

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL OR REENTER

1a. Type of Work: <input checked="" type="checkbox"/> DRILL <input type="checkbox"/> REENTER		5. Lease Serial No. UTU-76240
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		6. If Indian, Allottee or Tribe Name N/A
2. Name of Operator Newfield Production Company		7. If Unit or CA Agreement, Name and No. Greater Boundary II Unit
3a. Address Route #3 Box 3630, Myton UT 84052	3b. Phone No. (include area code) (435) 646-3721	8. Lease Name and Well No. Greater Boundary II Federal F-26-8-17
4. Location of Well (Report location clearly and in accordance with any State requirements. *) At surface NW/NW 516' FNL 512' FWL At proposed prod. zone At Target: 1285' FNL 45' FWL BHL: 1477' FNL 71' FEL (Sec. 27, T8S R17E) <b>NE NE</b>		9. API Well No. 43-013-33800
14. Distance in miles and direction from nearest town or post office* Approximately 13.8 miles southwest of Myton, Utah		10. Field and Pool, or Exploratory Monument Butte
15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any) Approx. 45' f/lease, 1285' f/unit	16. No. of Acres in lease 360.00	11. Sec., T., R., M., or Blk. and Survey or Area Sec. 26, T8S R17E
18. Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft. Approx. 1310'	19. Proposed Depth 6500'	12. County or Parish Duchesne
21. Elevations (Show whether DF, KDB, RT, GL, etc.) 5091' GL	22. Approximate date work will start* 2nd Quarter 2008	13. State UT
20. BLM/BIA Bond No. on file WYB000493		
23. Estimated duration Approximately seven (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, shall 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 shall 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 authorized officer.

25. Signature 	Name (Printed/Typed) Mandie Crozier	Date 1/14/08
Title Regulatory Specialist		
Approved by Signature 	Name (Printed/Typed) BRADLEY G. HILL	Date 01-30-08
Title Office	ENVIRONMENTAL MANAGER	

Application approval does not warrant or certify the 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.

\*(Instructions on reverse)

RECEIVED

FEB 04 2008

Surf  
586 900X  
44386644  
40.094777  
-109.980583

Target  
586 758X  
44383284  
40.092664  
-109.982225

BHL  
586 723X DIV. OF OIL, GAS & MINING  
44382704  
40.092143  
-109.982643

Federal Approval of this  
Action is Necessary



NEWFIELD PRODUCTION COMPANY  
GREATER BOUNDARY II FEDERAL #F-26-8-17  
AT SURFACE: NW/NW SECTION 26, T8S, R17E  
DUCHESNE COUNTY, UTAH

ONSHORE ORDER NO. 1

DRILLING PROGRAM

1. GEOLOGIC SURFACE FORMATION:

Uinta formation of Upper Eocene Age

2. ESTIMATED TOPS OF IMPORTANT GEOLOGIC MARKERS:

Uinta	0' – 1650'
Green River	1650'
Wasatch	6500'

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

Green River Formation 1650' – 6500' - Oil

4. PROPOSED CASING PROGRAM

Please refer to the Monument Butte Field Standard Operation Procedure (SOP).

5. MINIMUM SPECIFICATIONS FOR PRESSURE CONTROL:

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

6. TYPE AND CHARACTERISTICS OF THE PROPOSED CIRCULATION MUDS:

Please refer to the Monument Butte Field SOP.

7. AUXILIARY SAFETY EQUIPMENT TO BE USED:

Please refer to the Monument Butte Field SOP.

8. TESTING, LOGGING AND CORING PROGRAMS:

Please refer to the Monument Butte Field SOP.

9. ANTICIPATED ABNORMAL PRESSURE OR TEMPERATURE:

The anticipated maximum bottom hole pressure is 1800 psi. It is not anticipated that abnormal temperatures will be encountered.

10. ANTICIPATED STARTING DATE AND DURATION OF THE OPERATIONS:

Please refer to the Monument Butte Field SOP.

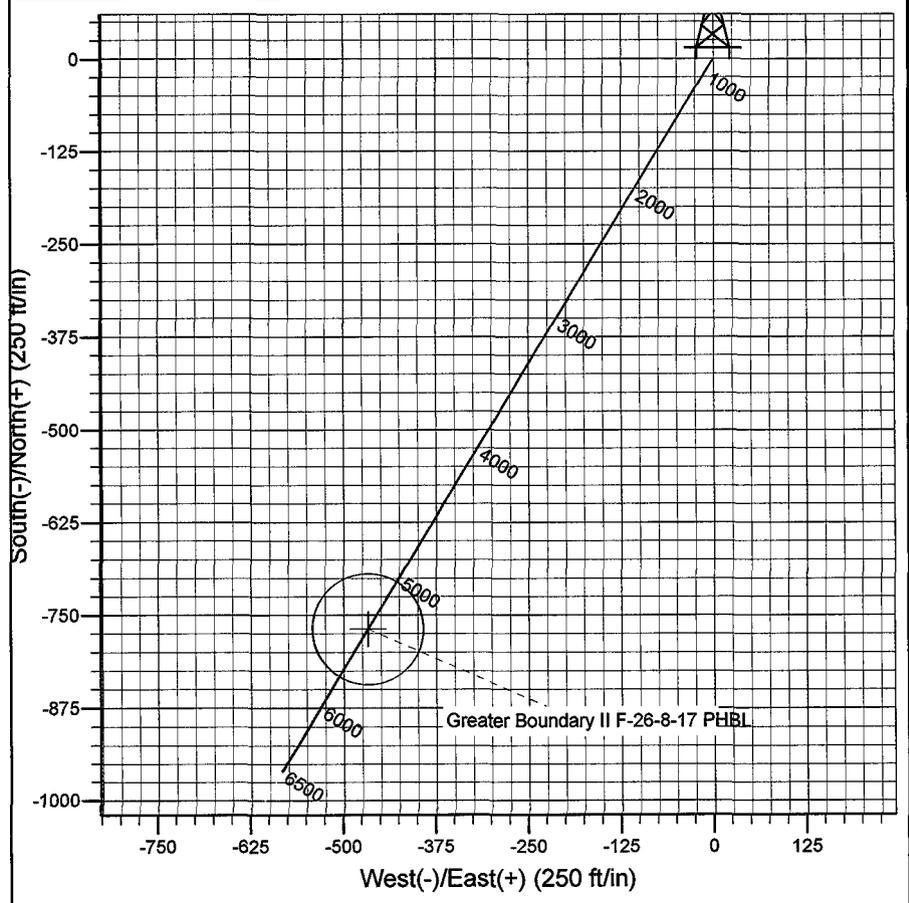
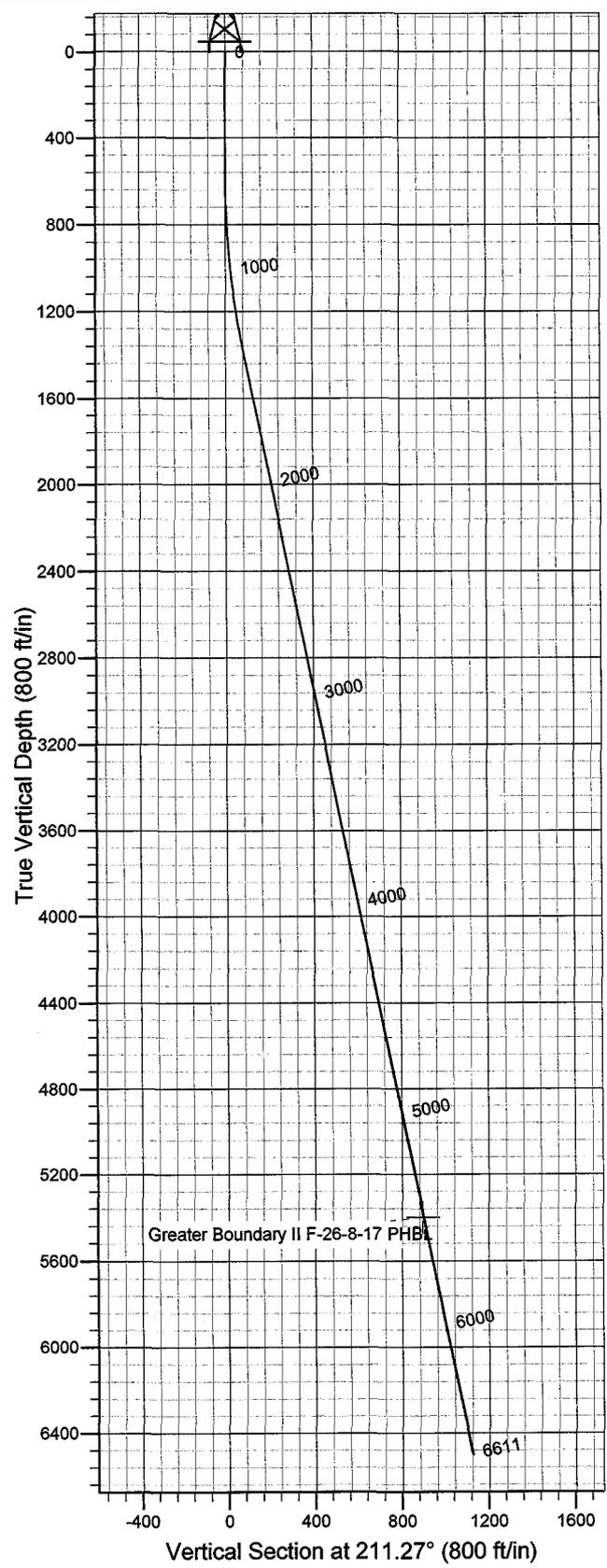


Azimuths to True North  
Magnetic North: 11.72°

Magnetic Field  
Strength: 52675.5snT  
Dip Angle: 65.94°  
Date: 2008-01-07  
Model: IGRF2005-10

WELL DETAILS: Greater Boundary II F-26-8-17

GL 5091' & RKB 12' @ 5103.00ft (NDSI 2)		5091.00
+N/-S	+E/-W	Northing
0.00	0.00	7206865.99
		Easting
		2065248.74
		Latitude
		40° 5' 41.180 N
		Longitude
		109° 58' 52.780 W



Plan: Plan #1 (Greater Boundary II F-26-8-17/OH)

Created By: Julie Cruse Date: 2008-01-07

PROJECT DETAILS: Duchesne County, UT

Geodetic System: US State Plane 1983  
 Datum: North American Datum 1983  
 Ellipsoid: GRS 1980  
 Zone: Utah Central Zone  
 Location: Sec 26 T8S R17E  
 System Datum: Mean Sea Level  
 Local North: True North

SECTION DETAILS

MD	Inc	Azi	TVD	+N/-S	+E/-W	DLeg	TFace	VSec	Target
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
0.00	0.00	0.00	600.00	0.00	0.00	0.00	0.00	0.00	
7.92	11.52	211.27	1362.75	-65.76	-39.93	1.50	211.27	76.93	
8.15	11.52	211.27	5400.00	-769.00	-467.00	0.00	0.00	899.69	Greater Boundary II F-26-8-17 P
0.76	11.52	211.27	6500.00	-960.61	-583.36	0.00	0.00	1123.87	

# **Newfield Exploration Co.**

**Duchesne County, UT**

**Greater Boundary II F-26-8-17**

**Greater Boundary II F-26-8-17**

**OH**

**Plan: Plan #1**

## **Standard Planning Report**

**07 January, 2008**

# Scientific Drilling Planning Report

**Database:** EDM 2003.16 Multi-User Db  
**Company:** Newfield Exploration Co.  
**Project:** Duchesne County, UT  
**Site:** Greater Boundary II F-26-8-17  
**Well:** Greater Boundary II F-26-8-17  
**Wellbore:** OH  
**Design:** Plan #1

**Local Co-ordinate Reference:** Well Greater Boundary II F-26-8-17  
**TVD Reference:** GL 5091' & RKB 12' @ 5103.00ft (NDSI 2)  
**MD Reference:** GL 5091' & RKB 12' @ 5103.00ft (NDSI 2)  
**North Reference:** True  
**Survey Calculation Method:** Minimum Curvature

<b>Project</b>	Duchesne County, UT		
<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>	Greater Boundary II F-26-8-17, Sec 26 T8S R17E		
<b>Site Position:</b>		<b>Northing:</b>	7,206,865.99 ft
<b>From:</b>	Lat/Long	<b>Easting:</b>	2,065,248.74 ft
<b>Position Uncertainty:</b>	0.00 ft	<b>Slot Radius:</b>	in
		<b>Latitude:</b>	40° 5' 41.180 N
		<b>Longitude:</b>	109° 58' 52.780 W
		<b>Grid Convergence:</b>	0.97 °

<b>Well</b>	Greater Boundary II F-26-8-17, 516' FNL 512' FWL Sec 26 T8S R17E		
<b>Well Position</b>	<b>+N/-S</b>	0.00 ft	<b>Northing:</b> 7,206,865.99 ft
	<b>+E/-W</b>	0.00 ft	<b>Easting:</b> 2,065,248.74 ft
<b>Position Uncertainty</b>	0.00 ft	<b>Wellhead Elevation:</b>	ft
		<b>Latitude:</b>	40° 5' 41.180 N
		<b>Longitude:</b>	109° 58' 52.780 W
		<b>Ground Level:</b>	5,091.00 ft

<b>Wellbore</b>	OH				
<b>Magnetics</b>	<b>Model Name</b>	<b>Sample Date</b>	<b>Declination (°)</b>	<b>Dip Angle (°)</b>	<b>Field Strength (nT)</b>
	IGRF2005-10	2008-01-07	11.72	65.95	52,675

<b>Design</b>	Plan #1			
<b>Audit Notes:</b>				
<b>Version:</b>	<b>Phase:</b>	PLAN	<b>Tie On Depth:</b>	0.00
<b>Vertical Section:</b>	<b>Depth From (TVD) (ft)</b>	<b>+N/-S (ft)</b>	<b>+E/-W (ft)</b>	<b>Direction (°)</b>
	5,400.00	0.00	0.00	211.27

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
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
600.00	0.00	0.00	600.00	0.00	0.00	0.00	0.00	0.00	0.00	
1,367.92	11.52	211.27	1,362.75	-65.76	-39.93	1.50	1.50	0.00	211.27	
5,488.15	11.52	211.27	5,400.00	-769.00	-467.00	0.00	0.00	0.00	0.00	Greater Boundary II F
6,610.76	11.52	211.27	6,500.00	-960.61	-583.36	0.00	0.00	0.00	0.00	

# Scientific Drilling

## Planning Report

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**MD Reference:** GL 5091' & RKB 12' @ 5103.00ft (NDSI 2)  
**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)
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
100.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00
200.00	0.00	0.00	200.00	0.00	0.00	0.00	0.00	0.00	0.00
300.00	0.00	0.00	300.00	0.00	0.00	0.00	0.00	0.00	0.00
400.00	0.00	0.00	400.00	0.00	0.00	0.00	0.00	0.00	0.00
500.00	0.00	0.00	500.00	0.00	0.00	0.00	0.00	0.00	0.00
600.00	0.00	0.00	600.00	0.00	0.00	0.00	0.00	0.00	0.00
700.00	1.50	211.27	699.99	-1.12	-0.68	1.31	1.50	1.50	0.00
800.00	3.00	211.27	799.91	-4.47	-2.72	5.23	1.50	1.50	0.00
900.00	4.50	211.27	899.69	-10.06	-6.11	11.77	1.50	1.50	0.00
1,000.00	6.00	211.27	999.27	-17.89	-10.86	20.92	1.50	1.50	0.00
1,100.00	7.50	211.27	1,098.57	-27.93	-16.96	32.68	1.50	1.50	0.00
1,200.00	9.00	211.27	1,197.54	-40.20	-24.41	47.03	1.50	1.50	0.00
1,300.00	10.50	211.27	1,296.09	-54.67	-33.20	63.96	1.50	1.50	0.00
1,367.92	11.52	211.27	1,362.75	-65.76	-39.93	76.93	1.50	1.50	0.00
1,400.00	11.52	211.27	1,394.19	-71.23	-43.26	83.34	0.00	0.00	0.00
1,500.00	11.52	211.27	1,492.18	-88.30	-53.62	103.31	0.00	0.00	0.00
1,600.00	11.52	211.27	1,590.16	-105.37	-63.99	123.28	0.00	0.00	0.00
1,700.00	11.52	211.27	1,688.15	-122.44	-74.35	143.24	0.00	0.00	0.00
1,800.00	11.52	211.27	1,786.14	-139.50	-84.72	163.21	0.00	0.00	0.00
1,900.00	11.52	211.27	1,884.12	-156.57	-95.08	183.18	0.00	0.00	0.00
2,000.00	11.52	211.27	1,982.11	-173.64	-105.45	203.15	0.00	0.00	0.00
2,100.00	11.52	211.27	2,080.09	-190.71	-115.81	223.12	0.00	0.00	0.00
2,200.00	11.52	211.27	2,178.08	-207.78	-126.18	243.09	0.00	0.00	0.00
2,300.00	11.52	211.27	2,276.06	-224.84	-136.54	263.06	0.00	0.00	0.00
2,400.00	11.52	211.27	2,374.05	-241.91	-146.91	283.03	0.00	0.00	0.00
2,500.00	11.52	211.27	2,472.04	-258.98	-157.27	303.00	0.00	0.00	0.00
2,600.00	11.52	211.27	2,570.02	-276.05	-167.64	322.96	0.00	0.00	0.00
2,700.00	11.52	211.27	2,668.01	-293.12	-178.00	342.93	0.00	0.00	0.00
2,800.00	11.52	211.27	2,765.99	-310.19	-188.37	362.90	0.00	0.00	0.00
2,900.00	11.52	211.27	2,863.98	-327.25	-198.73	382.87	0.00	0.00	0.00
3,000.00	11.52	211.27	2,961.97	-344.32	-209.10	402.84	0.00	0.00	0.00
3,100.00	11.52	211.27	3,059.95	-361.39	-219.47	422.81	0.00	0.00	0.00
3,200.00	11.52	211.27	3,157.94	-378.46	-229.83	442.78	0.00	0.00	0.00
3,300.00	11.52	211.27	3,255.92	-395.53	-240.20	462.75	0.00	0.00	0.00
3,400.00	11.52	211.27	3,353.91	-412.59	-250.56	482.72	0.00	0.00	0.00
3,500.00	11.52	211.27	3,451.90	-429.66	-260.93	502.68	0.00	0.00	0.00
3,600.00	11.52	211.27	3,549.88	-446.73	-271.29	522.65	0.00	0.00	0.00
3,700.00	11.52	211.27	3,647.87	-463.80	-281.66	542.62	0.00	0.00	0.00
3,800.00	11.52	211.27	3,745.85	-480.87	-292.02	562.59	0.00	0.00	0.00
3,900.00	11.52	211.27	3,843.84	-497.93	-302.39	582.56	0.00	0.00	0.00
4,000.00	11.52	211.27	3,941.83	-515.00	-312.75	602.53	0.00	0.00	0.00
4,100.00	11.52	211.27	4,039.81	-532.07	-323.12	622.50	0.00	0.00	0.00
4,200.00	11.52	211.27	4,137.80	-549.14	-333.48	642.47	0.00	0.00	0.00
4,300.00	11.52	211.27	4,235.78	-566.21	-343.85	662.44	0.00	0.00	0.00
4,400.00	11.52	211.27	4,333.77	-583.27	-354.21	682.40	0.00	0.00	0.00
4,500.00	11.52	211.27	4,431.76	-600.34	-364.58	702.37	0.00	0.00	0.00
4,600.00	11.52	211.27	4,529.74	-617.41	-374.94	722.34	0.00	0.00	0.00
4,700.00	11.52	211.27	4,627.73	-634.48	-385.31	742.31	0.00	0.00	0.00
4,800.00	11.52	211.27	4,725.71	-651.55	-395.67	762.28	0.00	0.00	0.00
4,900.00	11.52	211.27	4,823.70	-668.61	-406.04	782.25	0.00	0.00	0.00
5,000.00	11.52	211.27	4,921.69	-685.68	-416.40	802.22	0.00	0.00	0.00
5,100.00	11.52	211.27	5,019.67	-702.75	-426.77	822.19	0.00	0.00	0.00
5,200.00	11.52	211.27	5,117.66	-719.82	-437.13	842.15	0.00	0.00	0.00

# Scientific Drilling Planning Report

**Database:** EDM 2003.16 Multi-User Db  
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**Project:** Duchesne County, UT  
**Site:** Greater Boundary II F-26-8-17  
**Well:** Greater Boundary II F-26-8-17  
**Wellbore:** OH  
**Design:** Plan #1

**Local Co-ordinate Reference:** Well Greater Boundary II F-26-8-17  
**TVD Reference:** GL 5091' & RKB 12' @ 5103.00ft (NDSI 2)  
**MD Reference:** GL 5091' & RKB 12' @ 5103.00ft (NDSI 2)  
**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)
5,300.00	11.52	211.27	5,215.64	-736.89	-447.50	862.12	0.00	0.00	0.00
5,400.00	11.52	211.27	5,313.63	-753.96	-457.86	882.09	0.00	0.00	0.00
5,488.15	11.52	211.27	5,400.00	-769.00	-467.00	899.69	0.00	0.00	0.00
5,500.00	11.52	211.27	5,411.61	-771.02	-468.23	902.06	0.00	0.00	0.00
5,600.00	11.52	211.27	5,509.60	-788.09	-478.59	922.03	0.00	0.00	0.00
5,700.00	11.52	211.27	5,607.59	-805.16	-488.96	942.00	0.00	0.00	0.00
5,800.00	11.52	211.27	5,705.57	-822.23	-499.32	961.97	0.00	0.00	0.00
5,900.00	11.52	211.27	5,803.56	-839.30	-509.69	981.94	0.00	0.00	0.00
6,000.00	11.52	211.27	5,901.54	-856.36	-520.05	1,001.91	0.00	0.00	0.00
6,100.00	11.52	211.27	5,999.53	-873.43	-530.42	1,021.87	0.00	0.00	0.00
6,200.00	11.52	211.27	6,097.52	-890.50	-540.78	1,041.84	0.00	0.00	0.00
6,300.00	11.52	211.27	6,195.50	-907.57	-551.15	1,061.81	0.00	0.00	0.00
6,400.00	11.52	211.27	6,293.49	-924.64	-561.51	1,081.78	0.00	0.00	0.00
6,500.00	11.52	211.27	6,391.47	-941.70	-571.88	1,101.75	0.00	0.00	0.00
6,600.00	11.52	211.27	6,489.46	-958.77	-582.25	1,121.72	0.00	0.00	0.00
6,610.76	11.52	211.27	6,500.00	-960.61	-583.36	1,123.87	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
Greater Boundary II F-26-8-17 - hit/miss target - Shape - plan hits target center - Circle (radius 75.00)	0.00	0.00	5,400.00	-769.00	-467.00	7,206,089.17	2,064,794.86	40° 5' 33.580 N	109° 58' 58.789 W

**NEWFIELD PRODUCTION COMPANY  
GREATER BOUNDRY II FEDERAL #F-26-8-17  
AT SURFACE: NW/NW SECTION 26, 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 Boundary II Federal #F-26-8-17 located in the NW 1/4 NW 1/4 Section 26, 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 - 5.9 miles  $\pm$  to it's junction with an existing dirt road to the east; proceed easterly - 1.0 miles  $\pm$  to it's junction with an existing dirt road to the south; proceed southerly - 0.9 miles  $\pm$  to it's junction with an existing dirt road to the east; proceed easterly - 1.9 miles  $\pm$  to it's junction with an existing road to the south; proceed southerly and then easterly - 2.7 miles  $\pm$  to it's junction with the beginning of the access road to the existing Greater Boundary II 4-26-8-17 well lcoation.

**2. PLANNED ACCESS ROAD**

There is no proposed access road for this location. The proposed well will be drilled directionally off of the existing Greater Boundary II 4-26-8-17 well pad. See attached **Topographic Map "B"**.

**3. LOCATION OF EXISTING WELLS**

Refer to Exhibit "B".

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

The proposed well will be drilled directionally off of the Greater Boundary II 4-26-8-17 well pad. There will be a pumping unit and a short flow line added to the tank battery for the proposed Greater Boundary II Federal F-26-8-17. All permanent surface equipment will be painted Carlsbad Canyon.

Please refer to the Monument Butte Field Standard Operating Procedure (SOP).

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

Newfield Production will transport water by truck for drilling purposes from the following water sources:

Johnson Water District  
Water Right: 43-10136

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**

The proposed Greater Boundary II Federal F-26-8-17 will be drilled off of the existing Greater Boundary II 4-26-8-17 well pad. No additional surface disturbance will be required for this location.

7. **METHODS FOR HANDLING WASTE DISPOSAL**

Please refer to the Monument Butte Field SOP.

8. **ANCILLARY FACILITIES**

Please refer to the Monument Butte Field SOP.

9. **WELL SITE LAYOUT**

See attached Location Layout Diagram.

10. **PLANS FOR RESTORATION OF SURFACE**

Please refer to the Monument Butte Field SOP.

11. **SURFACE OWNERSHIP** - Bureau Of Land Management (Proposed location and access roads leading to).

12. **OTHER ADDITIONAL INFORMATION**

Newfield Production Company requests 1,670' of disturbed area be granted in Lease UTU-76240 to allow for construction of the proposed water lines. It is proposed that the disturbed area will temporarily be 50' wide to allow for construction of a buried 3" steel water injection line and a buried 3" poly water return line and 30' wide upon completion of the proposed water lines. **Refer to Topographic Map "C."** For a ROW plan of development, please refer to the Monument Butte Field SOP.

The Archaeological Resource Survey and Paleontological Resource Survey for this area are attached. MOAC Report #01-52, 5/21/01. Paleontological Resource Survey prepared by, Rod Scheetz, Ph.D., 5/26/01. See attached report cover pages, Exhibit "D".

**Water Disposal**

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) or at State of Utah approved surface disposal facilities.

**Threatened, Endangered, And Other Sensitive Species**

A cactus survey will be required along the segment of proposed water pipeline prior to construction.

**Reserve Pit Liner**

A 16 mil liner with felt is required. Please refer to the Monument Butte Field SOP.

**Location and Reserve Pit Reclamation**

Please refer to the Monument Butte Field SOP.

The following seed mixture will be used on the topsoil stockpile, to the recontoured surface of the reserve pit, and for final reclamation: (All poundages are in pure live seed)

Squirrell Tail	<i>Elymus Elymoides</i>	5 lbs/acre
Crested Wheatgrass	<i>Agropyron Cristatum</i>	5 lbs/acre
Gardner Saltbush	<i>Atriplex Gardneri</i>	0.5 lbs/acre
Shadscale	<i>Atriplex Confertifolia</i>	0.5 lbs/acre
Forage Kochia	<i>Kochia Prostrata</i>	0.25 lbs/acre

**Details of the On-Site Inspection**

The proposed Greater Boundary II Federal F-26-8-17 was on-sited on 12/18/07. The following were present; Dave Allred (Newfield Production), Michael Cutler (Bureau of Land Management), and Brandon McDonald (Bureau of Land Management). Weather conditions were clear and ground cover was open.

**LESSEE'S OR OPERATORS REPRESENTATIVE AND CERTIFICATION**

Representative

Name: Dave Allred  
Address: Route #3 Box 3630  
Myton, UT 84052  
Telephone: (435) 646-3721

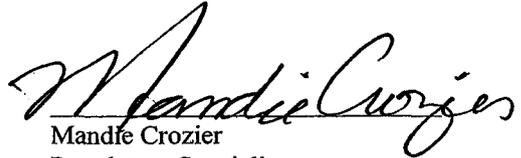
Certification

Please be advised that NEWFIELD PRODUCTION COMPANY is considered to be the operator of well #F-26-8-17 NW/SW Section 26, Township 8S, Range 17E: Lease UTU-76240 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 drillsite 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 18 U.S.C. 1001 for the filing of a false statement.

1/14/08

Date



Mandie Crozier  
Regulatory Specialist  
Newfield Production Company

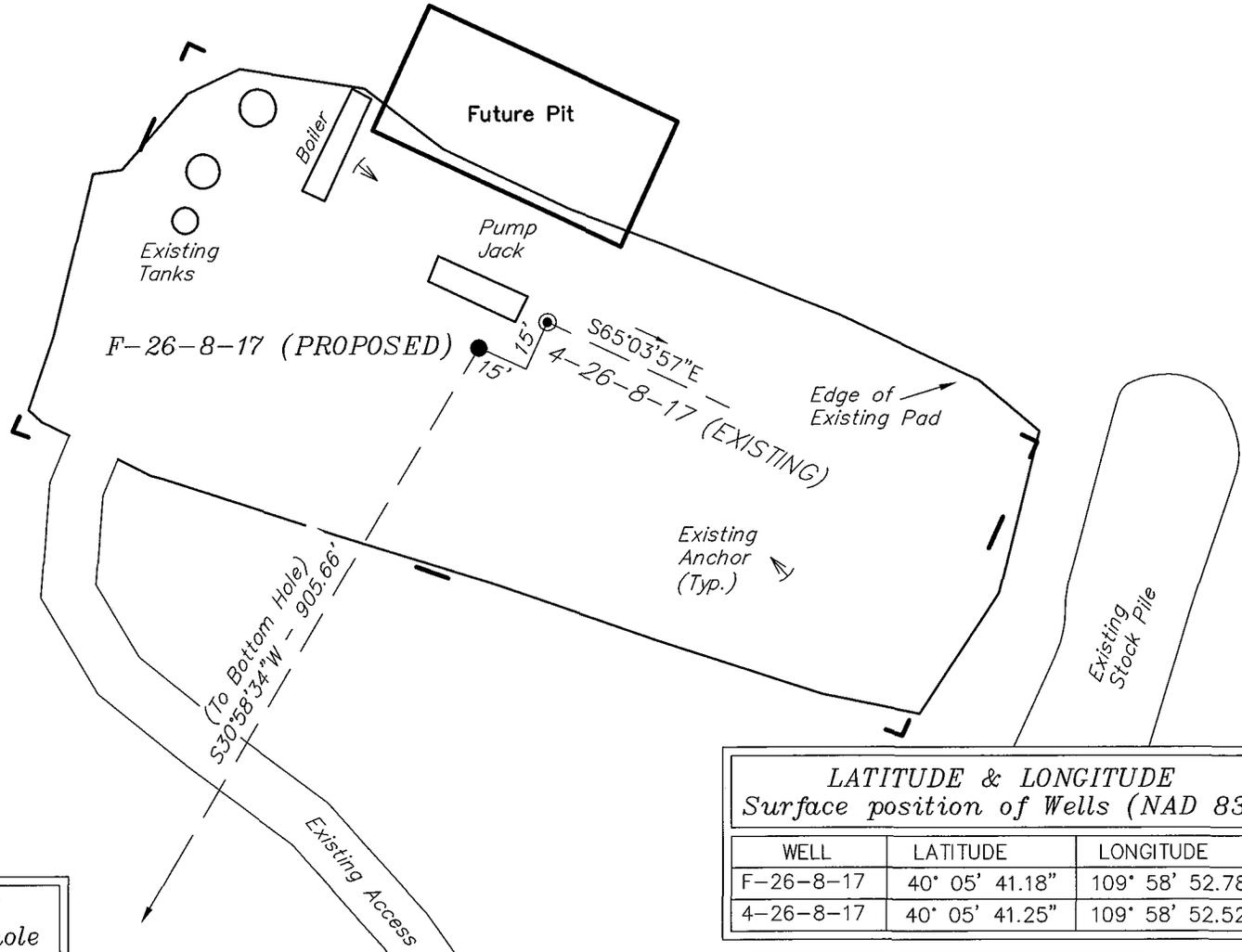
# NEWFIELD PRODUCTION COMPANY

## WELL PAD INTERFERENCE PLAT

GREATER BOUNDARY II F-26-8-17 (Proposed Well)

GREATER BOUNDARY II 4-26-8-17 (Existing Well)

Pad Location: NWNW Section 26, T8S, R17E, S.L.B.&M.



**TOP HOLE FOOTAGES**

F-26-8-17 (PROPOSED)  
516' FNL & 512' FWL

**BOTTOM HOLE FOOTAGES**

F-26-8-17 (PROPOSED)  
1285' FNL & 45' FWL

**Note:**

Bearings are based on  
GLO Information.

RELATIVE COORDINATES From top hole to bottom hole		
WELL	NORTH	EAST
F-26-8-17	-776'	-466'

LATITUDE & LONGITUDE Surface position of Wells (NAD 83)		
WELL	LATITUDE	LONGITUDE
F-26-8-17	40° 05' 41.18"	109° 58' 52.78"
4-26-8-17	40° 05' 41.25"	109° 58' 52.52"

SURVEYED BY: R.R.	DATE SURVEYED: 09-10-07
DRAWN BY: F.T.M.	DATE DRAWN: 10-25-07
SCALE: 1" = 50'	REVISED: L.C.S. 01-29-08

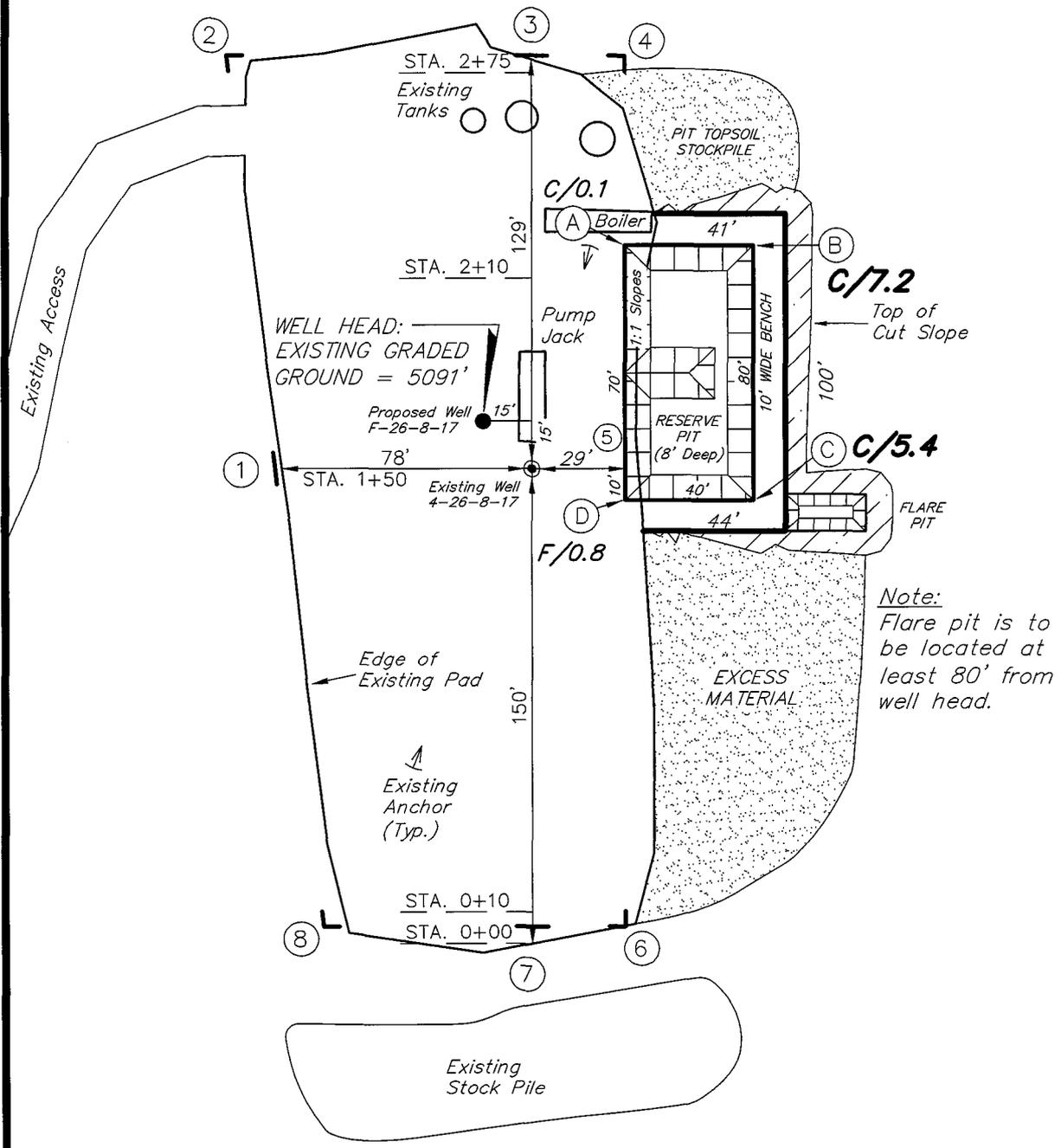
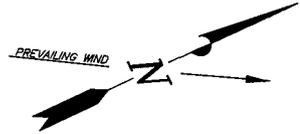
**Tri State** (435) 781-2501  
 Land Surveying, Inc.  
 180 NORTH VERNAL AVE. VERNAL, UTAH 84078

# NEWFIELD PRODUCTION COMPANY

**GREATER BOUNDARY II F-26-8-17 (Proposed Well)**

**GREATER BOUNDARY II 4-26-8-17 (Existing Well)**

Pad Location: NWNW Section 26, T8S, R17E, S.L.B.&M.



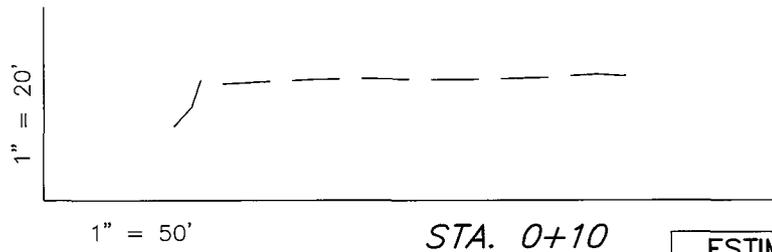
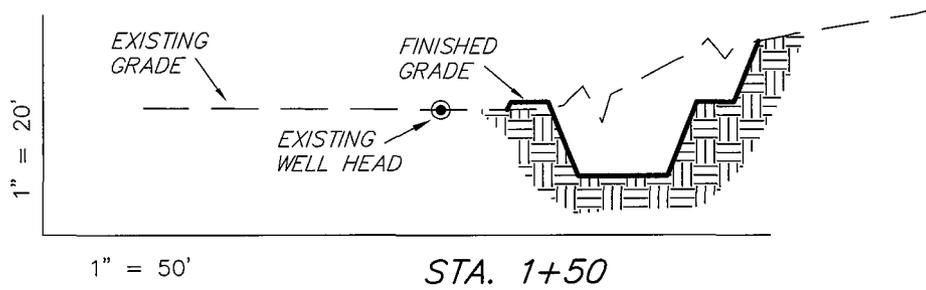
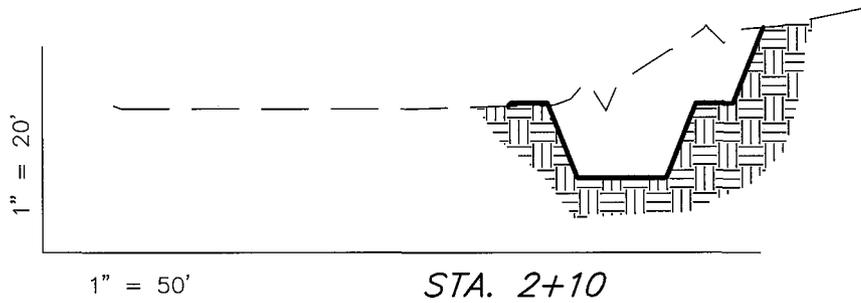
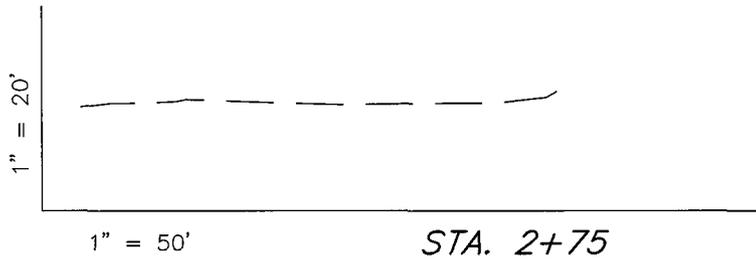
*Note:*  
Flare pit is to be located at least 80' from well head.

SURVEYED BY: R.R.	DATE SURVEYED: 09-10-07	<p><b>Tri State</b> Land Surveying, Inc. 180 NORTH VERNAL AVE. VERNAL, UTAH 84078</p>	(435) 781-2501
DRAWN BY: F.T.M.	DATE DRAWN: 10-25-07		
SCALE: 1" = 50'	REVISED:		

# NEWFIELD PRODUCTION COMPANY

## CROSS SECTIONS

**GREATER BOUNDARY II F-26-8-17 (Proposed Well)**  
**GREATER BOUNDARY II 4-26-8-17 (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	870	30	Topsoil is not included in Pad Cut	840
PIT	640	0		640
<b>TOTALS</b>	<b>1,510</b>	<b>30</b>	<b>150</b>	<b>1,480</b>

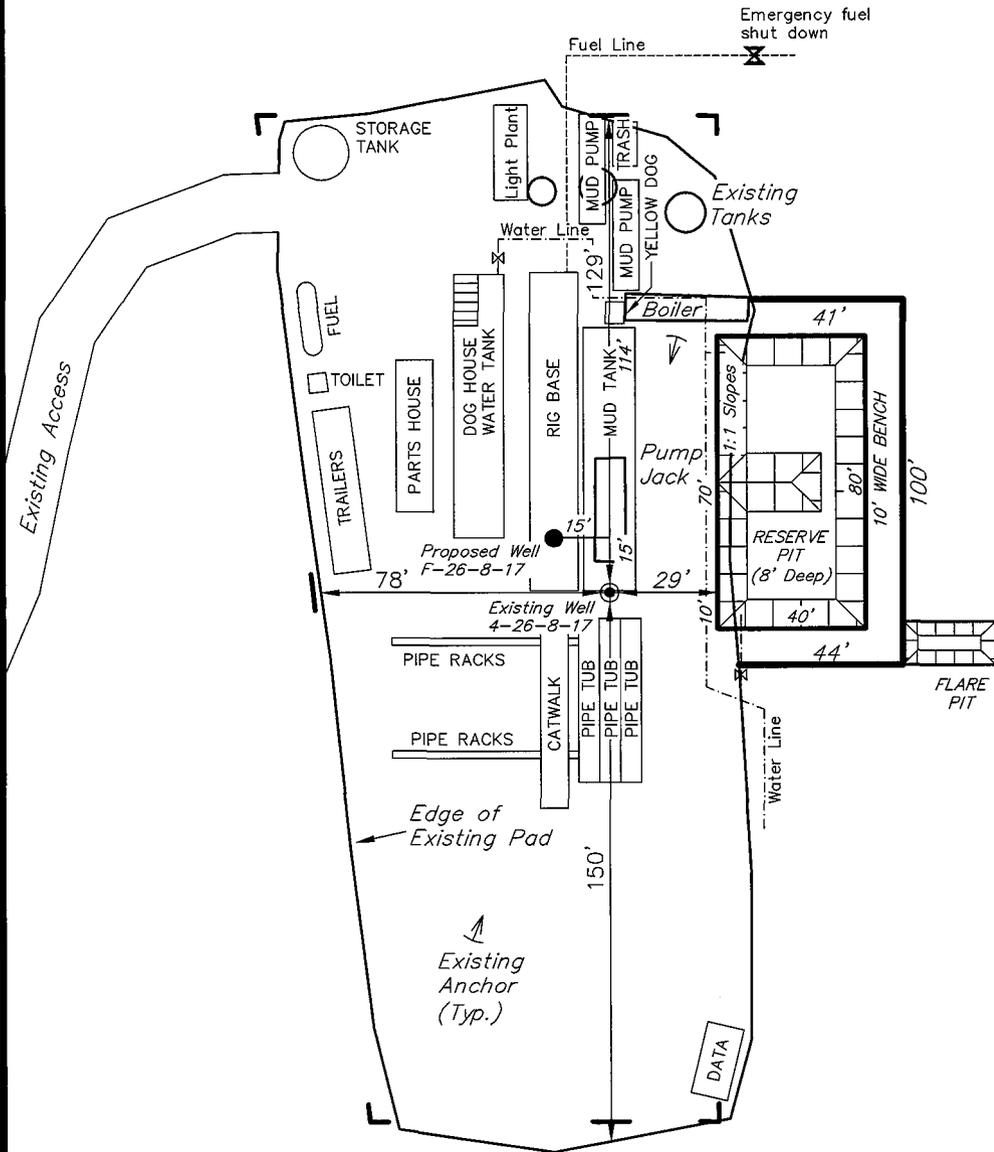
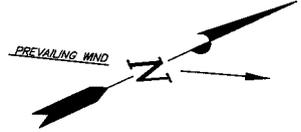
SURVEYED BY: R.R.	DATE SURVEYED: 09-10-07	
DRAWN BY: F.T.M.	DATE DRAWN: 10-25-07	
SCALE: 1" = 50'	REVISED:	

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

# NEWFIELD PRODUCTION COMPANY

## TYPICAL RIG LAYOUT

GREATER BOUNDARY II F-26-8-17 (Proposed Well)  
 GREATER BOUNDARY II 4-26-8-17 (Existing Well)



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

SURVEYED BY: R.R.	DATE SURVEYED: 09-10-07
DRAWN BY: F.T.M.	DATE DRAWN: 10-25-07
SCALE: 1" = 50'	REVISED:

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

# Newfield Production Company Proposed Site Facility Diagram

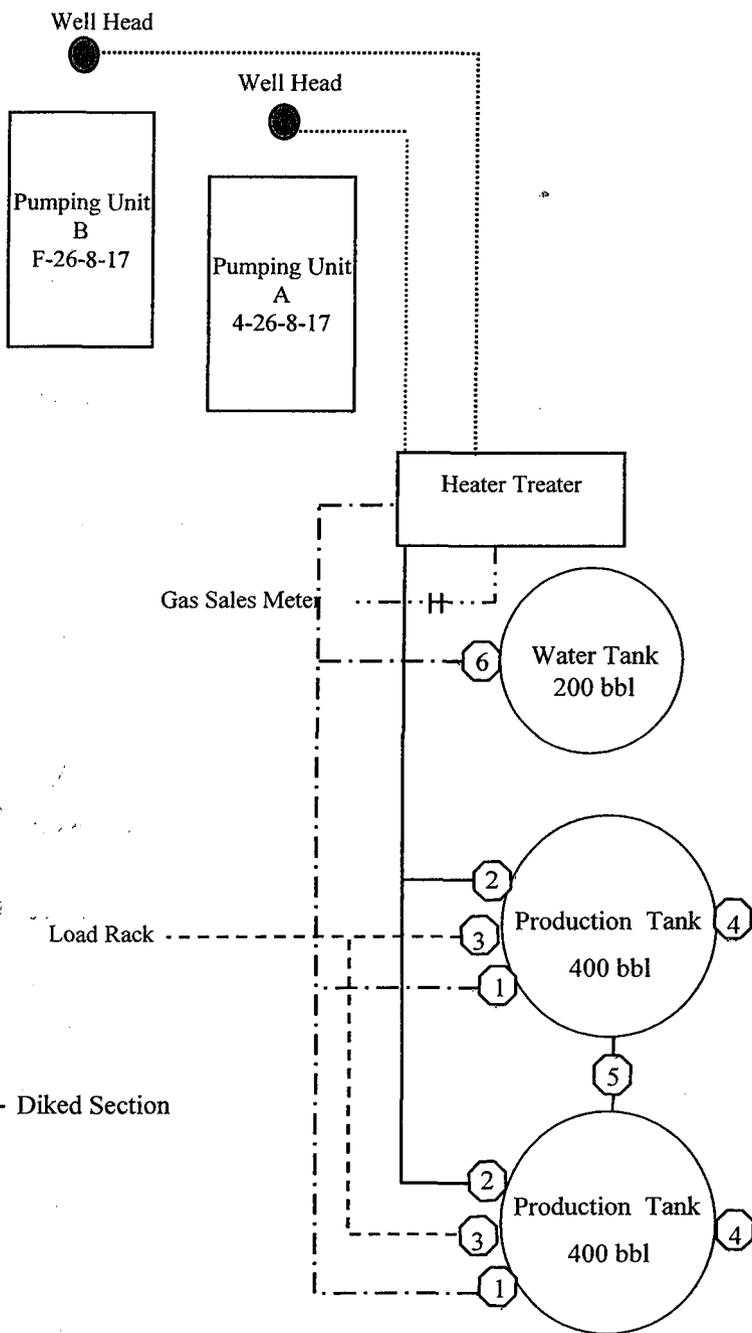
Greater Boundary II Federal F-26-8-17

From the 4-26-8-17 Location

NW/NW Sec. 26 T8S, R17E

Duchesne County, Utah

UTU-76240



Site Security Plan is held at the Pleasant Valley Office, Duchesne County, Utah

### Production Phase:

- 1) Valves 1, 3, and 4 sealed closed
- 2) Valves 2, 5, and 6 sealed open

### Sales Phase:

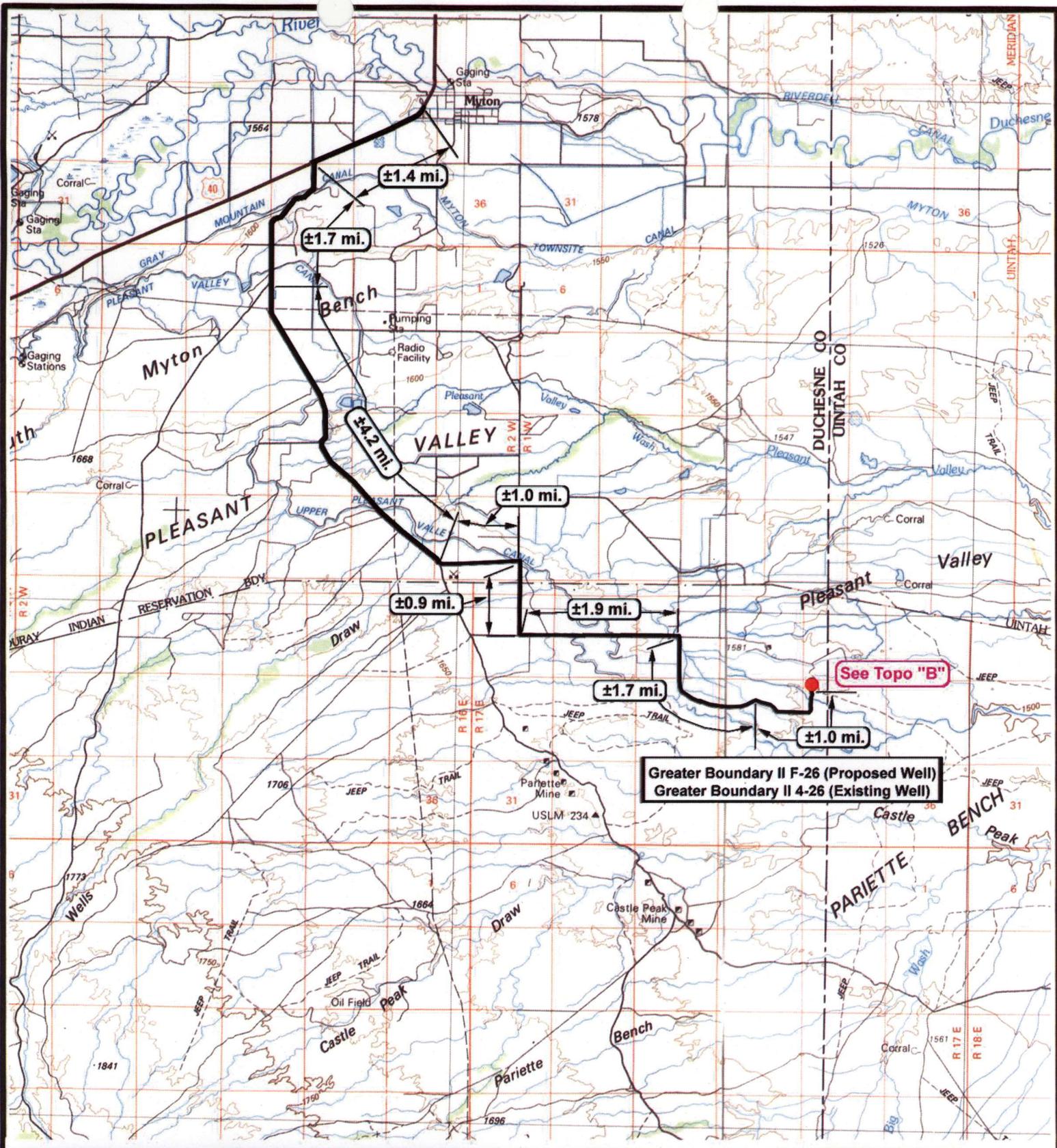
- 1) Valves 1, 2, 4, 5, and 6 sealed closed
- 2) Valve 3 open

### Draining Phase:

- 1) Valves 1 and 6 open

### Legend

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



**Greater Boundary II F-26 (Proposed Well)**  
**Greater Boundary II 4-26 (Existing Well)**

See Topo "B"

  
**NEWFIELD**  
 Exploration Company

**Greater Boundary II F-26-8-17 (Proposed Well)**  
**Greater Boundary II 4-26-8-17 (Existing Well)**  
 Pad Location NWNW Sec. 26, T8S, R17E, S.L.B.&M.



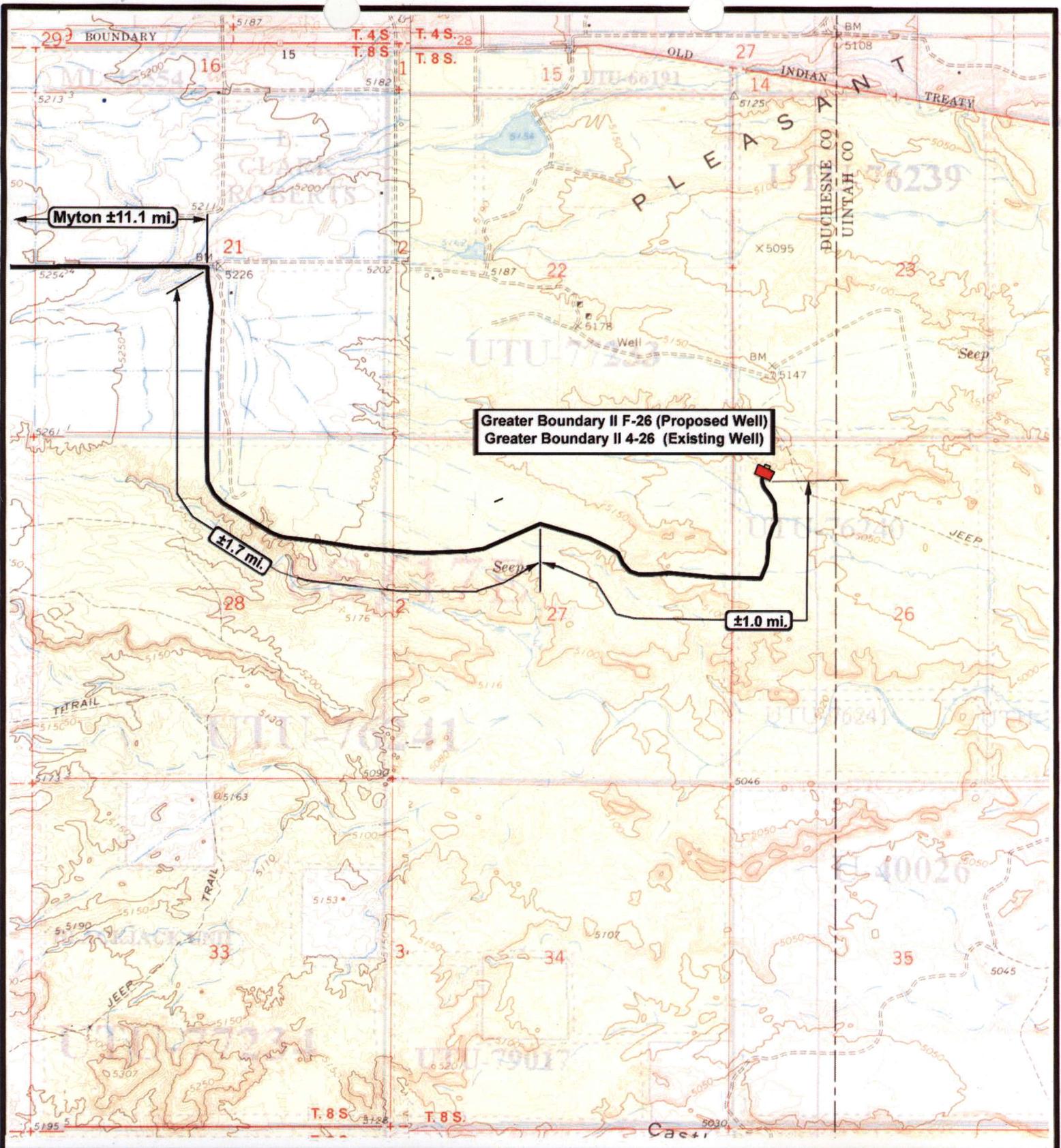
  
**Tri-State**  
 Land Surveying Inc.  
 (435) 781-2501  
 180 North Vernal Ave. Vernal, Utah 84078

SCALE: 1 = 100,000  
 DRAWN BY: nc  
 DATE: 11-04-2007

**Legend**

 Existing Road

**TOPOGRAPHIC MAP**  
"A"




**NEWFIELD**  
Exploration Company

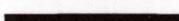
**Greater Boundary II F-26-8-17 (Proposed Well)**  
**Greater Boundary II 4-26-8-17 (Existing Well)**  
 Pad Location: NWNW Sec. 26, T8S, R17E, S.L.B.&M.




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

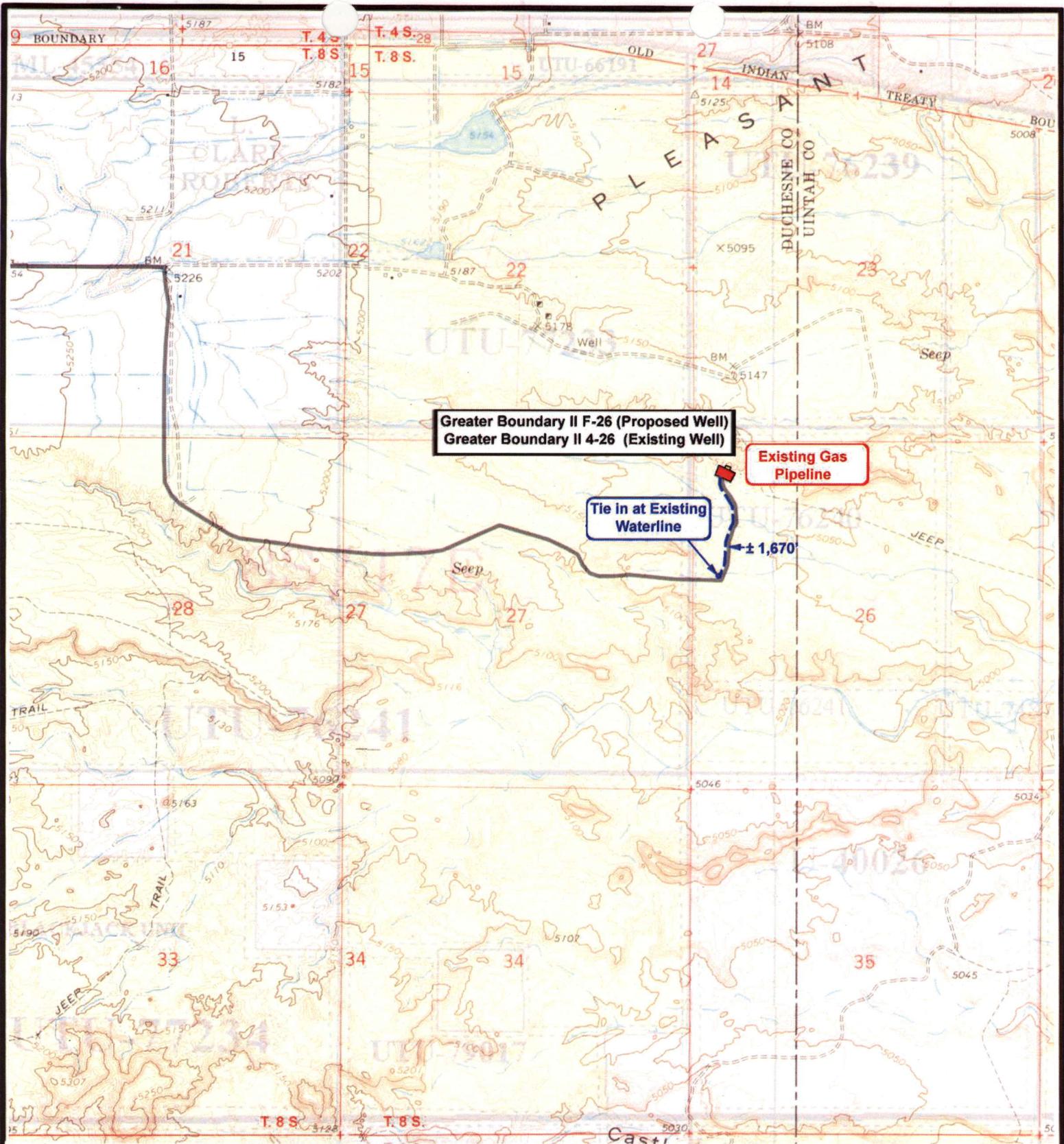
SCALE: 1" = 2,000'  
 DRAWN BY: nc  
 DATE: 11-06-2007

**Legend**

 Existing Road

TOPOGRAPHIC MAP

**"B"**



**NEWFIELD**  
Exploration Company

**Greater Boundary II F-26-8-17 (Proposed Well)**  
**Greater Boundary II 4-26-8-17 (Existing Well)**  
 Pad Location: NWNW Sec. 26, T8S, R17E, 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: nc

DATE: 11-06-2007

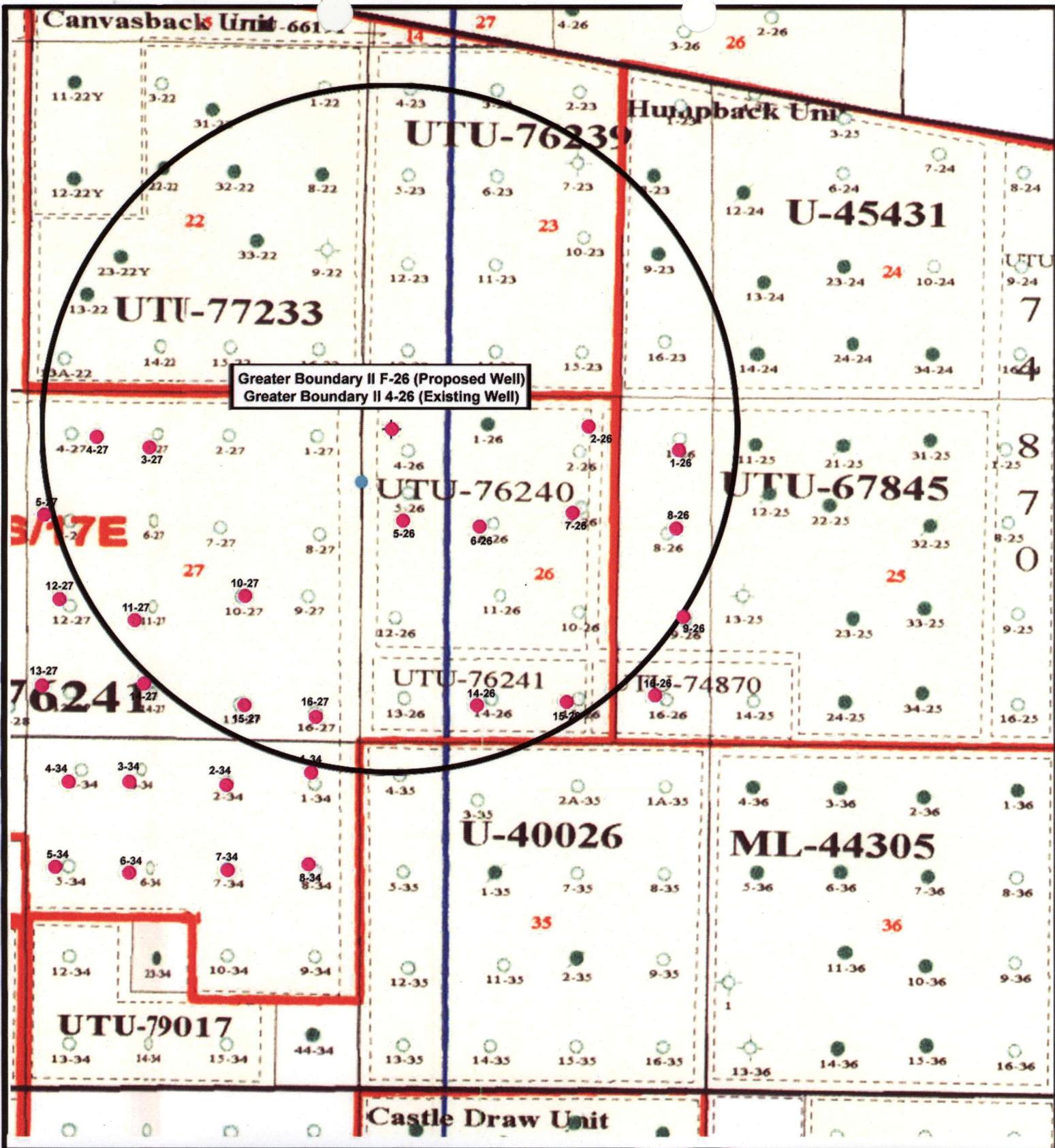
**Legend**

- Roads
- Proposed Water Line

TOPOGRAPHIC MAP

**"C"**





Greater Boundary II F-26 (Proposed Well)  
 Greater Boundary II 4-26 (Existing Well)

**NEWFIELD**  
 Exploration Company

**Greater Boundary II F-26-8-17 (Proposed Well)**  
**Greater Boundary II 4-26-8-17 (Existing Well)**  
 Pad Location NWNW Sec. 26, T8S, R17E, S.L.B.&M.

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

SCALE: 1" = 2000'  
 DRAWN BY: nc  
 DATE: 11-6-2007

**Legend**

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

TOPOGRAPHIC MAP

**Exhibit "B"**

# 2-M SYSTEM

Blowout Prevention Equipment Systems

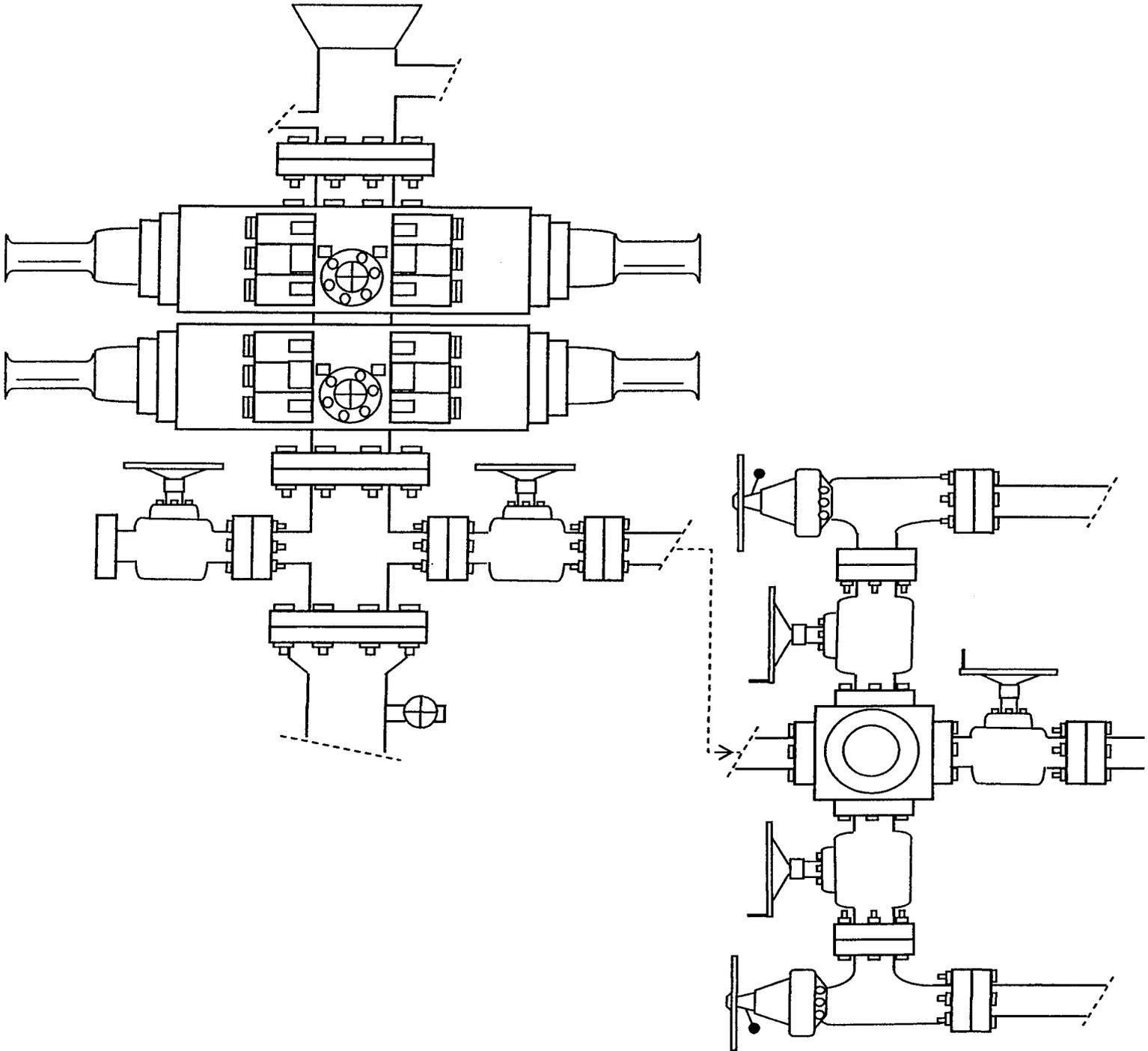


EXHIBIT C

Exhibit "D"

1 of 2

CULTURAL RESOURCE INVENTORY OF INLAND RESOURCES'  
640 ACRE PARCEL IN TOWNSHIP 8S, RANGE 17E, SECTION 26,  
DUCHESNE AND Uintah COUNTIES, UTAH

by

Sharyl Kinnear-Ferris

Prepared For:

Bureau of Land Management  
Vernal Field Office

Prepared Under Contract With:

Jon D. Holst & Associates  
for  
Inland Resources  
2507 Flintridge Place  
Fort Collins, CO 80521

Prepared By:

Montgomery Archaeological Consultants  
P.O. Box 147  
Moab, Utah 84532

MOAC Report No. 01-52

May 21, 2001

United States Department of Interior (FLPMA)  
Permit No. 01-UT-60122

State of Utah Antiquities Project (Survey)  
Permit No. U-01-MQ-0198b

# **Paleontological Resource Inventory Report**

**W ½ Sec. 26, T 8 S, R 17 E,  
Pariette Draw SW Quadrangle  
Uintah & Duchesne Counties, Utah**

## **Declaration of Significant Paleontological Findings**

26 May 2001

Prepared by Rod Scheetz, Ph.D.

**WORKSHEET  
APPLICATION FOR PERMIT TO DRILL**

APD RECEIVED: 02/04/2008

API NO. ASSIGNED: 43-013-33900

WELL NAME: GB II FED F-26-8-17  
 OPERATOR: NEWFIELD PRODUCTION ( N2695 )  
 CONTACT: MANDIE CROZIER

PHONE NUMBER: 435-646-3721

PROPOSED LOCATION:

INSPECT LOCATN BY: / /		
Tech Review	Initials	Date
Engineering		
Geology		
Surface		

NWNW 26 080S 170E  
 SURFACE: 0516 FNL 0512 FWL  
 BOTTOM: ~~1285~~ FNL ~~0045~~ FWL  
 COUNTY: DUCHESNE 71 FEL NE NE  
 LATITUDE: 40.09478 LONGITUDE: -109.9806  
 UTM SURF EASTINGS: 586900 NORTHINGS: 4438564  
 FIELD NAME: MONUMENT BUTTE ( 105 )

LEASE TYPE: 1 - Federal  
 LEASE NUMBER: UTU-76240  
 SURFACE OWNER: 1 - Federal

PROPOSED FORMATION: GRRV  
 COALBED METHANE WELL? NO

RECEIVED AND/OR REVIEWED:

- Plat
- Bond: Fed[1] Ind[] Sta[] Fee[]  
(No. WYB000493 )
- Potash (Y/N)
- Oil Shale 190-5 (B) or 190-3 or 190-13
- Water Permit  
(No. 43-10136 )
- RDCC Review (Y/N)  
(Date: )
- Fee Surf Agreement (Y/N)
- Intent to Commingle (Y/N)

LOCATION AND SITING:

- R649-2-3.
- Unit: GREATER BOUNDARY II (GR)
- R649-3-2. General  
Siting: 460 From Qtr/Qtr & 920' Between Wells
- R649-3-3. Exception
- Drilling Unit  
Board Cause No: 225-4  
Eff Date: 9-22-04  
Siting: Suspend General Siting
- R649-3-11. Directional Drill

COMMENTS:

See Separate Act

STIPULATIONS:

1- Federal Approval

*The map says the worksheet # and the Application has different numbers - Brad says go with application # not map*





February 12, 2008

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

*43-013-33900*

RE: Directional Drilling  
**Greater Boundary II Federal F-26-8-17**  
Greater Boundary II Unit  
UTU-77098X  
Surface Hole: T8S R17E, Section 26: NW/4NW/4  
516' FNL 512' FWL  
At Target: T8S R17E, Section 26  
1285' FNL 45' FWL  
Duchesne County, Utah

Dear Ms. Mason;

Pursuant to the filing of Newfield Production Company's ("NPC") Application for Permit to Drill dated January 14, 2008, a copy of which is attached, for the above referenced well, 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 location and target location of this well are both within the boundaries of the Greater Boundary II Federal Unit UTU-77098X. Newfield certifies that it is the Greater Boundary II Unit Operator and all lands within 460 feet of the entire directional well bore are within the Greater Boundary II Unit.

NPC is permitting this well as a directional well in order to minimize surface disturbance. By directionally drilling from the referenced surface location, NPC will be able to utilize the existing roads and pipelines in this area.

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 do not hesitate to contact the undersigned at 303-382-4444 or by email at [reveland@newfield.com](mailto:reveland@newfield.com). Your consideration of this matter is greatly appreciated.

Sincerely,

A handwritten signature in cursive script that reads "Roxann Eveland".

Roxann Eveland  
Land Associate

RECEIVED

FEB 19 2008

DIV. OF OIL, GAS & MINING

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL OR REENTER

FORM APPROVED  
OMB No. 1004-0136  
Expires January 31, 2004

1a. Type of Work: <input checked="" type="checkbox"/> DRILL <input type="checkbox"/> REENTER		5. Lease Serial No. UTU-76240
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		6. If Indian, Allottee or Tribe Name N/A
2. Name of Operator Newfield Production Company		7. If Unit or CA Agreement, Name and No. Greater Boundary II Unit
3a. Address Route #3 Box 3630, Myton UT 84052		8. Lease Name and Well No. Greater Boundary II Federal F-26-8-17
3b. Phone No. (include area code) (435) 646-3721		9. API Well No.
4. Location of Well (Report location clearly and in accordance with any State requirements. *) At surface: NWNW 516' FNL 512' FWL At proposed prod. zone: At Target: 1285' FNL 45' FWL BHL: 1477' FNL 71' FEL (Sec. 27, T8S R17E)		10. Field and Pool, or Exploratory Monument Butte
14. Distance in miles and direction from nearest town or post office* Approximately 13.8 miles southwest of Myton, Utah		11. Sec., T., R., M., or Blk. and Survey or Area Sec. 26, T8S R17E
15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any) Approx. 45' flse, 1285' f/unit	16. No. of Acres in lease 360.00	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. 1310'	19. Proposed Depth 6500'	20. BLM/BIA Bond No. on file WYB000493
21. Elevations (Show whether DF, KDB, RT, GL, etc.) 5091' GL	22. Approximate date work will start* 2nd Quarter 2008	23. Estimated duration Approximately seven (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, shall 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 shall be filed with the appropriate Forest Service Office). | 6. Such other site specific information and/or plans as may be required by the authorized officer. |

25. Signature 	Name (Printed/Typed) Mandie Crozier	Date 1/14/08
Title Regulatory Specialist		
Approved by (Signature)	Name (Printed/Typed)	Date
Title	Office	

Application approval does not warrant or certify the 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.

\*(Instructions on reverse)

RECEIVED

FEB 19 2008

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)

April 29, 2008

Memorandum

To: Assistant District Manager Minerals, Vernal District

From: Michael Coulthard, Petroleum Engineer

Subject: 2008 Plan of Development Greater Boundary  
Unit, Duchesne County, Utah.

Pursuant to email between Diana Whitney, Division of Oil, Gas and Mining, and Mickey Coulthard, Utah State Office, Bureau of Land Management, supplemented by email sent by Mandie Crozier, Newfield Production Company, the following well is planned for calendar year 2008 within the Greater Boundary Unit, Duchesne County, Utah.

API#	WELL NAME	LOCATION
------	-----------	----------

(Proposed PZ Green River)

43-013-33900	GB II Fed F-26-8-17	Sec 26 T08S R17E 0516 FNL 0512 FWL
		BHL Sec 27 T08S R17E 1477 FNL 0071 FEL

We have no objections to permitting the well so long as the unit operator receives an exception to the locating and siting requirements of the State of Utah (R649-3-2).

/s/ Michael L. Coulthard

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

MCoulthard:mc:4-29-08



JON M. HUNTSMAN, JR.  
Governor

GARY R. HERBERT  
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

April 30, 2008

Newfield Production Company  
Rt. #3, Box 3630  
Myton, UT 84052

Re: Greater Boundary II Federal F-26-8-17 Well, Surface Location 516' FNL, 512' FWL, NW NW, Sec. 26, T. 8 South, R. 17 East, Bottom Location 1477' FNL, 71' FEL, NE NE, Sec. 27, T. 8 South, R. 17 East, Duchesne County, Utah

Gentlemen:

Pursuant to the provisions and requirements of Utah Code Ann. § 40-6-1 *et seq.*, Utah Administrative Code R649-3-1 *et seq.*, and the attached Conditions of Approval, approval to drill the referenced well is granted.

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. The API identification number assigned to this well is 43-013-33900.

Sincerely,

Gil Hunt  
Associate Director

pab  
Enclosures

cc: Duchesne County Assessor  
Bureau of Land Management, Vernal Office

**Operator:** Newfield Production Company  
**Well Name & Number** Greater Boundary II Federal F-26-8-17  
**API Number:** 43-013-33900  
**Lease:** UTU-76240

**Surface Location:** NW NW      **Sec.** 26      **T.** 8 South      **R.** 17 East  
**Bottom Location:** NE NE      **Sec.** 27      **T.** 8 South      **R.** 17 East

### Conditions of Approval

#### 1. 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.

#### 2. Notification Requirements

Notify the Division within 24 hours of spudding the well.

- Contact Carol Daniels at (801) 538-5284

Notify the Division prior to commencing operations to plug and abandon the well.

- Contact Dustin Doucet at (801) 538-5281    (801) 733-0983 home

#### 3. Reporting Requirements

All required reports, forms and submittals will be promptly filed with the Division, including but not limited to the Entity Action Form (Form 6), Report of Water Encountered During Drilling (Form 7), Weekly Progress Reports for drilling and completion operations, and Sundry Notices and Reports on Wells requesting approval of change of plans or other operational actions.

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

5. 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.

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL OR REENTER

FORM APPROVED  
OMB No. 1004-0136  
Expires January 31, 2004

1a. Type of Work: <input checked="" type="checkbox"/> DRILL <input type="checkbox"/> REENTER		5. Lease Serial No. UTU-76241
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		6. If Indian, Allottee or Tribe Name N/A
2. Name of Operator Newfield Production Company		7. If Unit or CA Agreement, Name and No. Greater Boundary II Unit
3a. Address Route #3 Box 3630, Myton UT 84052		8. Lease Name and Well No. Greater Boundary II Federal F-26-8-17
3b. Phone No. (include area code) (435) 646-3721		9. API Well No. 43 013 33900
4. Location of Well (Report location clearly and in accordance with any State requirements. *) At surface NW/4 516' FNL 512' FWL (Sec. 26, T8S R17E) At proposed prod. zone <del>SE/4</del> 1477' FNL 71' FEL (Sec. 27, T8S R17E) SENE		10. Field and Pool, or Exploratory Monument Butte
11. Sec., T., R., M., or Blk. and Survey or Area Sec. 26, T8S R17E		12. County or Parish Duchesne
13. State UT		14. Distance in miles and direction from nearest town or post office* Approximatley 13.8 miles southwest of Myton, Utah
15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any) Approx. 71' f/lse, 1477' f/unit	16. No. of Acres in lease 360.00	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. 1310'	19. Proposed Depth 6500'	20. BLM/BIA Bond No. on file WYB000493
21. Elevations (Show whether DF, KDB, RT, GL, etc.) 5091' GL	22. Approximate date work will start* 2nd Quarter 2008	23. Estimated duration Approximately seven (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, shall 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 shall be filed with the appropriate Forest Service Office). | 6. Such other site specific information and/or plans as may be required by the authorized officer. |

25. Signature <i>Mandie Crozier</i>	Name (Printed/Typed) Mandie Crozier	Date 2/14/08
Title Regulatory Specialist		

Approved by (Signature) <i>Jerry Kencala</i>	Name (Printed/Typed) JERRY KENCALA	Date 5-15-2008
Title Assistant Field Manager Lands & Mineral Resources		
Office VERNAL FIELD OFFICE		

Application approval does not warrant or certify the 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. **CONDITIONS OF APPROVAL 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.

\*(Instructions on reverse)

**NOTICE OF APPROVAL**

**RECEIVED**  
FEB - 4 2008

**RECEIVED**  
MAY 19 2008

**RECEIVED**  
FEB 22 2008

BLM VERNAL, UTAH  
DIV. OF OIL, GAS & MINING  
BLM VERNAL, UTAH

NOS 12/11/07  
08PP0276A

2/4/08



**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:** NWNW, Sec. 26, T8S, R17E (S)  
**Well No:** Greater Boundary II F-26-8-17      **Lease No:** UTU-76241  
**API No:** 43-013-33900      **Agreement:** Greater Boundary II Unit

Title	Name	Office Phone Number	Cell Phone Number
Petroleum Engineer:	Matt Baker	(435) 781-4490	(435) 828-4470
Petroleum Engineer:	Michael Lee	(435) 781-4432	(435) 828-7875
Petroleum Engineer:	James Ashley	(435) 781-4470	(435) 828-7874
Petroleum Engineer:	Ryan Angus	(435) 781-4430	(435) 828-7368
Supervisory Petroleum Technician:	Jamie Sparger	(435) 781-4502	(435) 828-3913
NRS/Enviro Scientist:		(435) 781-4475	(435) 828-4029
Supervisory NRS/Enviro Scientist:	Karl Wright	(435) 781-4484	(435) 828-7381
NRS/Enviro Scientist:	Holly Villa	(435) 781-4404	(435) 828-3544
NRS/Enviro Scientist:		(435) 781-4476	
NRS/Enviro Scientist:	Chuck Macdonald	(435) 781-4441	(435) 828-7482
NRS/Enviro Scientist:		(435) 781-3400	(435) 828-3544
NRS/Enviro Scientist:	Michael Cutler	(435) 781-3401	(435) 828-3546
NRS/Enviro Scientist:	Anna Figueroa	(435) 781-3407	(435) 828-3548
NRS/Enviro Scientist:	Verlyn Pindell	(435) 781-3402	(435) 828-3547
NRS/Enviro Scientist:	Darren Williams	(435) 781-4447	(435) 828-4029
NRS/Enviro Scientist:	Nathan Packer	(435) 781-3405	(435) 828-3545

**Fax: (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 (Notify Environmental Scientist)	-	Forty-Eight (48) hours prior to construction of location and access roads.
Location Completion (Notify Environmental Scientist)	-	Prior to moving on the drilling rig.
Spud Notice (Notify Petroleum Engineer)	-	Twenty-Four (24) hours prior to spudding the well.
Casing String & Cementing (Notify Supv. Petroleum Tech.)	-	Twenty-Four (24) hours prior to running casing and cementing all casing strings.
BOP & Related Equipment Tests (Notify Supv. Petroleum Tech.)	-	Twenty-Four (24) hours prior to initiating pressure tests.
First Production Notice (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)***

- 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.

**STIPULATIONS:** None.

- Lease Notices from RMP:
  1. Lessee/operator is given notice the area has been identified as containing Golden Eagle habitat. Modifications may be required in the Surface Use Plan to protect the Golden Eagle and/or their habitat from surface disturbing activities in accordance with Section 6 of the lease terms, Endangered Species Act, and 43 CFR 3101.1-2.

Comments: None.

**Follow-up Actions and/or Recommendations:**

**Please be aware that this Special Status Species wildlife clearance is effective for 1 year from the date of the onsite date. Any proposals submitted after the date of this report (onsite) shall require additional surveys and clearances.**

**CONDITIONS OF APPROVAL:**

- ***Sclerocactus* spp. site specific surveys are required prior to installation of injection waterlines associated with this APD. If individuals are discovered within less than 115 feet centerline of proposed pipeline right-of-way, waterlines will be buried in existing road to avoid additional cactus disturbance. If *Sclerocactus* occur within less than 100 feet from well pad or 115 feet from centerline of pipeline (buried in road), construction of both well pad and burying pipeline will occur when *Sclerocactus* not in flower.**
- **No surface disturbance outside of APD proposal is authorized. If other disturbance is necessary, authorization will be proposed in a sundry notice (Form 3160-5) to BLM Authorized Officer. *Sclerocactus brevispinus* surveys are required prior to new surface disturbing activities including pipelines (surface and buried).**
- All traffic related to this action will be restricted to approved routes. Cross-country vehicle travel will not be allowed.
- All pipelines (surface and buried) will be laid within one 50' wide construction ROW, on one side of the road, and will reduce down to a 30' wide permanent ROW on lease.
- No vehicle travel, construction or routine maintenance activities shall be performed during periods when the soil is too wet to adequately support vehicles and/or construction equipment. If such equipment creates ruts in excess of three inches deep, the soil shall be deemed too wet to adequately support construction equipment.

- If additional erosion occurs during the life of this project, more culverts, low water crossings, berms, wing ditches or etc. will be needed to control the erosion.
- Low-water crossings will be appropriately constructed to avoid sedimentation of drainage ways and other water resources.
- Pipelines will be buried at all major drainage crossings.
- Prevent fill and stock piles from entering drainages.
- To insure impermeability, the reserve pit will be lined with a 16 ml or greater liner and felt prior to spudding.
- The liner is to be cut 5 feet below ground surface or at the level of the cuttings, whichever is deeper, and the excess liner material is to be disposed of at an authorized disposal site.
- When the reserve pit contains fluids or toxic substances, the operator must ensure animals do not ingest or become entrapped in pit fluids.
- Any hydrocarbons in the reserve pit will be removed **immediately** upon well completion; in accordance with 43 CFR 3162.7-1. Pits must be free of oil and other liquid and solid wastes prior to filling.
- Monument Butte SOP, Section 9.2 - Pit Fencing Minimum Standards - will be strictly adhered to. To include 9.2.2.3 - Corner posts will be cemented and/or braced in such a manner as to keep fence tight at all times.
- If Uinta Basin hookless cactus or other special status plants are found, construction will cease and the AO will be notified to determine the appropriate mitigation.
- **Interim Reclamation:**

The topsoil from the reserve pit shall be stripped and piled separately near the reserve pit. When the reserve pit is closed, it shall be recontoured and the topsoil respread, and the area shall be **seeded using a rangeland drill**. Seeding depth as per AO, or seed distributor. If portions of the site are too steep (>40%), or rocky, that portion may be broadcast seeded. If broadcasting seed, the seed shall be walked into the soil with a dozer immediately after the seeding is completed, or covered by soil using a drag chain. Seeding shall occur in the fall (August 1<sup>st</sup> until snow or ground is frozen) with the following seed mix:

Seed mix:

Common name	Latin name	lbs/acre	Recommended seed planting depth
Squirreltail grass	<i>Elymus elymoides</i>	3.0	1/4 - 1/2"
Siberian wheatgrass	<i>Agropyron fragile</i>	1.0	1/2"
Shadscale saltbush	<i>Atriplex confertifolia</i>	0.50	1/2"
Four-wing saltbush	<i>Atriplex canescens</i>	0.50	1/2"
Gardner's saltbush	<i>Atriplex gardneri</i>	0.50	1/2"
Scarlet globemallow	<i>Sphaeralcea coccinea</i>	0.10	1/8 - 1/4"

- All pounds are pure live seed.
- All seed and mulch will be certified weed free.
- Rates are set for drill seeding; double rate if broadcasting.
- Reseeding may be required if initial seeding is not successful.

- **Final reclamation:**

Once the location is plugged and abandoned, the well location, access, and any disturbed areas shall be re-contoured to natural topography, topsoil shall be re-spread, and the entire location shall be seeded following guidelines in the seed mix bullet statement above. Final seed mix: same as interim.

- Noxious and/or invasive weeds will be controlled along access roads, pipelines, well sites, and all other applicable facilities. Any noxious and/or invasive weeds outbreak, directly attributed to the activities of the Operator, will be the responsibility of the Operator to control. On BLM administered land, a Pesticide Use Proposal (PUP) must be submitted and approved prior to the application of herbicides, pesticides, or other possibly hazardous chemicals.
- The topsoil from the reserve pit shall be stripped and piled separately near the reserve pit. When the reserve pit is closed, it shall be re-contoured and the topsoil re-spread, and the area shall be seeded in the same manner as the location topsoil.
- Once the location is plugged and abandoned, it shall be re-contoured to natural topology, topsoil shall be re-spread, and the entire location shall be seeded with a seed mix recommended by the AO (see above). Seed application will follow all guidelines in the interim seed mix bullet statement above. If reclamation seeding should take place using the broadcast method, the seed at a minimum will be walked into the soil with a dozer immediately after the seeding is completed.
- The authorized officer may prohibit surface disturbing activities during severe winter conditions to minimize watershed damage. This limitation does not apply to operation and maintenance of producing wells.
- The authorized officer may prohibit surface disturbing activities during wet or muddy conditions to minimize watershed damage. This limitation does not apply to operation and maintenance of producing wells.
- All well facilities not regulated by OSHA will be painted Carlsbad Canyon.
- All boulders with a length or diameter greater than 3 feet, that are found showing at the surface, will be stockpiled for use during final reclamation.
- Notify the Authorized Officer 48 hours prior to surface disturbing activities.

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

**SITE SPECIFIC DOWNHOLE COAs:**

- Logging program: Gamma Ray shall be run from TD to surface.

**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 (¼¼, 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.

# DIVISION OF OIL, GAS AND MINING

## **SPUDDING INFORMATION**

Name of Company: NEWFIELD PRODUCTION COMPANY

Well Name: GB II F-26-8-17

Api No: 43-013-33900 Lease Type: FEDERAL

Section 26 Township 08S Range 17E County DUCHESNE

Drilling Contractor ROSS DRILLING RIG # 21

### **SPUDDED:**

Date 08/14/08

Time 8:30 AM

How DRY

**Drilling will Commence:** \_\_\_\_\_

Reported by ALVIN NIELSEN

Telephone # (435) 823-7468

Date 08/14/08 Signed CHD

RECEIVED

AUG 20 2008

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

DIV. OF OIL, GAS & MINING

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

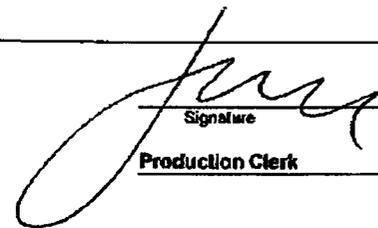
OPERATOR ACCT. NO. N2695

ACTION CODE	CURRENT ENTITY NO.	NEW ENTITY NO.	API NUMBER	WELL NAME	WELL LOCATION				COUNTY	SPUD DATE	EFFECTIVE DATE
					QQ	SC	TP	RG			
WELL 4 COMMENTS:											
B	99999	12053	4304739973	HUMPBACK FEDERAL R-25-8-17	SESW	25	8S	17E	UINTAH	8/18/2008	8/25/08
GRUV BHL = SESW											
B	99999	12418	4301333897	WEST POINT FEDERAL I-6-9-16	NWNE	6	9S	16E	DUCHESNE	8/18/2008	8/25/08
GRUV BHL = NWNE											
B	99999	12053	4304740018	HUMPBACK FEDERAL S-25-8-17	SESE NWNW	25	8S	17E	UINTAH	8/19/2008	8/25/08
WELL 6 COMMENTS: GRUV BHL = SWSE											
B	99999	12391	4301333900	GREATER BOUNDARY FEDERAL F-26-8-17	NWNW	26	8S	17E	DUCHESNE	8/14/2008	8/25/08
WELL 5 COMMENTS: GRUV BHL = Sec 27 NENE											

ACTION CODES (See instructions on back of form)

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

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



Signature  
Production Clerk

Jenri Park

08/20/08

Date



# NEWFIELD PRODUCTION COMPANY - CASING & CEMENT REPORT

\_\_\_\_\_ **8 5/8** \_\_\_\_\_ CASING SET AT \_\_\_\_\_ **337.15** \_\_\_\_\_

LAST CASING 8 5/8" SET AT 337.15'  
 DATUM 12' KB  
 DATUM TO CUT OFF CASING \_\_\_\_\_  
 DATUM TO BRADENHEAD FLANGE \_\_\_\_\_  
 TD DRILLER 330' LOGGER \_\_\_\_\_  
 HOLE SIZE 12 1/4

OPERATOR Newfield Production Company  
 WELL Greater Boundary F-26-8-17  
 FIELD/PROSPECT Monument Butte  
 CONTRACTOR & RIG # Ross Rig # 21

**LOG OF CASING STRING:**

PIECES	OD	ITEM - MAKE - DESCRIPTION	WT / FT	GRD	THREAD	CONDT	LENGTH
		Shoe Joint 40.00'					
		WHI - 92 csg head			8rd	A	0.95
7	8 5/8"	Maverick ST&C csg	24#	J-55	8rd	A	325.3
		<b>GUIDE</b> shoe			8rd	A	0.9
CASING INVENTORY BAL.		FEET	JTS	TOTAL LENGTH OF STRING			327.15
TOTAL LENGTH OF STRING		327.15	7	LESS CUT OFF PIECE			2
LESS NON CSG. ITEMS		1.85		PLUS DATUM TO T/CUT OFF CSG			12
PLUS FULL JTS. LEFT OUT		0		CASING SET DEPTH			<b>337.15</b>
TOTAL		325.3	7	} COMPARE			
TOTAL CSG. DEL. (W/O THRDS)		325.3	7				
TIMING		1ST STAGE					
BEGIN RUN CSG.	Spud	8/14/2008	8:30 AM	GOOD CIRC THRU JOB <u>YES</u>			
CSG. IN HOLE		8/14/2008	2:30 PM	Bbls CMT CIRC TO SURFACE <u>3</u>			
BEGIN CIRC		8/18/2008	3:10 PM	RECIPROCATED PIPE FOR <u>N/A</u>			
BEGIN PUMP CMT		8/18/2008	3:22 PM				
BEGIN DSPL. CMT		8/18/2008	3:36 PM	BUMPED PLUG TO <u>200</u> PSI			
PLUG DOWN		8/18/2008	3:46 PM				

CEMENT USED		CEMENT COMPANY- <b>B. J.</b>					
STAGE	# SX	CEMENT TYPE & ADDITIVES					
1	160	Class "G" w/ 2% CaCL2 + 1/4#/sk Cello-Flake mixed @ 15.8 ppg 1.17 cf/sk yield					

CENTRALIZER & SCRATCHER PLACEMENT	SHOW MAKE & SPACING
Centralizers - Middle first, top second & third for 3	

COMPANY REPRESENTATIVE Alvin Nielsen DATE 8/19/2008

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

5. LEASE DESIGNATION AND SERIAL NUMBER:  
USA UTU-76240

**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:  
GREATER BOUNDARY II

1. TYPE OF WELL: OIL WELL  GAS WELL  OTHER

8. WELL NAME and NUMBER: File-8-17  
GREATER BOUNDARY II FEDERAL

2. NAME OF OPERATOR:  
NEWFIELD PRODUCTION COMPANY

9. API NUMBER:  
4301333900

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:  
MONUMENT BUTTE

4. LOCATION OF WELL:  
FOOTAGES AT SURFACE: 516 FNL 512 FWL

COUNTY: DUCHESNE

OTR/OTR. SECTION. TOWNSHIP. RANGE. MERIDIAN: NWNW, 26, T8S, R17E

STATE: UT

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

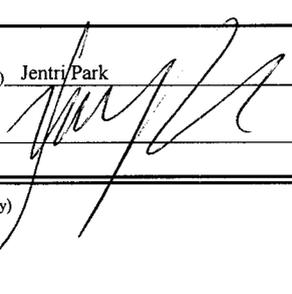
TYPE OF SUBMISSION	TYPE OF ACTION		
<input type="checkbox"/> NOTICE OF INTENT (Submit in Duplicate)  Approximate date work will _____	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> REPERFORATE CURRENT FORMATION
	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> 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>10/09/2008</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 10-06-08, attached is a daily completion status report.

NAME (PLEASE PRINT) Jentri Park

TITLE Production Clerk

SIGNATURE 

DATE 10/09/2008

(This space for State use only)

**RECEIVED**

**OCT 16 2008**

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

## Daily Activity Report

Format For Sundry

GRTR BNDRY F-26-8-17

7/1/2008 To 11/30/2008

9/18/2008 Day: 1

Completion

Rigless on 9/17/2008 - Install 5M frac head. NU 6" 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 @ 6452' cement top @ sfc. Perforate stage #1. CP5 sds @ 6296-6304' & CP4 sds @ 6450-58' w/ 3 1/8" slick guns (19 gram, .49" HE, 120°, 21.92" pen, EXP-3319-331 Titan) w/ 4 spf for total of 64 shots. 155 BWTR. SIFN.

9/30/2008 Day: 2

Completion

Rigless on 9/29/2008 - Stage #1 CP4/CP5 sds. RU BJ Services. 20 psi on well. Frac CP4/CP5 sds w/ 39,849#'s of 20/40 sand in 348 bbls of Lightning 17 fluid. Broke @ 2568 psi. Treated w/ ave pressure of 2088 psi w/ ave rate of 23.2 BPM. ISIP 2077 psi. Leave pressure on well. 593 BWTR. Stage #2 CP2 sds. RU Lone Wolf, llc WLT, crane & Lubricator. RIH w/ Weatherford 5-1/2" 6K composite flow through frac plug & 10' perf gun. Set plug @ 6160'. Perforate CP2 sds @ 6118-28' w/ 3-1/8" Slick Guns (.369"EH, 22.7 gram, 90°) w/ 4 spf for total of 40 shots. RU BJ Services. 1410 psi on well. Frac CP2 sds w/ 34,857#'s of 20/40 sand in 397 bbls of Lightning 17 fluid. Broke @ 4024 psi. Treated w/ ave pressure of 2263 psi w/ ave rate of 24.4 BPM. ISIP 3243 psi. Leave pressure on well. 990 BWTR. Stage #3 CP1 sds. RU Lone Wolf, llc WLT, crane & Lubricator. RIH w/ Weatherford 5-1/2" 6K composite flow through frac plug & 24' perf gun. Set plug @ 6075'. Perforate CP1 sds @ 6038-62' w/ 3-1/8" Slick Guns (.369"EH, 22.7 gram, 90°) w/ 4 spf for total of 96 shots. RU BJ Services. 1500 psi on well. Frac CP1 sds w/ 55,340#'s of 20/40 sand in 509 bbls of Lightning 17 fluid. Broke @ 2645 psi. Treated w/ ave pressure of 1798 psi w/ ave rate of 22.7 BPM. ISIP 2055 psi. Leave pressure on well. 1499 BWTR. Stage #4 B.5 sds. RU Lone Wolf, llc WLT, crane & Lubricator. RIH w/ Weatherford 5-1/2" 6K composite flow through frac plug & 8' perf gun. Set plug @ 5500'. Perforate B.5 sds @ 5424-32' w/ 3-1/8" Slick Guns (.369"EH, 22.7 gram, 90°) w/ 4 spf for total of 32 shots. RU BJ Services. 1650 psi on well. Frac B.5 sds w/ 29,629#'s of 20/40 sand in 399 bbls of Lightning 17 fluid. Broke @ 3420 psi. Treated w/ ave pressure of 1919 psi w/ ave rate of 23.1 BPM. ISIP 2554 psi. Leave pressure on well. 1898 BWTR. Stage #5 D2/D3 sds. RU Lone Wolf, llc WLT, crane & Lubricator. RIH w/ Weatherford 5-1/2" 6K composite flow through frac plug & 24' & 8' perf guns. Set plug @ 5310'. Perforate D2 sds @ 5212-36' & D3 sds @ 5256-64' w/ 3-1/8" Slick Guns (.369"EH, 22.7 gram, 90°) w/ 4 spf for total of 128 shots. RU BJ Services. 1422 psi on well. Frac D2/D3 sds w/ 59,829#'s of 20/40 sand in 520 bbls of Lightning 17 fluid. Broke @ 2054 psi. Treated w/ ave pressure of 1463 psi w/ ave rate of 23.1 BPM. ISIP 1702 psi. Leave pressure on well. 2418 BWTR. Stage #6 DS3 sds. RU Lone Wolf, llc WLT, crane & Lubricator. RIH w/ Weatherford 5-1/2" 6K composite flow through frac plug & 16' perf gun. Set plug @ 5130'. Perforate DS3 sds @ 5086-5102' w/ 3-1/8" Slick Guns (.369"EH, 22.7 gram, 90°) w/ 4 spf for total of 64 shots. RU BJ Services. 1270 psi on well. Frac DS3 sds w/ 51,107#'s of 20/40 sand in 459 bbls of Lightning 17 fluid. Broke @ 2503 psi. Treated w/ ave pressure of 1776 psi w/ ave rate of 22.9 BPM. ISIP 2436 psi. Leave pressure on well. 2877 BWTR. Stage #7 GB6 sds. RU Lone Wolf, llc WLT, crane & Lubricator. RIH w/ Weatherford 5-1/2" 6K composite flow through frac plug & 12' perf gun. Set plug @ 4750'. Perforate GB6 sds @ 4690-4702' w/ 3-1/8" Slick Guns (.369"EH, 22.7 gram, 90°) w/ 4 spf for total of 48 shots. RU BJ Services. 1240 psi on well. Frac GB6 sds

w/ 24,377#'s of 20/40 sand in 341 bbls of Lightning 17 fluid. Broke @ 1452 psi. Treated w/ ave pressure of 1936 psi w/ ave rate of 23.1 BPM. ISIP 1913 psi. Leave pressure on well. Open well to pit for immediate flowback @ 3 bpm. Well flowed for 6 hrs. & died. Recovered 850 bbls water. SWIFN.

**10/1/2008 Day: 3**

**Completion**

Western #4 on 9/30/2008 - MIRU Western #4. Attempt to bleed off well. Well flowed for 1 hr. Recovered 30 bbls. RU The Perforators WL. Set CBP @ 4588'. Bleed off well. SWIFN.

**10/2/2008 Day: 4**

**Completion**

Western #4 on 10/1/2008 - ND Cameron BOP & 5m frac head. NU 3m production head & Schaffer BOP. RIH w/ 4 3/4" chomp bit, bit sub & new 2 7/8" tbg. from pipe racks (tallying & drifting). Tag CBP @ 4588'. RU powerswivel & pump. Circulate well clean. SWIFN.

**10/3/2008 Day: 5**

**Completion**

Western #4 on 10/2/2008 - Cont. RIH w/ tbg. Tag CBP @ 4588'. DU CBP in 15 min. Cont. RIH w/ tbg. Tag CBP @ 4750'. DU CBP in 27 min. Cont. RIH w/ tbg. Tag sand @ 5072'. C/O to CBP @ 5130'. DU CBP in 19 min. Cont. RIH w/ tbg. Tag CBP @ 5310'. DU CBP in 28 min. Cont. RIH w/ tbg. Tag CBP in 5500'. DU CBP in 28 min. Cont. RIH w/ tbg. Tag CBP @ 6075'. DU CBP in 19 min. Cont. RIH w/ tbg. Tag CBP @ 6160'. DU CBP in 40 min. Cont. RIH w/ tbg. Tag sand @ 6356'. C/O to PBDT @ 6511'. Circulate well clean. Pull up to 6431'. SWIFN.

**10/4/2008 Day: 6**

**Completion**

Western #4 on 10/3/2008 - Open well to tanks. Flow well for 3.5 hrs. Recovered 205 bbls. 20% oil (40 bbls oil). Kill well w/ 190 bbls 10# brine water. RIH w/ tbg. Tag PBDT @ 6511' (no fill). POOH w/ tbg. LD BHA. RIH w/ 2 7/8" notched collar, 2 jts 2 7/8" tbg., PSN, 3 jts 2 7/8" tbg., 5 1/2" TAC, 200 jts 2 7/8" tbg. ND BOP. Set TAC @ 6219' w/ 16,000# tension. NU wellhead. X-over for rods. Flush tbg. w/ 60 bbls water. SWIFN.

**10/7/2008 Day: 7**

**Completion**

Western #4 on 10/6/2008 - Bleed off tbg. RIH w/ CDI 2 1/2" x 1 3/4" x 16' x 20' RHAC rod pump, shear coupler, 4- 1 1/2" weight bars, 248- 7/8" scraped rods, 1 - 2' x 7/8" pony rod, 1 1/2" x 26' polished rod, stopping once to kill tbg. w/ 40 bbls 10# brine water. Seat pump. RU pumping unit. Hang off rods. Stroke test pump to 800 psi. Good pump action. RD. Put well on production @ 1:30 p.m. 5 spm, 122" stroke length. Final Report.

**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

5. Lease Serial No.  
UTU-76240

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

6. If Indian, Allottee or Tribe Name  
NA

2. Name of Operator  
NEWFIELD EXPLORATION COMPANY

7. Unit or CA Agreement Name and No.  
GREATER BOUNDARY II

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

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

8. Lease Name and Well No.  
GB FEDERAL F-26-8-17

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

At surface 516' FNL & 512' FWL (NW/NW) SEC. <sup>26</sup>~~27~~, T8S, R17E

At top prod. interval reported below 1477' FNL & 71' FEL (SE/NE)

At total depth <sup>BH#</sup> 657' ~~657'~~ 1468 FNL 0054 FEL SE/NE S27 T08S R17E

10. Field and Pool or Exploratory  
MONUMENT BUTTE

11. Sec., T., R., M., on Block and  
Survey or Area  
SEC. 26, T8S, R17E

12. County or Parish  
DUCHESNE

13. State  
UT

14. Date Spudded  
08/14/2008

15. Date T.D. Reached  
09/06/2008

16. Date Completed 10/06/2009  
 D & A  Ready to Prod.

17. Elevations (DF, RKB, RT, GL)\*  
5091' GL 5103' KB

18. Total Depth: MD 6582'  
TVD 6474

19. Plug Back T.D.: MD 6511'  
TVD 6403

20. Depth Bridge Plug Set: MD  
TVD

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#		325'		160 CLASS G			
7-7/8"	5-1/2" J-55	15.5#		6208'		350 PRIMLITE		SURFACE	
						525 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@ 6379'	TA @ 6220'						

25. Producing Intervals

Formation	Top	Bottom	Perforated Interval	Size	No. Holes	Perf. Status
A) GREEN RIVER			(CP5)6296-04(CP4)6250-5	.49"	4	64
B) GREEN RIVER			(CP2) 6118-6128'	.49"	4	40
C) GREEN RIVER			(CP1) 6038-6062'	.49"	4	96
D) GREEN RIVER			(B.5) 5424-5432'	.49"	4	32

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

Depth Interval	Amount and Type of Material
6250-6304'	Frac w/ 39849# of 20/40 snd 348 bbls fluid
6118-6128'	Frac w/ 34857# 20/40 snd 397 bbls fluid
6038-6062'	Frac w/ 55340# 20/40 snd 509 bbls fluid
5424-5432'	Frac w/ 29629# 20/40 snd 399 bbls fluid

28. Production - Interval A

Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
10/06/08	11/27/08	24	→	116	64	10			2-1/2" x 1-3/4" x 16' x 20' RHAC Rod 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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JUN 08 2009

\*(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
				GARDEN GULCH MRK GARDEN GULCH 1	4151' 4341'
				GARDEN GULCH 2 POINT 3	4464' 4739'
				X MRKR Y MRKR	4963' 4998'
				DOUGALS CREEK MRK BI CARBONATE MRK	5137' 5395'
				B LIMESTON MRK CASTLE PEAK	5547' 6004'
				BASAL CARBONATE TOTAL DEPTH (LOGGERS)	6417' 6577'

32. Additional remarks (include plugging procedure):

(D2) 5212-5236' & (D3) 5256-5264' .49" 4/128 5212-5236' Frac w/ 59829#s of 20/40 sand in 520 bbls of fluid  
 (DS3) 5086-5102' .49" 4/64 5086-5102' Frac w/ 51107#s of 20/40 sand in 459 bbls of fluid  
 (GB6) 4690-4702' .49" 4/48 4690-4702' Frac w/ 24377#s of 20/40 sand in 341 bbls of fluid

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:

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) Tammi Lee      Title Production Clerk  
 Signature Tammi Lee      Date 05/27/2009

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.



**Scientific  
Drilling**

## Directional Survey Certification

7327 West Barton Road  
Casper, WY 82604  
(307)-472-6621 Fax (307) 472-5439

<b>Operator</b>	<u>Newfield Exploration Co.</u>
<b>Well Name &amp; No.</b>	<u>Greater Boundary II F-26-8-17</u>
<b>County &amp; State</b>	<u>Duchesne County, UT</u>
<b>SDI Job No.</b>	<u>42DEF0808717</u>
<b>Rig</b>	<u>NDSI 2</u>

I, Julie Cruse, having personal knowledge of all the facts, hereby certify that the attached directional survey run from a measured depth of 385 feet to a measured depth of 6582 feet is true and correct as determined from all available records.

Julie Cruse

Signature

07-Oct-08

Date

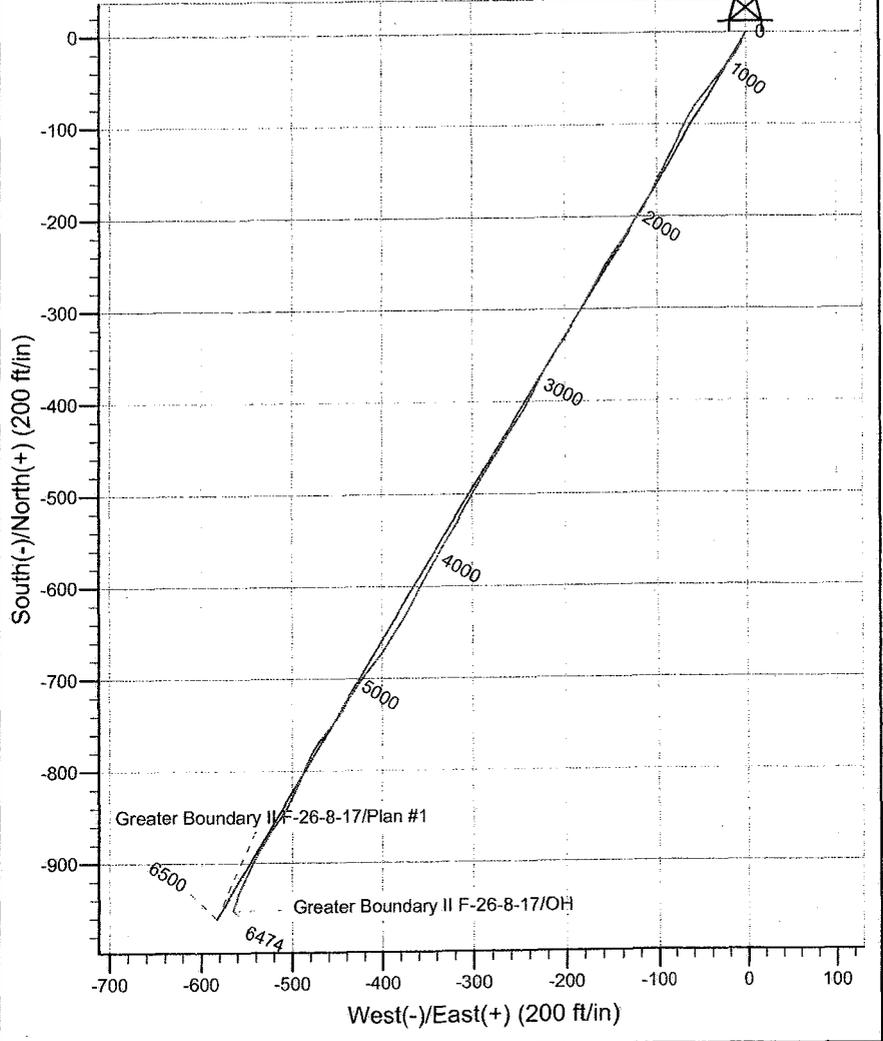
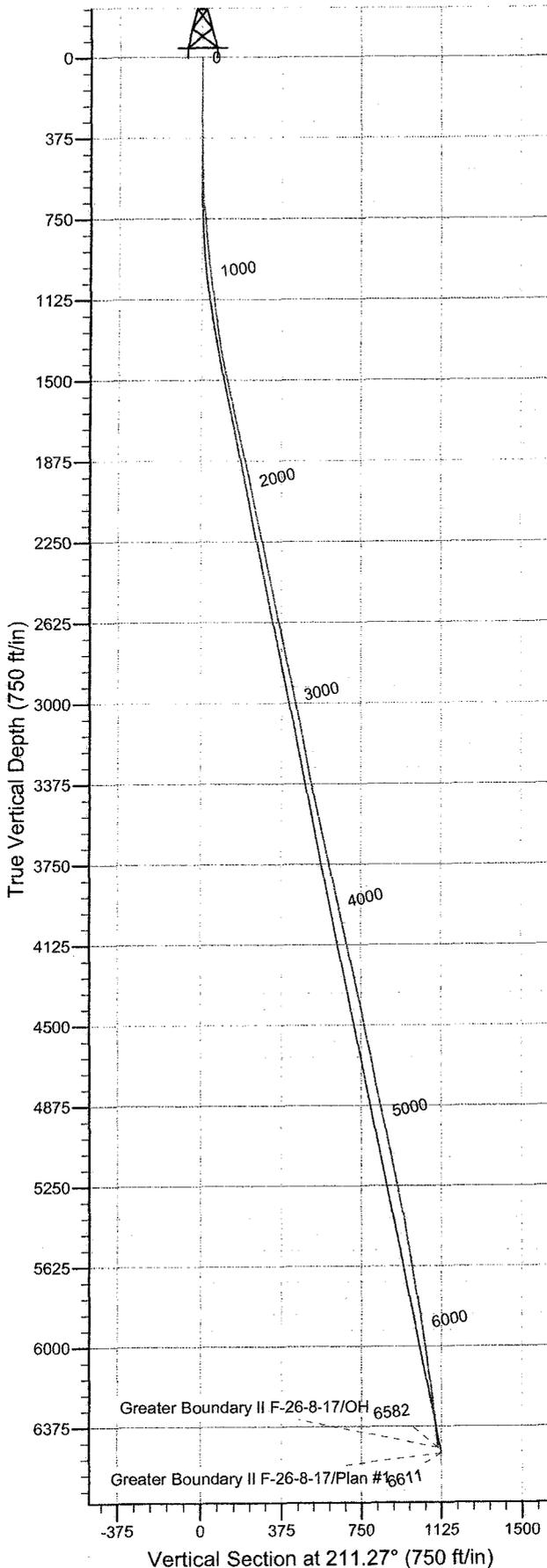
**Julie Cruse**  
Rockies Region Engineer  
Scientific Drilling - Rocky Mountain District



**Scientific Drilling**  
Rocky Mountain Operations

Project: Duchesne County, UT NAD83 UTC  
Site: Greater Boundary II  
Well: Greater Boundary II F-26-8-17  
Wellbore: OH  
Design: OH

**Newfield Exploration Co.**



**WELL DETAILS: Greater Boundary II F-26-8-17**

Ground Level: GL 5091' & RKB 12' @ 5103.00ft (NDSI 2)						
+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Slot
0.00	0.00	7206865.98	2065248.74	40° 5' 41.180 N	109° 58' 52.780 W	

**REFERENCE INFORMATION**

Co-ordinate (N/E) Reference: Well Greater Boundary II F-26-8-17, True North  
Vertical (TVD) Reference: GL 5091' & RKB 12' @ 5103.00ft (NDSI 2)  
Section (VS) Reference: Slot - (0.00N, 0.00E)  
Measured Depth Reference: GL 5091' & RKB 12' @ 5103.00ft (NDSI 2)  
Calculation Method: Minimum Curvature  
Local North: No north reference data is available  
Location:

**PROJECT DETAILS: Duchesne County, UT NAD83 UTM**

Geodetic System: US State Plane 1983  
Datum: North American Datum 1983  
Ellipsoid: GRS 1980  
Zone: Utah Central Zone

**Design: OH (Greater Boundary II F-26-8-17/OH)**

Created By: Laura Turner Date: 2008-10-07

# **Newfield Exploration Co.**

Duchesne County, UT NAD83 UTC

Greater Boundary II

Greater Boundary II F-26-8-17

OH

Design: OH

## **Standard Survey Report**

07 October, 2008

# Scientific Drilling

## Survey Report

**Company:** Newfield Exploration Co.  
**Project:** Duchesne County, UT NAD83 UTC  
**Site:** Greater Boundary II  
**Well:** Greater Boundary II F-26-8-17  
**Wellbore:** OH  
**Design:** OH

**Local Co-ordinate Reference:** Well Greater Boundary II F-26-8-17  
**TVD Reference:** GL 5091' & RKB 12' @ 5103.00ft (NDSI 2)  
**MD Reference:** GL 5091' & RKB 12' @ 5103.00ft (NDSI 2)  
**North Reference:** True  
**Survey Calculation Method:** Minimum Curvature  
**Database:** EDM 2003.16 Multi User Db

<b>Project</b>	Duchesne County, UT NAD83 UTC		
<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> Greater Boundary II,			
<b>Site Position:</b>		<b>Northing:</b>	7,206,865.99ft
<b>From:</b>	Lat/Long	<b>Easting:</b>	2,065,248.74ft
<b>Position Uncertainty:</b>	0.00 ft	<b>Slot Radius:</b>	in
		<b>Latitude:</b>	40° 5' 41.180 N
		<b>Longitude:</b>	109° 58' 52.780 W
		<b>Grid Convergence:</b>	0.97 °

<b>Well</b> Greater Boundary II F-26-8-17, 516' FNL 512' FWL Sec 26 T8S R17E			
<b>Well Position</b>	<b>+N/-S</b>	0.00 ft	<b>Northing:</b> 7,206,865.98 ft
	<b>+E/-W</b>	0.00 ft	<b>Easting:</b> 2,065,248.74 ft
<b>Position Uncertainty</b>	0.00 ft	<b>Wellhead Elevation:</b>	ft
		<b>Latitude:</b>	40° 5' 41.180 N
		<b>Longitude:</b>	109° 58' 52.780 W
		<b>Ground Level:</b>	5,091.00 ft

<b>Wellbore</b> OH					
<b>Magnetics</b>	<b>Model Name</b>	<b>Sample Date</b>	<b>Declination</b>	<b>Dip Angle</b>	<b>Field Strength</b>
	IGRF2005-10	2008-08-26	(°)	(°)	(nT)
			11.63	65.93	52,615

<b>Design</b> OH					
<b>Audit Notes:</b>					
<b>Version:</b>	1.0	<b>Phase:</b>	ACTUAL	<b>Tie On Depth:</b>	0.00
<b>Vertical Section:</b>	<b>Depth From (TVD)</b>	<b>+N/-S</b>	<b>+E/-W</b>	<b>Direction</b>	
	(ft)	(ft)	(ft)	(°)	
	0.00	0.00	0.00	211.27	

<b>Survey Program</b> Date 2008-10-07					
<b>From</b>	<b>To</b>	<b>Survey (Wellbore)</b>	<b>Tool Name</b>	<b>Description</b>	
(ft)	(ft)				
385.00	6,582.00	Survey #1 (OH)	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)	
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
385.00	0.12	149.05	385.00	-0.35	0.21	0.19	0.03	0.03	0.00	
<b>First MWD Survey</b>										
416.00	0.24	276.43	416.00	-0.37	0.16	0.23	1.06	0.39	410.90	
446.00	0.71	238.72	446.00	-0.46	-0.06	0.42	1.80	1.57	-125.70	
477.00	1.29	224.76	476.99	-0.80	-0.47	0.93	2.02	1.87	-45.03	
508.00	1.35	213.80	507.99	-1.35	-0.92	1.64	0.84	0.19	-35.35	
538.00	1.86	216.64	537.97	-2.04	-1.41	2.47	1.72	1.70	9.47	
569.00	2.49	204.81	568.95	-3.05	-1.99	3.64	2.49	2.03	-38.16	
600.00	2.96	198.27	599.92	-4.43	-2.52	5.09	1.82	1.52	-21.10	
631.00	3.44	198.11	630.87	-6.07	-3.06	6.78	1.55	1.55	-0.52	
661.00	3.54	203.11	660.81	-7.78	-3.71	8.57	1.07	0.33	16.67	
692.00	3.73	206.39	691.75	-9.56	-4.53	10.52	0.91	0.61	10.58	

# Scientific Drilling

## Survey Report

**Company:** Newfield Exploration Co.  
**Project:** Duchesne County, UT NAD83 UTC  
**Site:** Greater Boundary II  
**Well:** Greater Boundary II F-26-8-17  
**Wellbore:** OH  
**Design:** OH

**Local Co-ordinate Reference:** Well Greater Boundary II F-26-8-17  
**TVD Reference:** GL 5091' & RKB 12' @ 5103.00ft (NDSI 2)  
**MD Reference:** GL 5091' & RKB 12' @ 5103.00ft (NDSI 2)  
**North Reference:** True  
**Survey Calculation Method:** Minimum Curvature  
**Database:** EDM 2003.16 Multi 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)
723.00	3.99	210.79	722.68	-11.39	-5.53	12.61	1.27	0.84	14.19
753.00	4.57	210.17	752.60	-13.32	-6.67	14.85	1.94	1.93	-2.07
784.00	4.80	209.43	783.49	-15.52	-7.92	17.38	0.77	0.74	-2.39
815.00	5.35	210.63	814.37	-17.89	-9.30	20.12	1.81	1.77	3.87
845.00	5.46	210.88	844.24	-20.32	-10.74	22.94	0.37	0.37	0.83
876.00	5.70	211.60	875.09	-22.90	-12.31	25.96	0.81	0.77	2.32
907.00	5.92	215.47	905.93	-25.51	-14.04	29.09	1.45	0.71	12.48
939.00	6.18	214.42	937.75	-28.27	-15.97	32.46	0.88	0.81	-3.28
970.00	6.59	219.62	968.56	-31.02	-18.05	35.88	2.29	1.32	16.77
1,002.00	6.71	217.28	1,000.35	-33.92	-20.35	39.56	0.93	0.37	-7.31
1,034.00	7.14	218.81	1,032.11	-36.96	-22.73	43.39	1.46	1.34	4.78
1,066.00	7.56	218.95	1,063.85	-40.15	-25.30	47.45	1.31	1.31	0.44
1,097.00	7.74	220.81	1,094.57	-43.31	-27.95	51.53	0.99	0.58	6.00
1,129.00	7.74	219.53	1,126.28	-46.61	-30.73	55.78	0.54	0.00	-4.00
1,161.00	7.73	220.48	1,157.99	-49.90	-33.50	60.04	0.40	-0.03	2.97
1,193.00	8.02	217.60	1,189.69	-53.31	-36.26	64.38	1.53	0.91	-9.00
1,224.00	8.29	217.34	1,220.38	-56.80	-38.93	68.76	0.88	0.87	-0.84
1,256.00	8.71	216.89	1,252.02	-60.57	-41.78	73.46	1.33	1.31	-1.41
1,288.00	9.28	216.60	1,283.63	-64.58	-44.78	78.44	1.79	1.78	-0.91
1,319.00	9.45	217.42	1,314.22	-68.61	-47.81	83.46	0.70	0.55	2.65
1,351.00	9.80	216.54	1,345.77	-72.88	-51.03	88.78	1.19	1.09	-2.75
1,383.00	10.10	214.19	1,377.29	-77.39	-54.23	94.30	1.58	0.94	-7.34
1,414.00	10.54	212.82	1,407.78	-82.02	-57.29	99.85	1.63	1.42	-4.42
1,446.00	11.14	209.78	1,439.21	-87.17	-60.42	105.86	2.59	1.87	-9.50
1,478.00	11.77	208.33	1,470.58	-92.72	-63.50	112.21	2.16	1.97	-4.53
1,510.00	12.37	208.38	1,501.87	-98.61	-66.68	118.90	1.88	1.87	0.16
1,605.00	12.87	207.62	1,594.57	-116.94	-76.42	139.62	0.55	0.53	-0.80
1,700.00	12.66	208.83	1,687.22	-135.43	-86.34	160.58	0.36	-0.22	1.27
1,795.00	13.10	207.47	1,779.83	-154.10	-96.33	181.72	0.56	0.46	-1.43
1,890.00	11.79	204.08	1,872.60	-172.52	-105.26	202.09	1.58	-1.38	-3.57
1,985.00	12.04	211.22	1,965.56	-189.85	-114.35	221.63	1.57	0.26	7.52
2,079.00	12.81	216.56	2,057.36	-206.61	-125.64	241.81	1.47	0.82	5.68
2,175.00	12.64	213.84	2,151.00	-223.88	-137.83	262.90	0.65	-0.18	-2.83
2,270.00	11.32	212.05	2,243.93	-240.42	-148.57	282.61	1.44	-1.39	-1.88
2,365.00	12.50	209.64	2,336.89	-257.26	-158.60	302.21	1.35	1.24	-2.54
2,460.00	11.82	208.91	2,429.75	-274.71	-168.39	322.21	0.73	-0.72	-0.77
2,555.00	11.21	207.61	2,522.84	-291.41	-177.37	341.15	0.70	-0.64	-1.37
2,650.00	11.51	210.78	2,615.98	-307.74	-186.50	359.84	0.73	0.32	3.34
2,746.00	11.01	210.70	2,710.13	-323.85	-196.08	378.58	0.52	-0.52	-0.08
2,841.00	12.67	213.97	2,803.11	-340.29	-206.54	398.06	1.88	1.75	3.44
2,936.00	12.69	210.64	2,895.79	-357.91	-217.68	418.91	0.77	0.02	-3.51
3,031.00	12.00	206.77	2,988.60	-375.70	-227.44	439.19	1.13	-0.73	-4.07
3,126.00	10.73	206.00	3,081.73	-392.47	-235.77	457.84	1.35	-1.34	-0.81
3,221.00	10.87	210.95	3,175.05	-408.10	-244.25	475.60	0.99	0.15	5.21
3,317.00	12.29	215.60	3,269.10	-424.17	-254.86	494.84	1.77	1.48	4.84
3,412.00	11.13	209.15	3,362.12	-440.40	-265.21	514.09	1.84	-1.22	-6.79
3,507.00	13.03	212.00	3,455.02	-457.50	-275.35	533.96	2.10	2.00	3.00
3,602.00	11.38	210.16	3,547.87	-474.68	-285.74	554.04	1.78	-1.74	-1.94
3,697.00	13.75	210.04	3,640.59	-492.56	-296.10	574.70	2.49	2.49	-0.13
3,792.00	12.59	206.75	3,733.09	-511.58	-306.41	596.31	1.45	-1.22	-3.46
3,887.00	12.51	209.79	3,825.82	-529.76	-316.18	616.92	0.70	-0.08	3.20
3,982.00	12.74	211.43	3,918.52	-547.63	-326.76	637.68	0.45	0.24	1.73
4,077.00	11.53	209.50	4,011.40	-564.83	-336.90	657.65	1.34	-1.27	-2.03
4,175.00	13.06	211.84	4,107.15	-582.76	-347.56	678.51	1.64	1.56	2.39

# Scientific Drilling

## Survey Report

**Company:** Newfield Exploration Co.  
**Project:** Duchesne County, UT NAD83 UTC  
**Site:** Greater Boundary II  
**Well:** Greater Boundary II F-26-8-17  
**Wellbore:** OH  
**Design:** OH

**Local Co-ordinate Reference:** Well Greater Boundary II F-26-8-17  
**TVD Reference:** GL 5091' & RKB 12' @ 5103.00ft (NDSI 2)  
**MD Reference:** GL 5091' & RKB 12' @ 5103.00ft (NDSI 2)  
**North Reference:** True  
**Survey Calculation Method:** Minimum Curvature  
**Database:** EDM 2003.16 Multi 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)
4,268.00	12.30	205.88	4,197.88	-600.60	-357.43	698.88	1.63	-0.82	-6.41
4,363.00	11.83	206.83	4,290.78	-618.39	-366.24	718.66	0.54	-0.49	1.00
4,458.00	13.05	214.03	4,383.56	-635.97	-376.64	739.09	2.07	1.28	7.58
4,533.00	12.45	213.15	4,456.71	-649.76	-385.80	755.63	0.84	-0.80	-1.17
4,630.00	10.67	211.61	4,551.74	-666.16	-396.22	775.06	1.86	-1.84	-1.59
4,725.00	11.45	219.33	4,644.98	-680.95	-406.81	793.19	1.76	0.82	8.13
4,821.00	10.70	218.43	4,739.19	-695.30	-418.39	811.47	0.80	-0.78	-0.94
4,916.00	12.71	214.58	4,832.21	-710.81	-429.80	830.65	2.27	2.12	-4.05
5,011.00	11.79	209.79	4,925.05	-727.84	-440.56	850.79	1.44	-0.97	-5.04
5,106.00	11.62	216.18	5,018.08	-743.99	-451.03	870.03	1.38	-0.18	6.73
5,201.00	11.64	220.96	5,111.13	-758.95	-462.96	889.01	1.01	0.02	5.03
5,296.00	12.11	211.15	5,204.10	-774.72	-474.40	908.42	2.18	0.49	-10.33
5,391.00	11.04	204.17	5,297.17	-791.54	-483.28	927.41	1.85	-1.13	-7.35
5,486.00	10.86	201.28	5,390.45	-808.18	-490.25	945.25	0.61	-0.19	-3.04
5,487.10	10.85	201.34	5,391.53	-808.38	-490.32	945.46	1.29	-0.66	5.87
<b>Greater Boundary II F-26-8-17 Target</b>									
5,582.00	10.28	207.24	5,484.82	-824.23	-497.45	962.70	1.29	-0.60	6.21
5,677.00	9.42	209.12	5,578.42	-838.55	-505.11	978.93	0.97	-0.91	1.98
5,772.00	9.20	215.69	5,672.17	-851.51	-513.33	994.27	1.14	-0.23	6.92
5,867.00	9.96	215.08	5,765.84	-864.41	-522.48	1,010.04	0.81	0.80	-0.64
5,963.00	10.06	209.18	5,860.39	-878.52	-531.34	1,026.70	1.07	0.10	-6.15
6,058.00	8.53	209.18	5,954.13	-891.92	-538.82	1,042.04	1.61	-1.61	0.00
6,153.00	8.11	206.96	6,048.14	-904.04	-545.29	1,055.76	0.56	-0.44	-2.34
6,248.00	7.60	204.73	6,142.24	-915.72	-550.96	1,068.68	0.63	-0.54	-2.35
6,343.00	6.99	202.55	6,236.47	-926.77	-555.81	1,080.64	0.71	-0.64	-2.29
6,439.00	6.38	201.58	6,331.82	-937.12	-560.01	1,091.67	0.65	-0.64	-1.01
6,582.00	6.38	201.58	6,473.94	-951.90	-565.85	1,107.33	0.00	0.00	0.00

Projection to TD

### 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									
Greater Boundary II F	0.00	0.00	5,400.00	-769.00	-467.00	7,206,089.17	2,064,794.86	40° 5' 33.580 N	109° 58' 58.789 W
- actual wellpath misses target center by 46.55ft at 5486.92ft MD (5391.35 TVD, -808.34 N, -490.31 E)									
- Circle (radius 75.00)									

### Design Annotations

Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates		Comment
		+N/-S (ft)	+E/-W (ft)	
385.00	385.00	-0.35	0.21	First MWD Survey
6,582.00	6,473.94	-951.90	-565.85	Projection to TD

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