF INTENT (Submit in Duplicate) Approximate date work will _____	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> REPERFORATE CURRENT FORMATION
	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> SIDETRACK TO REPAIR WELL
	<input type="checkbox"/> CASING REPAIR	<input type="checkbox"/> NEW CONSTRUCTION	<input type="checkbox"/> TEMPORARITLY ABANDON
	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> TUBING REPAIR
	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> VENT OR FLAIR
<input checked="" type="checkbox"/> SUBSEQUENT REPORT (Submit Original Form Only) Date of Work Completion: 08/02/2011	<input type="checkbox"/> CHANGE WELL NAME	<input type="checkbox"/> PLUG BACK	<input type="checkbox"/> WATER DISPOSAL
	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> PRODUCTION (START/STOP)	<input type="checkbox"/> WATER SHUT-OFF
	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input checked="" type="checkbox"/> OTHER: - Spud Notice
	<input type="checkbox"/> CONVERT WELL TYPE	<input type="checkbox"/> RECOMPLETE - DIFFERENT FORMATION	

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

On 7/27/11 MIRU Ross #31. Spud well @12:00 PM. Drill 850' of 12 1/4" hole with air mist. TIH W/ 19 Jt's 8 5/8" J-55 24# csgn. Set @ 843.58. On 8/2/11 cement with 465 sks of class "G" w/ 2% CaCL2 + 0.25#/sk Cello- Flake Mixed @ 15.8ppg w/ 1.17ft3/sk yield. Returned 20 barrels cement to pit. WOC.

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**AUG 09 2011**  
DIV. OF OIL, GAS & MINING

NAME (PLEASE PRINT) Branden Arnold TITLE \_\_\_\_\_  
SIGNATURE *Brand Arnold* DATE 08/02/2011







## Daily Activity Report

Format For Sundry

**GMBU U-32-8-16**

**7/1/2011 To 11/30/2011**

**8/29/2011 Day: 1**

**Completion**

Rigless on 8/29/2011 - Run CBL & perforate stg #1 - NU 6" 5K Cameron BOP. RU H/O truck & pressure test casing, blind rams, frac head, csg & casing valves to 4500 psi. RU Perforators LLC WLT w/ mast & run CBL under pressure. WLTD @ 6304' & cement top @ 10'. Perforate stage #1, CP3 sds @ (5949'-51') w/ 3 1/8" Port plug guns ( 11 gram .36" EH 16.82" pen w/120° phasing) w/ 3 spf for total of 6 shots. CP2 sds @ (5854'-55') w/ 3 1/8" Port plug guns ( 11 gram .36" EH 16.82" pen w/120° phasing) w/ 3 spf for total of 3 shots. CP2 sds @ (5848'-49') w/ 3 1/8" Port plug guns ( 11 gram .36" EH 16.82" pen w/120° phasing) w/ 3 spf for total of 3 shots. CP1 sds @ (5794'-96') w/ 3 1/8" Port plug guns ( 11 gram .36" EH 16.82" pen w/120° phasing) w/ 3 spf for total of 6 shots. CP.5 sds @ (5779'-80') w/ 3 1/8" Port plug guns ( 11 gram .36" EH 16.82" pen w/120° phasing) w/ 3 spf for total of 3 shots. CP.5 sds @ (5773'-74') w/ 3 1/8" Port plug guns ( 11 gram .36" EH 16.82" pen w/120° phasing) w/ 3 spf for total of 3 shots. RD H/O truck & The Perforators WLT & mast. Wait on frac crew EWTR150 BBLs

**Daily Cost:** \$0

**Cumulative Cost:** \$16,374

**9/1/2011 Day: 2**

**Completion**

Rigless on 9/1/2011 - Frac & flow back well - MIRU The Perforators WLT & crane. RU Baker Hughes frac equipment. Break & frac stg #1. Perforate & frac stgs #2-5. RD Baker Hughes frac equipment. EWTR 2862 BBLs. RU flow back equipment. Open well to pit for immediate flow back @ approx 3 BPM. Flow back well for 6 hrs to recover 900 BBLs. Turned to oil. EWTR 1962 BBLs.

**Daily Cost:** \$0

**Cumulative Cost:** \$148,836

**9/2/2011 Day: 3**

**Completion**

Rigless on 9/2/2011 - Set kill plug. - MIRU The Perforators WLT & crane. RIH w/ wireline. Set kill plug @ 4330'. POOH w/ wireline. RD WLT & crane. SDFN

**Daily Cost:** \$0

**Cumulative Cost:** \$153,994

**9/9/2011 Day: 4**

**Completion**

WWS #1 on 9/9/2011 - MIRUSU WWS #3. PU tbg. Drill out kill plug & first CBP. - MIRUSU WWS #3. ND Cameron BOP. NU Schaffer BOP. RU work floor. Wait on tbg. Unload tbg. Prep & tally tbg. MU Weatherford 4 3/4" chomp bit, bit sub, & PSN. TIH picking up & drifting tbg. Circulate out of well bore @ 2100'. Continue picking up tbg. Tag kill plug @ 4490'. RU drill equipment. Drill out kiull plug. Continue picking up tbg to tag next CBP @ 4490'. Drill out plug. Circulate well clean. SDFN EWTR 1962 BBLs.

**Daily Cost:** \$0

**Cumulative Cost:** \$161,749

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**9/12/2011 Day: 5****Completion**

WWS #1 on 9/12/2011 - Drilling out plugs. - Check pressure on well (450 casing and tubing). Pump 30 bbls down tubing. Continue to PU and TIH. Tag fill @ 4913' clean out 59' of fill to plug @ 4972. Drill out plug 21 min. Continue to PU and TIH tag fill @ 5127 clean out 85' of fill to plug @ 5212. Drill out plug 19 min. Circulate well for 90 min until well is workable. Continue to PU and TIH tag plug @ 5458. Drill out plug 14 min. Continue PU and TIH tag fill @ 6163', clean out 169' of fill to PB @ 6332. Circulate well clean. Rack out drill equipment. Lay down 3 JTs EOT @ 6254. Rig up swab equipment, make 2 swab runs. Well started to flow. Flow back 100 bbls. Rig up well to flow over weekend. Turn well over to pumper @ 17:00 with #28 choke.

**Daily Cost:** \$0**Cumulative Cost:** \$168,424

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**9/13/2011 Day: 6****Completion**

WWS #1 on 9/13/2011 - Well was still flowing from weekend. Kill well and begin to TIH with production tubing. - Check pressure on well (220 tubing & 550 casing) with well flowing on #28 choke. Wait on Hot Oiler to heat brine. Pump 30 Bbls down tubing. PU & TIH to PB @ 6332 no new fill. Circulate well with 200 Bbls brine. Lay down extra tubing. Start swabbing back oil. Brine not hot enough wait on more brine and Hot Oiler. Heat brine to 120. Circulate well with 180 Bbls brine. Start TOOH with tubing @ 3:30. Lay down chomp bit. PU & TIH with tubing as follows NC, 2 Jts, PSN, 2 Jts, TAC, and tubing. Clean out bottom 3' of mud out of bottom of each stand. Total 63 stands.

**Daily Cost:** \$0**Cumulative Cost:** \$176,647

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**9/14/2011 Day: 7****Completion**

WWS #1 on 9/14/2011 - TIH with production tubing, rods, and PWOP. - Check pressure on well (150 tubing & 250 casing) pump 30 Bbls down tubing continue to TIH with tubing as follows NC, 2 Jts, PSN, 2 Jts, TAC, 188 Jts cleaning out bottom 2' of each stand. Circulate well with 200 Bbls brine. Nipple down BOPS set TAC with 18000# tension. Land tubing with tubing Hanger. Nipple down B-1 adaptor flang with TAC @ 5878.83, PSN @ 5944.29 EOT @6007.04. RU Swab run mandril to 5944. Tubing clean. Rig down swab put prime central hydraulic 25-175 RHAC 20-4-21-24 Pump with 225 max stroke. PU & TIH with rods as follows 5 1 1/2" weight bars with stabilizers, 137 3/4 guided rods, 93 7/8 guided rods, 1 1/2 x 30 polish rod. Sent pump rig up pumping unit stroke pump with unit to 800 psi. Good pump action Rig down move out. Clean flat tank pwop @ 4:30 with 144" stroke & 5 spm **Finalized**

**Daily Cost:** \$0**Cumulative Cost:** \$269,309

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

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## Daily Activity Report

Format For Sundry

**GMBU U-32-8-16**

**7/1/2011 To 11/30/2011**

**8/29/2011 Day: 1**

**Completion**

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**Daily Cost:** \$0

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**9/2/2011 Day: 3**

**Completion**

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**Completion**

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

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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**

5. Lease Serial No.  
ML-21836

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

6. If Indian, Allottee or Tribe Name

2. Name of Operator  
NEWFIELD EXPLORATION COMPANY

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

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

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

8. Lease Name and Well No.  
GMBU U-32-8-16

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

At surface 563' FSL & 537' FEL (SE/SE) SEC. 32, T8S, R16E

10. Field and Pool or Exploratory  
MONUMENT BUTTE

At top prod. interval reported below 202' FSL & 183' FEL (SE/SE) SEC. 32, T8S, R16E

11. Sec., T., R., M., on Block and  
Survey or Area SEC. 32, T8S, R16E

At total depth 133' FSL & 123' FEL (SE/SE) SEC. 32, T8S, R16E

12. County or Parish  
DUCHESNE

13. State  
UT

14. Date Spudded  
07/27/2011

15. Date T.D. Reached  
08/15/2011

16. Date Completed 09/13/2011  
 D & A  Ready to Prod.

17. Elevations (DF, RKB, RT, GL)\*  
5669' GL 5679' KB

18. Total Depth: MD 6365'  
TVD 6330'

19. Plug Back T.D.: MD 6332'  
TVD 6297'

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 Cemen- ter Depth	No. of Sk. & Type of Cement	Slurry Vol. (BBL)	Cement Top*	Amount Pulled
12-1/4"	8-5/8" J-55	24#	0	850'		465 CLASS G			
7-7/8"	5-1/2" J-55	15.5#	0	6351'		260 PRIMLITE		10'	
						460 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@ 6007'	TA @ 5879'						

25. Producing Intervals

Formation	Top	Bottom	Perforated Interval	Size	No. Holes	Perf. Status
A) Green River	4389'	5951'	4389-5951'	.36"	108	
B)						
C)						
D)						

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

Depth Interval	Amount and Type of Material
4389-5951'	Frac w/ 379630#s 20/40 white sand in 2403 bbls of Lightning 17 fluid in 5 stages.

28. Production - Interval A

Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
9/9/11	9/20/11	24	→	91	10	36			2-1/2" x 1-3/4" x 20' x 21' 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	
			→						

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\*(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.)

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	4389'	5951'		GARDEN GULCH MRK	3827'
				GARDEN GULCH 1	4047'
				GARDEN GULCH 2	4159'
				POINT 3	4425'
				X MRKR	4682'
				Y MRKR	4719'
				DOUGLAS CREEK MRK	4833'
				BI CARBONATE MRK	5082'
				B LIMESTONE MRK	5197'
				CASTLE PEAK	5751'
				BASAL CARBONATE	6184'
				WASATCH	6309'

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 *J Peatross* Date 11/08/2011

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 32 T8S, R16E  
U-32-8-16**

**Wellbore #1**

**Design: Actual**

## **Standard Survey Report**

**27 August, 2011**



# PayZone Directional Services, LLC.

## Survey Report



**Company:** NEWFIELD EXPLORATION  
**Project:** USGS Myton SW (UT)  
**Site:** SECTION 32 T8S, R16E  
**Well:** U-32-8-16  
**Wellbore:** Wellbore #1  
**Design:** Actual

**Local Co-ordinate Reference:** Well U-32-8-16  
**TVD Reference:** U-32-8-16 @ 5679.0ft (Newfield Rig #1)  
**MD Reference:** U-32-8-16 @ 5679.0ft (Newfield Rig #1)  
**North Reference:** True  
**Survey Calculation Method:** Minimum Curvature  
**Database:** EDM 2003.21 Single User Db

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

**Site:** SECTION 32 T8S, R16E, SEC 32 T8S, R16E  
**Site Position:**      **Northing:** 7,196,687.77 ft      **Latitude:** 40° 4' 8.000 N  
**From:** Lat/Long      **Easting:** 2,019,528.34 ft      **Longitude:** 110° 8' 43.000 W  
**Position Uncertainty:** 0.0 ft      **Slot Radius:** "      **Grid Convergence:** 0.87 °

**Well:** U-32-8-16, SHL LAT: 40 04 07.45 LONG: -110 08 08.76  
**Well Position:**      **Northing:** 7,196,672.56 ft      **Latitude:** 40° 4' 7.450 N  
**+N-S** 0.0 ft      **Easting:** 2,022,190.61 ft      **Longitude:** 110° 8' 8.760 W  
**+E-W** 0.0 ft  
**Position Uncertainty:** 0.0 ft      **Wellhead Elevation:** 5,679.0 ft      **Ground Level:** 5,669.0 ft

**Wellbore:** Wellbore #1  
**Magnetics:**

Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
IGRF2010	2011/03/10	11.38	65.81	52,298

**Design:** Actual  
**Audit Notes:**  
**Version:** 1.0      **Phase:** ACTUAL      **Tie On Depth:** 0.0  
**Vertical Section:**

Depth From (TVD) (ft)	+N-S (ft)	+E-W (ft)	Direction (°)
0.0	0.0	0.0	135.66

**Survey Program:** Date 2011/08/27  

From (ft)	To (ft)	Survey (Wellbore)	Tool Name	Description
838.0	6,365.0	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
838.0	0.00	62.50	838.0	0.0	0.0	0.0	0.00	0.00	0.00
882.0	0.10	220.40	882.0	0.0	0.0	0.0	0.23	0.23	0.00
925.0	0.10	230.70	925.0	-0.1	-0.1	0.0	0.04	0.00	23.95
969.0	0.10	139.40	969.0	-0.1	-0.1	0.0	0.33	0.00	-207.50
1,013.0	0.40	122.60	1,013.0	-0.2	0.1	0.2	0.69	0.68	-38.18
1,057.0	0.90	141.00	1,057.0	-0.6	0.4	0.7	1.22	1.14	41.82
1,101.0	1.40	136.70	1,101.0	-1.3	1.0	1.6	1.15	1.14	-9.77
1,145.0	1.80	125.30	1,145.0	-2.0	1.9	2.8	1.16	0.91	-25.91
1,189.0	2.40	123.70	1,188.9	-3.0	3.3	4.4	1.37	1.36	-3.64
1,233.0	3.20	120.10	1,232.9	-4.1	5.1	6.5	1.86	1.82	-8.18
1,277.0	4.00	121.20	1,276.8	-5.5	7.5	9.2	1.82	1.82	2.50
1,321.0	4.60	122.40	1,320.7	-7.2	10.3	12.4	1.38	1.36	2.73



# PayZone Directional Services, LLC.

## Survey Report



**Company:** NEWFIELD EXPLORATION  
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**Site:** SECTION 32 T8S, R16E  
**Well:** U-32-8-16  
**Wellbore:** Wellbore #1  
**Design:** Actual

**Local Co-ordinate Reference:** Well U-32-8-16  
**TVD Reference:** U-32-8-16 @ 5679.0ft (Newfield Rig #1)  
**MD Reference:** U-32-8-16 @ 5679.0ft (Newfield Rig #1)  
**North Reference:** True  
**Survey Calculation Method:** Minimum Curvature  
**Database:** EDM 2003.21 Single User Db

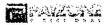
### Survey

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)
1,365.0	4.90	124.20	1,364.5	-9.2	13.3	15.9	0.76	0.68	4.09
1,409.0	5.30	123.10	1,408.4	-11.4	16.6	19.7	0.94	0.91	-2.50
1,453.0	5.80	127.70	1,452.1	-13.9	20.0	23.9	1.52	1.14	10.45
1,497.0	6.40	129.00	1,495.9	-16.8	23.7	28.6	1.40	1.36	2.95
1,541.0	7.40	129.20	1,539.6	-20.1	27.8	33.8	2.27	2.27	0.45
1,585.0	7.70	129.50	1,583.2	-23.8	32.3	39.6	0.69	0.68	0.68
1,629.0	7.60	129.40	1,626.8	-27.5	36.8	45.4	0.23	-0.23	-0.23
1,673.0	8.00	132.90	1,670.4	-31.4	41.3	51.3	1.41	0.91	7.95
1,717.0	7.90	133.20	1,714.0	-35.6	45.7	57.4	0.25	-0.23	0.68
1,761.0	7.60	132.80	1,757.6	-39.6	50.1	63.3	0.69	-0.68	-0.91
1,805.0	7.60	133.50	1,801.2	-43.6	54.3	69.2	0.21	0.00	1.59
1,849.0	7.60	135.20	1,844.8	-47.7	58.5	75.0	0.51	0.00	3.86
1,893.0	7.40	136.90	1,888.4	-51.8	62.5	80.7	0.68	-0.45	3.86
1,937.0	7.50	136.50	1,932.1	-56.0	66.4	86.4	0.26	0.23	-0.91
1,981.0	7.00	137.60	1,975.7	-60.0	70.2	92.0	1.18	-1.14	2.50
2,025.0	6.70	137.50	2,019.4	-63.9	73.7	97.2	0.68	-0.68	-0.23
2,069.0	6.90	136.80	2,063.1	-67.7	77.2	102.4	0.49	0.45	-1.59
2,113.0	6.90	136.00	2,106.8	-71.5	80.9	107.7	0.22	0.00	-1.82
2,157.0	6.70	135.80	2,150.4	-75.3	84.5	112.9	0.46	-0.45	-0.45
2,201.0	6.90	137.90	2,194.1	-79.1	88.1	118.1	0.73	0.45	4.77
2,245.0	7.00	137.00	2,237.8	-83.0	91.7	123.4	0.34	0.23	-2.05
2,289.0	6.80	136.10	2,281.5	-86.8	95.3	128.7	0.52	-0.45	-2.05
2,333.0	6.70	136.20	2,325.2	-90.6	98.9	133.9	0.23	-0.23	0.23
2,377.0	6.70	136.30	2,368.9	-94.3	102.4	139.0	0.03	0.00	0.23
2,421.0	6.80	135.70	2,412.6	-98.0	106.0	144.2	0.28	0.23	-1.36
2,465.0	6.50	135.80	2,456.3	-101.7	109.6	149.3	0.68	-0.68	0.23
2,509.0	6.90	132.50	2,500.0	-105.2	113.3	154.4	1.26	0.91	-7.50
2,553.0	7.30	133.20	2,543.7	-108.9	117.3	159.9	0.93	0.91	1.59
2,597.0	7.40	133.40	2,587.3	-112.8	121.4	165.5	0.23	0.23	0.45
2,641.0	7.30	133.30	2,630.9	-116.7	125.5	171.1	0.23	-0.23	-0.23
2,685.0	7.10	131.70	2,674.6	-120.4	129.5	176.6	0.64	-0.45	-3.64
2,729.0	6.90	130.90	2,718.3	-123.9	133.6	182.0	0.51	-0.45	-1.82
2,773.0	6.90	130.50	2,761.9	-127.4	137.6	187.2	0.11	0.00	-0.91
2,817.0	6.90	131.40	2,805.6	-130.8	141.6	192.5	0.25	0.00	2.05
2,861.0	7.30	135.70	2,849.3	-134.6	145.5	197.9	1.51	0.91	9.77
2,905.0	8.00	139.60	2,892.9	-138.9	149.4	203.8	1.98	1.59	8.86
2,949.0	8.70	140.30	2,936.4	-143.8	153.5	210.2	1.61	1.59	1.59
2,993.0	9.30	141.80	2,979.9	-149.2	157.9	217.0	1.46	1.36	3.41
3,037.0	9.10	142.10	3,023.3	-154.7	162.2	224.0	0.47	-0.45	0.68
3,081.0	8.70	140.20	3,066.8	-160.0	166.5	230.8	1.13	-0.91	-4.32
3,125.0	8.80	142.40	3,110.3	-165.2	170.6	237.4	0.79	0.23	5.00
3,169.0	9.00	141.80	3,153.7	-170.6	174.8	244.2	0.50	0.45	-1.36
3,213.0	8.50	141.00	3,197.2	-175.8	179.0	250.9	1.17	-1.14	-1.82
3,257.0	7.80	139.30	3,240.8	-180.6	183.0	257.1	1.68	-1.59	-3.86
3,301.0	7.90	139.60	3,284.4	-185.2	186.9	263.1	0.25	0.23	0.68
3,345.0	8.10	139.20	3,327.9	-189.8	190.9	269.2	0.47	0.45	-0.91
3,389.0	8.00	139.60	3,371.5	-194.5	194.9	275.3	0.26	-0.23	0.91
3,433.0	8.00	137.90	3,415.1	-199.1	198.9	281.4	0.54	0.00	-3.86
3,477.0	8.10	139.60	3,458.6	-203.7	203.0	287.6	0.59	0.23	3.86
3,521.0	7.90	139.70	3,502.2	-208.4	207.0	293.7	0.46	-0.45	0.23
3,565.0	7.40	139.70	3,545.8	-212.9	210.7	299.5	1.14	-1.14	0.00
3,609.0	7.40	137.90	3,589.5	-217.1	214.5	305.2	0.53	0.00	-4.09
3,653.0	7.30	137.30	3,633.1	-221.3	218.3	310.8	0.29	-0.23	-1.36
3,697.0	7.30	136.00	3,676.7	-225.4	222.1	316.4	0.38	0.00	-2.95



# PayZone Directional Services, LLC.

## Survey Report



**Company:** NEWFIELD EXPLORATION  
**Project:** USGS Myton SW (UT)  
**Site:** SECTION 32 T8S, R16E  
**Well:** U-32-8-16  
**Wellbore:** Wellbore #1  
**Design:** Actual

**Local Co-ordinate Reference:** Well U-32-8-16  
**TVD Reference:** U-32-8-16 @ 5679.0ft (Newfield Rig #1)  
**MD Reference:** U-32-8-16 @ 5679.0ft (Newfield Rig #1)  
**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)
3,741.0	7.00	137.80	3,720.4	-229.4	225.9	321.9	0.85	-0.68	4.09
3,785.0	6.60	138.10	3,764.1	-233.2	229.3	327.1	0.91	-0.91	0.68
3,829.0	6.40	136.20	3,807.8	-236.9	232.7	332.1	0.67	-0.45	-4.32
3,873.0	6.00	134.30	3,851.6	-240.3	236.1	336.8	1.02	-0.91	-4.32
3,917.0	5.90	132.90	3,895.3	-243.4	239.4	341.4	0.40	-0.23	-3.18
3,961.0	5.90	132.60	3,939.1	-246.5	242.7	345.9	0.07	0.00	-0.68
4,005.0	6.00	128.50	3,982.8	-249.4	246.2	350.4	0.99	0.23	-9.32
4,049.0	5.70	128.20	4,026.6	-252.2	249.7	354.9	0.69	-0.68	-0.68
4,093.0	6.10	128.40	4,070.4	-255.0	253.2	359.4	0.91	0.91	0.45
4,137.0	6.50	128.70	4,114.1	-258.0	257.0	364.2	0.91	0.91	0.68
4,181.0	6.90	130.60	4,157.8	-261.3	261.0	369.3	1.04	0.91	4.32
4,225.0	6.90	131.60	4,201.5	-264.8	264.9	374.5	0.27	0.00	2.27
4,269.0	6.90	133.20	4,245.2	-268.3	268.8	379.8	0.44	0.00	3.64
4,313.0	6.90	132.90	4,288.9	-272.0	272.7	385.1	0.08	0.00	-0.68
4,358.0	6.70	133.40	4,333.5	-275.6	276.6	390.4	0.46	-0.44	1.11
4,402.0	7.00	135.70	4,377.2	-279.3	280.3	395.7	0.92	0.68	5.23
4,446.0	7.20	137.50	4,420.9	-283.2	284.1	401.1	0.68	0.45	4.09
4,490.0	6.90	137.90	4,464.6	-287.2	287.7	406.5	0.69	-0.68	0.91
4,534.0	6.90	137.10	4,508.2	-291.1	291.3	411.8	0.22	0.00	-1.82
4,577.0	6.40	137.40	4,551.0	-294.8	294.7	416.8	1.17	-1.16	0.70
4,621.0	6.30	135.80	4,594.7	-298.3	298.0	421.6	0.46	-0.23	-3.64
4,665.0	6.30	136.50	4,638.4	-301.8	301.3	426.5	0.17	0.00	1.59
4,709.0	6.10	134.10	4,682.2	-305.2	304.7	431.2	0.74	-0.45	-5.45
4,753.0	6.20	133.60	4,725.9	-308.4	308.1	435.9	0.26	0.23	-1.14
4,797.0	6.20	133.40	4,769.6	-311.7	311.5	440.7	0.05	0.00	-0.45
4,841.0	6.20	132.10	4,813.4	-314.9	315.0	445.4	0.32	0.00	-2.95
4,885.0	6.00	135.70	4,857.1	-318.2	318.4	450.1	0.98	-0.45	8.18
4,929.0	6.60	138.70	4,900.9	-321.7	321.7	454.9	1.55	1.36	6.82
4,973.0	6.80	138.50	4,944.6	-325.6	325.1	460.0	0.46	0.45	-0.45
5,017.0	6.90	137.20	4,988.3	-329.5	328.6	465.3	0.42	0.23	-2.95
5,061.0	6.80	138.20	5,031.9	-333.3	332.1	470.5	0.35	-0.23	2.27
5,105.0	6.60	138.60	5,075.6	-337.2	335.5	475.7	0.47	-0.45	0.91
5,149.0	6.30	140.40	5,119.4	-340.9	338.7	480.6	0.82	-0.68	4.09
5,193.0	6.50	140.70	5,163.1	-344.7	341.8	485.5	0.46	0.45	0.68
5,237.0	6.30	139.60	5,206.8	-348.5	345.0	490.4	0.53	-0.45	-2.50
5,281.0	6.30	140.60	5,250.6	-352.2	348.1	495.2	0.25	0.00	2.27
5,325.0	6.80	142.90	5,294.3	-356.1	351.2	500.2	1.28	1.14	5.23
5,369.0	7.10	145.40	5,337.9	-360.5	354.3	505.4	0.97	0.68	5.68
5,413.0	6.90	149.00	5,381.6	-365.0	357.2	510.7	1.10	-0.45	8.18
5,457.0	6.80	153.60	5,425.3	-369.6	359.7	515.7	1.27	-0.23	10.45
5,501.0	6.50	156.00	5,469.0	-374.2	361.9	520.5	0.93	-0.68	5.45
5,545.0	6.00	152.80	5,512.7	-378.5	364.0	525.1	1.38	-1.14	-7.27
5,589.0	5.80	144.40	5,556.5	-382.3	366.3	529.5	2.01	-0.45	-19.09
5,633.0	5.60	143.00	5,600.3	-385.9	368.9	533.8	0.55	-0.45	-3.18
5,677.0	5.10	141.10	5,644.1	-389.1	371.4	537.9	1.21	-1.14	-4.32
5,721.0	4.60	138.60	5,687.9	-391.9	373.8	541.6	1.23	-1.14	-5.68
5,765.0	4.00	137.60	5,731.8	-394.4	376.0	544.9	1.37	-1.36	-2.27
5,809.0	3.80	137.30	5,775.7	-396.6	378.0	547.9	0.46	-0.45	-0.68
5,853.0	3.90	140.30	5,819.6	-398.8	380.0	550.8	0.51	0.23	6.82
5,897.0	4.20	143.20	5,863.5	-401.3	381.9	553.9	0.83	0.68	6.59
5,941.0	4.40	139.30	5,907.4	-403.8	384.0	557.2	0.80	0.45	-8.86
5,985.0	4.50	135.60	5,951.3	-406.4	386.3	560.6	0.69	0.23	-8.41
6,029.0	4.90	134.60	5,995.1	-408.9	388.8	564.2	0.93	0.91	-2.27
6,073.0	5.20	134.30	6,038.9	-411.6	391.6	568.1	0.68	0.68	-0.68



# PayZone Directional Services, LLC.

## Survey Report



**Company:** NEWFIELD EXPLORATION  
**Project:** USGS Myton SW (UT)  
**Site:** SECTION 32 T8S, R16E  
**Well:** U-32-8-16  
**Wellbore:** Wellbore #1  
**Design:** Actual

**Local Co-ordinate Reference:** Well U-32-8-16  
**TVD Reference:** U-32-8-16 @ 5679.0ft (Newfield Rig #1)  
**MD Reference:** U-32-8-16 @ 5679.0ft (Newfield Rig #1)  
**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)
6,117.0	5.70	133.50	6,082.7	-414.5	394.6	572.3	1.15	1.14	-1.82
6,161.0	5.80	133.10	6,126.5	-417.5	397.8	576.7	0.24	0.23	-0.91
6,205.0	5.90	127.70	6,170.3	-420.4	401.2	581.1	1.27	0.23	-12.27
6,249.0	5.90	124.80	6,214.1	-423.1	404.9	585.6	0.68	0.00	-6.59
6,303.6	5.80	127.19	6,268.4	-426.4	409.4	591.1	0.48	-0.18	4.38
<b>U-32-8-16</b>									
6,303.9	5.80	127.19	6,268.7	-426.4	409.4	591.1	0.00	0.00	0.00
<b>U-32-8-16</b>									
6,306.0	5.80	127.30	6,270.8	-426.5	409.6	591.3	0.54	-0.19	5.02
6,365.0	5.80	127.30	6,329.5	-430.1	414.3	597.2	0.00	0.00	0.00
<b>U-32-8-16 TGT</b>									

### Wellbore Targets

Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (ft)	Easting (ft)	Latitude	Longitude
U-32-8-16 TGT	0.00	0.00	6,330.0	-455.5	445.2	7,196,223.89	2,022,642.66	40° 4' 2.948 N	110° 8' 3.034 W
- hit/miss target - Shape - actual wellpath misses target center by 39.9ft at 6365.0ft MD (6329.5 TVD, -430.1 N, 414.3 E) - Circle (radius 75.0)									

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



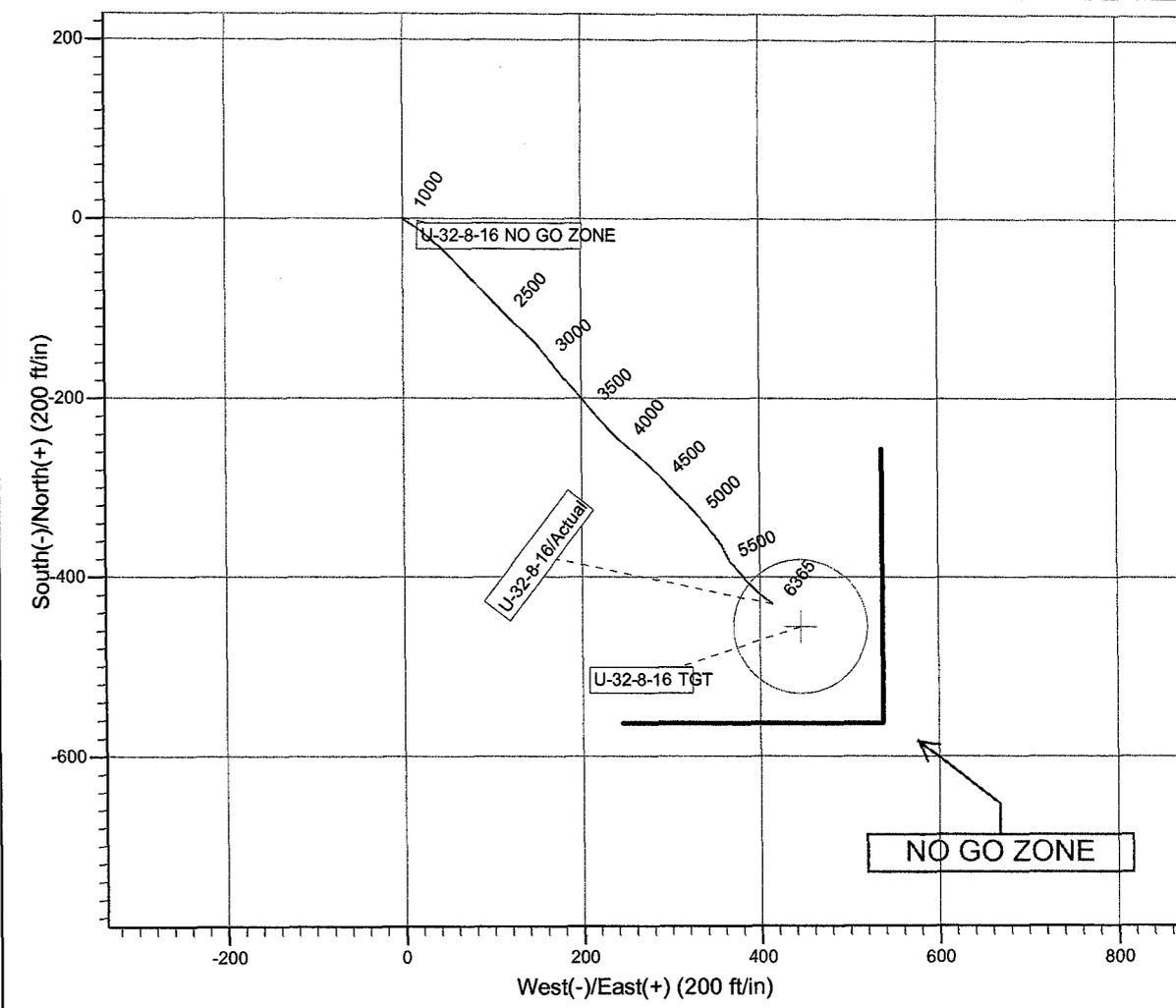
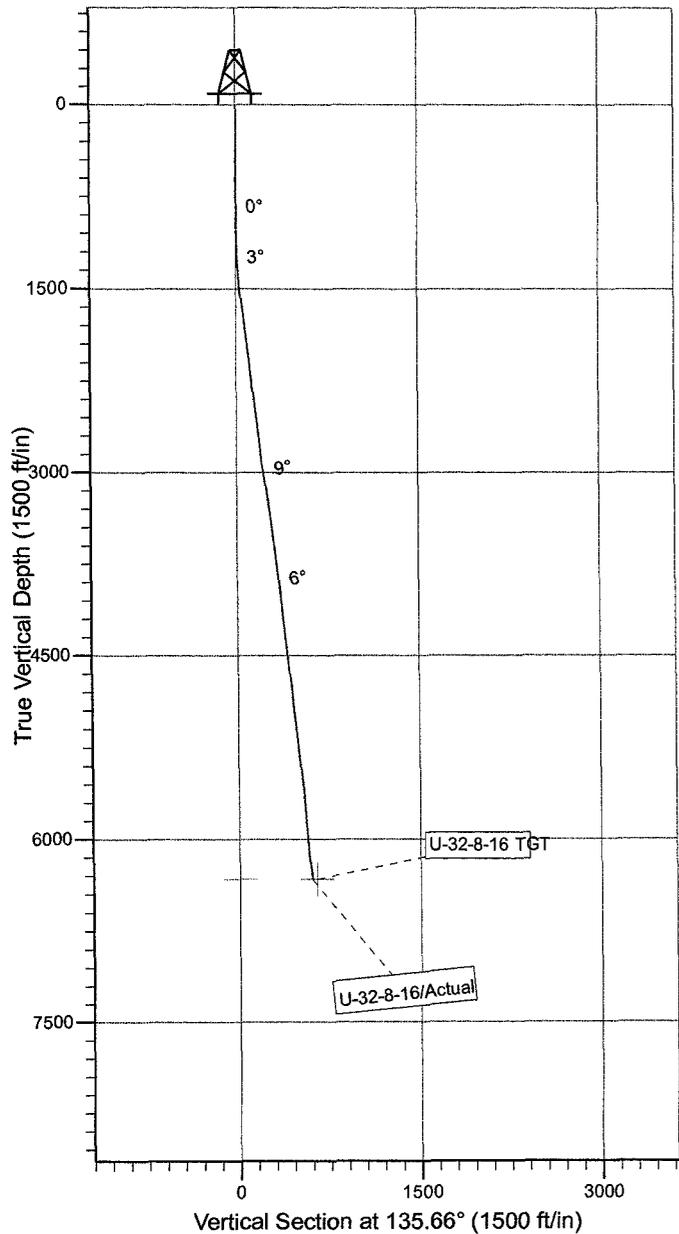
Project: USGS Myton SW (UT)  
 Site: SECTION 32 T8S, R16E  
 Well: U-32-8-16  
 Wellbore: Wellbore #1  
 SURVEY: Actual

FINAL SURVEY REPORT



Azimuths to True North  
 Magnetic North: 11.38°

Magnetic Field  
 Strength: 52297.9snT  
 Dip Angle: 65.81°  
 Date: 2011/03/10  
 Model: IGRF2010



Design: Actual (U-32-8-16/Wellbore #1)



Created By: Sarah Webb Date: 12:10, August 27 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 U-32-8-16**

**6/1/2011 To 10/30/2011**

**GMBU U-32-8-16**

**Waiting on Cement**

**Date:** 8/2/2011

Ross #31 at 850. Days Since Spud - yield. Returned 20bbls to pit, bump plug to 450psi, BLM and State were notified of spud via email. - On 7/27/11 Ross #31 spud and drilled 850' of 12 1/4" hole, P/U and run 19 jts of 8 5/8" casing set - 843.58'KB. On 8/2/11 cement w/BJ w/465 sks of class G+2%kcl+.25#CF mixed @ 15.8ppg and 1.17

**Daily Cost:** \$0

**Cumulative Cost:** \$75,684

**GMBU U-32-8-16**

**Drill 7 7/8" hole with fresh water**

**Date:** 8/13/2011

NDSI SS #1 at 3140. 1 Days Since Spud - P/U Sec7 7/8" PDC FX65M bit, .33 1.5° 7/8 lobe Hunting Mud motor, Pay Zone Directional tools - JSA w/ tester and crew Test Kelly, safty valve, choke manifold, Pipe and blind rams @ 2000 PSI - JSA W/ Moving crew and rig crews- Skid rig over 15' rig up all equipment w/ Liddell Trucking - Tag @ 830' Drill 7 7/8" hole F/830' - 984', w/ 15 WOB, 165 RPM, 365 GPM, ROP 150 - Surface csg @ 1500 PSI - test good - Drill 7 7/8" hole F/984'- 3140', w/ 20 WOB, 160 RPM, 365 GPM, ROP 160 - Safety meeting w/ Ubtc and ray on noise - rig service

**Daily Cost:** \$0

**Cumulative Cost:** \$110,106

**GMBU U-32-8-16**

**Drill 7 7/8" hole with fresh water**

**Date:** 8/14/2011

NDSI SS #1 at 5736. 2 Days Since Spud - Drill 7 7/8" hole F/3140' - 4061', w/ 20 WOB, 160 RPM, 365 GPM, ROP 150 - Rig service funtion test pipe rams and crownomatic - No flow - Drill 7 7/8" hole F/4061' - 5736', w/ 20 WOB, 160 RPM, 365 GPM, ROP 96

**Daily Cost:** \$0

**Cumulative Cost:** \$140,170

**GMBU U-32-8-16**

**Running casing**

**Date:** 8/15/2011

NDSI SS #1 at 6365. 3 Days Since Spud - Float collar set @ 6332.26' KB, pick up exta jt tag and lay down, P/U Mandrill and landing jt - JSA w/ on coming crew, run 145jt 5.5 15.5# j-55 LTC-tag -Guide Shoe set @ 6350.97' KB - JSA - Test csg rams w/ Quicktest @ 2000 psi - R/U Psi run DISGL/SP/GR suite TD to surface- DSN/SDL/GR/CAL suite TD to 3000' (loggers TD 6357') - Lay down DP, BHA and Directional tools - Circulate For logs - No flow - no H2S - Drill 7 7/8" hole F/5736' - 6365', w/ 20 WOB, 155 RPM, 365 GPM, ROP 96 - TD - total csg on location 148 jts Plus 1 landing jt- Transfer 3 jts + 1 landing jt to the S-2-9-15

**Daily Cost:** \$0

**Cumulative Cost:** \$269,363

**GMBU U-32-8-16**

**Wait on Completion**

**Date:** 8/16/2011

NDSI SS #1 at 6365. 4 Days Since Spud - Clean mud tanks - Mixed @ 14.4 ppg yeild @ 1.24 return 15 bbls to pit Bump plug to 1790 psi - yield @ 3.54 Then tail of 460 sk 50:50:2+3% KCL+0.5%EC-1+.25# SK CF+.05#SF+.3SMS+FP-6L - CMT w/BJ Pump 260 sks PL II +3% KCL

+5#CSE+0.5#CF+2#KOL+.5SMS+FP+SF mixed @ 11ppg - Circulate csg - Release rig @  
13:30 PM on 8/15/11 **Finalized**

**Daily Cost:** \$0

**Cumulative Cost:** \$310,155

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**Pertinent Files: Go to File List**