

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

FORM 3

AMENDED REPORT

**APPLICATION FOR PERMIT TO DRILL**

<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>1. WELL NAME and NUMBER</b> Greater Monument Butte R-24-8-16				
<b>4. TYPE OF WELL</b> Oil Well <input type="checkbox"/> Coalbed Methane Well: NO <input type="checkbox"/>				<b>3. FIELD OR WILDCAT</b> MONUMENT BUTTE				
<b>6. NAME OF OPERATOR</b> NEWFIELD PRODUCTION COMPANY				<b>5. UNIT or COMMUNITIZATION AGREEMENT NAME</b> GMBU (GRRV)				
<b>8. ADDRESS OF OPERATOR</b> Rt 3 Box 3630 , Myton, UT, 84052				<b>7. OPERATOR PHONE</b> 435 646-4825				
<b>10. MINERAL LEASE NUMBER (FEDERAL, INDIAN, OR STATE)</b> UTU-67170		<b>11. MINERAL OWNERSHIP</b> FEDERAL <input checked="" type="checkbox"/> INDIAN <input type="checkbox"/> STATE <input type="checkbox"/> FEE <input type="checkbox"/>		<b>9. OPERATOR E-MAIL</b> mcrozier@newfield.com				
<b>13. NAME OF SURFACE OWNER (if box 12 = 'fee')</b>				<b>12. SURFACE OWNERSHIP</b> FEDERAL <input checked="" type="checkbox"/> INDIAN <input type="checkbox"/> STATE <input type="checkbox"/> FEE <input type="checkbox"/>				
<b>15. ADDRESS OF SURFACE OWNER (if box 12 = 'fee')</b>				<b>14. SURFACE OWNER PHONE (if box 12 = 'fee')</b>				
<b>17. INDIAN ALLOTTEE OR TRIBE NAME (if box 12 = 'INDIAN')</b>		<b>18. INTEND TO COMMINGLE PRODUCTION FROM MULTIPLE FORMATIONS</b> YES <input type="checkbox"/> (Submit Commingling Application) NO <input checked="" type="checkbox"/>		<b>16. SURFACE OWNER E-MAIL (if box 12 = 'fee')</b>				
<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>
<b>LOCATION AT SURFACE</b>		644 FSL 1993 FEL		SWSE	24	8.0 S	16.0 E	S
<b>Top of Uppermost Producing Zone</b>		1067 FSL 2411 FEL		SWSE	24	8.0 S	16.0 E	S
<b>At Total Depth</b>		1320 FSL 2640 FEL		SWSE	24	8.0 S	16.0 E	S
<b>21. COUNTY</b> DUCHESNE		<b>22. DISTANCE TO NEAREST LEASE LINE (Feet)</b> 1320		<b>23. NUMBER OF ACRES IN DRILLING UNIT</b> 20				
<b>27. ELEVATION - GROUND LEVEL</b> 5418		<b>25. DISTANCE TO NEAREST WELL IN SAME POOL (Applied For Drilling or Completed)</b> 1320		<b>26. PROPOSED DEPTH</b> MD: 6714 TVD: 6714				
		<b>28. BOND NUMBER</b> WYB000493		<b>29. SOURCE OF DRILLING WATER / WATER RIGHTS APPROVAL NUMBER IF APPLICABLE</b> 43-7478				

**ATTACHMENTS**

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

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

<b>NAME</b> Mandie Crozier	<b>TITLE</b> Regulatory Tech	<b>PHONE</b> 435 646-4825
<b>SIGNATURE</b>	<b>DATE</b> 03/12/2010	<b>EMAIL</b> mcrozier@newfield.com
<b>API NUMBER ASSIGNED</b> 43013502760000	<b>APPROVAL</b>  Permit Manager	

**Proposed Hole, Casing, and Cement**

<b>String</b>	<b>Hole Size</b>	<b>Casing Size</b>	<b>Top (MD)</b>	<b>Bottom (MD)</b>		
Prod	7.875	5.5	0	6714		
<b>Pipe</b>	<b>Grade</b>	<b>Length</b>	<b>Weight</b>			
	Grade J-55 LT&C	6714	15.5			

**Proposed Hole, Casing, and Cement**

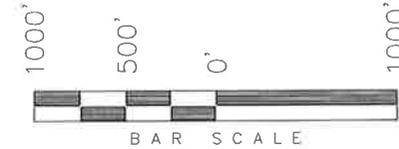
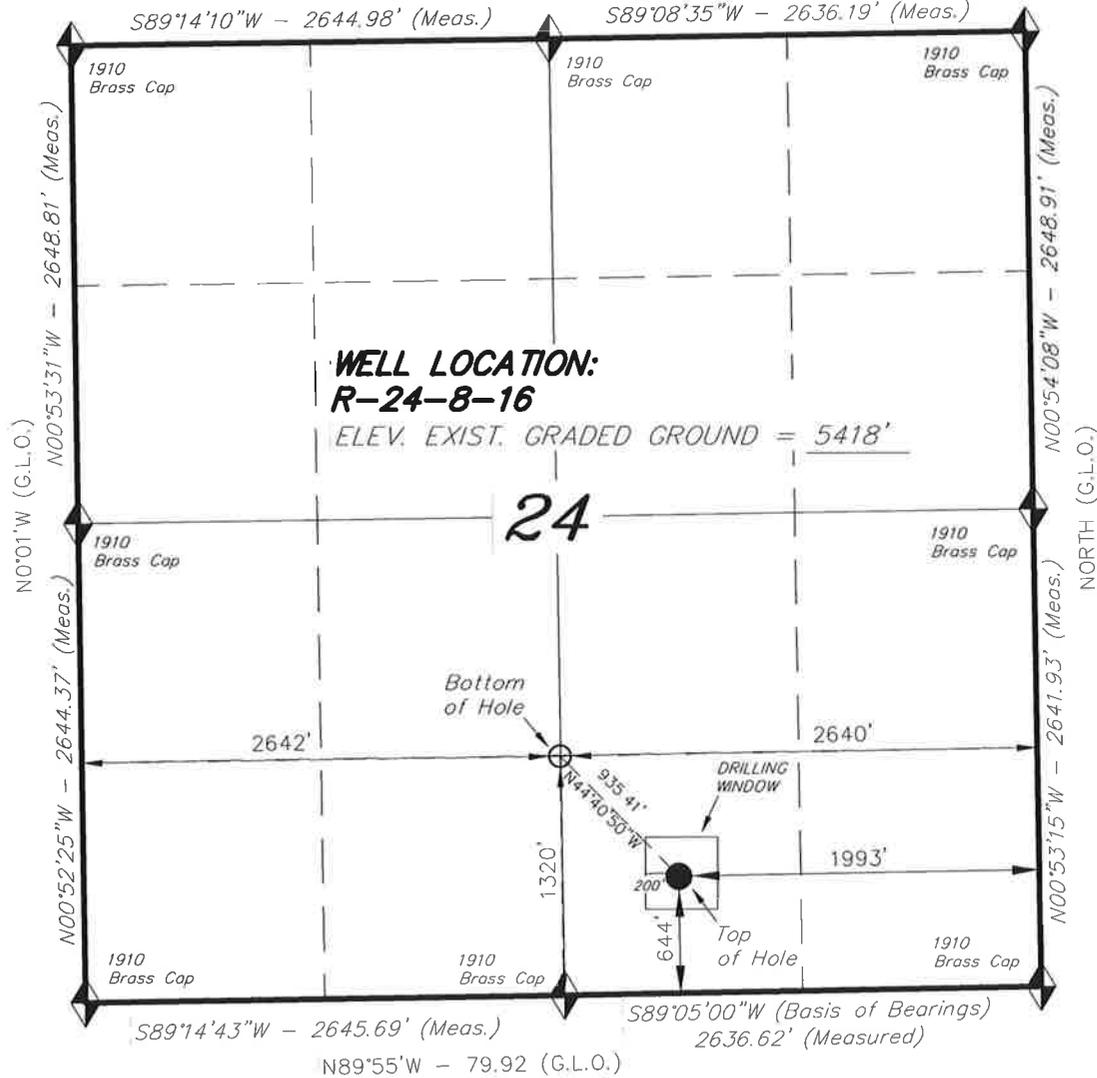
<b>String</b>	<b>Hole Size</b>	<b>Casing Size</b>	<b>Top (MD)</b>	<b>Bottom (MD)</b>		
Surf	12.25	8.625	0	300		
<b>Pipe</b>	<b>Grade</b>	<b>Length</b>	<b>Weight</b>			
	Grade J-55 ST&C	300	24.0			

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

N89°57'W - 79.90 (G.L.O.)

## NEWFIELD PRODUCTION COMPANY

WELL LOCATION, R-24-8-16, LOCATED AS SHOWN IN THE SW 1/4 SE 1/4 OF SECTION 24, T8S, R16E, S.L.B.&M. DUCHESNE COUNTY, UTAH.



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

REGISTERED LAND SURVEYOR  
 STACY W. STEWART  
 REGISTRATION No. 189377  
 STATE OF UTAH

◆ = SECTION CORNERS LOCATED

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

**R-24-8-16**  
 (Surface Location) NAD 83  
 LATITUDE = 40° 05' 52.46"  
 LONGITUDE = 110° 03' 55.64"

<b>TRI STATE LAND SURVEYING &amp; CONSULTING</b> 180 NORTH VERNAL AVE. - VERNAL, UTAH 84078 (435) 781-2501	
DATE SURVEYED: 08-14-09	SURVEYED BY: T.P.
DATE DRAWN: 10-07-09	DRAWN BY: F.T.M.
REVISED: 01-20-10 - M.W.	SCALE: 1" = 1000'



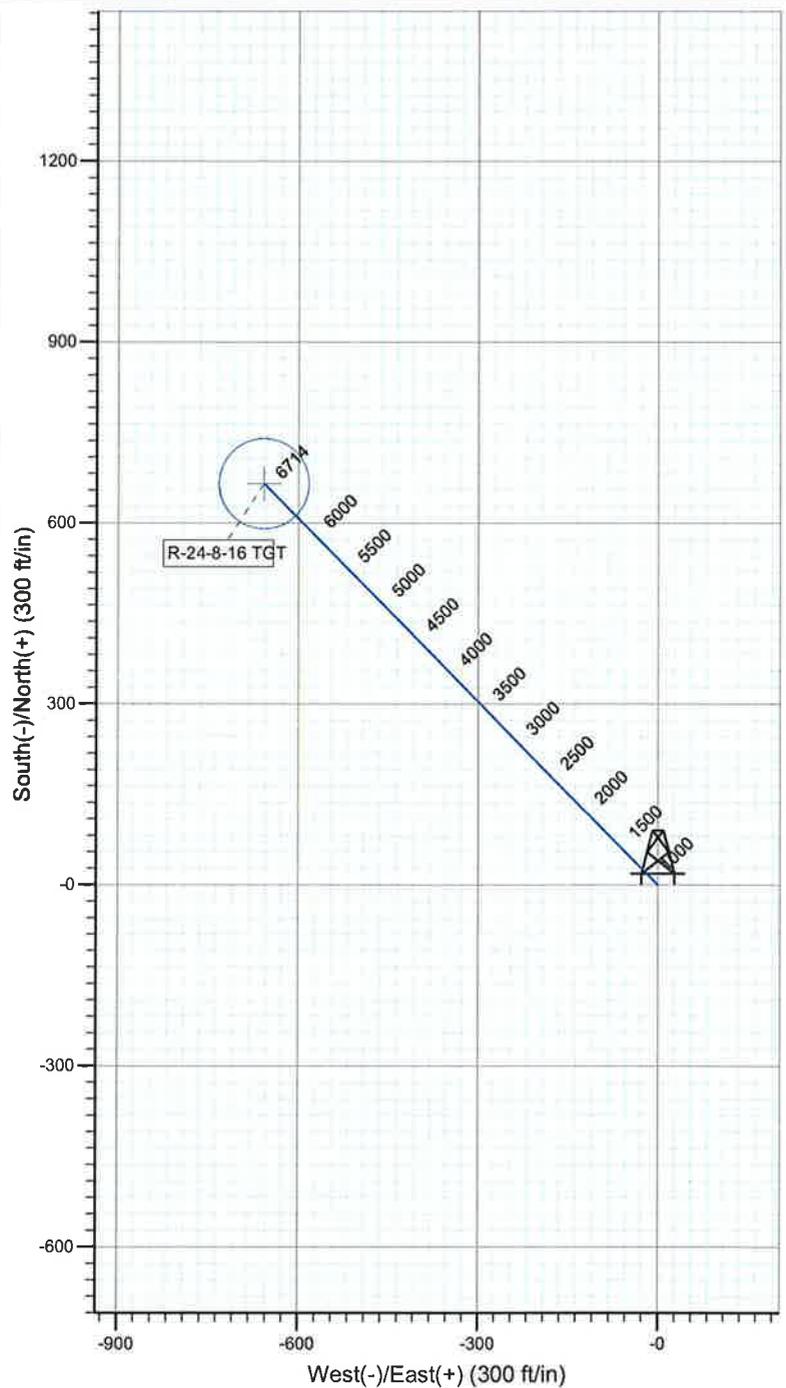
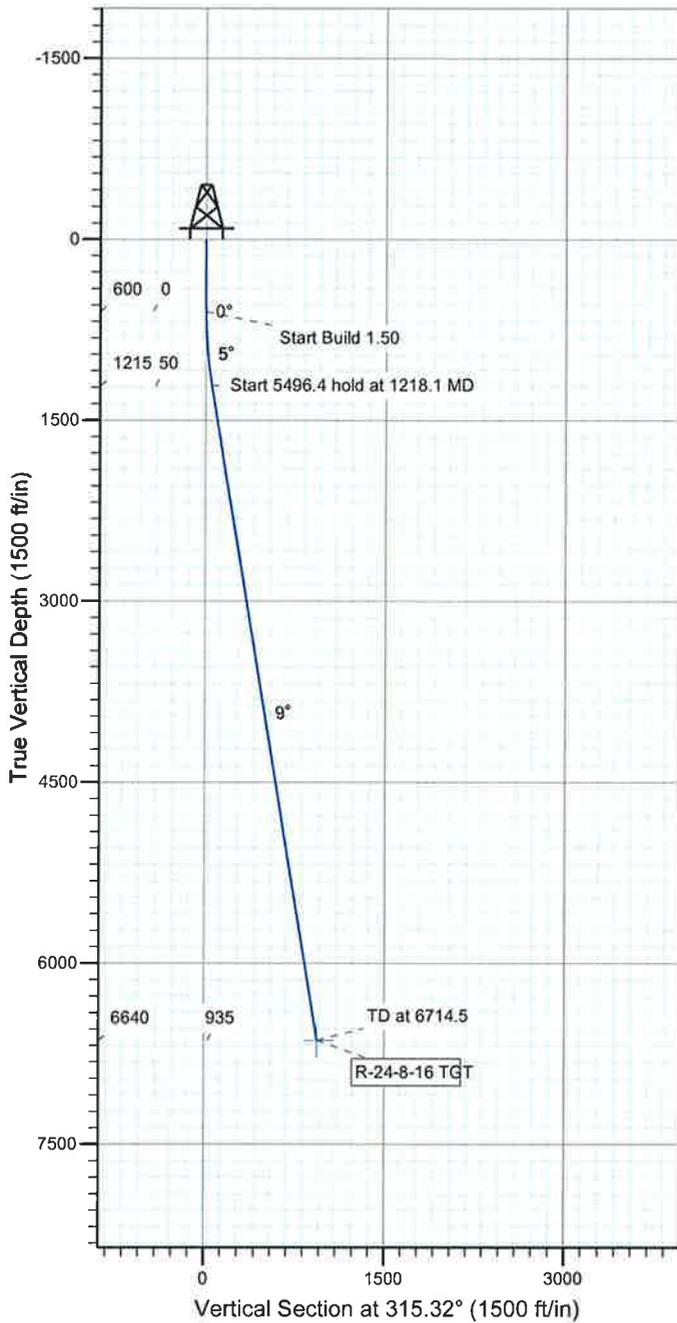
Project: USGS Myton SW (UT)  
 Site: SECTION 24  
 Well: R-24-8-16  
 Wellbore: Wellbore #1  
 Design: Design #1



Azimuths to True North  
 Magnetic North: 11.51°

Magnetic Field  
 Strength: 52488.4snT  
 Dip Angle: 65.89°  
 Date: 11/9/2009  
 Model: IGRF200510

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



WELLBORE TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Shape
R-24-8-16 TGT	6640.0	665.1	-657.7	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	1218.1	9.27	315.32	1215.4	35.5	-35.1	1.50	315.32	49.9	
4	6714.5	9.27	315.32	6640.0	665.1	-657.7	0.00	0.00	935.4	R-24-8-16 TGT



# **NEWFIELD EXPLORATION**

**USGS Myton SW (UT)**

**SECTION 24**

**R-24-8-16**

**Wellbore #1**

**Plan: Design #1**

## **Standard Planning Report**

**29 January, 2010**



## HATHAWAYBURNHAM Planning Report

<b>Database:</b>	EDM 2003.21 Single User Db	<b>Local Co-ordinate Reference:</b>	Well R-24-8-16
<b>Company:</b>	NEWFIELD EXPLORATION	<b>TVD Reference:</b>	R-24-8-16 @ 5430.0ft (Original Well Elev)
<b>Project:</b>	USGS Myton SW (UT)	<b>MD Reference:</b>	R-24-8-16 @ 5430.0ft (Original Well Elev)
<b>Site:</b>	SECTION 24	<b>North Reference:</b>	True
<b>Well:</b>	R-24-8-16	<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		Using geodetic scale factor

<b>Site</b> SECTION 24, SEC 24 T8S, R16E			
<b>Site Position:</b>		<b>Northing:</b>	7,209,200.00ft
<b>From:</b>	Lat/Long	<b>Easting:</b>	2,041,800.00ft
<b>Position Uncertainty:</b>	0.0 ft	<b>Slot Radius:</b>	"
		<b>Latitude:</b>	40° 6' 8.212 N
		<b>Longitude:</b>	110° 3' 53.957 W
		<b>Grid Convergence:</b>	0.92 °

<b>Well</b> R-24-8-16, SHL LAT: 40 05 52.46, LONG: -110 03 55.64			
<b>Well Position</b>	+N/-S	-1,594.0 ft	<b>Northing:</b>
	+E/-W	-130.8 ft	<b>Easting:</b>
			7,207,604.26 ft
<b>Position Uncertainty</b>		0.0 ft	<b>Wellhead Elevation:</b>
			5,430.0 ft
			<b>Latitude:</b>
			40° 5' 52.460 N
			<b>Longitude:</b>
			110° 3' 55.640 W
			<b>Ground Level:</b>
			5,418.0 ft

<b>Wellbore</b> Wellbore #1					
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF200510	11/9/2009	11.51	65.89	52,488

<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	315.32	

<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	
1,218.1	9.27	315.32	1,215.4	35.5	-35.1	1.50	1.50	0.00	315.32	
6,714.5	9.27	315.32	6,640.0	665.1	-657.7	0.00	0.00	0.00	0.00	R-24-8-16 TGT



## HATHAWAYBURNHAM

### Planning Report

**Database:** EDM 2003.21 Single User Db  
**Company:** NEWFIELD EXPLORATION  
**Project:** USGS Myton SW (UT)  
**Site:** SECTION 24  
**Well:** R-24-8-16  
**Wellbore:** Wellbore #1  
**Design:** Design #1

**Local Co-ordinate Reference:** Well R-24-8-16  
**TVD Reference:** R-24-8-16 @ 5430.0ft (Original Well Elev)  
**MD Reference:** R-24-8-16 @ 5430.0ft (Original Well Elev)  
**North Reference:** True  
**Survey Calculation Method:** Minimum Curvature

#### Planned Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.00	0.00	0.00
100.0	0.00	0.00	100.0	0.0	0.0	0.0	0.00	0.00	0.00
200.0	0.00	0.00	200.0	0.0	0.0	0.0	0.00	0.00	0.00
300.0	0.00	0.00	300.0	0.0	0.0	0.0	0.00	0.00	0.00
400.0	0.00	0.00	400.0	0.0	0.0	0.0	0.00	0.00	0.00
500.0	0.00	0.00	500.0	0.0	0.0	0.0	0.00	0.00	0.00
600.0	0.00	0.00	600.0	0.0	0.0	0.0	0.00	0.00	0.00
700.0	1.50	315.32	700.0	0.9	-0.9	1.3	1.50	1.50	0.00
800.0	3.00	315.32	799.9	3.7	-3.7	5.2	1.50	1.50	0.00
900.0	4.50	315.32	899.7	8.4	-8.3	11.8	1.50	1.50	0.00
1,000.0	6.00	315.32	999.3	14.9	-14.7	20.9	1.50	1.50	0.00
1,100.0	7.50	315.32	1,098.6	23.2	-23.0	32.7	1.50	1.50	0.00
1,200.0	9.00	315.32	1,197.5	33.4	-33.1	47.0	1.50	1.50	0.00
1,218.1	9.27	315.32	1,215.4	35.5	-35.1	49.9	1.50	1.50	0.00
1,300.0	9.27	315.32	1,296.2	44.9	-44.4	63.1	0.00	0.00	0.00
1,400.0	9.27	315.32	1,394.9	56.3	-55.7	79.2	0.00	0.00	0.00
1,500.0	9.27	315.32	1,493.6	67.8	-67.0	95.3	0.00	0.00	0.00
1,600.0	9.27	315.32	1,592.3	79.2	-78.3	111.4	0.00	0.00	0.00
1,700.0	9.27	315.32	1,691.0	90.7	-89.7	127.5	0.00	0.00	0.00
1,800.0	9.27	315.32	1,789.7	102.1	-101.0	143.6	0.00	0.00	0.00
1,900.0	9.27	315.32	1,888.4	113.6	-112.3	159.8	0.00	0.00	0.00
2,000.0	9.27	315.32	1,987.1	125.1	-123.7	175.9	0.00	0.00	0.00
2,100.0	9.27	315.32	2,085.8	136.5	-135.0	192.0	0.00	0.00	0.00
2,200.0	9.27	315.32	2,184.5	148.0	-146.3	208.1	0.00	0.00	0.00
2,300.0	9.27	315.32	2,283.2	159.4	-157.6	224.2	0.00	0.00	0.00
2,400.0	9.27	315.32	2,381.9	170.9	-169.0	240.3	0.00	0.00	0.00
2,500.0	9.27	315.32	2,480.6	182.3	-180.3	256.4	0.00	0.00	0.00
2,600.0	9.27	315.32	2,579.3	193.8	-191.6	272.5	0.00	0.00	0.00
2,700.0	9.27	315.32	2,677.9	205.2	-203.0	288.6	0.00	0.00	0.00
2,800.0	9.27	315.32	2,776.6	216.7	-214.3	304.8	0.00	0.00	0.00
2,900.0	9.27	315.32	2,875.3	228.2	-225.6	320.9	0.00	0.00	0.00
3,000.0	9.27	315.32	2,974.0	239.6	-236.9	337.0	0.00	0.00	0.00
3,100.0	9.27	315.32	3,072.7	251.1	-248.3	353.1	0.00	0.00	0.00
3,200.0	9.27	315.32	3,171.4	262.5	-259.6	369.2	0.00	0.00	0.00
3,300.0	9.27	315.32	3,270.1	274.0	-270.9	385.3	0.00	0.00	0.00
3,400.0	9.27	315.32	3,368.8	285.4	-282.3	401.4	0.00	0.00	0.00
3,500.0	9.27	315.32	3,467.5	296.9	-293.6	417.5	0.00	0.00	0.00
3,600.0	9.27	315.32	3,566.2	308.3	-304.9	433.6	0.00	0.00	0.00
3,700.0	9.27	315.32	3,664.9	319.8	-316.2	449.8	0.00	0.00	0.00
3,800.0	9.27	315.32	3,763.6	331.3	-327.6	465.9	0.00	0.00	0.00
3,900.0	9.27	315.32	3,862.3	342.7	-338.9	482.0	0.00	0.00	0.00
4,000.0	9.27	315.32	3,961.0	354.2	-350.2	498.1	0.00	0.00	0.00
4,100.0	9.27	315.32	4,059.7	365.6	-361.6	514.2	0.00	0.00	0.00
4,200.0	9.27	315.32	4,158.4	377.1	-372.9	530.3	0.00	0.00	0.00
4,300.0	9.27	315.32	4,257.0	388.5	-384.2	546.4	0.00	0.00	0.00
4,400.0	9.27	315.32	4,355.7	400.0	-395.5	562.5	0.00	0.00	0.00
4,500.0	9.27	315.32	4,454.4	411.4	-406.9	578.6	0.00	0.00	0.00
4,600.0	9.27	315.32	4,553.1	422.9	-418.2	594.7	0.00	0.00	0.00
4,700.0	9.27	315.32	4,651.8	434.3	-429.5	610.9	0.00	0.00	0.00
4,800.0	9.27	315.32	4,750.5	445.8	-440.9	627.0	0.00	0.00	0.00
4,900.0	9.27	315.32	4,849.2	457.3	-452.2	643.1	0.00	0.00	0.00
5,000.0	9.27	315.32	4,947.9	468.7	-463.5	659.2	0.00	0.00	0.00
5,100.0	9.27	315.32	5,046.6	480.2	-474.8	675.3	0.00	0.00	0.00
5,200.0	9.27	315.32	5,145.3	491.6	-486.2	691.4	0.00	0.00	0.00



## HATHAWAYBURNHAM

### Planning Report

<b>Database:</b>	EDM 2003.21 Single User Db	<b>Local Co-ordinate Reference:</b>	Well R-24-8-16
<b>Company:</b>	NEWFIELD EXPLORATION	<b>TVD Reference:</b>	R-24-8-16 @ 5430.0ft (Original Well Elev)
<b>Project:</b>	USGS Myton SW (UT)	<b>MD Reference:</b>	R-24-8-16 @ 5430.0ft (Original Well Elev)
<b>Site:</b>	SECTION 24	<b>North Reference:</b>	True
<b>Well:</b>	R-24-8-16	<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	9.27	315.32	5,244.0	503.1	-497.5	707.5	0.00	0.00	0.00
5,400.0	9.27	315.32	5,342.7	514.5	-508.8	723.6	0.00	0.00	0.00
5,500.0	9.27	315.32	5,441.4	526.0	-520.1	739.7	0.00	0.00	0.00
5,600.0	9.27	315.32	5,540.1	537.4	-531.5	755.9	0.00	0.00	0.00
5,700.0	9.27	315.32	5,638.8	548.9	-542.8	772.0	0.00	0.00	0.00
5,800.0	9.27	315.32	5,737.5	560.4	-554.1	788.1	0.00	0.00	0.00
5,900.0	9.27	315.32	5,836.1	571.8	-565.5	804.2	0.00	0.00	0.00
6,000.0	9.27	315.32	5,934.8	583.3	-576.8	820.3	0.00	0.00	0.00
6,100.0	9.27	315.32	6,033.5	594.7	-588.1	836.4	0.00	0.00	0.00
6,200.0	9.27	315.32	6,132.2	606.2	-599.4	852.5	0.00	0.00	0.00
6,300.0	9.27	315.32	6,230.9	617.6	-610.8	868.6	0.00	0.00	0.00
6,400.0	9.27	315.32	6,329.6	629.1	-622.1	884.7	0.00	0.00	0.00
6,500.0	9.27	315.32	6,428.3	640.5	-633.4	900.9	0.00	0.00	0.00
6,600.0	9.27	315.32	6,527.0	652.0	-644.8	917.0	0.00	0.00	0.00
6,700.0	9.27	315.32	6,625.7	663.5	-656.1	933.1	0.00	0.00	0.00
6,714.5	9.27	315.32	6,640.0	665.1	-657.7	935.4	0.00	0.00	0.00

#### Targets

Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (ft)	Easting (ft)	Latitude	Longitude
R-24-8-16 TGT - hit/miss target - Shape	0.00	0.00	6,640.0	665.1	-657.7	7,208,258.68	2,041,026.53	40° 5' 59.033 N	110° 4' 4.104 W

NEWFIELD PRODUCTION COMPANY  
GREATER MONUMENT BUTTE R-24-8-16  
AT SURFACE: SW/SE SECTION 24, 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 – 1880'
Green River	1880'
Wasatch	6714'

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

Green River Formation 1880' – 6714' – Oil

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: Greater Monument Butte R-24-8-16**

Size	Interval		Weight	Grade	Coupling	Design Factors		
	Top	Bottom				Burst	Collapse	Tension
Surface casing 8-5/8"	0'	300'	24.0	J-55	STC	2,950	1,370	244,000
						17.53	14.35	33.89
Prod casing 5-1/2"	0'	6,714'	15.5	J-55	LTC	4,810	4,040	217,000
						2.25	1.89	2.09

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: Greater Monument Butte R-24-8-16**

Job	Fill	Description	Sacks	OH Excess*	Weight (ppg)	Yield (ft <sup>3</sup> /sk)
			ft <sup>3</sup>			
Surface casing	300'	Class G w/ 2% CaCl	138	30%	15.8	1.17
			161			
Prod casing Lead	4,714'	Prem Lite II w/ 10% gel + 3% KCl	326	30%	11.0	3.26
			1062			
Prod casing Tail	2,000'	50/50 Poz w/ 2% gel + 3% KCl	363	30%	14.3	1.24
			451			

- \*Actual volume pumped will be 15% over the caliper log
- Compressive strength of lead cement: 1800 psi @ 24 hours, 2250 psi @ 72 hours
- Compressive strength of tail cement: 2500 psi @ 24 hours

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

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

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

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

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

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

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

From surface to ±350 feet will be drilled with an air/mist system. The air rig is equipped with a 6 ½" blooie line that is straight run and securely anchored. The blooie line is used with a discharge less than 100 ft from the wellbore in order to minimize the well pad size. The blooie line is not equipped with an automatic igniter or continuous pilot light and the compressor is located less than 100 ft from the well bore due to the low possibility of combustion with the air dust mixture. The trailer mounted compressor (capacity of 2000 CFM) has a safety shut-off valve which is located 15 feet from the air rig. A truck with 70 bbls of water is on stand by to be used as kill fluid, if necessary. From about ±350 feet to TD, a fresh water system will be utilized. Clay inhibition and hole stability will be achieved with a KCl substitute additive. This additive will be identified in the APD and reviewed to determine if the reserve pit shall be lined. This fresh water system will typically contain Total Dissolved Solids (TDS) of less than 3000 PPM. Anticipated mud weight is 8.4 lbs/gal. If necessary to control formation fluids or pressure, the system will be weighted with the addition of bentonite gel, and if pressure conditions warrant, with barite

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

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

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

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

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

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

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

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

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

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

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

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

It is anticipated that the drilling operations will commence the third quarter of 2010, and take approximately seven (7) days from spud to rig release.

# 2-M SYSTEM

Blowout Prevention Equipment Systems

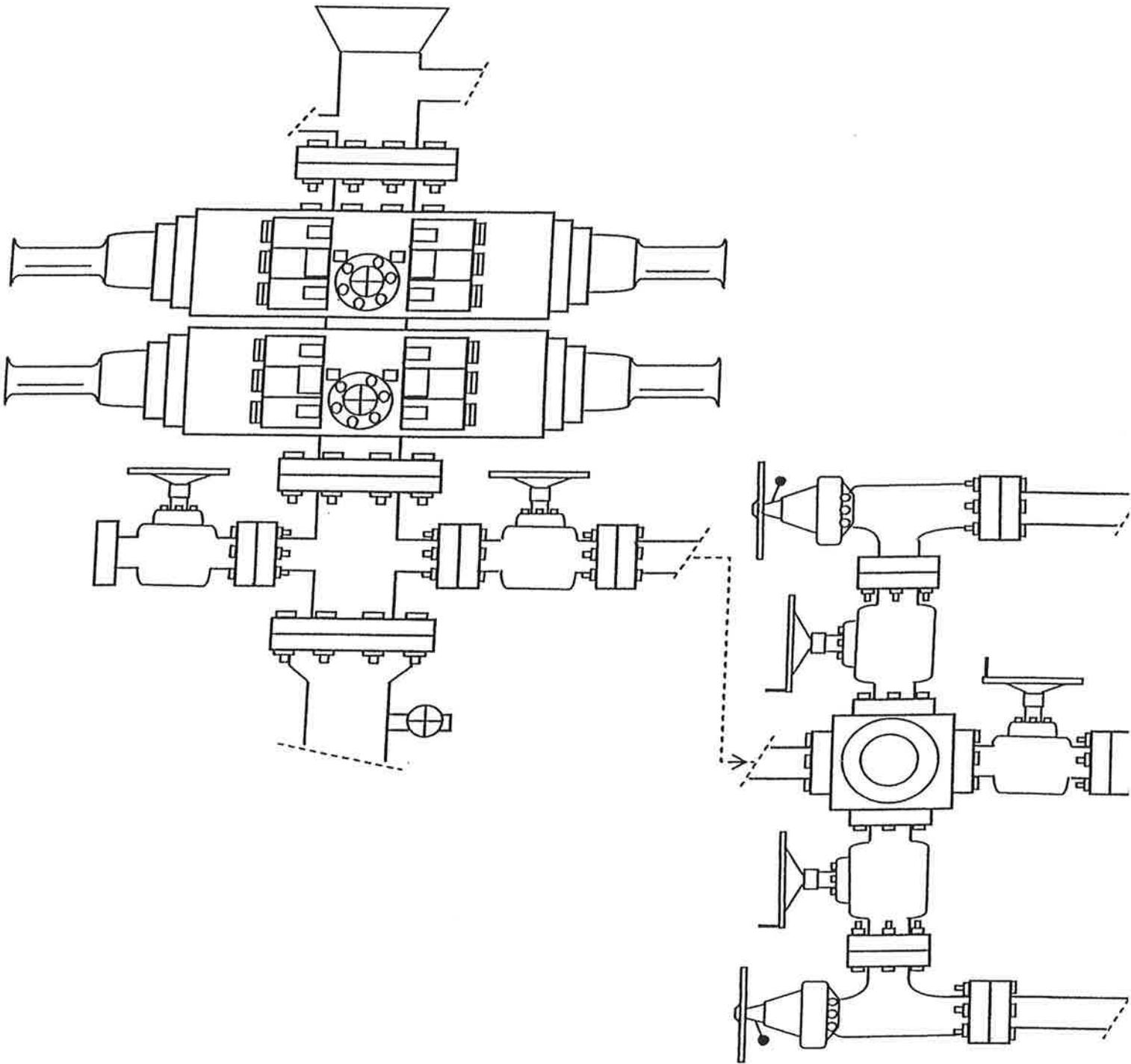
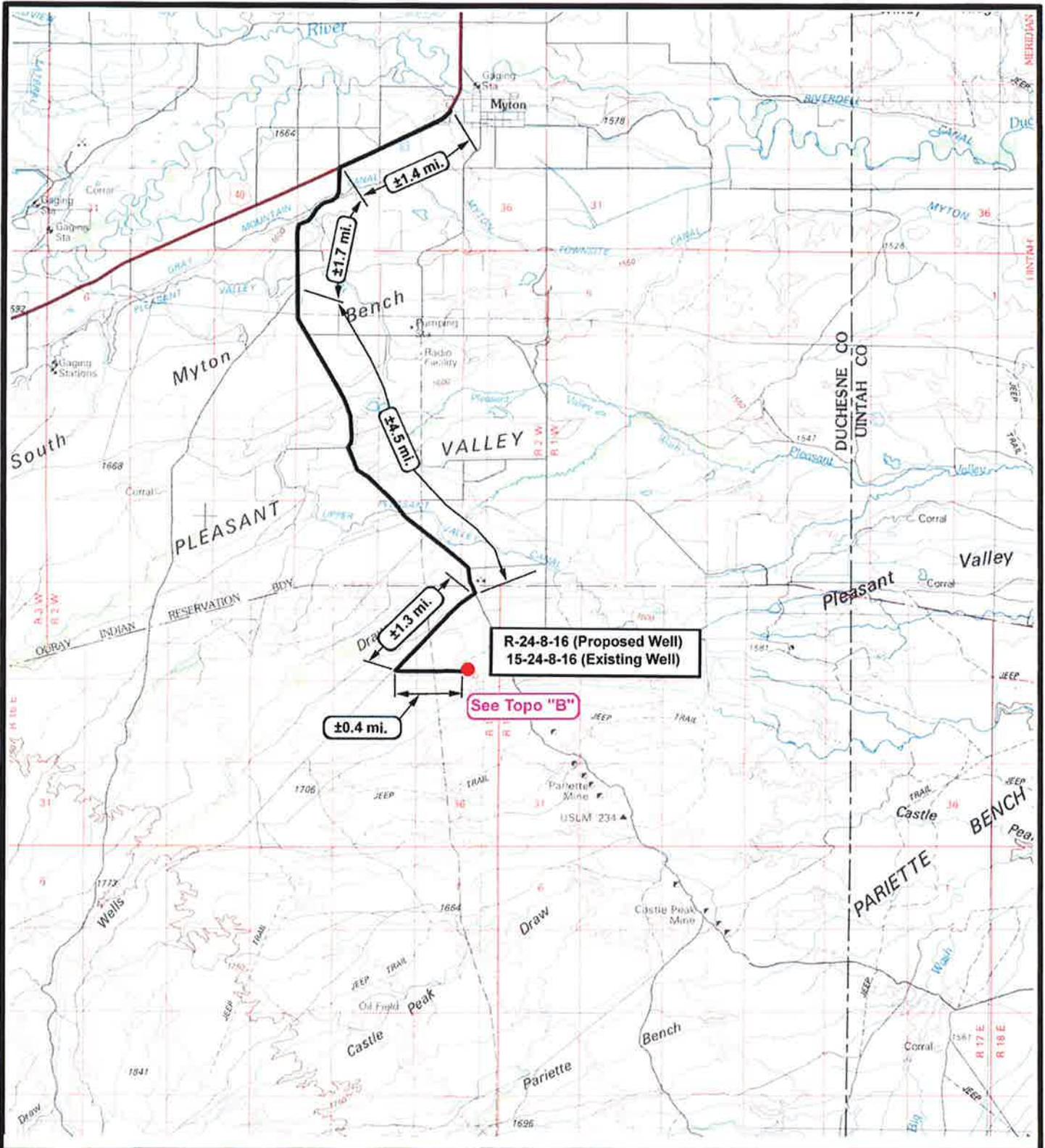


EXHIBIT C



**R-24-8-16 (Proposed Well)**  
**15-24-8-16 (Existing Well)**

See Topo "B"

**NEWFIELD**  
 Exploration Company

**R-24-8-16 (Proposed Well)**  
**15-24-8-16 (Existing Well)**  
 Pad Location: SWSE SEC. 24, T8S, R16E, S.L.B.&M.



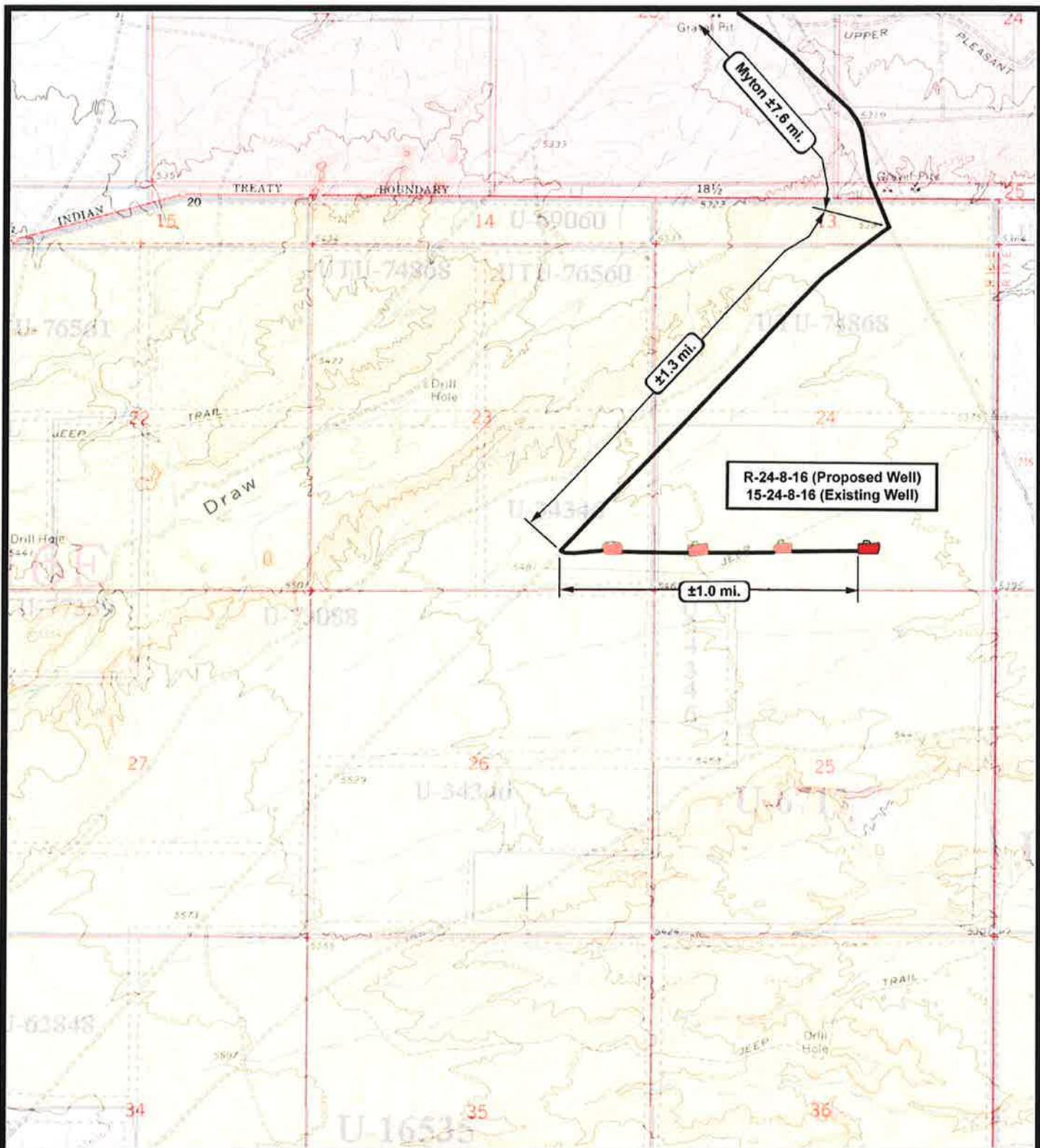
**Tri-State**  
 Land Surveying Inc.  
 (435) 781-2501  
 180 North Vernal Ave. Vernal, Utah 84078

**SCALE: 1 = 100,000**  
**DRAWN BY: mw**  
**DATE: 01-20-2010**

**Legend**

Existing Road

**TOPOGRAPHIC MAP**  
**"A"**



R-24-8-16 (Proposed Well)  
15-24-8-16 (Existing Well)



**NEWFIELD**  
Exploration Company

**R-24-8-16 (Proposed Well)**  
**15-24-8-16 (Existing Well)**  
Pad Location: SWSE SEC. 24, T8S, R16E, S.L.B.&M.



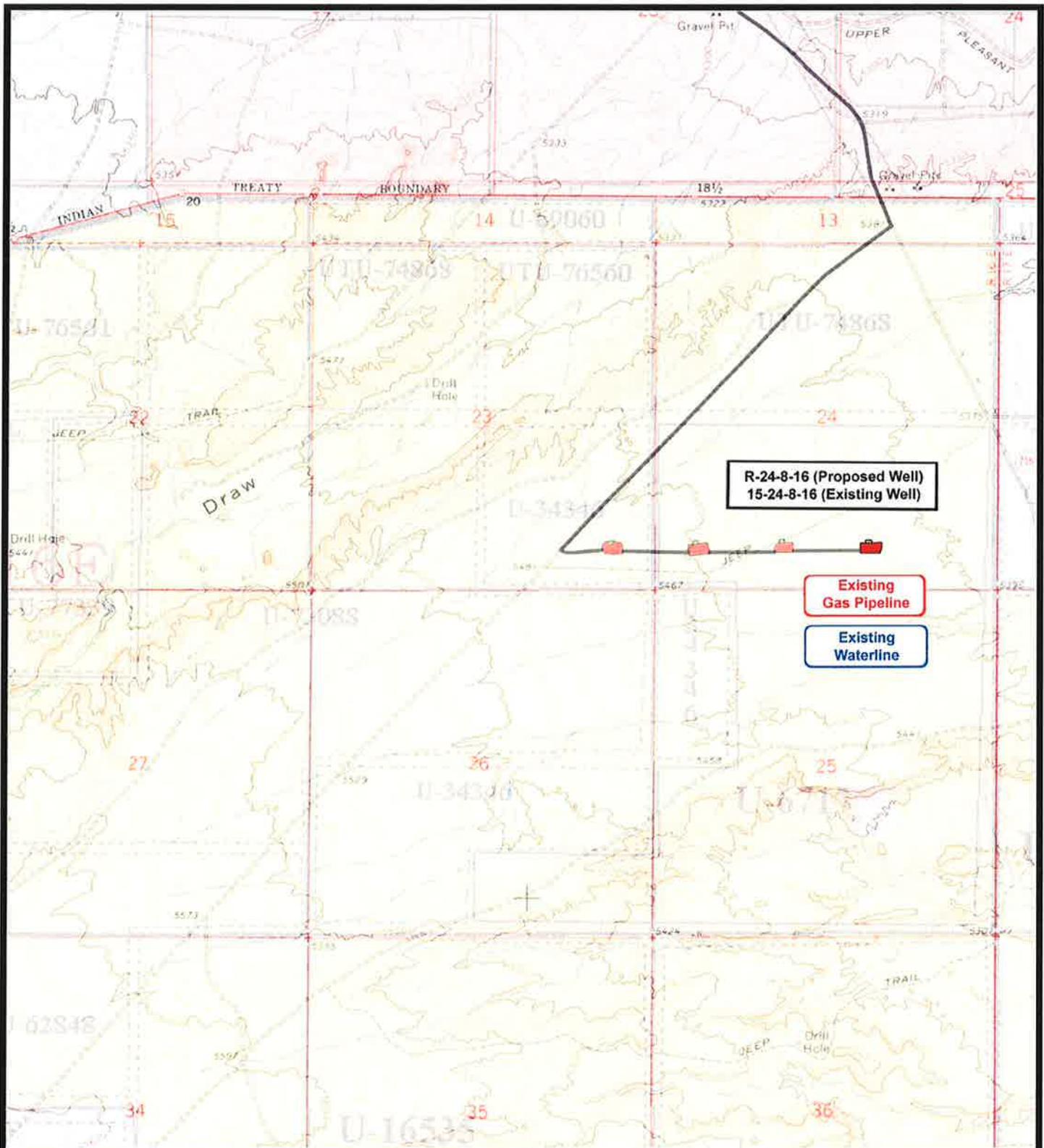

**Tri-State**  
Land Surveying Inc.  
(435) 781-2501  
180 North Vernal Ave. Vernal, Utah 84078

SCALE: 1" = 2,000'  
DRAWN BY: mw  
DATE: 01-20-2010

**Legend**

Existing Road

**TOPOGRAPHIC MAP**  
**"B"**

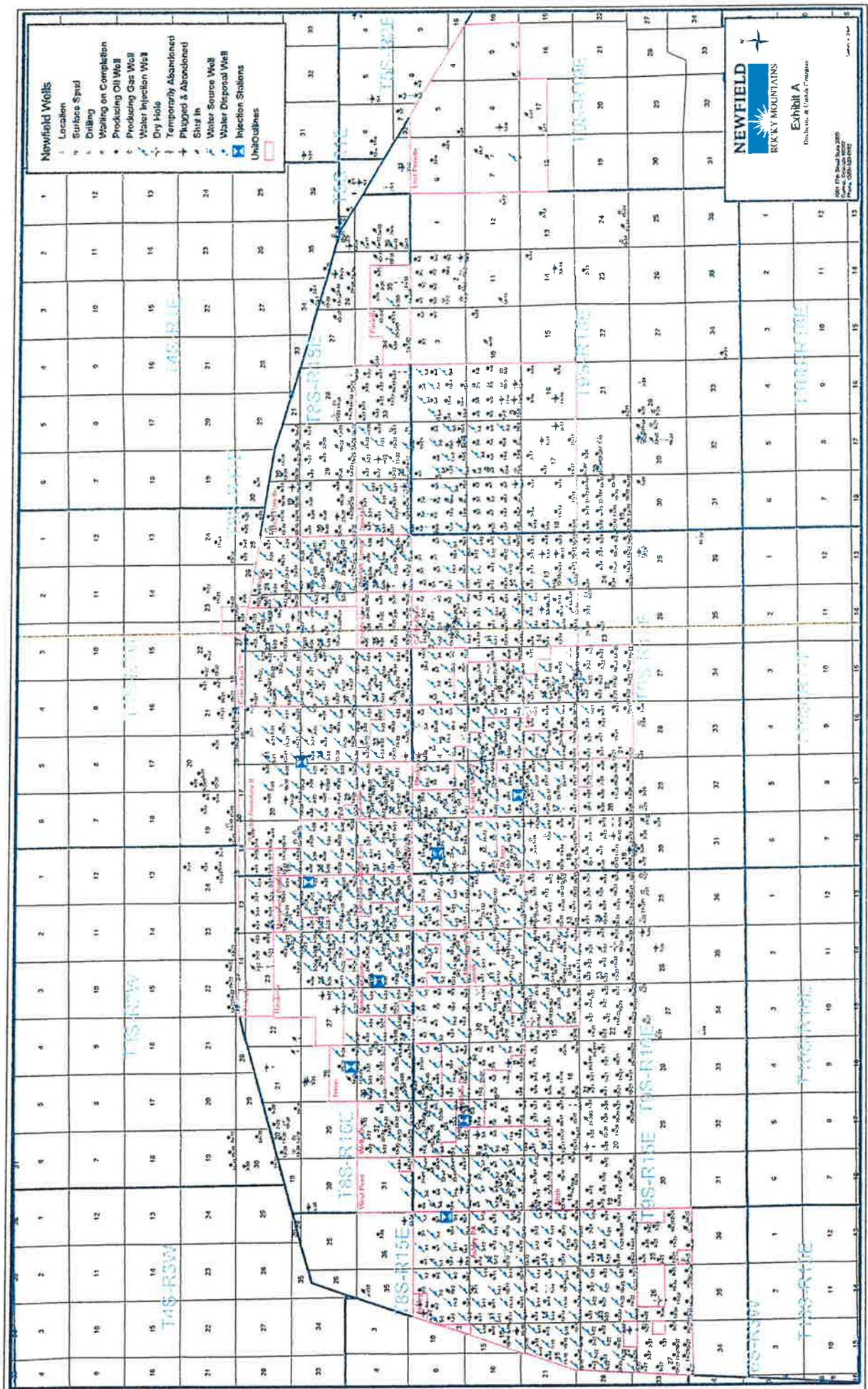


 <b>NEWFIELD</b> Exploration Company
<b>R-24-8-16 (Proposed Well)</b> <b>15-24-8-16 (Existing Well)</b> Pad Location: SWSE SEC. 24, T8S, R16E, S.L.B.&M.



 <b>Tri-State</b> Land Surveying Inc. (435) 781-2501 180 North Vernal Ave. Vernal, Utah 84078
<b>SCALE: 1" = 2,000'</b>
<b>DRAWN BY: mw</b>
<b>DATE: 01-20-2010</b>

<b>Legend</b>
— Roads
<b>TOPOGRAPHIC MAP</b>
<b>"C"</b>



- Newfield Wells**
- 1 Location
  - 2 Surface Spud
  - 3 Drilling
  - 4 Working on Completion
  - 5 Producing Oil Well
  - 6 Water Injection Well
  - 7 Dry Hole
  - 8 Temporarily Abandoned
  - 9 Plugged & Abandoned
  - 10 Shut In
  - 11 Water Source Well
  - 12 Water Disposal Well
  - 13 Injection Stations
  - 14 Unidentified

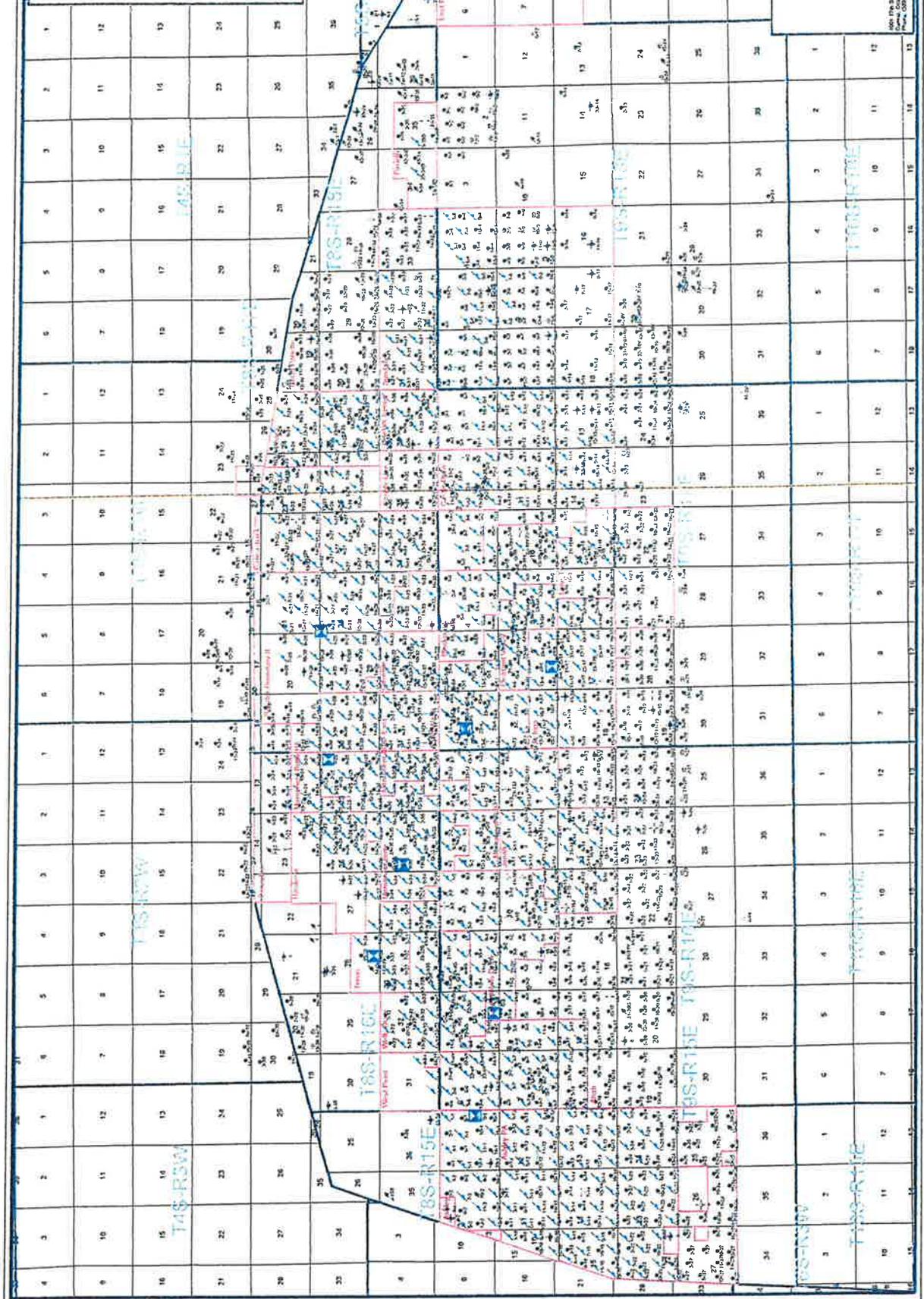
**NEWFIELD**  
RICKY MOUNTAINS

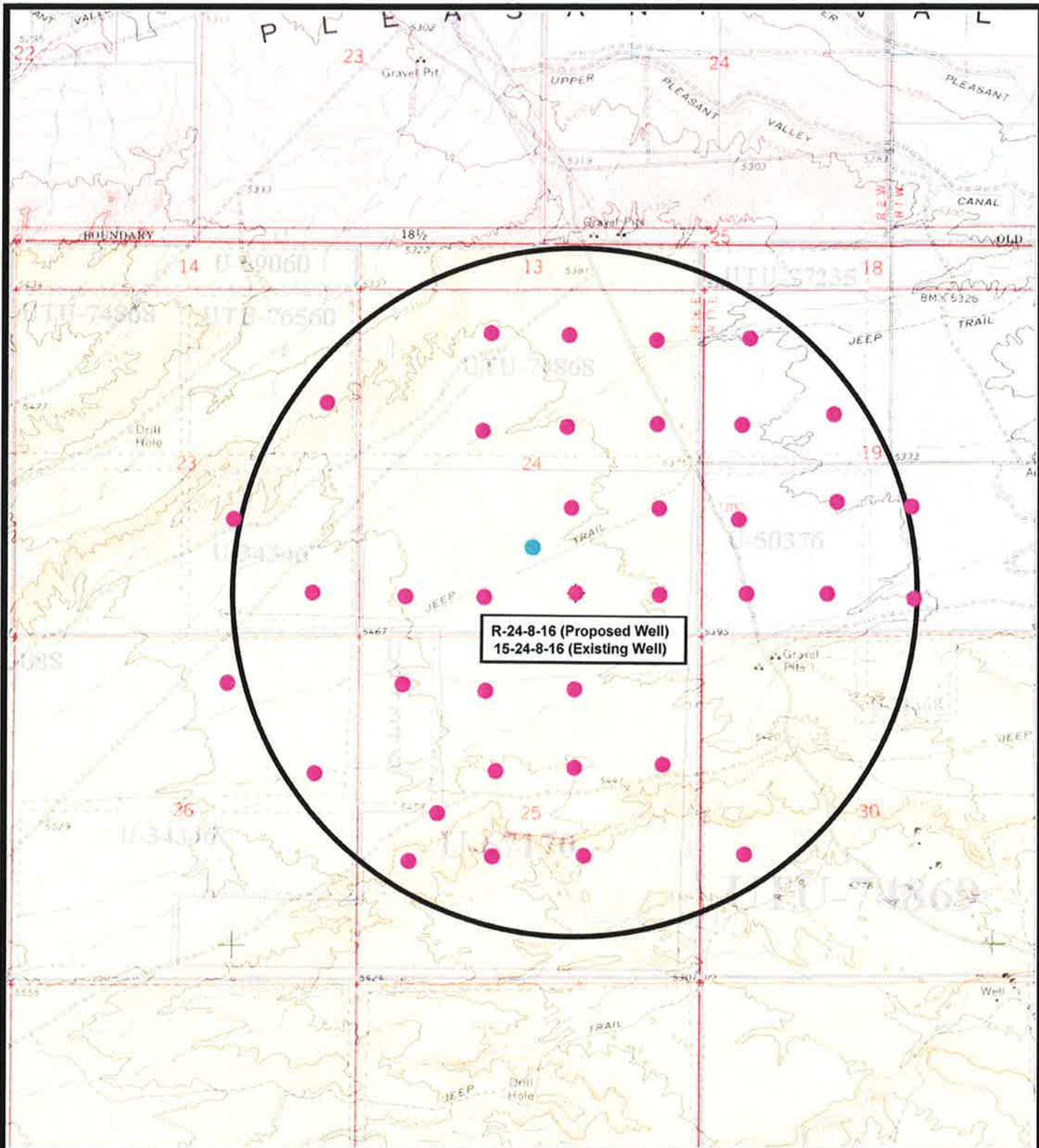
Exhibit A

Disclosures & Land Credits

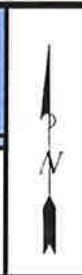
4000 E. 1st Street, Suite 200  
P.O. Box 1000  
Newfield, CO 81657

Scale: 1" = 200'





**R-24-8-16 (Proposed Well)**  
**15-24-8-16 (Existing Well)**  
Pad Location: SWSE SEC. 24, T8S, R16E, S.L.B.&M.



**Tri-State**  
*Land Surveying Inc.*  
(435) 781-2501  
180 North Vernal Ave. Vernal, Utah 84078

**SCALE: 1" = 2,000'**  
**DRAWN BY: mw**  
**DATE: 01-20-2010**

**Legend**

- Pad Location
- Bottom Hole Location
- One-Mile Radius

**Exhibit "B"**

**NEWFIELD PRODUCTION COMPANY  
GREATER MONUMENT BUTTE R-24-8-16  
AT SURFACE: SW/SE SECTION 24, 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 Greater Monument Butte R-24-8-16 located in the SW 1/4 SE 1/4 Section 24, 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 southeasterly - 6.2 miles  $\pm$  to its junction with an existing dirt road to the southwest; proceed southwesterly - 1.3 miles  $\pm$  to its junction with an existing road to the east; proceed easterly - 0.4 miles  $\pm$  to the access road to the existing 15-24-8-16 well location.

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

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

**2. PLANNED ACCESS ROAD**

There is no proposed access road for this location. The proposed well will be drilled off of the existing 15-24-8-16 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.

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

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

Tank batteries will be built to State specifications.

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

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

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

Johnson Water District  
Water Right : 43-7478

Neil Moon Pond  
Water Right: 43-11787

Maurice Harvey Pond  
Water Right: 47-1358

Newfield Collector Well  
Water Right: 41-3530 (A30414DV, contracted with the Duchesne County Conservancy District).

Please refer to the Monument Butte Field SOP. See Exhibit "A".

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.

Immediately upon first production, all produced water will be confined to a steel storage tank. If the production water meets quality guidelines, it is transported to the Ashley, Monument Butte, Jonah, 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, is disposed at Newfield's Pariette #4 disposal well (Sec. 7, T9S R19E), State of Utah approved surface disposal facilities, or Federally approved surface disposal facilities.

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** – Bureau of Land Management.

12. **OTHER ADDITIONAL INFORMATION**

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.

- a) 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.
- b) 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.

The Archaeological Resource Survey and Paleontological Resource Survey for this area are attached. MOAC Report #09-208, 12/9/09. Paleontological Resource Survey prepared by, Wade E. Miller, 10/31/09. See attached report cover pages, Exhibit "D".

#### **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 Greater Monument Butte R-24-8-16, 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 Greater Monument Butte R-24-8-16, 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.

The State office shall be notified upon site completion prior to moving on the drilling rig.

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 #R-24-8-16, Duchesne County, Utah and is responsible under the terms and conditions of the lease for the operations conducted upon the leased lands. Bond coverage is provided by, Federal Bond #WYB000493.

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

3/11/10  
Date

  
Mandie Crozier  
Regulatory Specialist  
Newfield Production Company

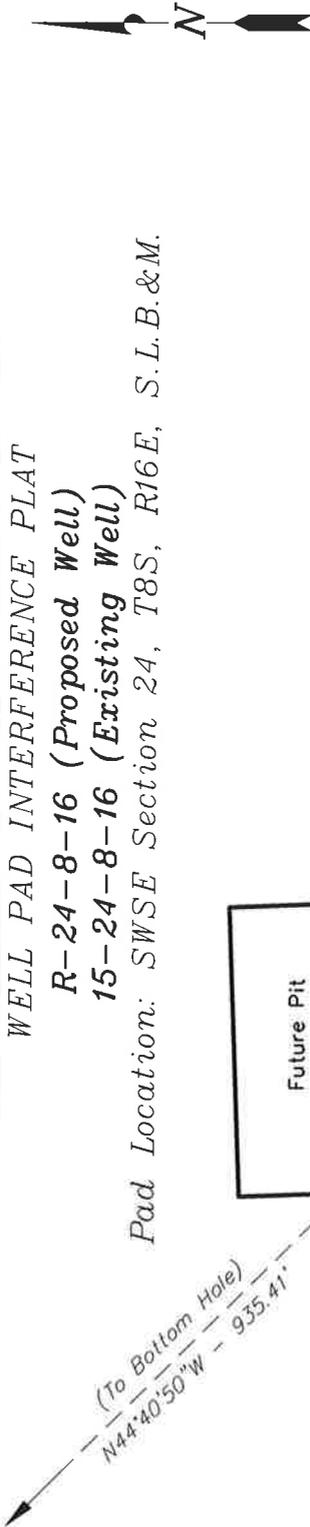
# NEWFIELD PRODUCTION COMPANY

## WELL PAD INTERFERENCE PLAT

R-24-8-16 (Proposed Well)

15-24-8-16 (Existing Well)

Pad Location: SWSE Section 24, T8S, R16E, S.L.B.&M.



**TOP HOLE FOOTAGES**

R-24-8-16 (PROPOSED)  
644' FSL & 1993' FEL

**BOTTOM HOLE FOOTAGES**

R-24-8-16 (PROPOSED)  
1320' FSL & 2640' FEL

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

RELATIVE COORDINATES		
From top hole to bottom hole		
WELL	NORTH	EAST
R-24-8-16	665'	-658'

LATITUDE & LONGITUDE		
Surface position of Wells (NAD 83)		
WELL	LATITUDE	LONGITUDE
R-24-8-16	40° 05' 52.46"	110° 03' 55.64"
15-24-8-16	40° 05' 52.61"	110° 03' 55.45"

**Tri State**  
Land Surveying, Inc.  
180 NORTH VERNAL AVE.  
VERNAL, UTAH 84078  
(435) 787-2501

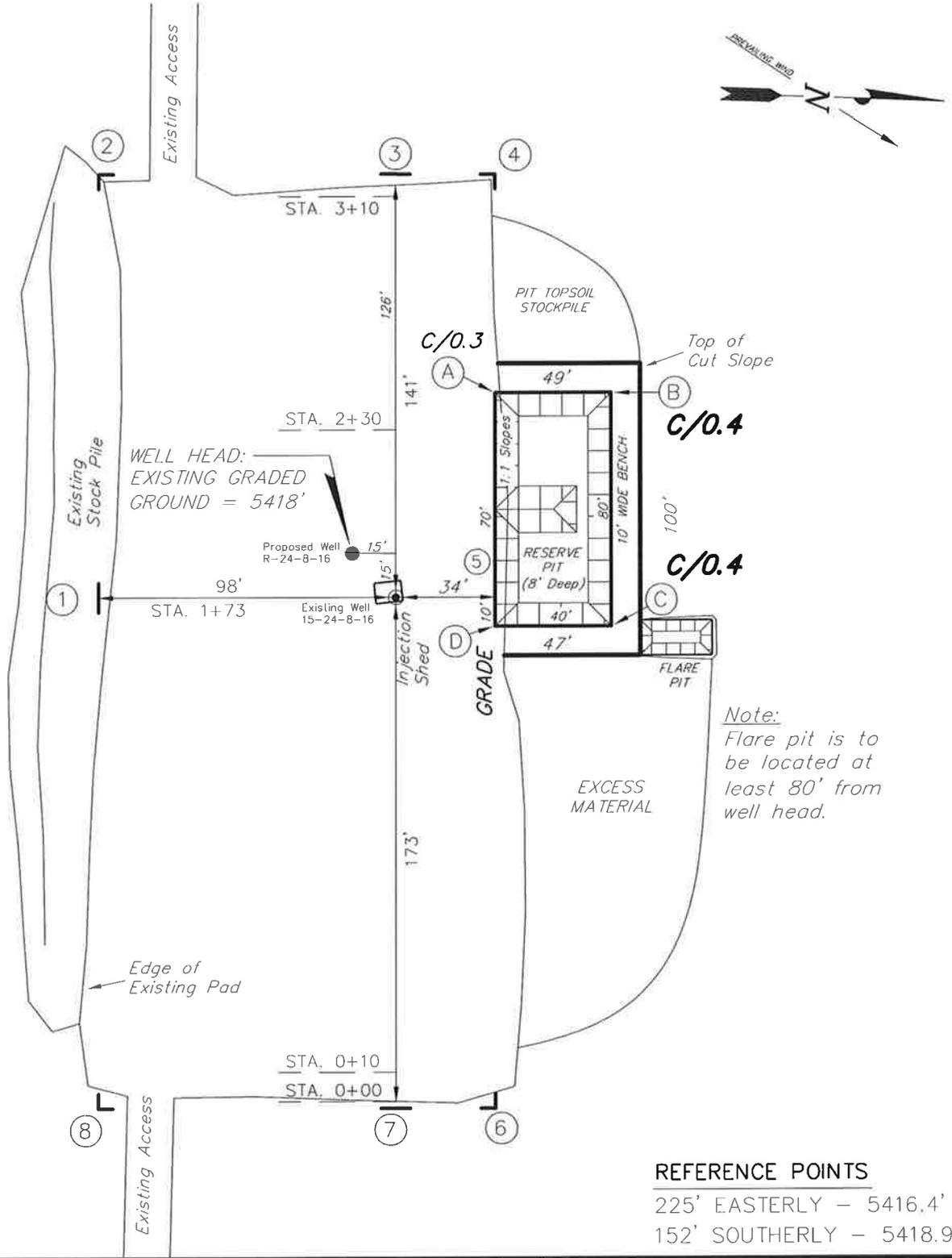
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DRAWN BY: F.T.M.	DATE DRAWN: 10-07-09
SCALE: 1" = 50'	REVISED: M.W. - 01-20-10

# NEWFIELD PRODUCTION COMPANY

*R-24-8-16 (Proposed Well)*

*15-24-8-16 (Existing Well)*

*Pad Location: SWSE Section 24, T8S, R16E, S.L.B.&M.*



*Note:  
Flare pit is to  
be located at  
least 80' from  
well head.*

**REFERENCE POINTS**  
225' EASTERLY - 5416.4'  
152' SOUTHERLY - 5418.9'

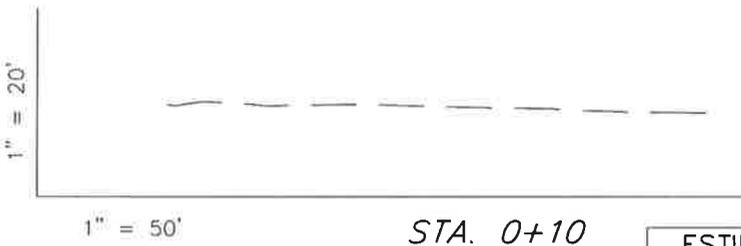
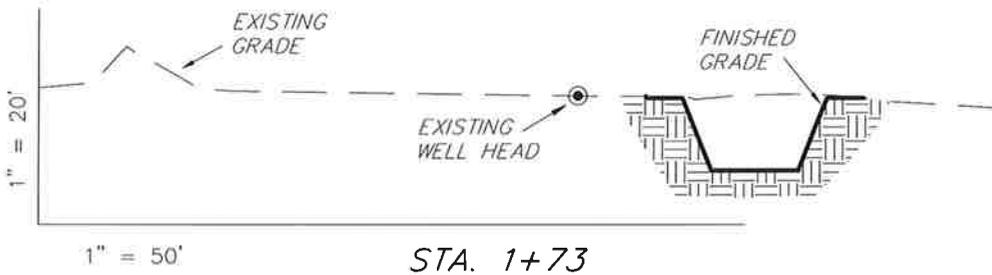
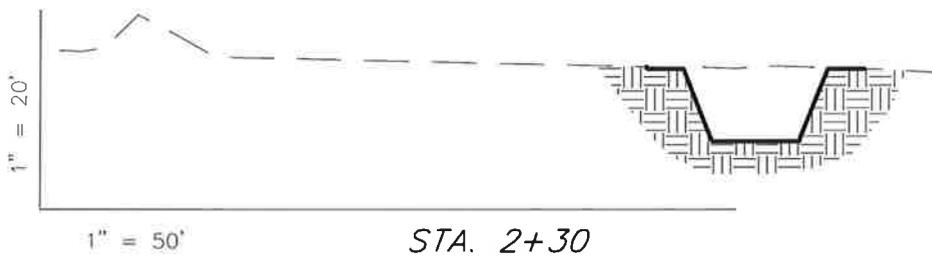
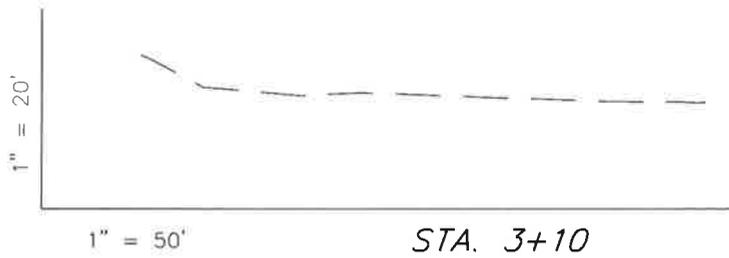
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DRAWN BY: F.T.M.	DATE DRAWN: 10-07-09
SCALE: 1" = 50'	REVISED: M.W. - 01-20-10

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

# NEWFIELD PRODUCTION COMPANY

## CROSS SECTIONS

*R-24-8-16 (Proposed Well)*  
*15-24-8-16 (Existing Well)*



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

ESTIMATED EARTHWORK QUANTITIES (No Shrink or swell adjustments have been used) (Expressed in Cubic Yards)				
ITEM	CUT	FILL	6" TOPSOIL	EXCESS
PAD	0	10	Topsoil is not included in Pad Cut	-10
PIT	570	0		570
TOTALS	570	10	120	560

SURVEYED BY: T.P.	DATE SURVEYED: 08-14-09
DRAWN BY: F.T.M.	DATE DRAWN: 10-07-09
SCALE: 1" = 50'	REVISED: M.W. - 01-20-10

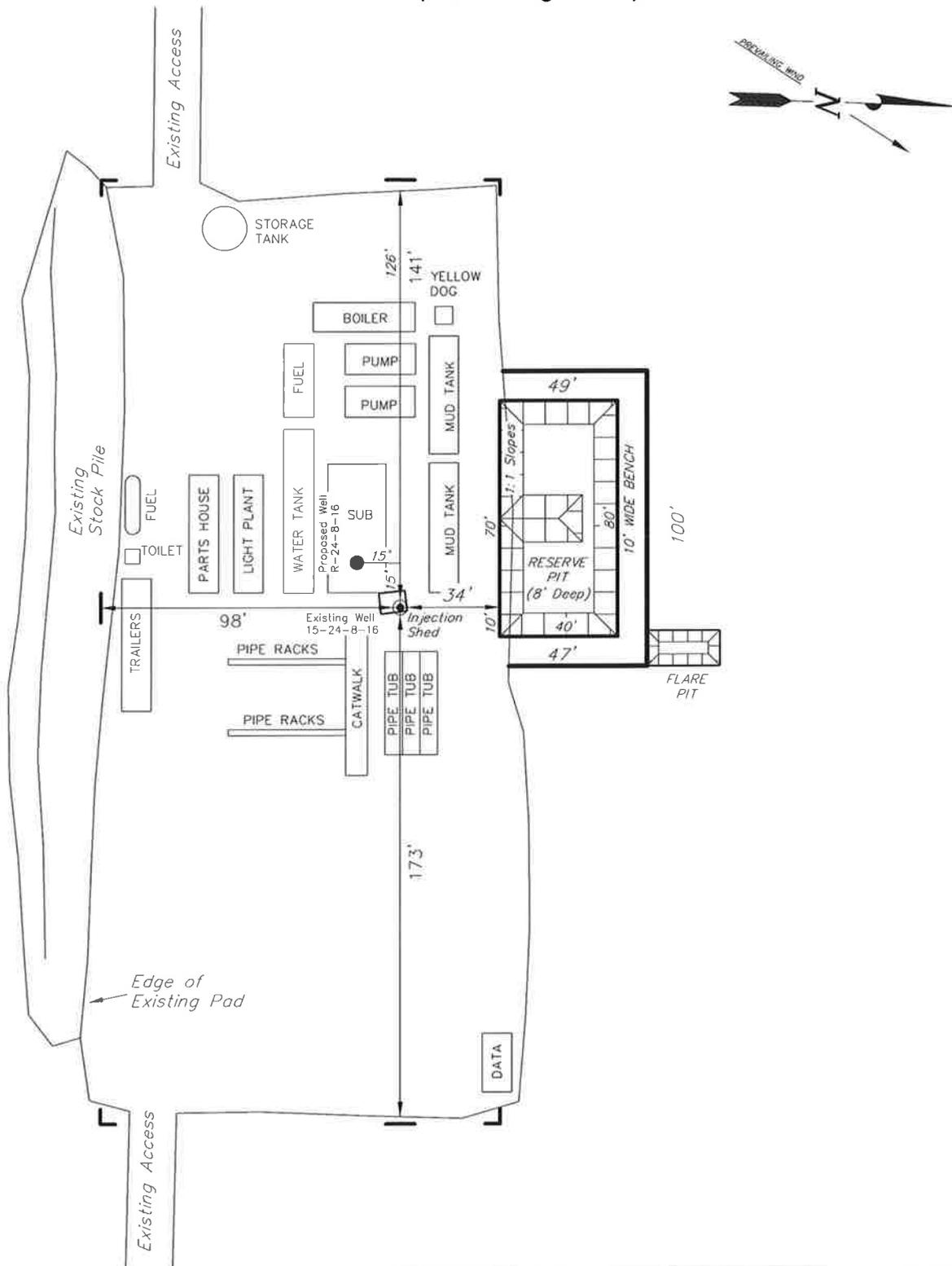
*Tri State* (435) 781-2501  
*Land Surveying, Inc.*  
 180 NORTH VERNAL AVE. VERNAL, UTAH 84078

# NEWFIELD PRODUCTION COMPANY

## TYPICAL RIG LAYOUT

R-24-8-16 (Proposed Well)

15-24-8-16 (Existing Well)



SURVEYED BY: T.P.	DATE SURVEYED: 08-14-09
DRAWN BY: F.T.M.	DATE DRAWN: 10-07-09
SCALE: 1" = 50'	REVISED: M.W. - 01-20-10

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

# Newfield Production Company Proposed Site Facility Diagram

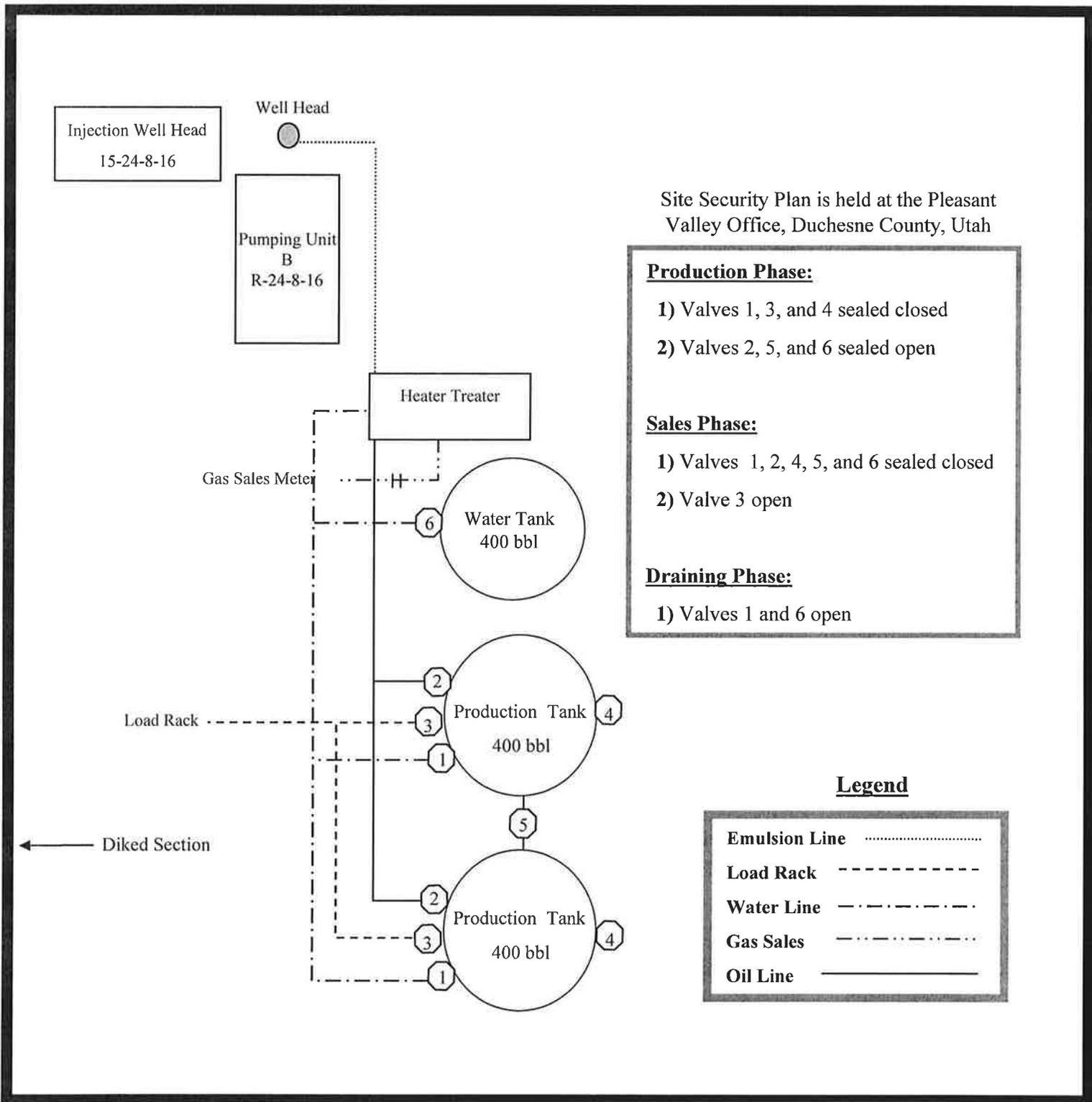
Greater Monument Butte R-24-8-16

From the 15-24-8-16 Location

SW/SE Sec. 24 T8S, R16E

Duchesne County, Utah

UTU-67170



R-24-8-16

Exhibit "D"

1 of 2

CULTURAL RESOURCE INVENTORY OF  
NEWFIELD EXPLORATION'S 26 PROPOSED  
WELL LOCATIONS NEAR WELLS DRAW  
(T8S R16 SEC. 23, 24, 25, 26, 27, 34, 35 36 AND  
T9S R16E SEC. 1, 2, 5)  
DUCHESNE COUNTY, UTAH

By:

Patricia Stavish

Prepared For:

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

Prepared Under Contract With:

Newfield Exploration Company  
Rt. 3 Box 3630  
Myton, UT 84052

Prepared By:

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

MOAC Report No. 09-208

December 9, 2009

United States Department of Interior (FLPMA)  
Permit No. 09-UT-60122

State of Utah Public Lands Policy  
Archaeological Survey Permit No. 117

State of Utah Antiquities Project (Survey)  
Permit No. U-09-MQ-0732bs

**NEWFIELD EXPLORATION COMPANY**

**PALEONTOLOGICAL SURVEY OF PROPOSED  
PRODUCTION DEVELOPMENT AREAS,  
AND PROPOSED PIPELINE ROUTES  
DUCHESNE COUNTY, UTAH**

**Area Survey**

NW 1/4, SE 1/4 Section 7, T 9 S, R 18 E (10-7-9-18)

**Proposed Directional Wells Survey**

(All sections reported are in one of the following Townships and Ranges: T 8 & 9 S, R 16, 17 & 18 E), and are for existing wells. Proposed wells are found under "Report of Areas Surveyed."

11-6-9-17, 31-1-9-16, 4-1-9-16, 5-1-9-16, 8-2-9-16, 1-14-9-16, 10-35-8-16, 15-34-8-16, 2A-35-8-16, 1A-35-8-16, 13-25-8-16, 8-5-9-16, 16-27-8-16, 11-25-8-16, 12-30-8-17, 12-25-8-16, 10-26-8-16, 15-24-8-16, 14-23-8-16

**Water Pipeline Tie-Ins Survey**

SE 1/4, NE 1/4 Section 2, T 9 S, R 16 E (8-2-9-16); SW 1/4, SW 1/4 Section 1, T 9 S, R 16 E (1-14-9-16); SE 1/4, SE 1/4, Section 27, T 8 S, R 16 E (16-27-8-16); SE 1/4, SW 1/4, Section 23, T 8 S, R 16 E (14-23-8-16)

**REPORT OF SURVEY**

Prepared for:

**Newfield Exploration Company**

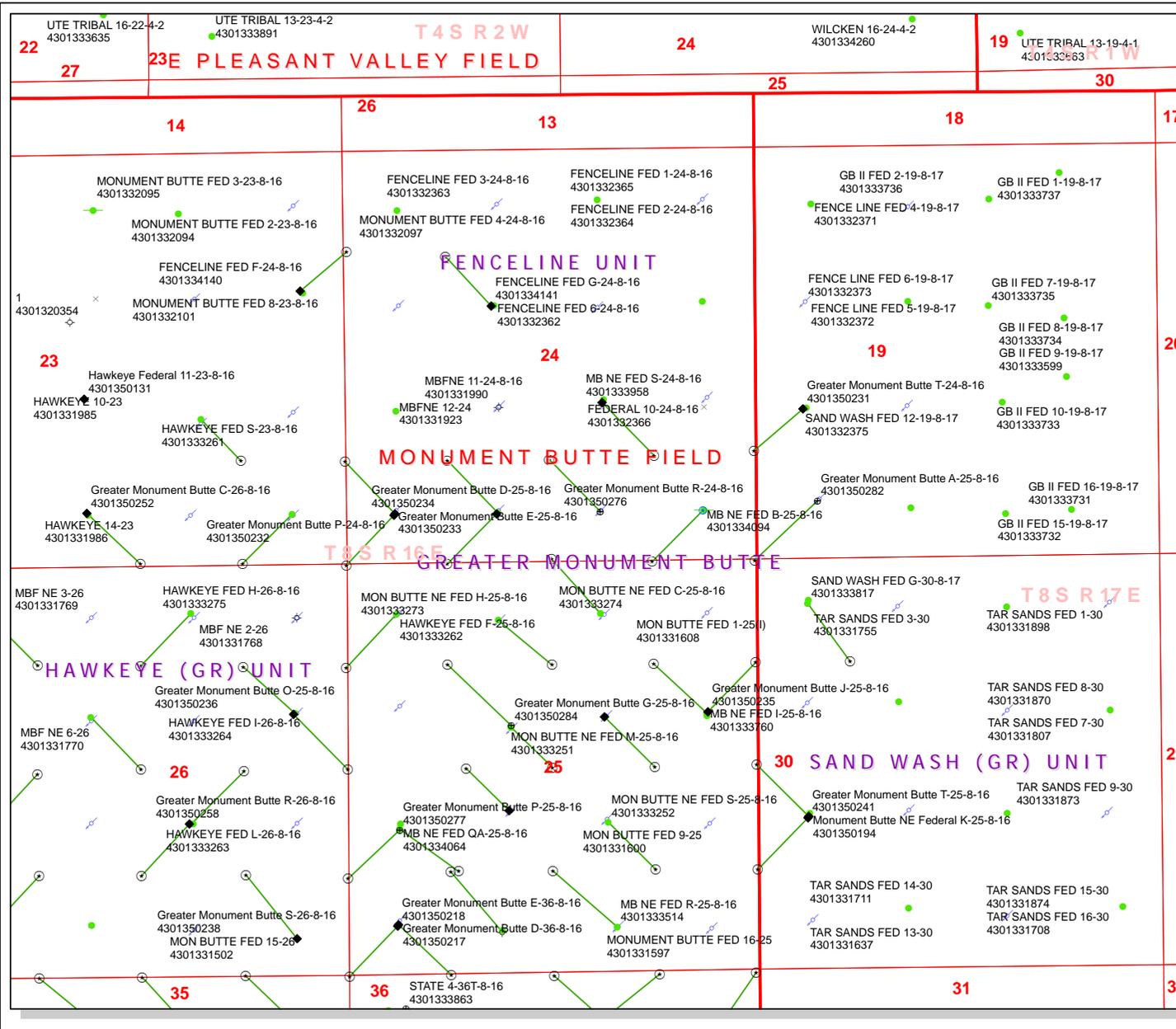
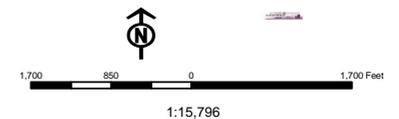
Prepared by:

Wade E. Miller  
Consulting Paleontologist  
October 31, 2009

**API Number: 4301350276**  
**Well Name: Greater Monument Butte R-24-8-16**  
**Township 08.0 S Range 16.0 E Section 24**  
**Meridian: SLBM**  
**Operator: NEWFIELD PRODUCTION COMPANY**

Map Prepared:  
 Map Produced by Diana Mason

<b>Units</b>	<b>Wells Query</b>
<ul style="list-style-type: none"> <li><span style="border: 1px solid black; display: inline-block; width: 10px; height: 10px; margin-right: 5px;"></span> ACTIVE</li> <li><span style="border: 1px dashed black; display: inline-block; width: 10px; height: 10px; margin-right: 5px;"></span> EXPLORATORY</li> <li><span style="border: 1px solid black; display: inline-block; width: 10px; height: 10px; margin-right: 5px;"></span> GAS STORAGE</li> <li><span style="border: 1px solid black; display: inline-block; width: 10px; height: 10px; margin-right: 5px;"></span> NF PP OIL</li> <li><span style="border: 1px solid black; display: inline-block; width: 10px; height: 10px; margin-right: 5px;"></span> NF SECONDARY</li> <li><span style="border: 1px solid black; display: inline-block; width: 10px; height: 10px; margin-right: 5px;"></span> PI OIL</li> <li><span style="border: 1px solid black; display: inline-block; width: 10px; height: 10px; margin-right: 5px;"></span> PP GAS</li> <li><span style="border: 1px solid black; display: inline-block; width: 10px; height: 10px; margin-right: 5px;"></span> PP GEOTHERM.</li> <li><span style="border: 1px solid black; display: inline-block; width: 10px; height: 10px; margin-right: 5px;"></span> PP OIL</li> <li><span style="border: 1px solid black; display: inline-block; width: 10px; height: 10px; margin-right: 5px;"></span> SECONDARY</li> <li><span style="border: 1px solid black; display: inline-block; width: 10px; height: 10px; margin-right: 5px;"></span> TERMINATED</li> </ul>	<ul style="list-style-type: none"> <li><span style="color: red;">x</span> - all other values</li> <li><b>Status</b></li> <li><span style="color: green;">◆</span> APD - Approved Permit</li> <li><span style="color: blue;">○</span> DRL - Spudded (Drilling Commenced)</li> <li><span style="color: red;">+</span> GW - Gas Injection</li> <li><span style="color: blue;">*</span> GS - Gas Storage</li> <li><span style="color: red;">x</span> LA - Location Abandoned</li> <li><span style="color: blue;">+</span> LOC - New Location</li> <li><span style="color: red;">+</span> OPS - Operation Suspended</li> <li><span style="color: blue;">+</span> PA - Plugged Abandoned</li> <li><span style="color: red;">+</span> PGW - Producing Gas Well</li> <li><span style="color: blue;">+</span> POW - Producing Oil Well</li> <li><span style="color: red;">+</span> RET - Returned APD</li> <li><span style="color: blue;">+</span> SGW - Shut-in Gas Well</li> <li><span style="color: red;">+</span> SOW - Shut-in Oil Well</li> <li><span style="color: blue;">+</span> TA - Temp. Abandoned</li> <li><span style="color: red;">+</span> TW - Test Well</li> <li><span style="color: blue;">+</span> WDW - Water Disposal</li> <li><span style="color: red;">+</span> WWI - Water Injection Well</li> <li><span style="color: blue;">+</span> WSW - Water Supply Well</li> </ul>
<b>Fields</b>	
<span style="border: 1px solid black; display: inline-block; width: 10px; height: 10px; margin-right: 5px;"></span> Sections	
<span style="border: 2px solid red; display: inline-block; width: 10px; height: 10px; margin-right: 5px;"></span> Township	





March 12, 2010

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

2477

RE: Directional Drilling  
**Greater Monument Butte R-24-8-16**  
Greater Monument Butte (Green River) Unit

Surface Hole: T8S-R16E Section 24: SWSE (UTU-67170)  
644' FSL 1993' FEL

At Target: T8S-R16E Section 24: SWSE (UTU-67170)  
1320' FSL 2640' 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 3/11/10, 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 "Shane Gillespie".

Shane Gillespie  
Land Associate

RECEIVED

MAR 16 2010

DIV. OF OIL, GAS & MINING

# 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, 2010

Memorandum

To: Assistant District Manager Minerals, Vernal District

From: Michael Coulthard, Petroleum Engineer

Subject: 2010 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 2010 within the Greater Monument Butte Unit, Duchesne and Uintah Counties, Utah.

API#	WELL NAME	LOCATION
(Proposed PZ GREEN RIVER)		
43-013-50276	GMBU R-24-8-16	Sec 24 T08S R16E 0644 FSL 1993 FEL BHL Sec 24 T08S R16E 1320 FSL 2640 FEL
43-013-50277	GMBU P-25-8-16	Sec 25 T08S R16E 1858 FSL 0670 FWL BHL Sec 25 T08S R16E 1245 FSL 0000 FWL
43-013-50278	GMBU Q-34-8-16	Sec 34 T08S R16E 0713 FSL 1968 FWL BHL Sec 34 T08S R16E 1320 FSL 1358 FWL
43-013-50279	GMBU S-11-9-16	Sec 11 T09S R16E 1992 FSL 2015 FEL BHL Sec 11 T09S R16E 1330 FSL 1370 FEL
43-013-50280	GMBU A-1-9-16	Sec 06 T09S R17E 1100 FNL 0979 FWL BHL Sec 01 T09S R16E 0038 FNL 0075 FEL
43-013-50281	GMBU B-3-9-16	Sec 34 T08S R16E 0632 FSL 0692 FEL BHL Sec 03 T09S R16E 0010 FNL 1325 FEL
43-013-50282	GMBU A-25-8-16	Sec 19 T08S R17E 0742 FSL 0803 FWL BHL Sec 25 T08S R16E 0010 FNL 0010 FEL
43-013-50283	GMBU A-10-9-16	Sec 03 T09S R16E 0666 FSL 0675 FEL BHL Sec 10 T09S R16E 0010 FNL 0010 FEL

API#	WELL NAME	LOCATION
(Proposed PZ GREEN RIVER)		
43-013-50284	GMBU G-25-8-16	Sec 25 T08S R16E 2095 FNL 2111 FWL BHL Sec 25 T08S R16E 1301 FNL 1301 FWL
43-013-50285	GMBU E-2-9-16	Sec 34 T08S R16E 0645 FSL 0675 FEL BHL Sec 02 T09S R16E 0010 FNL 0010 FWL

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

/s/ Michael L. Coulthard

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

MCoulthard:mc:3-22-10

# WORKSHEET APPLICATION FOR PERMIT TO DRILL

**APD RECEIVED:** 3/12/2010

**API NO. ASSIGNED:** 43013502760000

**WELL NAME:** Greater Monument Butte R-24-8-16

**OPERATOR:** NEWFIELD PRODUCTION COMPANY (N2695)

**PHONE NUMBER:** 435 646-4825

**CONTACT:** Mandie Crozier

**PROPOSED LOCATION:** SWSE 24 080S 160E

**Permit Tech Review:**

**SURFACE:** 0644 FSL 1993 FEL

**Engineering Review:**

**BOTTOM:** 1320 FSL 2640 FEL

**Geology Review:**

**COUNTY:** DUCHESNE

**LATITUDE:** 40.09790

**LONGITUDE:** -110.06469

**UTM SURF EASTINGS:** 579727.00

**NORTHINGS:** 4438832.00

**FIELD NAME:** MONUMENT BUTTE

**LEASE TYPE:** 1 - Federal

**LEASE NUMBER:** UTU-67170

**PROPOSED PRODUCING FORMATION(S):** GREEN RIVER

**SURFACE OWNER:** 1 - Federal

**COALBED METHANE:** NO

## RECEIVED AND/OR REVIEWED:

- PLAT**
- Bond:** FEDERAL - WYB000493
- Potash**
- Oil Shale 190-5**
- Oil Shale 190-3**
- Oil Shale 190-13**
- Water Permit:** 43-7478
- RDCC Review:**
- Fee Surface Agreement**
- Intent to Commingle**

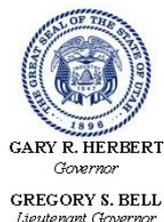
**Commingle Approved**

## 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:** 4 - Federal Approval - dmason  
15 - Directional - dmason  
27 - Other - Bhill



# 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:** Greater Monument Butte R-24-8-16  
**API Well Number:** 43013502760000  
**Lease Number:** UTU-67170  
**Surface Owner:** FEDERAL  
**Approval Date:** 3/25/2010

**Issued to:**

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

**Authority:**

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

**Duration:**

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

**General:**

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

**Conditions of Approval:**

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

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

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

**Notification Requirements:**

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

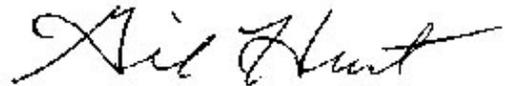
- Within 24 hours following the spudding of the well – contact Carol Daniels at 801-538-5284 (please leave a voicemail message if not available)  
OR  
submit an electronic sundry notice (pre-registration required) via the Utah Oil & Gas website at <https://oilgas.ogm.utah.gov>

**Reporting Requirements:**

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

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

**Approved By:**

A handwritten signature in black ink, appearing to read "Gil Hunt". The signature is fluid and cursive, with a long horizontal stroke extending to the right.

Gil Hunt  
Associate Director, Oil & Gas

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

**APPLICATION FOR PERMIT TO DRILL OR REENTER**

5a. Type of work: <input checked="" type="checkbox"/> DRILL <input type="checkbox"/> REENTER		5. Lease Serial No. UTU-67170
5b. Type of Well: <input checked="" type="checkbox"/> Oil Well <input type="checkbox"/> Gas Well <input type="checkbox"/> Other <input checked="" type="checkbox"/> Single Zone <input type="checkbox"/> Multiple Zone		6. If Indian, Allottee or Tribe Name NA
2. Name of Operator Newfield Production Company		7. If Unit or CA Agreement, Name and No. Greater Monument Butte
3a. Address Route #3 Box 3630, Myton UT 84052		8. Lease Name and Well No. Greater Monument Butte R-24-8-16
3b. Phone No. (include area code) (435) 646-3721		9. API Well No. 43-013-50276
4. Location of Well (Report location clearly and in accordance with any State requirements.)* At surface SW/SE 644' FSL 1993' FEL Sec. 24, T8S R16E (UTU-67170) At proposed prod. zone SW/SE 1320' FSL 2640' FEL Sec. 24, T8S R16E (UTU-67170)		10. Field and Pool, or Exploratory Monument Butte
14. Distance in miles and direction from nearest town or post office* Approximately 9.9 miles south of Myton, UT		11. Sec., T. R. M. or Blk. and Survey or Area Sec. 24, T8S R16E
15. Distance from proposed* location to nearest property or lease line, ft. Approx. 1320' f/lse, NA' f/unit (Also to nearest drig. unit line, if any)	16. No. of acres in lease 959.869	17. Spacing Unit dedicated to this well 20 Acres
18. Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft. Approx. 1320'	19. Proposed Depth 6,714'	20. BLM/BIA Bond No. on file WYB000493
21. Elevations (Show whether DF, KDB, RT, GL, etc.) 5418' GL	22. Approximate date work will start* 3rd Qtr. 2010	23. Estimated duration (7) days from SPUD to rig release

24. Attachments

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

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

25. Signature 	Name (Printed/Typed) Mandie Crozier	Date 3/11/10
Title Regulatory Specialist		
Approved by (Signature) 	Name (Printed/Typed) James H. Sparger	Date DEC 16 2010
Title Mining Assistant Field Manager Lands & Mineral Resources	Office VERNAL FIELD OFFICE	

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

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

(Continued on page 2)

\*(Instructions on page 2)

2010 MAR 15 PM 2 53

**UDOGM**

RECEIVED  
VERNAL FIELD OFFICE

JAN 13 2011

NOS 10/8/2009  
AFMSS# 105K50030A



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

170 South 500 East

VERNAL, UT 84078

(435) 781-4400



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

Company:	Newfield Production Company	Location:	SWSE, Sec. 24, T8S R16E
Well No:	Greater Monument Butte R-24-8-16	Lease No:	UTU-67170
API No:	43-013-50276	Agreement:	Greater Monument Butte

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

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

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

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

**NOTIFICATION REQUIREMENTS**

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

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

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

**SITE SPECIFIC CONDITIONS OF APPROVAL:**

- Construction and drilling is not allowed from May 1<sup>st</sup> – June 15<sup>th</sup> to minimize impacts during Mountain plover nesting.
- Construction and drilling is not allowed from March 1 – August 15 to minimize impacts during burrowing owl nesting.
- If it is anticipated that construction or drilling will occur during the given timing restriction, a BLM or qualified biologist should be notified so surveys can be conducted. Depending upon the results of the surveys, permission to proceed may or may not be recommended or granted by the BLM biologist.
- Cultural site 42Dc426, which was determined to be eligible for the National Register of Historic Places, would be avoided by 150 feet and monitored by a BLM qualified archaeologist if construction activities are within 100 meters of the site boundary.
- Prior to construction, an invasive plants/noxious weeds inventory will be completed for all areas where surface disturbance will occur, and a completed Weed Inventory Form will be submitted to the BLM Authorized Officer.

**Reclamation**

- Reclamation will be completed in accordance with the Newfield Exploration Company Castle Peak and Eight Mile Flat Reclamation Plan on file with the Vernal Field Office of the BLM.

**Seed Mix (Interim and Final Reclamation)**

Common name	Latin name	lbs/acre	Recommended seed planting depth
Squirreltail grass	<i>Elymus elymoides</i>	3.0	¼ - ½"
Needle and thread grass	<i>Hesperostipa comata</i>	3.0	½"

Idaho fescue	<i>Festuca idahoensis</i>	2.0	¼ - ½"
Scarlet globemallow	<i>Sphaeralcea coccinea</i>	1.0	⅛ - ¼"
Galleta grass	<i>Pleuraphis jamesii</i>	3.0	½"
Gardner's saltbush	<i>Atriplex gardneri</i>	2.0	½"
Blue flax (Lewis flax)	<i>Linum lewisii</i>	2.0	⅛ - ¼"

- All pounds are pure live seed.
- All seed and mulch would be certified weed free.
- Rates are set for drill seeding; double rate if broadcasting.

**Monitoring and Reporting**

- The operator shall submit a Sundry Notice (Form 3160-5) to the BLM Authorized Officer (AO) that designates the proposed site-specific monitoring and reference sites chosen for the location. A description of the proposed sites shall be included, as well as a map showing the locations of the proposed sites.
- The operator shall submit a Sundry Notice (Form 3160-5) to the BLM Authorized Officer (AO) 3 growing seasons after reclamation efforts have occurred evaluating the status of the reclaimed areas in order to determine whether the BLM standards set forth in the Green River District Reclamation Guidelines have been met (30% or greater basal cover).

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

**SITE SPECIFIC DOWNHOLE COAs:**

- The operator shall comply with all applicable requirements in the SOP (version: "Greater Monument Butte Green River Development Program", June 24, 2008). The operator shall also comply with applicable laws and regulations; with the lease terms, Onshore Oil and Gas Orders, NTL's; and with other orders and instructions of the authorized officer.

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

**DRILLING/COMPLETION/PRODUCING OPERATING STANDARDS**

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

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

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

## OPERATING REQUIREMENT REMINDERS:

- All wells, whether drilling, producing, suspended, or abandoned, shall be identified in accordance with 43 CFR 3162.6. There shall be a sign or marker with the name of the operator, lease serial number, well number, and surveyed description of the well.
- In accordance with 43 CFR 3162.4-3, this well shall be reported on the "Monthly Report of Operations" (Oil and Gas Operations Report ((OGOR)) starting with the month in which operations commence and continue each month until the well is physically plugged and abandoned. This report shall be filed in duplicate, directly with the Minerals Management Service, P.O. Box 17110, Denver, Colorado 80217-0110, or call 1-800-525-7922 (303) 231-3650 for reporting information.
- Should the well be successfully completed for production, the BLM Vernal Field office must be notified when it is placed in a producing status. Such notification will be by written communication and must be received in this office by not later than the fifth business day following the date on which the well is placed on production. The notification shall provide, as a minimum, the following informational items:
  - Operator name, address, and telephone number.
  - Well name and number.
  - Well location ( $\frac{1}{4}$ / $\frac{1}{4}$ , Sec., Twn, Rng, and P.M.).
  - Date well was placed in a producing status (date of first production for which royalty will be paid).
  - The nature of the well's production, (i.e., crude oil, or crude oil and casing head gas, or natural gas and entrained liquid hydrocarbons).
  - The Federal or Indian lease prefix and number on which the well is located; otherwise the non-Federal or non-Indian land category, i.e., State or private.
  - Unit agreement and/or participating area name and number, if applicable.
  - Communitization agreement number, if applicable.
- Any venting or flaring of gas shall be done in accordance with Notice to Lessees (NTL) 4A and needs prior approval from the BLM Vernal Field Office.
- All undesirable events (fires, accidents, blowouts, spills, discharges) as specified in NTL 3A will be reported to the BLM, Vernal Field Office. Major events, as defined in NTL3A, shall be reported verbally within 24 hours, followed by a written report within 15 days. "Other than Major Events" will be reported in writing within 15 days. "Minor Events" will be reported on the Monthly Report of Operations and Production.
- Whether the well is completed as a dry hole or as a producer, "Well Completion and Recompletion Report and Log" (BLM Form 3160-4) shall be submitted not later than 30 days after completion of the well or after completion of operations being performed, in accordance with 43 CFR 3162.4-1. Two copies of all logs run, core descriptions, and all other surveys or data obtained and compiled during the drilling, workover, and/or completion operations, shall be filed on BLM Form 3160-4.

Submit with the well completion report a geologic report including, at a minimum, formation tops, and a summary and conclusions. Also include deviation surveys, sample descriptions, strip logs, core data, drill stem test data, and results of production tests if performed. Samples (cuttings, fluid, and/or gas) shall be submitted only when requested by the BLM, Vernal Field Office.

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

Spud

BLM - Vernal Field Office - Notification Form

Operator Newfield Exploration Rig Name/# Ross Rig # 29  
Submitted By Xabier Lasa Phone Number 435-823-6014  
Well Name/Number Greater Monument Butte R-24-8-16  
Qtr/Qtr SW/SE Section 24 Township 8S Range 16E  
Lease Serial Number UTU-67170  
API Number 43-013-50276

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

Date/Time 1-28-11 8:00  
AM  PM

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

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

Date/Time 1-28-11 2:00 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 Spud w/ Ross # 29 @8:00 Am and run casing @ 2:00 Pm on 1-28-11

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

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

**SUNDRY NOTICES AND REPORTS ON WELLS**  
**Do not use this form for proposals to drill or to re-enter an abandoned well. Use Form 3160-3 (APD) for such proposals.**

**SUBMIT IN TRIPLICATE - Other Instructions on page 2**

1. Type of Well

Oil Well  Gas Well  Other

2. Name of Operator

NEWFIELD PRODUCTION COMPANY

3a. Address Route 3 Box 3630

Myton, UT 84052

3b. Phone (include are code)

435.646.3721

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)

Section 24 T8S R16E

5. Lease Serial No.

USA UTU-67170

6. If Indian, Allottee or Tribe Name.

7. If Unit or CA/Agreement, Name and/or

GMBU

8. Well Name and No.

MON BUTTE R-24-8-16

9. API Well No.

4301350276

10. Field and Pool, or Exploratory Area

GREATHER MB UNIT

11. County or Parish, State

DUCHESNE, UT

**12. CHECK APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, OR OTHER DATA**

TYPE OF SUBMISSION	TYPE OF ACTION			
<input type="checkbox"/> Notice of Intent	<input type="checkbox"/> Acidize	<input type="checkbox"/> Deepen	<input type="checkbox"/> Production (Start/Resume)	<input type="checkbox"/> Water Shut-Off
<input checked="" type="checkbox"/> Subsequent Report	<input type="checkbox"/> Alter Casing	<input type="checkbox"/> Fracture Treat	<input type="checkbox"/> Reclamation	<input type="checkbox"/> Well Integrity
<input type="checkbox"/> Final Abandonment	<input type="checkbox"/> Casing Repair	<input type="checkbox"/> New Construction	<input type="checkbox"/> Recomplete	<input checked="" type="checkbox"/> Other _____
	<input type="checkbox"/> Change Plans	<input type="checkbox"/> Plug & Abandon	<input type="checkbox"/> Temporarily Abandon	Spud Notice _____
	<input type="checkbox"/> Convert to Injector	<input type="checkbox"/> Plug Back	<input type="checkbox"/> Water Disposal	

13. Describe Proposed or Completed Operation: (Clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recomplete horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports shall be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompletion in a new interval, a Form 3160-4 shall be filed once testing has been completed. Final Abandonment Notices shall be filed only after all requirements, including reclamation, have been completed, and the operator has determined that the site is ready for final inspection.)

On 1/30/11 MIRU Ross #26. Spud well @8:00 AM. Drill 310' of 12 1/4" hole with air mist. TIH W/ 7 Jt's 8 5/8" J-55 24# csgn. Set @ 296.39'. On 1/30/11 cement with 160 sks of class "G" w/ 2% CaCl2 + 0.25#/sk Cello- Flake Mixed @ 15.8ppg w/ 1.17ft3/sk yield. Returned 5 barrels cement to pit. WOC.

I hereby certify that the foregoing is true and correct (Printed/ Typed)

Adam Ferrari

Signature



Title

Production Engineer

Date

02/02/2011

**THIS SPACE FOR FEDERAL OR STATE OFFICE USE**

Approved by .....

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

Title

Office

Date

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 and fraudulent statements or representations as to any matter within its jurisdiction

(Instructions on page 2)

**RECEIVED**

**FEB 23 2011**

**DIV. OF OIL, GAS & MINING**





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**

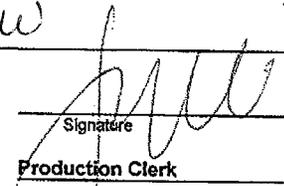
ACTION CODE	CURRENT ENTITY NO.	NEW ENTITY NO.	API NUMBER	WELL NAME	WELL LOCATION				COUNTY	SPUD DATE	EFFECTIVE DATE
					QQ	SC	TP	RG			
B	99999	17400	4301350252	GREATER MON BUTTE C-26-8-16	SESW	23	8S	16E	DUCHESNE	2/8/2011	2/28/11
WELL 1 COMMENTS: GRRV BHL Sec 26 NUNE											
B	99999	17400	4301350053	FEDERAL 6-25-8-15	SENW	25	8S	15E	DUCHESNE	2/7/2011	2/28/11
GRRV											
B	99999	17400	4301350026	FEDERAL 2-25-8-15	NWNE	25	8S	15E	DUCHESNE	2/3/2011	2/28/11
GRRV											
A	99999	17953	4301350299	STEWART 1A-29-4-2	NENE	29	4S	2W	DUCHESNE	2/2/2011	2/28/11
GRRV											
B	99999	17400	4301350276	GREATER MON BUTTE R-24-8-16	SWSE	24	8S	16E	DUCHESNE	1/30/2011	2/28/11
GRRV BHL = SWSE											
B	99999	17400	4301350196	HAWKEYE FED W-26-8-16	NWNE	35	8S	16E	DUCHESNE	1/31/2011	2/28/11
GRRV BHL = Sec 26 SE SW											

ACTION CODES (See instructions on back of form)

- A - 1 new entity for new well (single well only)
- B - well to existing entity (group or unit well)
- C - from one existing entity to another existing entity
- D - well from one existing entity to a new entity
- E - other (explain in comments section)

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

RECEIVED  
 FEB 14 2011

Signature:   
 Jentri Park  
 Production Clerk  
 02/14/11

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

5. LEASE DESIGNATION AND SERIAL NUMBER:  
USA UTU-67170

**SUNDRY NOTICES AND REPORTS ON WELLS**

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

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

7. UNIT or CA AGREEMENT NAME:  
GMBU

1. TYPE OF WELL: OIL WELL  GAS WELL  OTHER

8. WELL NAME and NUMBER:  
MON BUTTE R-24-8-16

2. NAME OF OPERATOR:  
NEWFIELD PRODUCTION COMPANY

9. API NUMBER:  
4301350276

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

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

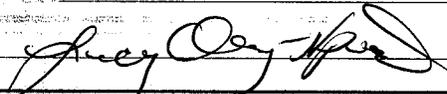
4. LOCATION OF WELL:  
FOOTAGES AT SURFACE: 0644 FSL 1993 FEL  
OTR/OTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: , 24, T8S, R16E SUSE

COUNTY: DUCHESNE  
STATE: UT

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

TYPE OF SUBMISSION	TYPE OF ACTION		
<input type="checkbox"/> NOTICE OF INTENT (Submit in Duplicate) Approximate date work will _____	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> REPERFORATE CURRENT FORMATION
	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> SIDETRACK TO REPAIR WELL
	<input type="checkbox"/> CASING REPAIR	<input type="checkbox"/> NEW CONSTRUCTION	<input type="checkbox"/> TEMPORARITLY ABANDON
	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> TUBING REPAIR
	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> VENT OR FLAIR
<input checked="" type="checkbox"/> SUBSEQUENT REPORT (Submit Original Form Only) Date of Work Completion: <u>03/04/2011</u>	<input type="checkbox"/> CHANGE WELL NAME	<input type="checkbox"/> PLUG BACK	<input type="checkbox"/> WATER DISPOSAL
	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> PRODUCTION (START/STOP)	<input type="checkbox"/> WATER SHUT-OFF
	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input checked="" type="checkbox"/> OTHER: - Weekly Status Report
	<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.  
The above subject well was completed on 03-04-11, attached is a daily completion status report.

NAME (PLEASE PRINT) Lucy Chavez-Naupoto  
SIGNATURE 

TITLE Administrative Assistant  
DATE 03/07/2011

(This space for State use only)

**RECEIVED**  
**MAR 08 2011**  
DIV. OF OIL, GAS & MINING

**Daily Activity Report****Format For Sundry****MON BUTTE R-24-8-16****1/1/2011 To 5/30/2011****2/22/2011 Day: 1****Completion**

Rigless on 2/22/2011 - Run CBL and perf stg 1. - Install 5M frac head. NU 7" 5M Cameron BOP. RU H/O truck & pressure test casing, blind rams, frac head & casing valves to 4500 psi. RU Perforators LLC WLT w/ mast & run CBL under pressure. WLTD @ 6729' cement top @ 60'. Perforate CP5/4 sds as shown in perforation report. 161 BWTR. SWIFN.

**Daily Cost:** \$0**Cumulative Cost:** \$16,757**2/25/2011 Day: 2****Completion**

Rigless on 2/25/2011 - Perforate, frac & flowback well - Perforate & frac well as detailed. 2426 BWTR. Open for immediate flowback @ approx 3 BPM. Well flowed for 3 hours & died. Recovered approx 450 bbls. 1976 BWTR.

**Daily Cost:** \$0**Cumulative Cost:** \$107,973**3/1/2011 Day: 3****Completion**

WWS #3 on 3/1/2011 - MIRUSU. Set kill plug. PU tbg - MIRUSU. Thaw well & check pressure on well, 490 psi. MIRU WLT. RIH & set solid composite plug @ 4565'. RD WLT. Bleed pressure off well. ND frac BOPs. NU production wellhead & BOPs. RU rig floor. Talley & PU 4 3/4" chomp bit, bit sub & 116- jts 2 7/8" J-55 6.5# 8rd EUE tbg. Circulate well clean. SWIFN.

**Daily Cost:** \$0**Cumulative Cost:** \$158,704**3/2/2011 Day: 4****Completion**

WWS #3 on 3/2/2011 - Drill out plugs. - Open well. TBG 0 psi. CSG 0 psi. Continue picking up tbg to tag sand @ 4540'. 25' sand. Clean out sand to CBP @ 4565'. Drill out plug. Circulate well for 2 hrs until clean of sand. Continue picking up tbg to tag CBP @ 4890'. Drill out plug. Continue picking up tbg to tag next CBP @ 5310'. Drill out plug. Continue picking up tbg to tag sand @ 5465'. 55' sand. Clean out to CBP @ 5520'. Drill out plug. Continue picking up tbg to tag sand @ 5861'. 69' sand. Clean out sand to CBP @ 5930'. Drill out plug. Continue picking up tbg tag sand @ 6340'. 50' sand. Clean out sand to 6390'. Drill out plug. Circulate well clean. LD 2 jts tbg. SDFN Gained 510 bw during drill out. EWTR 2486 BBLs

**Daily Cost:** \$0**Cumulative Cost:** \$165,280**3/3/2011 Day: 5****Completion**

WWS #3 on 3/3/2011 - Clean out to PBTB. Swab/flow well. - Open well. CSG 600 psi. TBG 490 psi. Circulate well to kill tbg. Continue picking up tbg to tag sand @ 6638'. 121' sand. Clean out sand to PBTB 6759'. Circulate well clean. RD power swivel. LD 3 jts tbg. RU swab equipment. Make 2 swab runs. Well started to flow. Flowback 210 bbls in 2 hrs. RU well to flow to production tanks through the night. Turn over to pumper for flowback. SDFN EWTR

2258 BBLs

**Daily Cost:** \$0**Cumulative Cost:** \$173,019

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**3/4/2011 Day: 6****Completion**

WWS #3 on 3/4/2011 - Kill well. Trip for production. PWOP - Open well. CSG 650 psi. TBG 200 psi flowing on 20/64" choke. Pump 30 bbls brine to kill tbg. TIH to tag PBD @6759'. No new fill. Circulate well w/ 300 bbls brine. LD excess tbg. TOOH w/ tbg. Get out of hole w/ tbg. LD bit & bit sub. MU btm hole assembly. TIH w/ tbg detail @ follows. NC, 2 jts, PSN, 1 jt, TAC, & 210 jts tbg. Get in hole w/ tbg. RD work floor. ND BOP. Set TAC. MU B-1 adapter flange. Land tbg w/ 18000# tension. RU well head. X-over to rod equipment. PU & prime new Central Hydraulic 2 1/2" x 1 3/4" x 21' x 24' RHAC pump. TIH picking up rod detail @ follows. 1 - 4' x 7/8" stabilizer sub, 4 - 1 1/2" wt bars, & 254 - 7/8" guided rods(8 per). Get in hole w/ rods. Space out pump w/ 1 - 2', 4', 6', & 8' x 7/8" pony subs. MU new 1 1/2" x 30' polished rod. RU pumping unit. TBG standing full. Stroke test pump to 800 psi w/ unit. Good pump action. RDMOSU WWS #3. PWOP @ 6:00 PM W/ 144" SL @ 5 SPM. FINAL REPORT! EWTR 2103 BBLs

**Finalized****Daily Cost:** \$0**Cumulative Cost:** \$220,432

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**Pertinent Files: Go to File List**

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

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

**WELL COMPLETION OR RECOMPLETION REPORT AND LOG**

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

2. Name of Operator  
**NEWFIELD EXPLORATION COMPANY**

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

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

4. Location of Well (Report location clearly and in accordance with Federal requirements)\*  
 At surface 644' FSL & 1993' FEL (SW/SE) SEC. 24, T8S, R16E (UTU-67170)  
 At top prod. interval reported below 1236' FSL & 2599' FEL (SW/SE) SEC. 24, T8S, R16E (UTU-67170)  
 At total depth 1512' FSL & 2430' FWL (NE/SW) SEC. 24, T8S, R16E (UTU-67170)

5. Lease Serial No.  
UTU-67170

6. If Indian, Allottee or Tribe Name

7. Unit or CA Agreement Name and No.  
GMBU

8. Lease Name and Well No.  
GREATER MONUMENT BT R-24-8-16

9. AFI Well No.  
43-013-50276

10. Field and Pool or Exploratory  
GREATER MB UNIT

11. Sec., T., R., M., on Block and Survey or Area  
SEC. 24, T8S, R16E

12. County or Parish  
DUCHESNE

13. State  
UT

14. Date Spudded  
01/30/2011

15. Date T.D. Reached  
02/08/2011

16. Date Completed 03/03/2011  
 D & A  Ready to Prod.

17. Elevations (DF, RKB, RT, GL)\*  
5418' GL 5430' KB

18. Total Depth: MD 6819' TVD 6695'

19. Plug Back T.D.: MD 6759' TVD 6630'

20. Depth Bridge Plug Set: MD TVD

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

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

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

Hole Size	Size/Grade	Wt. (#/ft.)	Top (MD)	Bottom (MD)	Stage Cementer Depth	No. of Sk. & Type of Cement	Slurry Vol. (BBL)	Cement Top*	Amount Pulled
12-1/4"	8-5/8" J-55	24#	0	306'		160 CLASS G			
7-7/8"	5-1/2" J-55	15.5#	0	6804'		300 PRIMLITE		60'	
						420 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 @ 6568'	TA @ 6491'						

25. Producing Intervals

Formation	Top	Bottom	Perforated Interval	Size	No. Holes	Perf. Status
A) Green River	4825'	6522'	6432-6522"	.36"	30	
B)			4825-6362'	.34"	129	
C)						
D)						

26. Perforation Record

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

Depth Interval	Amount and Type of Material
4825-6522'	Frac w/ 207957#'s 20/40 sand in 1484 bbls of Lightning 17 fluid in 6 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
03/04/11	03/16/11	24	→	90	0.00	63			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

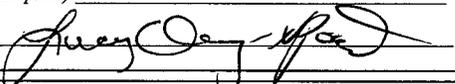
Formation	Top	Bottom	Descriptions, Contents, etc.	Name	Top
					Meas. Depth
GREEN RIVER	4825'	6522'		GARDEN GULCH MRK	4236'
				GARDEN GULCH 1	4451'
				GARDEN GULCH 2	4574'
				POINT 3	4870'
				X MRKR	5105'
				Y MRKR	5147'
				DOUGALS CREEK MRK	5282'
				BI CARBONATE MRK	5551'
				B LIMESTON MRK	5693'
				CASTLE PEAK	6164'
				BASAL CARBONATE	6612'
				WASATCH	6739'

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) Lucy Chavez-Naupoto Title Administrative Assistant  
 Signature  Date 03/17/2011

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 EXPLORATION

USGS Myton SW (UT)

SECTION 24

R-24-8-16

Wellbore #1

Design: Actual

## Standard Survey Report

17 February, 2011

*[Faint, illegible text, likely a table or data dump]*



# PayZone Directional Services, LLC.

## Survey Report



<b>Company:</b>	NEWFIELD EXPLORATION	<b>Local Co-ordinate Reference:</b>	Well R-24-8-16
<b>Project:</b>	USGS Myton SW (UT)	<b>TVD Reference:</b>	R-24-8-16 @ 5430.0ft (Newfield Rig #1)
<b>Site:</b>	SECTION 24	<b>MD Reference:</b>	R-24-8-16 @ 5430.0ft (Newfield Rig #1)
<b>Well:</b>	R-24-8-16	<b>North Reference:</b>	True
<b>Wellbore:</b>	Wellbore #1	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Design:</b>	Actual	<b>Database:</b>	EDM 2003.21 Single User Db

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

<b>Site</b>	SECTION 24, SEC 24 T8S, R16E				
<b>Site Position:</b>		<b>Northing:</b>	7,209,200.00 ft	<b>Latitude:</b>	40° 6' 8.212 N
<b>From:</b>	Lat/Long	<b>Easting:</b>	2,041,800.00 ft	<b>Longitude:</b>	110° 3' 53.957 W
<b>Position Uncertainty:</b>	0.0 ft	<b>Slot Radius:</b>	"	<b>Grid Convergence:</b>	0.92 °

<b>Well</b>	R-24-8-16, SHL LAT: 40 05 52.46, LONG: -110 03 55.64					
<b>Well Position</b>	+N/-S	0.0 ft	<b>Northing:</b>	7,207,604.25 ft	<b>Latitude:</b>	40° 5' 52.460 N
	+E/-W	0.0 ft	<b>Easting:</b>	2,041,694.78 ft	<b>Longitude:</b>	110° 3' 55.640 W
<b>Position Uncertainty</b>		0.0 ft	<b>Wellhead Elevation:</b>	5,430.0 ft	<b>Ground Level:</b>	5,418.0 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</b>
	IGRF200510	2009/11/09	(°)	(°)	(nT)
			11.51	65.89	52,488

<b>Design</b>	Actual				
<b>Audit Notes:</b>					
<b>Version:</b>	1.0	<b>Phase:</b>	ACTUAL	<b>Tie On Depth:</b>	0.0
<b>Vertical Section:</b>	<b>Depth From (TVD)</b>	<b>+N/-S</b>	<b>+E/-W</b>	<b>Direction</b>	
	(ft)	(ft)	(ft)	(°)	
	0.0	0.0	0.0	315.32	

<b>Survey Program</b>	<b>Date</b>	2011/02/17			
<b>From</b>	<b>To</b>	<b>Survey (Wellbore)</b>	<b>Tool Name</b>	<b>Description</b>	
(ft)	(ft)				
324.0	6,819.0	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
324.0	0.10	11.90	324.0	0.3	0.1	0.2	0.03	0.03	0.00
354.0	0.00	49.80	354.0	0.3	0.1	0.2	0.33	-0.33	0.00
385.0	0.10	0.90	385.0	0.3	0.1	0.2	0.32	0.32	0.00
415.0	0.30	315.50	415.0	0.4	0.0	0.3	0.80	0.67	-151.33
446.0	0.70	311.70	446.0	0.6	-0.2	0.6	1.29	1.29	-12.26
476.0	1.20	311.60	476.0	0.9	-0.6	1.1	1.67	1.67	-0.33
507.0	1.70	310.70	507.0	1.4	-1.2	1.8	1.61	1.61	-2.90
538.0	2.20	316.50	538.0	2.2	-1.9	2.9	1.73	1.61	18.71
568.0	2.80	317.90	567.9	3.1	-2.8	4.2	2.01	2.00	4.67
598.0	3.30	319.70	597.9	4.3	-3.8	5.8	1.70	1.67	6.00
629.0	3.60	320.80	628.8	5.8	-5.0	7.6	0.99	0.97	3.55
660.0	4.00	317.50	659.8	7.3	-6.4	9.7	1.47	1.29	-10.65



# PayZone Directional Services, LLC.

## Survey Report



Company: NEWFIELD EXPLORATION  
 Project: USGS Myton SW (UT)  
 Site: SECTION 24  
 Well: R-24-8-16  
 Wellbore: Wellbore #1  
 Design: Actual

Local Co-ordinate Reference: Well R-24-8-16  
 TVD Reference: R-24-8-16 @ 5430.0ft (Newfield Rig #1)  
 MD Reference: R-24-8-16 @ 5430.0ft (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)
690.0	4.50	314.80	689.7	8.9	-7.9	11.9	1.79	1.67	-9.00
721.0	5.00	313.30	720.6	10.7	-9.8	14.5	1.66	1.61	-4.84
751.0	5.40	311.60	750.5	12.5	-11.8	17.2	1.43	1.33	-5.67
782.0	5.60	311.00	781.3	14.5	-14.0	20.2	0.67	0.65	-1.94
812.0	5.90	313.50	811.2	16.5	-16.2	23.2	1.30	1.00	8.33
856.0	6.70	319.40	854.9	20.0	-19.5	28.0	2.34	1.82	13.41
900.0	7.20	320.60	898.6	24.1	-23.0	33.3	1.18	1.14	2.73
944.0	8.00	319.20	942.2	28.6	-26.7	39.1	1.87	1.82	-3.18
988.0	8.70	319.00	985.7	33.4	-30.9	45.5	1.59	1.59	-0.45
1,032.0	9.80	321.50	1,029.1	38.8	-35.4	52.5	2.66	2.50	5.68
1,076.0	10.70	323.70	1,072.4	45.1	-40.2	60.3	2.23	2.05	5.00
1,120.0	11.60	323.10	1,115.6	51.9	-45.2	68.7	2.06	2.05	-1.36
1,164.0	12.70	323.30	1,158.6	59.3	-50.8	77.9	2.50	2.50	0.45
1,208.0	13.10	323.80	1,201.5	67.2	-56.6	87.6	0.94	0.91	1.14
1,252.0	13.60	323.60	1,244.3	75.4	-62.6	97.6	1.14	1.14	-0.45
1,296.0	14.20	323.00	1,287.0	83.9	-69.0	108.1	1.40	1.36	-1.36
1,340.0	14.30	322.30	1,329.7	92.5	-75.5	118.9	0.45	0.23	-1.59
1,384.0	14.00	322.50	1,372.4	101.0	-82.1	129.5	0.69	-0.68	0.45
1,428.0	14.20	322.90	1,415.0	109.5	-88.6	140.2	0.51	0.45	0.91
1,472.0	14.10	323.30	1,457.7	118.1	-95.0	150.8	0.32	-0.23	0.91
1,516.0	13.80	323.70	1,500.4	126.6	-101.4	161.3	0.72	-0.68	0.91
1,560.0	13.60	322.50	1,543.1	135.0	-107.6	171.6	0.79	-0.45	-2.73
1,604.0	13.60	319.70	1,585.9	143.0	-114.1	181.9	1.50	0.00	-6.36
1,648.0	13.90	317.90	1,628.6	150.9	-121.0	192.4	1.19	0.68	-4.09
1,692.0	13.60	317.20	1,671.4	158.6	-128.1	202.8	0.78	-0.68	-1.59
1,736.0	13.20	315.70	1,714.2	166.0	-135.1	213.0	1.20	-0.91	-3.41
1,780.0	12.80	314.10	1,757.1	173.0	-142.1	222.9	1.22	-0.91	-3.64
1,824.0	12.70	312.70	1,800.0	179.7	-149.1	232.6	0.74	-0.23	-3.18
1,868.0	12.60	312.80	1,842.9	186.2	-156.2	242.2	0.23	-0.23	0.23
1,912.0	12.50	312.40	1,885.9	192.7	-163.3	251.8	0.30	-0.23	-0.91
1,956.0	12.20	312.00	1,928.8	199.0	-170.2	261.2	0.71	-0.68	-0.91
2,000.0	12.10	311.70	1,971.9	205.2	-177.1	270.4	0.27	-0.23	-0.68
2,044.0	11.70	310.20	2,014.9	211.1	-184.0	279.5	1.15	-0.91	-3.41
2,088.0	11.50	308.20	2,058.0	216.7	-190.8	288.3	1.02	-0.45	-4.55
2,133.0	11.60	309.10	2,102.1	222.3	-197.9	297.2	0.46	0.22	2.00
2,177.0	11.60	310.70	2,145.2	228.0	-204.6	306.0	0.73	0.00	3.64
2,221.0	11.70	311.10	2,188.3	233.8	-211.4	314.9	0.29	0.23	0.91
2,265.0	11.50	311.50	2,231.4	239.7	-218.0	323.7	0.49	-0.45	0.91
2,309.0	11.60	311.20	2,274.5	245.5	-224.6	332.5	0.27	0.23	-0.68
2,353.0	11.70	312.40	2,317.6	251.4	-231.2	341.4	0.60	0.23	2.73
2,397.0	11.70	313.50	2,360.7	257.5	-237.8	350.3	0.51	0.00	2.50
2,441.0	12.00	313.60	2,403.7	263.7	-244.3	359.3	0.68	0.68	0.23
2,485.0	11.80	314.00	2,446.8	270.0	-250.9	368.4	0.49	-0.45	0.91
2,529.0	11.60	315.60	2,489.9	276.3	-257.2	377.3	0.87	-0.45	3.64
2,573.0	11.60	314.60	2,533.0	282.6	-263.5	386.2	0.46	0.00	-2.27
2,617.0	11.80	314.60	2,576.1	288.8	-269.8	395.1	0.45	0.45	0.00
2,661.0	11.90	313.20	2,619.1	295.1	-276.3	404.1	0.69	0.23	-3.18
2,705.0	11.90	312.10	2,662.2	301.2	-283.0	413.2	0.52	0.00	-2.50
2,749.0	12.00	312.80	2,705.2	307.4	-289.7	422.3	0.40	0.23	1.59
2,793.0	12.00	313.20	2,748.3	313.6	-296.4	431.4	0.19	0.00	0.91
2,837.0	11.90	313.50	2,791.3	319.9	-303.0	440.5	0.27	-0.23	0.68
2,881.0	12.10	312.90	2,834.4	326.1	-309.7	449.7	0.54	0.45	-1.36
2,925.0	12.00	312.00	2,877.4	332.3	-316.5	458.8	0.48	-0.23	-2.05
2,969.0	11.70	312.80	2,920.5	338.4	-323.1	467.9	0.78	-0.68	1.82



Company: NEWFIELD EXPLORATION  
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 Wellbore: Wellbore #1  
 Design: Actual

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 MD Reference: R-24-8-16 @ 5430.0ft (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)
3,013.0	11.60	312.70	2,963.5	344.5	-329.7	476.7	0.23	-0.23	-0.23
3,057.0	11.50	311.90	3,006.7	350.4	-336.2	485.5	0.43	-0.23	-1.82
3,101.0	10.90	310.30	3,049.8	356.0	-342.6	494.0	1.54	-1.36	-3.64
3,145.0	10.70	308.80	3,093.0	361.3	-349.0	502.3	0.78	-0.45	-3.41
3,189.0	10.70	308.20	3,136.3	366.3	-355.4	510.4	0.25	0.00	-1.36
3,233.0	10.70	307.60	3,179.5	371.4	-361.8	518.5	0.25	0.00	-1.36
3,277.0	11.00	310.50	3,222.7	376.6	-368.2	526.7	1.42	0.68	6.59
3,321.0	11.50	313.00	3,265.9	382.3	-374.6	535.3	1.59	1.14	5.68
3,365.0	11.70	311.50	3,309.0	388.2	-381.2	544.1	0.82	0.45	-3.41
3,409.0	11.50	312.10	3,352.1	394.1	-387.8	552.9	0.53	-0.45	1.36
3,453.0	11.70	313.70	3,395.2	400.2	-394.3	561.8	0.86	0.45	3.64
3,497.0	12.40	315.30	3,438.2	406.6	-400.8	570.9	1.76	1.59	3.64
3,541.0	12.80	316.00	3,481.2	413.5	-407.5	580.5	0.97	0.91	1.59
3,585.0	12.30	313.80	3,524.1	420.2	-414.3	590.1	1.57	-1.14	-5.00
3,629.0	12.20	311.80	3,567.1	426.6	-421.1	599.4	0.99	-0.23	-4.55
3,673.0	12.60	311.50	3,610.1	432.8	-428.2	608.9	0.92	0.91	-0.68
3,717.0	13.20	311.80	3,653.0	439.4	-435.5	618.7	1.37	1.36	0.68
3,761.0	13.40	312.10	3,695.8	446.1	-443.1	628.8	0.48	0.45	0.68
3,805.0	13.10	310.00	3,738.6	452.8	-450.7	638.8	1.29	-0.68	-4.77
3,849.0	13.10	309.60	3,781.5	459.1	-458.3	648.7	0.21	0.00	-0.91
3,893.0	13.10	308.60	3,824.3	465.4	-466.1	658.7	0.52	0.00	-2.27
3,937.0	12.90	308.80	3,867.2	471.6	-473.8	668.5	0.47	-0.45	0.45
3,981.0	12.80	309.00	3,910.1	477.8	-481.4	678.2	0.25	-0.23	0.45
4,025.0	12.90	310.50	3,953.0	484.0	-488.9	688.0	0.79	0.23	3.41
4,069.0	12.60	311.10	3,995.9	490.4	-496.3	697.6	0.75	-0.68	1.36
4,113.0	12.30	310.60	4,038.9	496.6	-503.5	707.1	0.72	-0.68	-1.14
4,157.0	11.80	310.20	4,081.9	502.5	-510.5	716.2	1.15	-1.14	-0.91
4,201.0	11.20	308.80	4,125.0	508.1	-517.2	725.0	1.50	-1.36	-3.18
4,245.0	11.10	308.30	4,168.2	513.4	-523.9	733.4	0.32	-0.23	-1.14
4,289.0	11.20	308.40	4,211.4	518.7	-530.6	741.9	0.23	0.23	0.23
4,333.0	11.20	308.20	4,254.5	524.0	-537.3	750.3	0.09	0.00	-0.45
4,377.0	11.00	309.90	4,297.7	529.3	-543.8	758.8	0.87	-0.45	3.86
4,421.0	11.00	312.30	4,340.9	534.8	-550.2	767.1	1.04	0.00	5.45
4,465.0	11.30	313.80	4,384.1	540.6	-556.4	775.6	0.95	0.68	3.41
4,509.0	11.60	315.00	4,427.2	546.8	-562.6	784.4	0.87	0.68	2.73
4,553.0	11.60	315.50	4,470.3	553.0	-568.8	793.2	0.23	0.00	1.14
4,597.0	11.60	315.90	4,513.4	559.4	-575.0	802.1	0.18	0.00	0.91
4,641.0	11.70	316.60	4,556.5	565.8	-581.2	811.0	0.39	0.23	1.59
4,685.0	11.80	317.10	4,599.6	572.3	-587.3	819.9	0.32	0.23	1.14
4,729.0	12.00	316.80	4,642.6	579.0	-593.5	829.0	0.48	0.45	-0.68
4,773.0	11.70	317.20	4,685.7	585.6	-599.7	838.0	0.71	-0.68	0.91
4,817.0	11.40	316.80	4,728.8	592.0	-605.7	846.8	0.71	-0.68	-0.91
4,861.0	11.40	317.00	4,771.9	598.4	-611.6	855.5	0.09	0.00	0.45
4,905.0	11.30	316.00	4,815.0	604.6	-617.6	864.2	0.50	-0.23	-2.27
4,949.0	11.20	314.20	4,858.2	610.7	-623.6	872.7	0.83	-0.23	-4.09
4,993.0	11.20	314.30	4,901.4	616.7	-629.7	881.3	0.04	0.00	0.23
5,037.0	11.30	314.60	4,944.5	622.7	-635.9	889.9	0.26	0.23	0.68
5,081.0	11.10	315.00	4,987.7	628.7	-641.9	898.4	0.49	-0.45	0.91
5,125.0	11.10	316.40	5,030.9	634.8	-647.9	906.9	0.61	0.00	3.18
5,169.0	10.90	316.00	5,074.1	640.8	-653.7	915.3	0.49	-0.45	-0.91
5,213.0	11.00	317.10	5,117.3	646.9	-659.4	923.6	0.53	0.23	2.50
5,257.0	11.30	317.80	5,160.4	653.2	-665.2	932.1	0.75	0.68	1.59
5,301.0	11.30	316.80	5,203.6	659.5	-671.0	940.8	0.45	0.00	-2.27
5,345.0	11.50	318.60	5,246.7	665.9	-676.9	949.4	0.93	0.45	4.09



# PayZone Directional Services, LLC.

## Survey Report



Company: NEWFIELD EXPLORATION  
 Project: USGS Myton SW (UT)  
 Site: SECTION 24  
 Well: R-24-8-16  
 Wellbore: Wellbore #1  
 Design: Actual

Local Co-ordinate Reference: Well R-24-8-16  
 TVD Reference: R-24-8-16 @ 5430.0ft (Newfield Rig #1)  
 MD Reference: R-24-8-16 @ 5430.0ft (Newfield Rig #1)  
 North Reference: True  
 Survey Calculation Method: Minimum Curvature  
 Database: EDM 2003.21 Single User Db

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
5,389.0	11.60	320.40	5,289.8	672.6	-682.6	958.2	0.85	0.23	4.09
5,394.7	11.57	320.37	5,295.4	673.5	-683.3	959.4	0.46	-0.45	-0.45
<b>R-24-8-16 TGT</b>									
5,433.0	11.40	320.20	5,332.9	679.4	-688.2	967.0	0.46	-0.45	-0.46
5,477.0	11.50	319.40	5,376.0	686.1	-693.8	975.7	0.43	0.23	-1.82
5,521.0	11.40	318.00	5,419.2	692.6	-699.6	984.4	0.67	-0.23	-3.18
5,565.0	10.90	316.20	5,462.3	698.9	-705.4	992.9	1.38	-1.14	-4.09
5,609.0	10.40	313.80	5,505.6	704.6	-711.1	1,001.0	1.52	-1.14	-5.45
5,653.0	10.10	313.50	5,548.9	710.0	-716.8	1,008.9	0.69	-0.68	-0.68
5,697.0	10.20	313.20	5,592.2	715.3	-722.4	1,016.6	0.26	0.23	-0.68
5,741.0	9.80	313.90	5,635.5	720.6	-728.0	1,024.2	0.95	-0.91	1.59
5,785.0	9.50	315.80	5,678.9	725.8	-733.2	1,031.6	0.99	-0.68	4.32
5,829.0	9.40	318.30	5,722.3	731.1	-738.1	1,038.8	0.96	-0.23	5.68
5,873.0	9.50	320.40	5,765.7	736.6	-742.8	1,046.0	0.82	0.23	4.77
5,917.0	9.40	318.60	5,809.1	742.1	-747.5	1,053.2	0.71	-0.23	-4.09
5,961.0	9.50	318.30	5,852.5	747.5	-752.3	1,060.5	0.25	0.23	-0.68
6,005.0	9.90	318.40	5,895.9	753.0	-757.2	1,067.9	0.91	0.91	0.23
6,049.0	10.60	318.50	5,939.2	758.9	-762.4	1,075.7	1.59	1.59	0.23
6,093.0	11.80	321.60	5,982.3	765.4	-767.9	1,084.2	3.05	2.73	7.05
6,137.0	12.10	322.30	6,025.4	772.6	-773.5	1,093.2	0.76	0.68	1.59
6,181.0	11.40	321.20	6,068.5	779.6	-779.1	1,102.1	1.67	-1.59	-2.50
6,225.0	11.30	320.50	6,111.6	786.4	-784.5	1,110.8	0.39	-0.23	-1.59
6,269.0	11.80	320.50	6,154.7	793.1	-790.1	1,119.5	1.14	1.14	0.00
6,313.0	11.90	320.70	6,197.8	800.1	-795.9	1,128.5	0.25	0.23	0.45
6,357.0	11.80	319.90	6,240.8	807.1	-801.6	1,137.5	0.44	-0.23	-1.82
6,401.0	11.50	318.70	6,283.9	813.8	-807.4	1,146.4	0.88	-0.68	-2.73
6,445.0	11.20	318.30	6,327.1	820.3	-813.2	1,155.0	0.70	-0.68	-0.91
6,489.0	11.00	317.70	6,370.3	826.6	-818.8	1,163.5	0.52	-0.45	-1.36
6,533.0	11.00	317.90	6,413.4	832.8	-824.5	1,171.9	0.09	0.00	0.45
6,577.0	10.60	317.70	6,456.7	838.9	-830.0	1,180.1	0.91	-0.91	-0.45
6,621.0	10.20	317.00	6,499.9	844.8	-835.4	1,188.1	0.95	-0.91	-1.59
6,665.0	9.80	316.90	6,543.3	850.4	-840.6	1,195.7	0.91	-0.91	-0.23
6,709.0	9.50	317.00	6,586.7	855.7	-845.6	1,203.1	0.68	-0.68	0.23
6,763.0	8.90	317.30	6,640.0	862.1	-851.5	1,211.7	1.11	-1.11	0.56
6,819.0	8.30	317.60	6,695.3	868.2	-857.2	1,220.1	1.07	-1.07	0.54

### Wellbore Targets

#### Target Name

- hit/miss target	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (ft)	Easting (ft)	Latitude	Longitude
- Shape									
R-24-8-16 TGT	0.00	0.00	5,300.0	665.1	-657.7	7,208,258.74	2,041,026.47	40° 5' 59.033 N	110° 4' 4.105 W
- actual wellpath misses by 27.3ft at 5394.6ft MD (5295.3 TVD, 673.5 N, -683.3 E)									
- Circle (radius 75.0)									

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



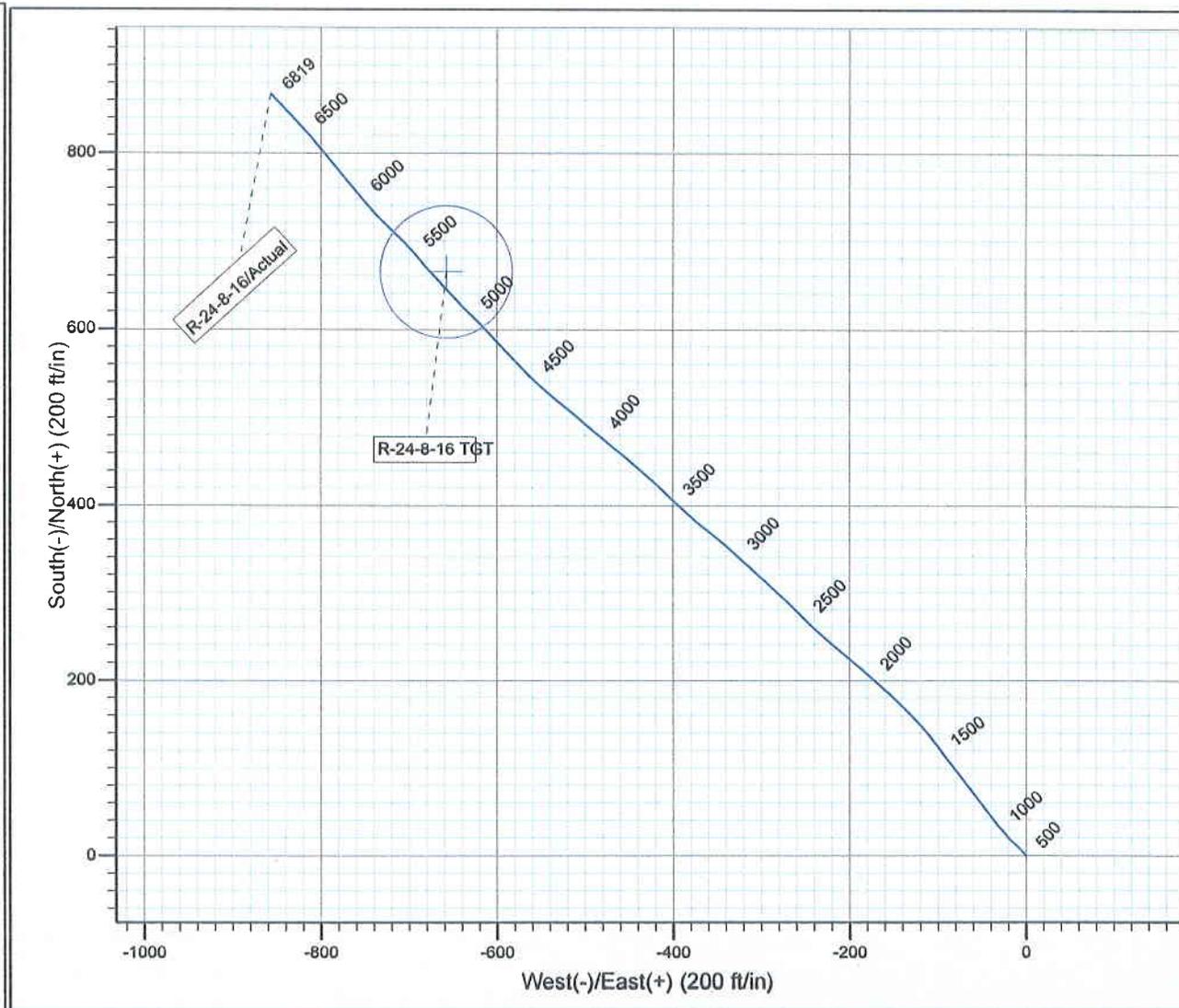
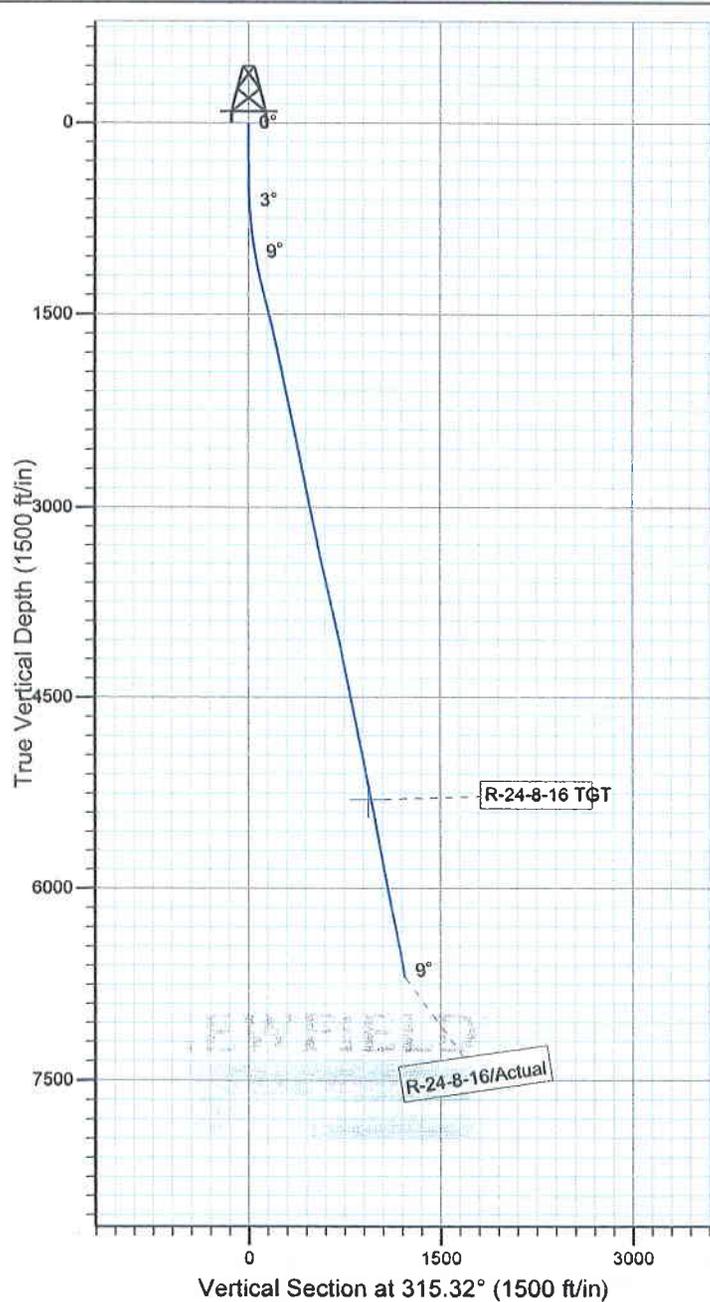
Project: USGS Myton SW (UT)  
 Site: SECTION 24  
 Well: R-24-8-16  
 Wellbore: Wellbore #1  
 SURVEY: Actual

FINAL SURVEY REPORT



Azimuths to True North  
 Magnetic North: 11.51°

Magnetic Field  
 Strength: 52488.4snT  
 Dip Angle: 65.89°  
 Date: 2009/11/09  
 Model: IGRF200510



Design: Actual (R-24-8-16/Wellbore #1)



Created By: *Jim Hudson* Date: 18:03, February 17 2011  
 THIS SURVEY IS CORRECT TO THE BEST OF MY  
 KNOWLEDGE AND IS SUPPORTED BY ACTUAL FIELD DATA.

**Daily Activity Report****Format For Sundry****MON BUTTE R-24-8-16****11/1/2010 To 3/28/2011****MON BUTTE R-24-8-16****Waiting on Cement****Date:** 2/1/2011

Ross #26 at 310. Days Since Spud - On 1/30/11 Ross # 26 Spud and drilled 310' of 12 1/4" hole. On 1/30/11 Ran 8 5/8" Casing - ( Guide Shoe, Shoe Joint, Baffle Plate, and 6jts Casing ) & set @ 296.39. On 1/30/11 BJ Cemented - 8 5/8" Casing W/ 160 sks Class "G"+2%CaCl Mixed @ 15.8ppg W/1.17yield Returned 5bbls to pit

**Daily Cost:** \$0**Cumulative Cost:** \$38,436**MON BUTTE R-24-8-16****Drill 7 7/8" hole with fresh water****Date:** 2/4/2011

NDSI SS #1 at 1132. 1 Days Since Spud - Held saftey mtg & move rig w/ Liddell trucking to the Mon Butte R-24-8-16 & RU on 2/3/11 - PU PDC MM, NMDC, GS, Index Sub, XO, Pony sub - Finish rigging up - Finish PU BHA & TIH & Tag @ 270' & Drill f/ 270' to 471' WOB= 10 RPMS= 155 GPM= 300 ROP= 200' pr hr - Change swabs in mud pump - Drill f/ 471' to 1132' WOB= 10 RPMS= 155 GPM= 300 ROP= 120' pr hr - Held saftey mtg W B&C Quick Test & test Upper kelly valve floor valve pipe rams inside outside valv - es choke valves to 2000#s f/ 10 min & casing to 1500#s f/ 30 min

**Daily Cost:** \$0**Cumulative Cost:** \$107,074**MON BUTTE R-24-8-16****Drill 7 7/8" hole with fresh water****Date:** 2/5/2011

NDSI SS #1 at 3465. 2 Days Since Spud - Change swab in pump - Drill f/ 1924' to 3465' WOB= 20 RPMS= 155 GPM= 300 ROP= 102' pr hr - Change swab in pump - Rig serv - Drill f/ 1132' to 1264' WOB= 20 RPMS= 155 GPM= 300 ROP= 264' pr hr - Drill f/ 1264' to 1924' WOB= 20 RPMS= 155 GPM= 300 ROP= 165' pr hr

**Daily Cost:** \$0**Cumulative Cost:** \$144,739**MON BUTTE R-24-8-16****Drill 7 7/8" hole with fresh water****Date:** 2/6/2011

NDSI SS #1 at 5445. 3 Days Since Spud - Rig serv - Drill f/ 4213' to 5445' WOB= 18/20 RPMS= 155 GPM= 300 ROP= 74' pr hr - Drill f/ 3465' to 4213' WOB= 18/20 RPMS= 155 GPM= 300 ROP= 106' pr hr

**Daily Cost:** \$0**Cumulative Cost:** \$164,979**MON BUTTE R-24-8-16****Lay Down Drill Pipe/BHA****Date:** 2/7/2011

NDSI SS #1 at 6819. 4 Days Since Spud - Pump 295 bbls of brine wtr - LDDP to 4000' - Circ f/ Laydown - Drill f/ 5753' to 6819' WOB= 18/20 RPMS= 155 GPM= 300 ROP= 76' pr hr - Fix hyd leak - Rig serv - Drill f/ 5445' to 5753' WOB= 18/20 RPMS= 155 GPM= 300 ROP= 102' pr hr - LDDP

**Daily Cost:** \$0**Cumulative Cost:** \$210,016

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**MON BUTTE R-24-8-16****Rigging down****Date:** 2/8/2011

NDSI SS #1 at 6819. 5 Days Since Spud - Clean mud pits - Nipple down & set 5.5" casing slips w/ 100,000#s - Displ w/ 161 bbls & 20 bbls of cmt returned to pit - & 420 sks of tail cmt mixed @ 14.4 ppg 1.24 yeild 50:50:2+3%KCL+0.5%EC-1+.25#CF+.05#SF+.2SMS+FP-6L & - RU BJ & test lines & cmt w/ 300sks of lead cmt 11ppg 3.53 yeild PLII+3%

KCL+0.5#CF+2#KOL+.5SMS+FP+SF - Release rig @ 6:00 AM on 2/8/11 - RU & run159 jts 5.5" 15.5# J55 LTC casing shoe @ 6804.47' & trans 8 jts casing to GMB T-24-8-16 - Test 5.5" csg rams to 2000#s for 10 min - Neutron Gamma Ray TD 6814' - Held saftey mtg Phoenix Survey Inc & Log w/ Duel Guard Log Gamma Ray Compensated Density Compensated - LDDP & BHA - Circ f/ cmt job **Finalized**

**Daily Cost:** \$0**Cumulative Cost:** \$351,365

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