

<b>STATE OF UTAH</b> DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS AND MINING						FORM 3 AMENDED REPORT <input type="checkbox"/>
<b>APPLICATION FOR PERMIT TO DRILL</b>						<b>1. WELL NAME and NUMBER</b> Greater Monument Butte M-23-8-17
<b>2. TYPE OF WORK</b> DRILL NEW WELL <input checked="" type="checkbox"/> REENTER P&A WELL <input type="checkbox"/> DEEPEN WELL <input type="checkbox"/>						<b>3. FIELD OR WILDCAT</b> MONUMENT BUTTE
<b>4. TYPE OF WELL</b> Oil Well Coalbed Methane Well: NO						<b>5. UNIT or COMMUNITIZATION AGREEMENT NAME</b> GMBU (GRRV)
<b>6. NAME OF OPERATOR</b> NEWFIELD PRODUCTION COMPANY						<b>7. OPERATOR PHONE</b> 435 646-4825
<b>8. ADDRESS OF OPERATOR</b> Rt 3 Box 3630 , Myton, UT, 84052						<b>9. OPERATOR E-MAIL</b> mcrozier@newfield.com
<b>10. MINERAL LEASE NUMBER (FEDERAL, INDIAN, OR STATE)</b> UTU-76239			<b>11. MINERAL OWNERSHIP</b> FEDERAL <input checked="" type="checkbox"/> INDIAN <input type="checkbox"/> STATE <input type="checkbox"/> FEE <input type="checkbox"/>			<b>12. SURFACE OWNERSHIP</b> FEDERAL <input checked="" type="checkbox"/> INDIAN <input type="checkbox"/> STATE <input type="checkbox"/> FEE <input type="checkbox"/>
<b>13. NAME OF SURFACE OWNER (if box 12 = 'fee')</b>						<b>14. SURFACE OWNER PHONE (if box 12 = 'fee')</b>
<b>15. ADDRESS OF SURFACE OWNER (if box 12 = 'fee')</b>						<b>16. SURFACE OWNER E-MAIL (if box 12 = 'fee')</b>
<b>17. INDIAN ALLOTTEE OR TRIBE NAME (if box 12 = 'INDIAN')</b>			<b>18. INTEND TO COMMINGLE PRODUCTION FROM MULTIPLE FORMATIONS</b> YES <input type="checkbox"/> (Submit Commingling Application) NO <input checked="" type="checkbox"/>			<b>19. SLANT</b> VERTICAL <input type="checkbox"/> DIRECTIONAL <input checked="" type="checkbox"/> HORIZONTAL <input type="checkbox"/>
<b>20. LOCATION OF WELL</b>	<b>FOOTAGES</b>	<b>QTR-QTR</b>	<b>SECTION</b>	<b>TOWNSHIP</b>	<b>RANGE</b>	<b>MERIDIAN</b>
<b>LOCATION AT SURFACE</b>	1995 FSL 1996 FWL	NESW	23	8.0 S	17.0 E	S
<b>Top of Uppermost Producing Zone</b>	2562 FSL 2604 FWL	NESW	23	8.0 S	17.0 E	S
<b>At Total Depth</b>	2236 FNL 2273 FEL	SWNE	23	8.0 S	17.0 E	S
<b>21. COUNTY</b> DUCHESNE		<b>22. DISTANCE TO NEAREST LEASE LINE (Feet)</b> 953		<b>23. NUMBER OF ACRES IN DRILLING UNIT</b> 20		
		<b>25. DISTANCE TO NEAREST WELL IN SAME POOL (Applied For Drilling or Completed)</b> 1212		<b>26. PROPOSED DEPTH</b> MD: 6806 TVD: 6806		
<b>27. ELEVATION - GROUND LEVEL</b> 5129		<b>28. BOND NUMBER</b> WYB000493		<b>29. SOURCE OF DRILLING WATER / WATER RIGHTS APPROVAL NUMBER IF APPLICABLE</b> 437478		
<b>ATTACHMENTS</b>						
<b>VERIFY THE FOLLOWING ARE ATTACHED IN ACCORDANCE WITH THE UTAH OIL AND GAS CONSERVATION GENERAL RULES</b>						
<input checked="" type="checkbox"/> <b>WELL PLAT OR MAP PREPARED BY LICENSED SURVEYOR OR ENGINEER</b>			<input checked="" type="checkbox"/> <b>COMPLETE DRILLING PLAN</b>			
<input type="checkbox"/> <b>AFFIDAVIT OF STATUS OF SURFACE OWNER AGREEMENT (IF FEE SURFACE)</b>			<input type="checkbox"/> <b>FORM 5. IF OPERATOR IS OTHER THAN THE LEASE OWNER</b>			
<input checked="" type="checkbox"/> <b>DIRECTIONAL SURVEY PLAN (IF DIRECTIONALLY OR HORIZONTALLY DRILLED)</b>			<input checked="" type="checkbox"/> <b>TOPOGRAPHICAL MAP</b>			
<b>NAME</b> Mandie Crozier		<b>TITLE</b> Regulatory Tech		<b>PHONE</b> 435 646-4825		
<b>SIGNATURE</b>		<b>DATE</b> 12/08/2010		<b>EMAIL</b> mcrozier@newfield.com		
<b>API NUMBER ASSIGNED</b> 43013505280000		<b>APPROVAL</b>		 Permit Manager		

<b>Proposed Hole, Casing, and Cement</b>						
<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	6806		
<b>Pipe</b>	<b>Grade</b>	<b>Length</b>	<b>Weight</b>			
	Grade J-55 LT&C	6806	15.5			

<b>Proposed Hole, Casing, and Cement</b>						
<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			

NEWFIELD PRODUCTION COMPANY  
GREATER MONUMENT BUTTE M-23-8-17  
AT SURFACE: NE/SW SECTION 23, T8S, R17E  
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' – 1890'
Green River	1890'
Wasatch	6610'
<b>Proposed TD</b>	<b>6806'</b>

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

Green River Formation (Oil) 1890' – 6610'

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 M-23-8-17**

Size	Interval		Weight	Grade	Coupling	Design Factors		
	Top	Bottom				Burst	Collapse	Tension
Surface casing 8-5/8"	0'	300'	24.0	J-55	STC	2,950 17.53	1,370 14.35	244,000 33.89
Prod casing 5-1/2"	0'	6,806'	15.5	J-55	LTC	4,810 2.22	4,040 1.87	217,000 2.06

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 M-23-8-17**

Job	Fill	Description	Sacks	OH Excess*	Weight (ppg)	Yield (ft <sup>3</sup> /sk)
			ft <sup>3</sup>			
Surface casing	300'	Class G w/ 2% CaCl	138	30%	15.8	1.17
			161			
Prod casing Lead	4,806'	Prem Lite II w/ 10% gel + 3% KCl	332 1083	30%	11.0	3.26
Prod casing Tail	2,000'	50/50 Poz w/ 2% gel + 3% KCl	363 451	30%	14.3	1.24

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

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

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

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

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

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

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

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

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

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

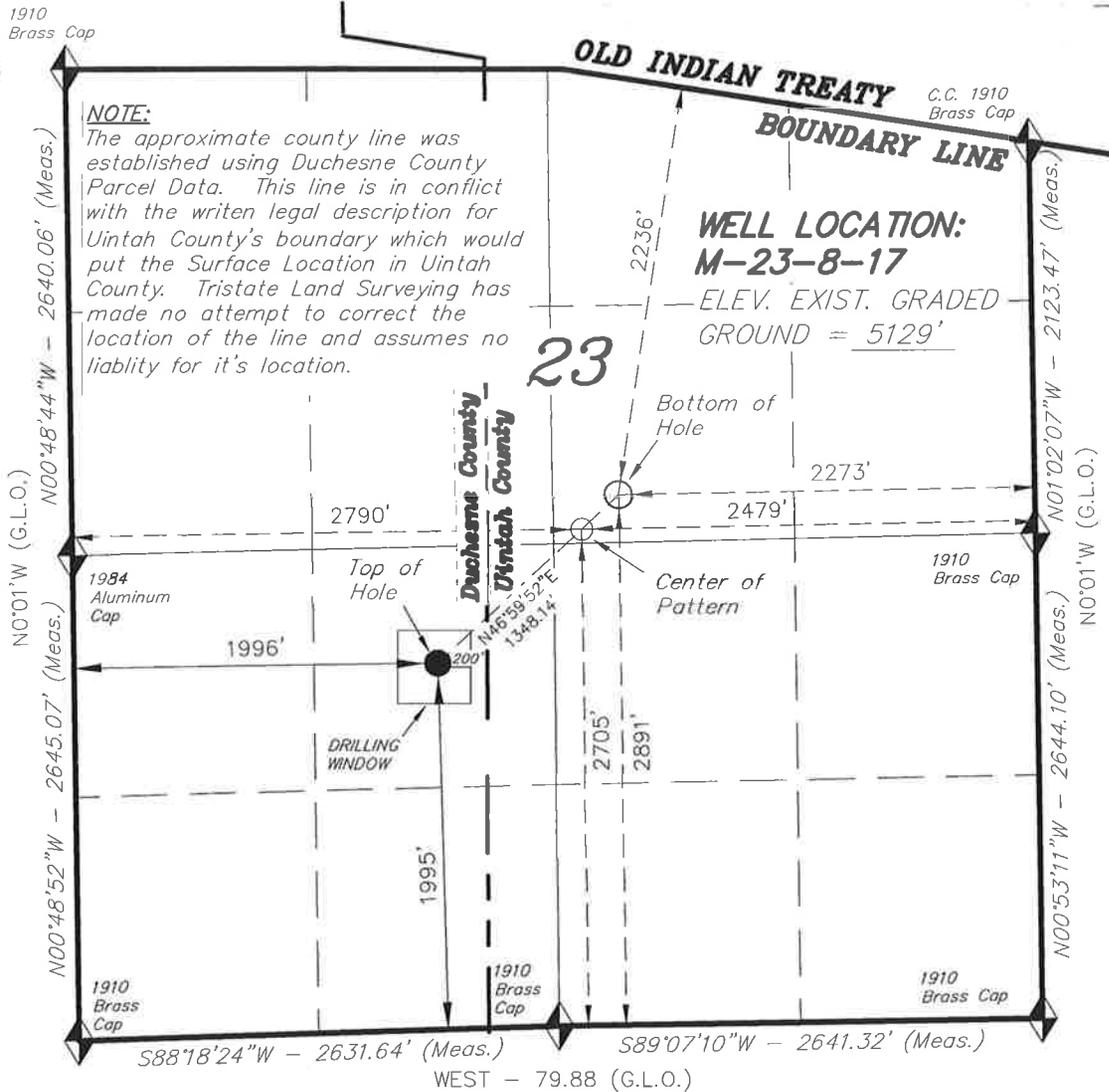
No abnormal temperatures or pressures are anticipated. No hydrogen sulfide has been encountered or is known to exist from previous drilling in the area at this depth. Maximum anticipated bottomhole pressure will approximately equal total depth in feet multiplied by a 0.433 psi/foot gradient.

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

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

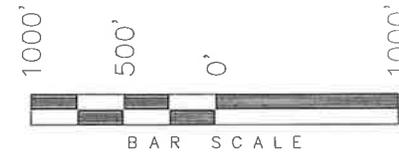
# T8S, R17E, S.L.B.&M.

## NEWFIELD EXPLORATION COMPANY



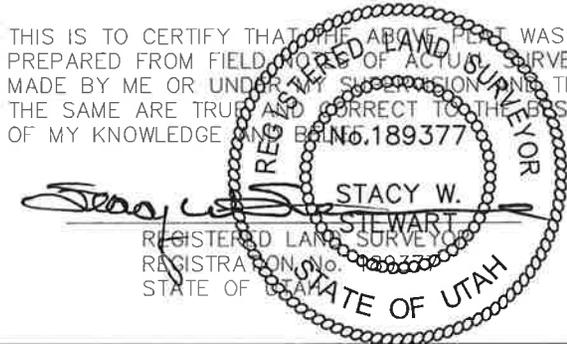
WELL LOCATION, M-23-8-17, LOCATED AS SHOWN IN THE NE 1/4 SW 1/4 OF SECTION 23, T8S, R17E, S.L.B.&M. DUCHESNE COUNTY, UTAH.

TARGET BOTTOM HOLE, M-23-8-17, LOCATED AS SHOWN IN THE SW 1/4 NE 1/4 OF SECTION 23, T8S, R17E, S.L.B.&M. UTAH COUNTY, UTAH.



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

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



◆ = SECTION CORNERS LOCATED

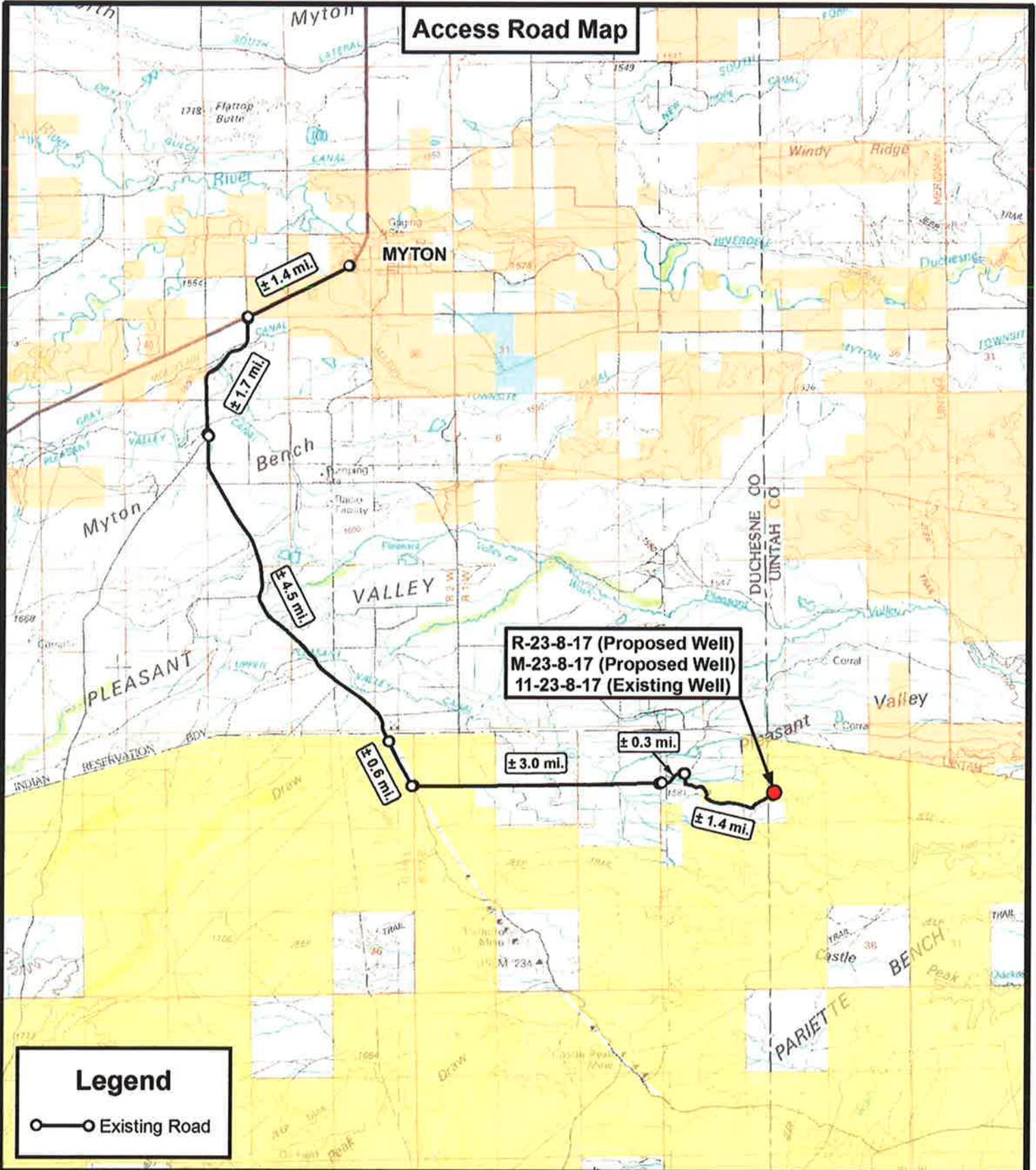
BASIS OF ELEV; Elevations are base on LOCATION: an N.G.S. OPUS Correction. LAT. 40°04'09.56" LONG. 110°00'43.28" (Tristate Aluminum Cap) Elev. 5281.57'

**M-23-8-17**  
 (Surface Location) NAD 83  
 LATITUDE = 40° 06' 06.18"  
 LONGITUDE = 109° 58' 33.60"

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

DATE SURVEYED: 08-17-10	SURVEYED BY: D.G.
DATE DRAWN: 10-06-10	DRAWN BY: M.W.
REVISED: 11-30-10 - M.W.	SCALE: 1" = 1000'

# Access Road Map



## Legend

—○— Existing Road



**Tri State  
Land Surveying, Inc.**

180 NORTH VERNAL AVE. VERNAL, UTAH 84078

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



## NEWFIELD EXPLORATION COMPANY

R-23-8-17 (Proposed Well)  
M-23-8-17 (Proposed Well)  
11-23-8-17 (Existing Well)

SEC. 23, T8S, R17E, S.L.B.&M. Uintah County, UT.

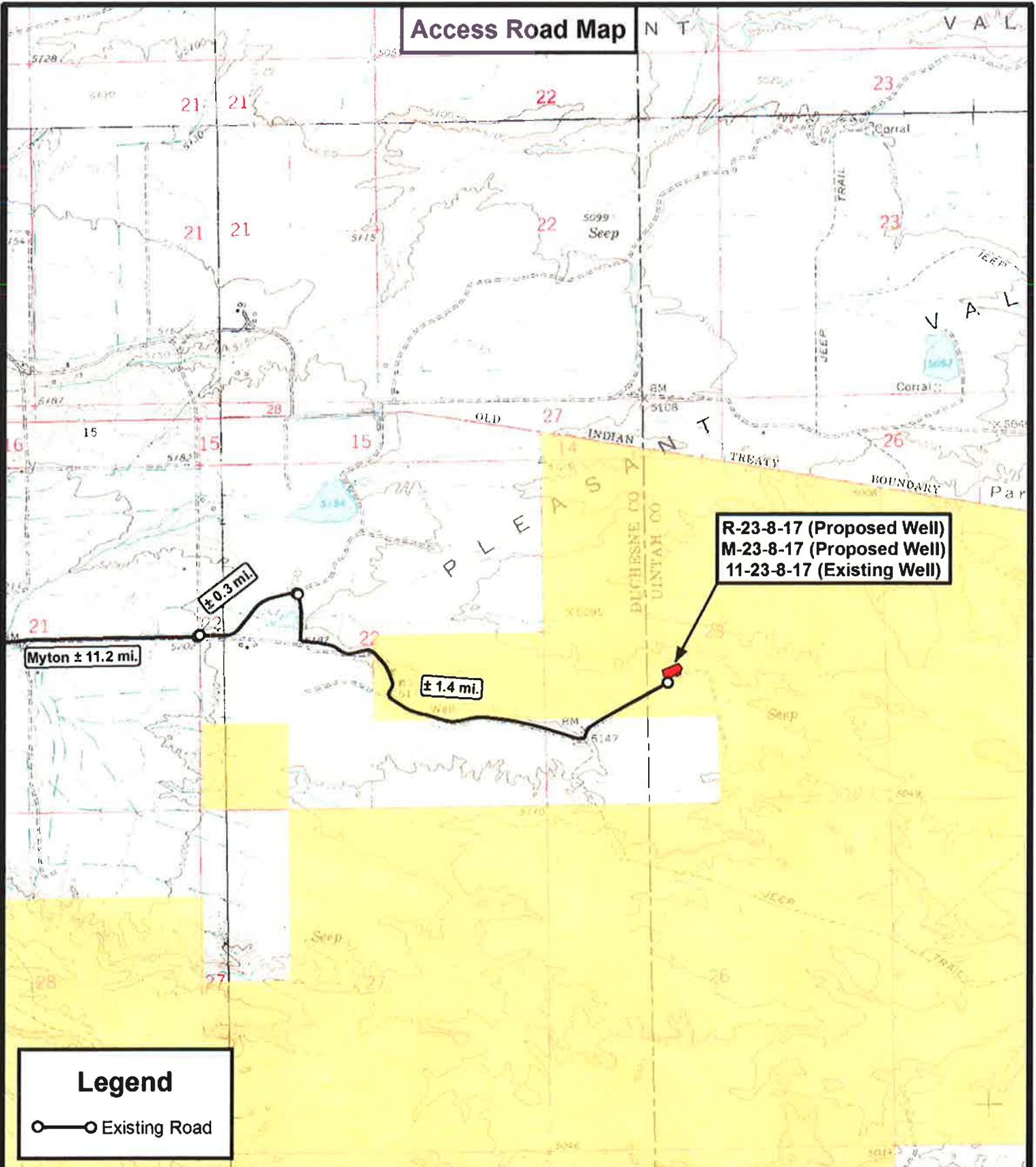
DRAWN BY:	C.H.M.
DATE:	09-17-2010
SCALE:	1:100,000

### TOPOGRAPHIC MAP

SHEET

**A**

# Access Road Map



R-23-8-17 (Proposed Well)  
 M-23-8-17 (Proposed Well)  
 11-23-8-17 (Existing Well)

Myton ± 11.2 mi.

± 0.3 mi.

± 1.4 mi.

**Legend**

○—○ Existing Road

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

P: (435) 781-2501  
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**NEWFIELD EXPLORATION COMPANY**

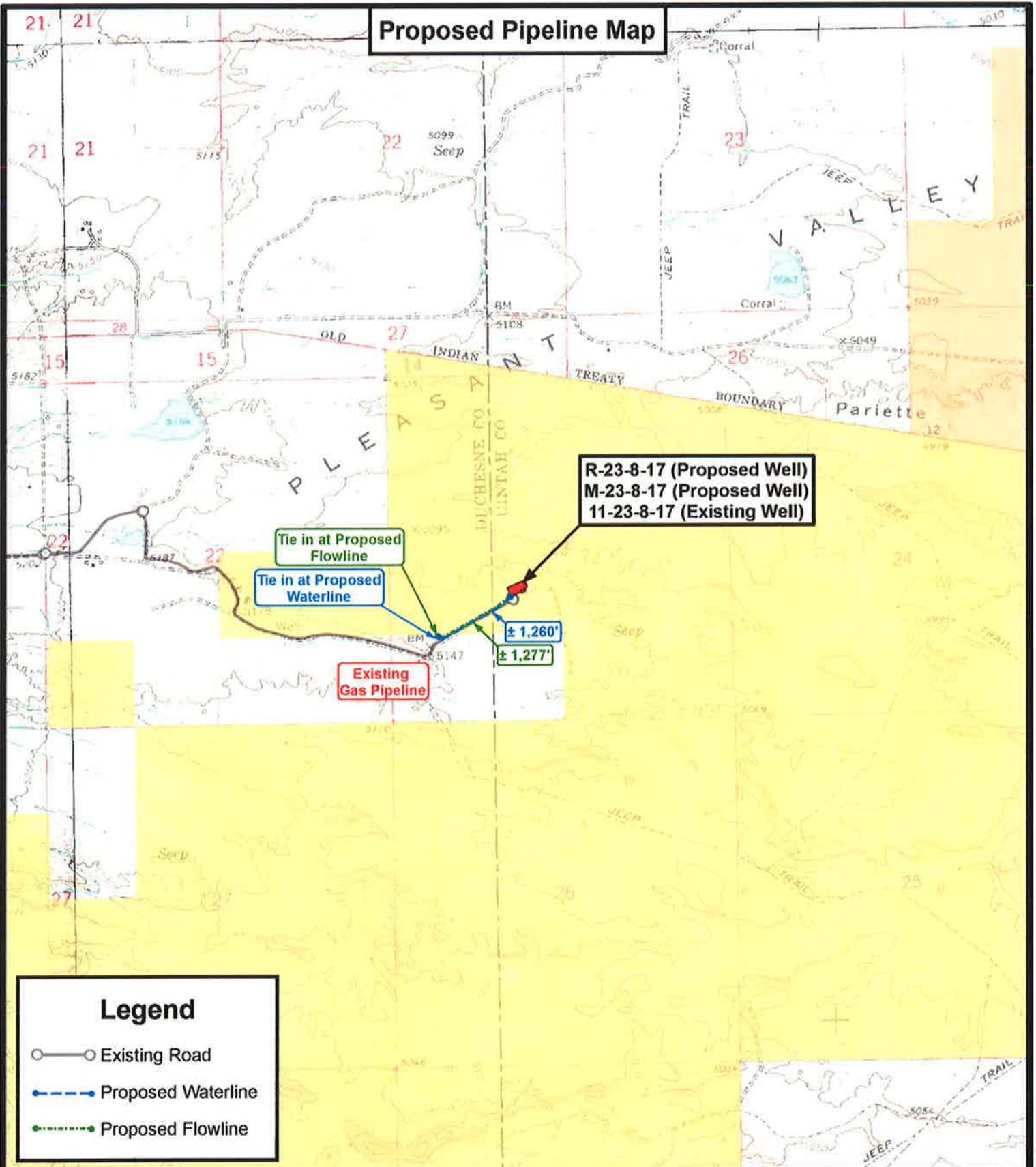
R-23-8-17 (Proposed Well)  
 M-23-8-17 (Proposed Well)  
 11-23-8-17 (Existing Well)  
 SEC. 23, T8S, R17E, S.L.B.&M. Uintah County, UT.

DRAWN BY:	C.H.M.
DATE:	09-17-2010
SCALE:	1" = 2,000'

**TOPOGRAPHIC MAP**

SHEET  
**B**

# Proposed Pipeline Map



R-23-8-17 (Proposed Well)  
 M-23-8-17 (Proposed Well)  
 11-23-8-17 (Existing Well)

Tie in at Proposed Flowline

Tie in at Proposed Waterline

Existing Gas Pipeline

± 1,260'  
 ± 1,277'

**Legend**

- Existing Road
- Proposed Waterline
- Proposed Flowline



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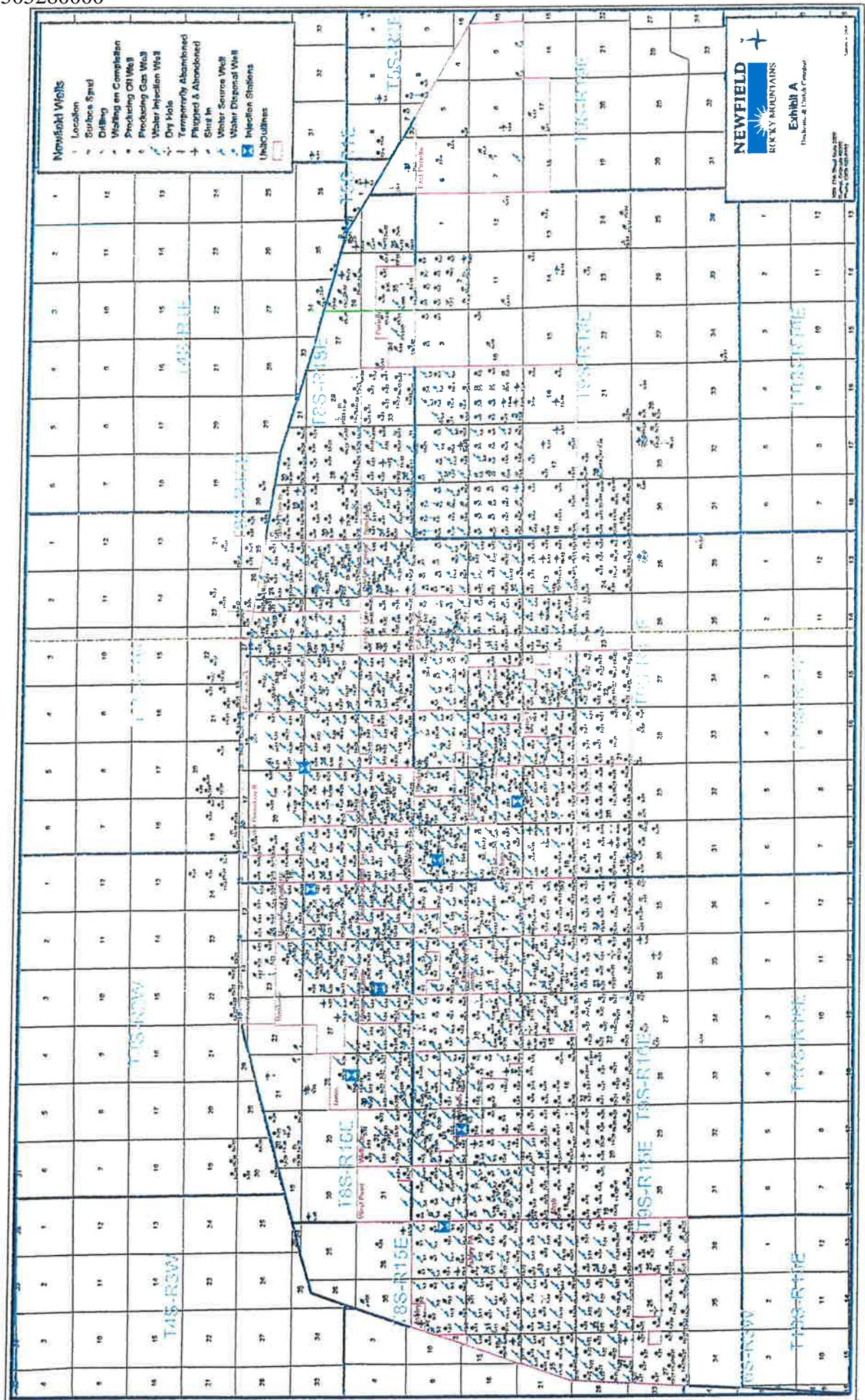
**NEWFIELD EXPLORATION COMPANY**

R-23-8-17 (Proposed Well)  
 M-23-8-17 (Proposed Well)  
 11-23-8-17 (Existing Well)  
 SEC. 23, T8S, R17E, S.L.B.&M. Uintah County, UT.

DRAWN BY:	C.H.M.
DATE:	09-17-2010
SCALE:	1" = 2,000'

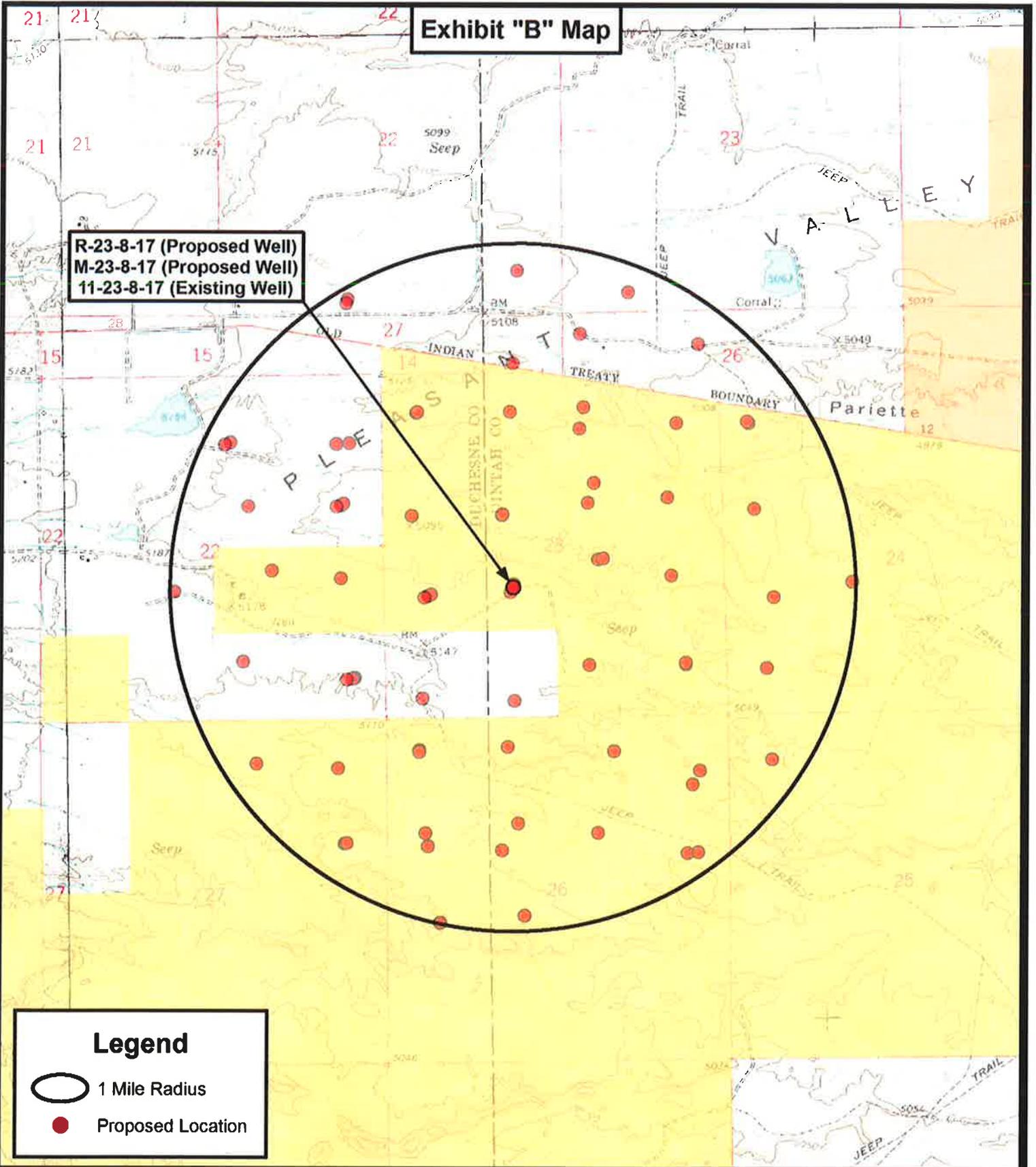
**TOPOGRAPHIC MAP**

SHEET **C**



### Exhibit "B" Map

R-23-8-17 (Proposed Well)  
M-23-8-17 (Proposed Well)  
11-23-8-17 (Existing Well)



**Legend**

- 1 Mile Radius
- Proposed Location



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### NEWFIELD EXPLORATION COMPANY

R-23-8-17 (Proposed Well)  
M-23-8-17 (Proposed Well)  
11-23-8-17 (Existing Well)  
SEC. 23, T8S, R17E, S.L.B.&M. Uintah County, UT.

DRAWN BY: C.H.M.  
DATE: 09-17-2010  
SCALE: 1" = 2,000'

**TOPOGRAPHIC MAP**

SHEET  
**D**



# **NEWFIELD EXPLORATION**

**USGS Myton SW (UT)  
SECTION 23 T8S, R17E  
M-23-8-17**

**Wellbore #1**

**Plan: Design #1**

## **Standard Planning Report**

**04 October, 2010**





**PayZone Directional Services, LLC.**

Planning Report



<b>Database:</b>	EDM 2003.21 Single User Db	<b>Local Co-ordinate Reference:</b>	Well M-23-8-17
<b>Company:</b>	NEWFIELD EXPLORATION	<b>TVD Reference:</b>	M-23-8-17 @ 5141.0ft (Original Well Elev)
<b>Project:</b>	USGS Myton SW (UT)	<b>MD Reference:</b>	M-23-8-17 @ 5141.0ft (Original Well Elev)
<b>Site:</b>	SECTION 23 T8S, R17E	<b>North Reference:</b>	True
<b>Well:</b>	M-23-8-17	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	Wellbore #1		
<b>Design:</b>	Design #1		

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

<b>Site</b>	SECTION 23 T8S, R17E				
<b>Site Position:</b>		<b>Northing:</b>	7,207,900.00ft	<b>Latitude:</b>	40° 5' 51.665 N
<b>From:</b>	Map	<b>Easting:</b>	2,064,500.00ft	<b>Longitude:</b>	109° 59' 2.132 W
<b>Position Uncertainty:</b>	0.0 ft	<b>Slot Radius:</b>	"	<b>Grid Convergence:</b>	0.97 °

<b>Well</b>	M-23-8-17, SHL LAT: 40° 06' 06.18, LONG: -109° 58' 33.60					
<b>Well Position</b>	<b>+N/-S</b>	1,460.5 ft	<b>Northing:</b>	7,209,398.04 ft	<b>Latitude:</b>	40° 6' 6.100 N
	<b>+E/-W</b>	2,217.1 ft	<b>Easting:</b>	2,066,691.88 ft	<b>Longitude:</b>	109° 58' 33.600 W
<b>Position Uncertainty</b>		0.0 ft	<b>Wellhead Elevation:</b>	5,141.0 ft	<b>Ground Level:</b>	5,129.0 ft

<b>Wellbore</b>	Wellbore #1				
<b>Magnetics</b>	<b>Model Name</b>	<b>Sample Date</b>	<b>Declination (°)</b>	<b>Dip Angle (°)</b>	<b>Field Strength (nT)</b>
	IGRF2010	2010/10/04	11.38	65.88	52,385

<b>Design</b>	Design #1				
<b>Audit Notes:</b>					
<b>Version:</b>	<b>Phase:</b>	PROTOTYPE	<b>Tie On Depth:</b>	0.0	
<b>Vertical Section:</b>	<b>Depth From (TVD) (ft)</b>	<b>+N/-S (ft)</b>	<b>+E/-W (ft)</b>	<b>Direction (°)</b>	
	5,500.0	0.0	0.0	47.00	

Plan Sections										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	TFO (°)	Target
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.00	0.00	
600.0	0.00	0.00	600.0	0.0	0.0	0.00	0.00	0.00	0.00	
1,502.9	13.54	47.00	1,494.6	72.5	77.7	1.50	1.50	0.00	47.00	
5,623.0	13.54	47.00	5,500.0	730.5	783.3	0.00	0.00	0.00	0.00	M-23-8-17 TGT
6,805.9	13.54	47.00	6,650.0	919.5	985.9	0.00	0.00	0.00	0.00	



**PayZone Directional Services, LLC.**

**Planning Report**



<b>Database:</b>	EDM 2003.21 Single User Db	<b>Local Co-ordinate Reference:</b>	Well M-23-8-17
<b>Company:</b>	NEWFIELD EXPLORATION	<b>TVD Reference:</b>	M-23-8-17 @ 5141.0ft (Original Well Elev)
<b>Project:</b>	USGS Myton SW (UT)	<b>MD Reference:</b>	M-23-8-17 @ 5141.0ft (Original Well Elev)
<b>Site:</b>	SECTION 23 T8S, R17E	<b>North Reference:</b>	True
<b>Well:</b>	M-23-8-17	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	Wellbore #1		
<b>Design:</b>	Design #1		

**Planned Survey**

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.00	0.00	0.00
100.0	0.00	0.00	100.0	0.0	0.0	0.0	0.00	0.00	0.00
200.0	0.00	0.00	200.0	0.0	0.0	0.0	0.00	0.00	0.00
300.0	0.00	0.00	300.0	0.0	0.0	0.0	0.00	0.00	0.00
400.0	0.00	0.00	400.0	0.0	0.0	0.0	0.00	0.00	0.00
500.0	0.00	0.00	500.0	0.0	0.0	0.0	0.00	0.00	0.00
600.0	0.00	0.00	600.0	0.0	0.0	0.0	0.00	0.00	0.00
700.0	1.50	47.00	700.0	0.9	1.0	1.3	1.50	1.50	0.00
800.0	3.00	47.00	799.9	3.6	3.8	5.2	1.50	1.50	0.00
900.0	4.50	47.00	899.7	8.0	8.6	11.8	1.50	1.50	0.00
1,000.0	6.00	47.00	999.3	14.3	15.3	20.9	1.50	1.50	0.00
1,100.0	7.50	47.00	1,098.6	22.3	23.9	32.7	1.50	1.50	0.00
1,200.0	9.00	47.00	1,197.5	32.1	34.4	47.0	1.50	1.50	0.00
1,300.0	10.50	47.00	1,296.1	43.6	46.8	64.0	1.50	1.50	0.00
1,400.0	12.00	47.00	1,394.2	56.9	61.0	83.5	1.50	1.50	0.00
1,502.9	13.54	47.00	1,494.6	72.5	77.7	106.2	1.50	1.50	0.00
1,600.0	13.54	47.00	1,588.9	88.0	94.3	129.0	0.00	0.00	0.00
1,700.0	13.54	47.00	1,686.1	103.9	111.4	152.4	0.00	0.00	0.00
1,800.0	13.54	47.00	1,783.4	119.9	128.6	175.8	0.00	0.00	0.00
1,900.0	13.54	47.00	1,880.6	135.9	145.7	199.2	0.00	0.00	0.00
2,000.0	13.54	47.00	1,977.8	151.8	162.8	222.6	0.00	0.00	0.00
2,100.0	13.54	47.00	2,075.0	167.8	179.9	246.1	0.00	0.00	0.00
2,200.0	13.54	47.00	2,172.2	183.8	197.1	269.5	0.00	0.00	0.00
2,300.0	13.54	47.00	2,269.4	199.8	214.2	292.9	0.00	0.00	0.00
2,400.0	13.54	47.00	2,366.7	215.7	231.3	316.3	0.00	0.00	0.00
2,500.0	13.54	47.00	2,463.9	231.7	248.5	339.7	0.00	0.00	0.00
2,600.0	13.54	47.00	2,561.1	247.7	265.6	363.2	0.00	0.00	0.00
2,700.0	13.54	47.00	2,658.3	263.7	282.7	386.6	0.00	0.00	0.00
2,800.0	13.54	47.00	2,755.5	279.6	299.8	410.0	0.00	0.00	0.00
2,900.0	13.54	47.00	2,852.8	295.6	317.0	433.4	0.00	0.00	0.00
3,000.0	13.54	47.00	2,950.0	311.6	334.1	456.8	0.00	0.00	0.00
3,100.0	13.54	47.00	3,047.2	327.5	351.2	480.2	0.00	0.00	0.00
3,200.0	13.54	47.00	3,144.4	343.5	368.3	503.7	0.00	0.00	0.00
3,300.0	13.54	47.00	3,241.6	359.5	385.5	527.1	0.00	0.00	0.00
3,400.0	13.54	47.00	3,338.9	375.5	402.6	550.5	0.00	0.00	0.00
3,500.0	13.54	47.00	3,436.1	391.4	419.7	573.9	0.00	0.00	0.00
3,600.0	13.54	47.00	3,533.3	407.4	436.8	597.3	0.00	0.00	0.00
3,700.0	13.54	47.00	3,630.5	423.4	454.0	620.8	0.00	0.00	0.00
3,800.0	13.54	47.00	3,727.7	439.4	471.1	644.2	0.00	0.00	0.00
3,900.0	13.54	47.00	3,825.0	455.3	488.2	667.6	0.00	0.00	0.00
4,000.0	13.54	47.00	3,922.2	471.3	505.4	691.0	0.00	0.00	0.00
4,100.0	13.54	47.00	4,019.4	487.3	522.5	714.4	0.00	0.00	0.00
4,200.0	13.54	47.00	4,116.6	503.2	539.6	737.9	0.00	0.00	0.00
4,300.0	13.54	47.00	4,213.8	519.2	556.7	761.3	0.00	0.00	0.00
4,400.0	13.54	47.00	4,311.0	535.2	573.9	784.7	0.00	0.00	0.00
4,500.0	13.54	47.00	4,408.3	551.2	591.0	808.1	0.00	0.00	0.00
4,600.0	13.54	47.00	4,505.5	567.1	608.1	831.5	0.00	0.00	0.00
4,700.0	13.54	47.00	4,602.7	583.1	625.2	855.0	0.00	0.00	0.00
4,800.0	13.54	47.00	4,699.9	599.1	642.4	878.4	0.00	0.00	0.00
4,900.0	13.54	47.00	4,797.1	615.1	659.5	901.8	0.00	0.00	0.00
5,000.0	13.54	47.00	4,894.4	631.0	676.6	925.2	0.00	0.00	0.00
5,100.0	13.54	47.00	4,991.6	647.0	693.8	948.6	0.00	0.00	0.00
5,200.0	13.54	47.00	5,088.8	663.0	710.9	972.1	0.00	0.00	0.00
5,300.0	13.54	47.00	5,186.0	678.9	728.0	995.5	0.00	0.00	0.00



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



<b>Database:</b>	EDM 2003.21 Single User Db	<b>Local Co-ordinate Reference:</b>	Well M-23-8-17
<b>Company:</b>	NEWFIELD EXPLORATION	<b>TVD Reference:</b>	M-23-8-17 @ 5141.0ft (Original Well Elev)
<b>Project:</b>	USGS Myton SW (UT)	<b>MD Reference:</b>	M-23-8-17 @ 5141.0ft (Original Well Elev)
<b>Site:</b>	SECTION 23 T8S, R17E	<b>North Reference:</b>	True
<b>Well:</b>	M-23-8-17	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	Wellbore #1		
<b>Design:</b>	Design #1		

**Planned Survey**

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
5,400.0	13.54	47.00	5,283.2	694.9	745.1	1,018.9	0.00	0.00	0.00
5,500.0	13.54	47.00	5,380.5	710.9	762.3	1,042.3	0.00	0.00	0.00
5,600.0	13.54	47.00	5,477.7	726.9	779.4	1,065.7	0.00	0.00	0.00
5,623.0	13.54	47.00	5,500.0	730.5	783.3	1,071.1	0.00	0.00	0.00
<b>M-23-8-17 TGT</b>									
5,700.0	13.54	47.00	5,574.9	742.8	796.5	1,089.2	0.00	0.00	0.00
5,800.0	13.54	47.00	5,672.1	758.8	813.6	1,112.6	0.00	0.00	0.00
5,900.0	13.54	47.00	5,769.3	774.8	830.8	1,136.0	0.00	0.00	0.00
6,000.0	13.54	47.00	5,866.6	790.8	847.9	1,159.4	0.00	0.00	0.00
6,100.0	13.54	47.00	5,963.8	806.7	865.0	1,182.8	0.00	0.00	0.00
6,200.0	13.54	47.00	6,061.0	822.7	882.2	1,206.2	0.00	0.00	0.00
6,300.0	13.54	47.00	6,158.2	838.7	899.3	1,229.7	0.00	0.00	0.00
6,400.0	13.54	47.00	6,255.4	854.7	916.4	1,253.1	0.00	0.00	0.00
6,500.0	13.54	47.00	6,352.6	870.6	933.5	1,276.5	0.00	0.00	0.00
6,600.0	13.54	47.00	6,449.9	886.6	950.7	1,299.9	0.00	0.00	0.00
6,700.0	13.54	47.00	6,547.1	902.6	967.8	1,323.3	0.00	0.00	0.00
6,805.9	13.54	47.00	6,650.0	919.5	985.9	1,348.1	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
M-23-8-17 TGT	0.00	0.00	5,500.0	730.5	783.3	7,210,141.81	2,067,462.64	40° 6' 13.320 N	109° 58' 23.518 W
- hit/miss target									
- Shape									
- plan hits target									
- Circle (radius 75.0)									



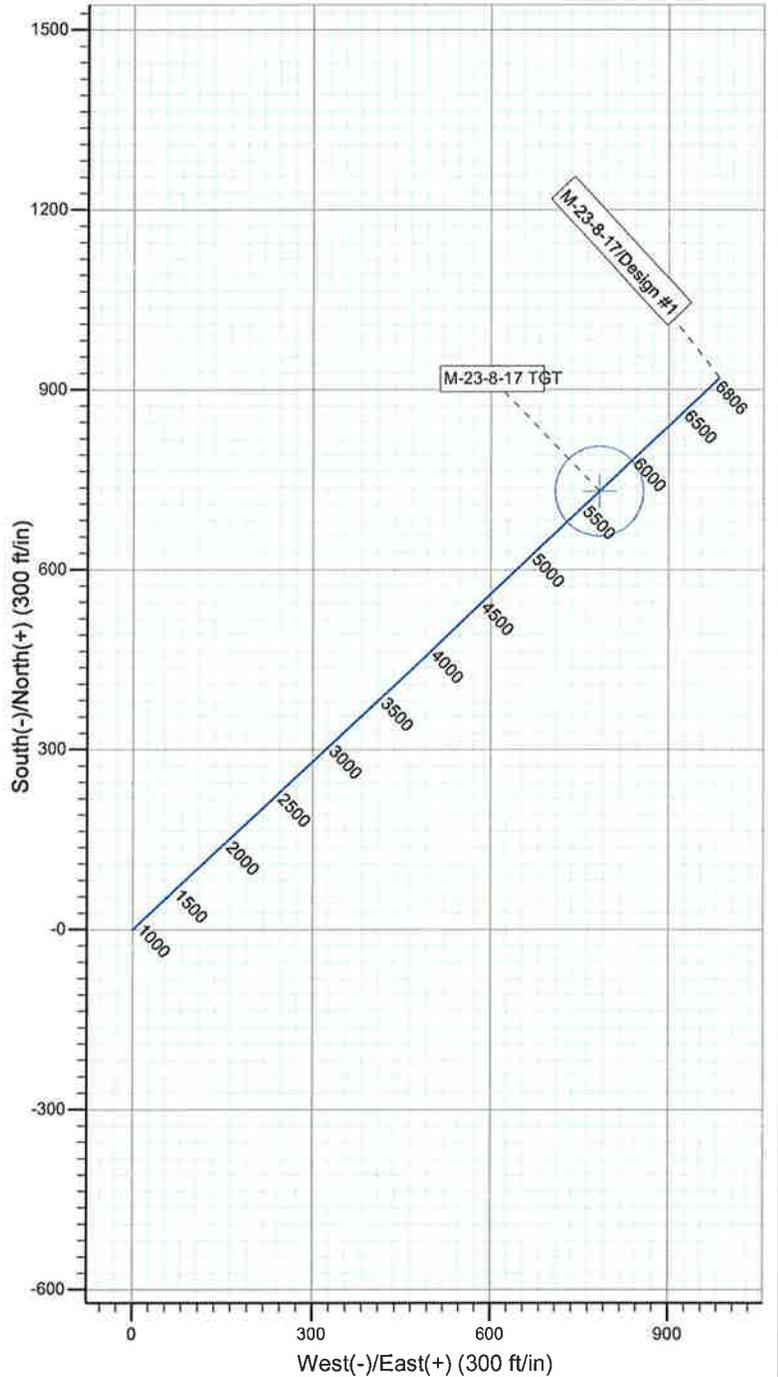
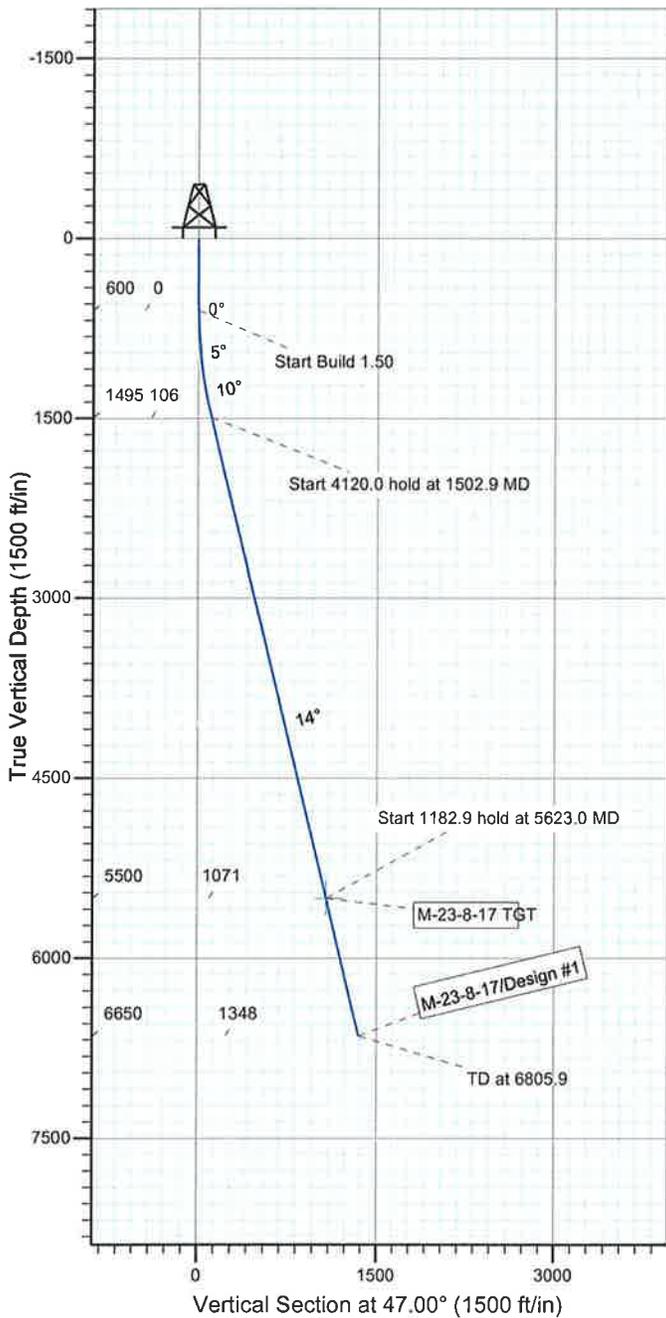
Project: USGS Myton SW (UT)  
 Site: SECTION 23 T8S, R17E  
 Well: M-23-8-17  
 Wellbore: Wellbore #1  
 Design: Design #1



Azimuths to True North  
 Magnetic North: 11.38°

Magnetic Field  
 Strength: 52385.4snT  
 Dip Angle: 65.88°  
 Date: 2010/10/04  
 Model: IGRF2010

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



WELLBORE TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Shape
M-23-8-17 TGT	5500.0	730.5	783.3	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	1502.9	13.54	47.00	1494.6	72.5	77.7	1.50	47.00	106.2	
4	5623.0	13.54	47.00	5500.0	730.5	783.3	0.00	0.00	1071.1	M-23-8-17 TGT
5	6805.9	13.54	47.00	6650.0	919.5	985.9	0.00	0.00	1348.1	



**NEWFIELD PRODUCTION COMPANY  
GREATER MONUMENT BUTTE M-23-8-17  
AT SURFACE: NE/SW SECTION 23, T8S, R17E  
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 M-23-8-17 located in the NE 1/4 SW 1/4 Section 23, T8S, R17E, 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 – 6.8 miles  $\pm$  to it's junction with an existing road to the east; proceed easterly - 3.0 miles  $\pm$  to it's junction with an existing road to the northeast; proceed northeasterly - 0.3 miles  $\pm$  to it's junction with an existing road to the southeast; proceed in a southeasterly direction - 1.4 miles  $\pm$  to the existing 11-23-8-17 well location.

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

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

**2. PLANNED ACCESS ROAD**

There is no proposed access road for this location. The proposed well will be drilled directionally off of the existing 11-23-8-17 well pad. See attached **Topographic Map "B"**.

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

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

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

**3. LOCATION OF EXISTING WELLS**

Refer to Exhibit "B".

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

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

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

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

Tank batteries will be built to State specifications.

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

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

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

Johnson Water District  
Water Right : 43-10136

Maurice Harvey Pond  
Water Right: 47-1358

Neil Moon Pond  
Water Right: 43-11787

Newfield Collector Well  
Water Right: 41-1817 (A30414DVA, contracted with the Duchesne County Conservancy District).

There will be no water well drilled at this site.

6. **SOURCE OF CONSTRUCTION MATERIALS**

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

A mineral material application is not required for this location.

7. **METHODS FOR HANDLING WASTE DISPOSAL**

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

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

A portable toilet will be provided for human waste.

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

8. **ANCILLARY FACILITIES**

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

9. **WELL SITE LAYOUT**

See attached Location Layout Sheet.

**Fencing Requirements**

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

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

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

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

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

a) Producing Location

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

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

b) Dry Hole Abandoned Location

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

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

12. **OTHER ADDITIONAL INFORMATION**

The Archaeological Resource Survey and Paleontological Resource Survey for this area are attached. MOAC Report #02-63, 6/10/02. Paleontological Resource Survey prepared by, Wade E. Miller, 5/4/02. See attached report cover pages, Exhibit "D".

Newfield Production Company requests 1,260' of buried water line to be granted in Lease UTU-76239.

It is proposed that the disturbed area will be 60' wide to allow for construction of the proposed access road, a 10" or smaller gas gathering line, a 4" poly fuel gas line, a buried 10" steel water injection line, a buried 3" poly water return line, and a and a 14" surface flow line. The planned access road will consist of a 20' permanent running surface (10' either side of the centerline) crowned and ditched in order to handle any run-off from any precipitation events that are prevalent to this area. The maximum grade will be less than 8%. There will be no culverts required along this access road. There will be turnouts as needed along this road to allow for increases in potential traffic issues. 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.

Both the proposed surface gas and buried water lines will tie in to the existing pipeline infrastructure. **Refer to Topographic Map "C."** The proposed water pipelines will be buried in a 4-5' deep trench constructed with a trencher or backhoe for the length of the proposal. The equipment will run on the surface and not be flat bladed to minimize surface impacts to precious topsoil in these High Desert environments. If possible, all proposed surface gas pipelines will be installed on the same side of the road as existing gas lines. The construction phase of the planned access road, proposed gas lines and proposed water lines will last approximately (5) days.

In the event that the proposed well is converted to a water injection well, a Sundry Notice 3160-5 form will be applied for through the Bureau of Land Management field office.

For a ROW plan of development, please refer to the Greater Monument Butte Green River Development SOP and as well as the Castle Peak and Eight Mile Flat Reclamation and Weed Management Plan.

#### **Surface Flow Line**

Newfield requests 1,277' of surface flow line be granted. The Surface Flow Line will consist of up to a 14" bundled pipe consisting of 2-2" poly glycol lines and 1-3" production line. For all new wells, Newfield. **Refer to Topographic Map "D"** for the proposed location of the proposed flow line. Flow lines will be tan and will be constructed using the following procedures:

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

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

Termination and Final Reclamation: After abandonment of the associated production facilities, the flow lines will be cut and removed, and any incidental surface disturbance reclaimed. Reclamation

procedures will follow those outlined in the Castle Peak and Eight Mile Flat Reclamation and Weed Management Plan.

**Water Disposal**

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

**Additional Surface Stipulations**

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

**Details of the On-Site Inspection**

The proposed Greater Monument Butte M-23-8-17 was on-sited on 11/9/10. The following were present; Tim Eaton (Newfield Production), Christine Cimiluca (Bureau of Land Management), Suzanne Grayson (Bureau of Land Management), and Janna Simonsen (Bureau of Land Management). Weather conditions were clear and ground cover was 100% open.

**Hazardous Material Declaration**

Newfield Production Company guarantees that during the drilling and completion of the Greater Monument Butte M-23-8-17, Newfield will not use, produce, store, transport or dispose 10,000# annually of any of the hazardous chemicals contained in the Environmental Protection Agency's consolidated list of chemicals subject to reporting under Title III Superfund Amendments and Reauthorization Act (SARA) of 1986. Newfield also guarantees that during the drilling and completion of the Greater Monument Butte M-23-8-17, Newfield will use, produce, store, transport or dispose less than the threshold planning quantity (T.P.Q.) of any extremely hazardous substances as defined in 40 CFR 355.

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

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

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

Representative

Name: 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 #M-23-8-17, Section 23, Township 8S, Range 17E: Lease UTU-76239 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.

12/8/10  
Date

  
Mandie Crozier  
Regulatory Specialist  
Newfield Production Company

## 2-M SYSTEM

Blowout Prevention Equipment Systems

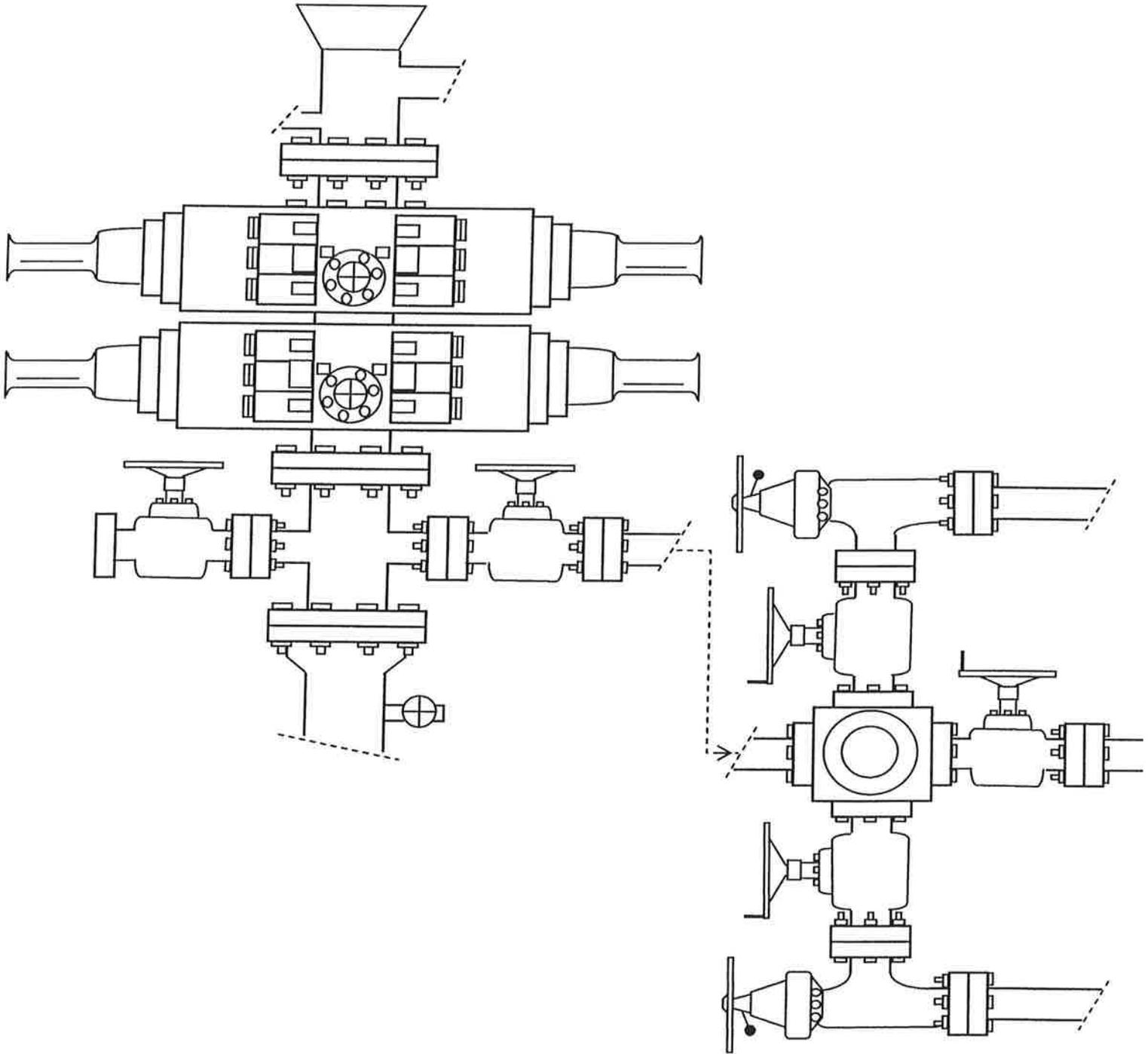


EXHIBIT C

# 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)**

December 9, 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)		
43-013-50528	GMBU M-23-8-17	Sec 23 T08S R17E 1995 FSL 1996 FWL BHL Sec 23 T08S R17E 2236 FNL 2273 FEL
43-013-50529	GMBU R-23-8-17	Sec 23 T08S R17E 1975 FSL 1991 FWL BHL Sec 23 T08S R17E 1164 FSL 2506 FEL
43-013-50530	GMBU N-23-8-17	Sec 23 T08S R17E 1874 FSL 0723 FWL BHL Sec 23 T08S R17E 2606 FNL 1374 FWL
43-013-50531	GMBU Q-23-8-17	Sec 23 T08S R17E 1863 FSL 0704 FWL BHL Sec 23 T08S R17E 1014 FSL 1464 FWL
43-047-51399	GMBU H-24-8-17	Sec 24 T08S R17E 1217 FNL 1933 FWL BHL Sec 24 T08S R17E 0260 FNL 2541 FEL
43-047-51400	GMBU M-24-8-17	Sec 24 T08S R17E 1226 FNL 1912 FWL BHL Sec 24 T08S R17E 2497 FSL 2363 FEL
43-047-51401	GMBU B-25-8-17	Sec 24 T08S R17E 0643 FSL 0674 FEL BHL Sec 25 T08S R17E 0334 FNL 1483 FEL
43-013-50532	GMBU Q-30-8-17	Sec 30 T08S R17E 1978 FSL 1911 FWL BHL Sec 30 T08S R17E 1245 FSL 1200 FWL

API#	WELL NAME	LOCATION
(Proposed PZ GREEN RIVER)		
43-013-50533	GMBU R-30-8-17	Sec 30 T08S R17E 1996 FSL 1923 FWL BHL Sec 30 T08S R17E 1239 FSL 2393 FEL
43-013-50534	GMBU I-1-9-16	Sec 01 T09S R16E 2136 FNL 1969 FEL BHL Sec 01 T09S R16E 1162 FNL 1294 FEL
43-013-50535	GMBU K-1-9-16	Sec 06 T09S R17E 1988 FNL 0583 FWL BHL Sec 01 T09S R16E 2387 FSL 0291 FEL
43-013-50536	GMBU L-1-9-16	Sec 01 T09S R16E 1973 FSL 1961 FEL BHL Sec 01 T09S R16E 2458 FNL 1122 FEL
43-013-50537	GMBU S-1-9-16	Sec 01 T09S R16E 1964 FSL 1942 FEL BHL Sec 01 T09S R16E 0999 FSL 1028 FEL
43-013-50538	GMBU S-10-9-16	Sec 10 T09S R16E 0598 FSL 1959 FEL BHL Sec 10 T09S R16E 1450 FSL 1170 FEL
43-013-50539	GMBU R-10-9-16	Sec 10 T09S R16E 0644 FSL 2017 FWL BHL Sec 10 T09S R16E 1417 FSL 2500 FEL
43-013-50540	GMBU C-15-9-16	Sec 10 T09S R16E 0624 FSL 2022 FWL BHL Sec 15 T09S R16E 0200 FNL 2508 FEL

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

Michael L. Coulthard

Digitally signed by Michael L. Coulthard  
DN: cn=Michael L. Coulthard, o=Bureau of Land Management, ou=Branch of Minerals,  
email=Michael\_Coulthard@blm.gov, c=US  
Date: 2010.12.09 11:11:06 -0700

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

MCoulthard:mc:12-9-10



VIA ELECTRONIC DELIVERY

December 10, 2010

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

RE: Directional Drilling  
**Greater Monument Butte M-23-8-17**  
Greater Monument Butte (Green River) Unit

Surface Hole: T8S-R17E Section 23: NESW (UTU-76239)  
1995' FSL 1996' FWL

At Target: T8S-R17E Section 23: SWNE (UTU-76239)  
2236' FNL 2273' 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 12/8/10, 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

Form 3160-3  
(August 2007)

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

**APPLICATION FOR PERMIT TO DRILL OR REENTER**

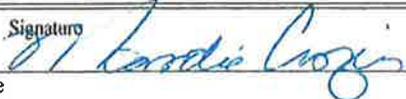
FORM APPROVED  
OMB No. 1004-0137  
Expires July 31, 2010

5. Lease Serial No. UTU-76239	
6. If Indian, Allottee or Tribe Name NA	
7. If Unit or CA Agreement, Name and No. Greater Monument Butte	
8. Lease Name and Well No. Greater Monument Butte M-23-8-17	
9. API Well No.	
1a. Type of work: <input checked="" type="checkbox"/> DRILL <input type="checkbox"/> REENTER	10. Field and Pool, or Exploratory Monument Butte
1b. Type of Well: <input checked="" type="checkbox"/> Oil Well <input type="checkbox"/> Gas Well <input type="checkbox"/> Other <input checked="" type="checkbox"/> Single Zone <input type="checkbox"/> Multiple Zone	11. Sec., T. R. M. or Blk. and Survey or Area Sec. 23, T8S R17E
2. Name of Operator Newfield Production Company	
3a. Address Route #3 Box 3630, Myton UT 84052	3b. Phone No. (include area code) (435) 646-3721
4. Location of Well (Report location clearly and in accordance with any State requirements.)* At surface NE/SW 1995' FSL 1996' FWL Sec. 23, T8S R17E (UTU-76239) At proposed prod. zone SW/NE 2236' FNL 2273' FEL Sec. 23, T8S R17E (UTU-76239)	
14. Distance in miles and direction from nearest town or post office* Approximately 12.9 miles southeast of Myton, UT	12. County or Parish Duchesne
	13. State UT
15. Distance from proposed* location to nearest property or lease line, ft. Approx. 953' f/lse, NA' f/unit (Also to nearest drig. unit line, if any)	16. No. of acres in lease 473.84
	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. 1,212'	19. Proposed Depth 6,806'
	20. BLM/BIA Bond No. on file WYB000493
21. Elevations (Show whether DF, KDB, RT, GL, etc.) 5129' GL	22. Approximate date work will start* 1st Qtr. 2011
	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:

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

25. Signature 	Name (Printed Typed) Mandie Crozier	Date 12/8/10
---	--	-----------------

Title  
Regulatory Specialist

Approved by (Signature)	Name (Printed Typed)	Date
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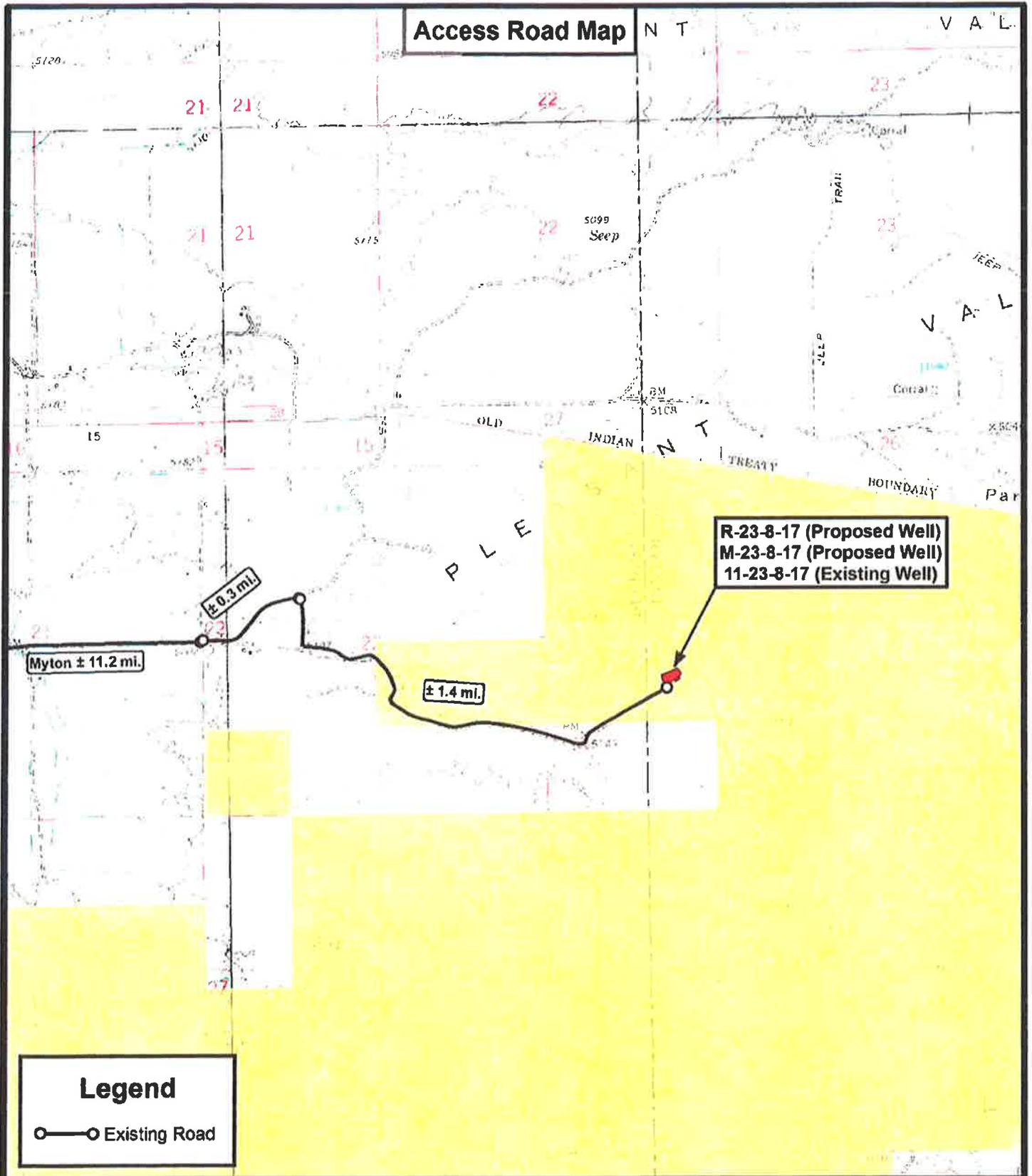
Title  
Office

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.



**Access Road Map**



**Legend**

○—○ Existing Road

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

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

DRAWN BY: C.H.M.  
 DATE: 09-17-2010  
 SCALE: 1" = 2,000'



**NEWFIELD EXPLORATION COMPANY**

R-23-8-17 (Proposed Well)  
 M-23-8-17 (Proposed Well)  
 11-23-8-17 (Existing Well)

SEC. 23, T8S, R17E, S.L.B.&M. Uintah County, UT.

**TOPOGRAPHIC MAP**

SHEET **B**

**API Number: 4301350528**  
**Well Name: Greater Monument Butte M-23-8-17**  
**Township 08.0 S Range 17.0 E Section 23**  
**Meridian: SLBM**  
**Operator: NEWFIELD PRODUCTION COMPAN**

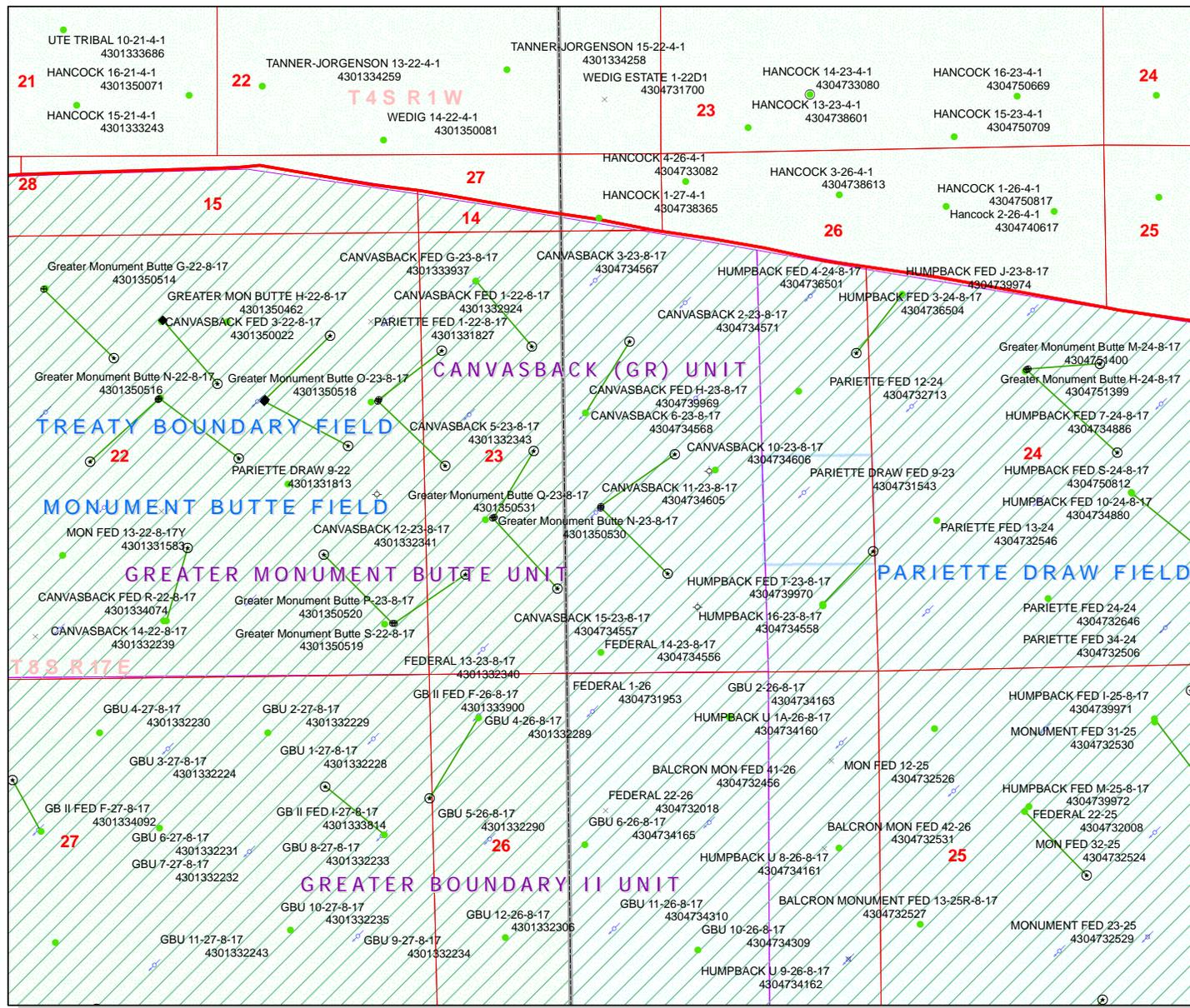
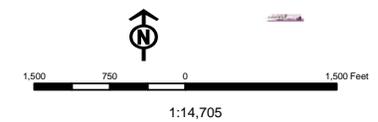
Map Prepared:  
 Map Produced by Diana Mason

**SGID93.ENERGY.DNR.Oil&Gas.Wells** Units

<ul style="list-style-type: none"> <li>✕ - All other values</li> <li>◆ APD - Approved Permit</li> <li>⊕ DRL - Spudded (Drilling Commenced)</li> <li>⊖ GW - Gas Injection</li> <li>⊖ GS - Gas Storage</li> <li>⊖ LA - Location Abandoned</li> <li>⊖ LOC - New Location</li> <li>⊖ OPS - Operation Suspended</li> <li>⊖ PA - Plugged Abandoned</li> <li>⊖ PGW - Producing Gas Well</li> <li>⊖ POW - Producing Oil Well</li> <li>⊖ RET - Returned APD</li> <li>⊖ SGW - Shut-in Gas Well</li> <li>⊖ SDW - Shut-in Oil Well</li> <li>⊖ TA - Temp. Abandoned</li> <li>⊖ TW - Test Well</li> <li>⊖ WDW - Water Disposal</li> <li>⊖ WW - Water Injection Well</li> <li>⊖ WSW - Water Supply Well</li> </ul>	<ul style="list-style-type: none"> <li>□ ACTIVE</li> <li>□ EXPLORATORY</li> <li>□ GAS STORAGE</li> <li>□ NF PP OIL</li> <li>□ NF SECONDARY</li> <li>□ PI OIL</li> <li>□ PP GAS</li> <li>□ PP GEOTHERMAL</li> <li>□ PP OIL</li> <li>□ SECONDARY</li> <li>□ TERMINATED</li> </ul>
---	---

**Fields**

<ul style="list-style-type: none"> <li>⊖ Unknown</li> <li>⊖ ABANDONED</li> <li>⊖ ACTIVE</li> <li>⊖ COMBINED</li> <li>⊖ INACTIVE</li> <li>⊖ STORAGE</li> <li>⊖ TERMINATED</li> </ul>	<ul style="list-style-type: none"> <li>□ Sections</li> <li>□ Township</li> <li>⊖ Bottom Hole Location - AGRIC</li> </ul>
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# WORKSHEET APPLICATION FOR PERMIT TO DRILL

**APD RECEIVED:** 12/8/2010

**API NO. ASSIGNED:** 43013505280000

**WELL NAME:** Greater Monument Butte M-23-8-17

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

**PHONE NUMBER:** 435 646-4825

**CONTACT:** Mandie Crozier

**PROPOSED LOCATION:** NESW 23 080S 170E

**Permit Tech Review:**

**SURFACE:** 1995 FSL 1996 FWL

**Engineering Review:**

**BOTTOM:** 2236 FNL 2273 FEL

**Geology Review:**

**COUNTY:** DUCHESNE

**LATITUDE:** 40.10166

**LONGITUDE:** -109.97527

**UTM SURF EASTINGS:** 587344.00

**NORTHINGS:** 4439333.00

**FIELD NAME:** MONUMENT BUTTE

**LEASE TYPE:** 1 - Federal

**LEASE NUMBER:** UTU-76239

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

**SURFACE OWNER:** 1 - Federal

**COALBED METHANE:** NO

## RECEIVED AND/OR REVIEWED:

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

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  
IRR SEC:

**Stipulations:** 4 - Federal Approval - dmason  
15 - Directional - dmason  
27 - Other - bhill



GARY R. HERBERT  
*Governor*

GREGORY S. BELL  
*Lieutenant Governor*

## State of Utah

DEPARTMENT OF NATURAL RESOURCES

MICHAEL R. STYLER  
*Executive Director*

Division of Oil, Gas and Mining

JOHN R. BAZA  
*Division Director*

### Permit To Drill

\*\*\*\*\*

**Well Name:** Greater Monument Butte M-23-8-17  
**API Well Number:** 43013505280000  
**Lease Number:** UTU-76239  
**Surface Owner:** FEDERAL  
**Approval Date:** 12/14/2010

**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 "John Rogers", written over a faint, illegible stamp or background.

For John Rogers  
Associate Director, Oil & Gas

**From:** "Mandie Crozier" <mcrozier@newfield.com>  
**To:** "Diana Mason" <dianawhitney@utah.gov>  
**CC:** "Mandie Crozier" <mcrozier@newfield.com>  
**Date:** 3/14/2011 2:46 PM  
**Subject:** FW: M-23-8-17 AND R-23-8-17

I went ahead and resubmitted these two APD's with the correct County (Uintah). They need to replace what was originally submitted.

Mandie Crozier  
Newfield Production  
(435) 646-4825

> \_\_\_\_\_  
> From: Mandie Crozier  
> Sent: Monday, March 14, 2011 1:23 PM  
> To: 'Diana Mason'  
> Subject: M-23-8-17 AND R-23-8-17  
>  
> Hey Diana,  
> I have a huge problem with these two APD's that the BLM brought to my  
> attention. The original host well was permitted and approved as being  
> in Uintah County. I should have checked that before I submitted  
> these, but I assumed the survey company had it right, but they didn't.  
> The plats for these two infill 20 acre wells that are being proposed  
> off of that well pad show the surface as being in Duchesne County,  
> with a note on the plat that there is a discrepancy with the county  
> line.  
> In talking with the BLM we decided that it would be best to remain  
> consistant and have the 20 acre wells show as being in Uintah County  
> as well.  
>  
> The problem is, they have already been approved by you guys and  
> assigned a Duchesne County API number. How should be go about  
> handling these so I can get them resubmitted with the proper county  
> and the corrected plat pages?  
>  
> Greater Monument Butte M-23-8-17: 43-013-50528  
> Greater Monument Butte R-23-8-17: 43-013-50529  
>  
> Mandie Crozier  
> Newfield Production  
> (435) 646-4825  
>