

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

5. Lease Serial No.  
**UTU-76241**

6. If Indian, Allottee or Tribe Name  
N/A

7. If Unit or CA Agreement, Name and No.  
Greater Boundary II Unit

8. Lease Name and Well No.  
Greater Boundary II Federal V-28-8-17

9. API Well No.  
**43013-33939**

10. Field and Pool, or Exploratory  
Monument Butte

11. Sec., T., R., M., or Blk. and Survey or Area  
**33**  
Sec. ~~28~~, T8S R17E

12. County or Parish  
Duchesne

13. State  
UT

1a. Type of Work:  DRILL  REENTER

1b. Type of Well:  Oil Well  Gas Well  Other  Single Zone  Multiple Zone

2. Name of Operator  
Newfield Production Company

3a. Address  
Route #3 Box 3630, Myton UT 84052

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

4. Location of Well (Report location clearly and in accordance with any State requirements. \*)  
At surface NWNE 506' FNL 1981' FEL Sec. 33, T8S R17E  
At proposed prod. zone 15' FSL 1230' FEL Sec. 28, T8S R17E *SWSE*

14. Distance in miles and direction from nearest town or post office\*  
Approximatley 12.5 miles southeast of Myton, Utah

15. Distance from proposed\* location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any) Approx. 1305' f/lease, 1305' f/unit

16. No. of Acres in lease  
1880.00

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. 1321'

19. Proposed Depth  
6715'

20. BLM/BIA Bond No. on file  
WYB000493

21. Elevations (Show whether DF, KDB, RT, GL, etc.)  
5113' 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:

- 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 *Mandie Crozier* Name (Printed/Typed) Mandie Crozier Date 3/17/08  
Title Regulatory Specialist

Approved by *Bradley Hill* Name (Printed/Typed) BRADLEY G. HILL Date 03-31-08  
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)

*Surf*  
584543X  
4436941Y  
40.080397  
-110.008434

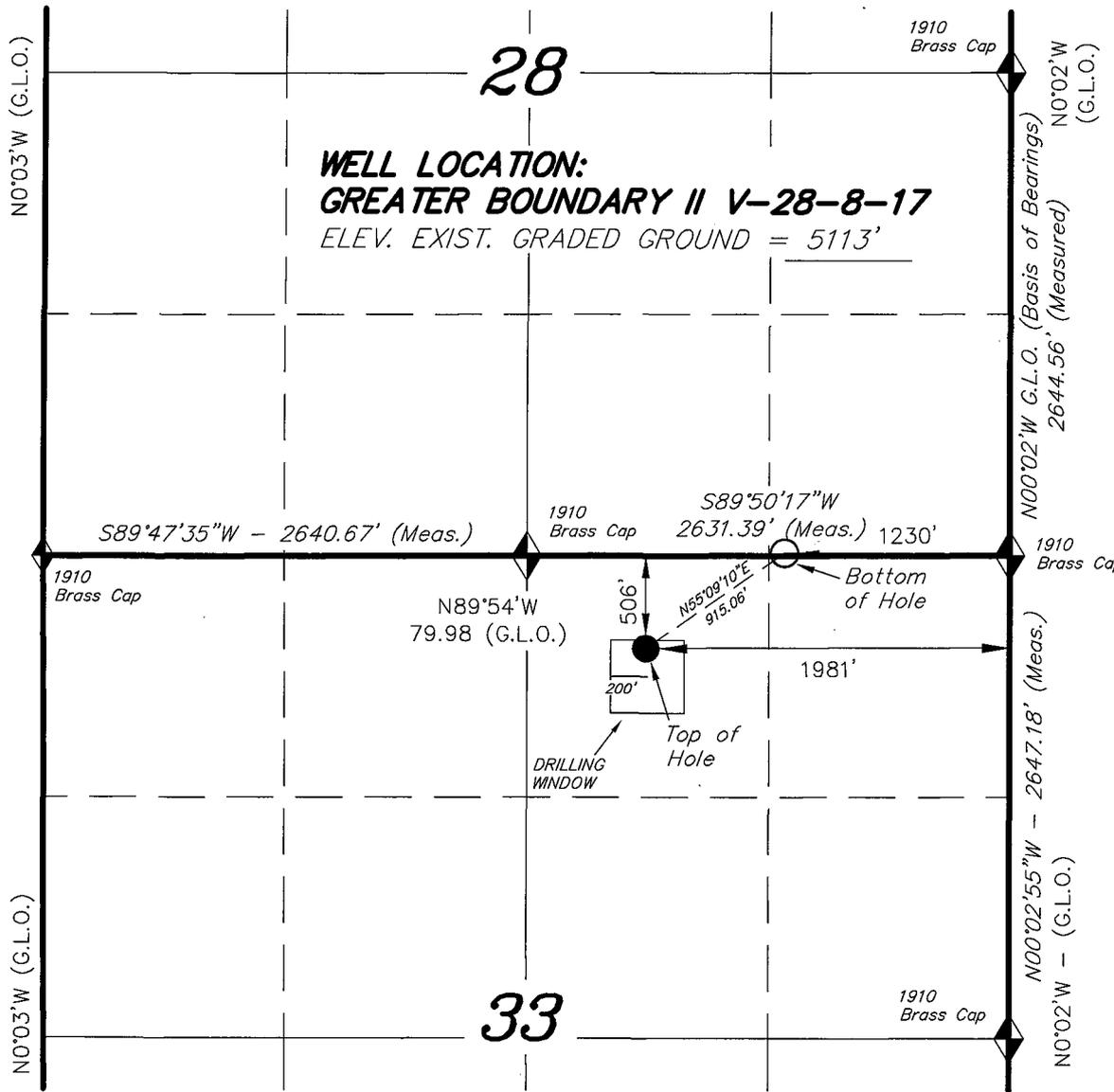
**Federal Approval of this  
Action is Necessary**

*BHL*  
584 771X  
4437103Y  
40.081829  
-110.005744

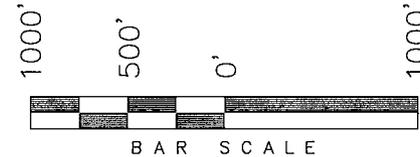
**RECEIVED**  
**MAR 19 2008**  
DIV. OF OIL, GAS & MINING

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

**NEWFIELD PRODUCTION COMPANY**

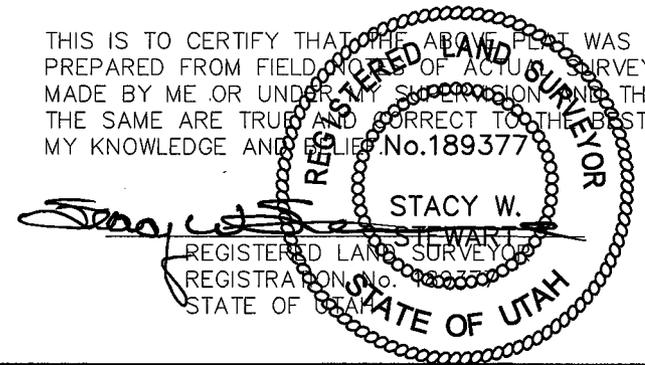


WELL LOCATION, GREATER BOUNDARY II V-28-8-17, LOCATED AS SHOWN IN THE NW 1/4 NE 1/4 OF SECTION 33, T8S, R17E, S.L.B.&M. DUCHESNE COUNTY, UTAH.



**Note:**  
1. The bottom of hole footages are 15' FSL & 1230' FEL.

THIS IS TO CERTIFY THAT THE ABOVE PLAN WAS PREPARED FROM FIELD NOTES OF ACTUAL SURVEYS MADE BY ME OR UNDER MY SUPERVISION AND THAT THE SAME ARE TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF. No. 189377



**TRI STATE LAND SURVEYING & CONSULTING**

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

DATE SURVEYED: 12-19-07	SURVEYED BY: T.H.
DATE DRAWN: 12-28-07	DRAWN BY: F.T.M.
REVISED:	SCALE: 1" = 1000'

**GREATER BOUNDARY II V-28-8-17**  
(Surface Location) NAD 83  
LATITUDE = 40° 04' 49.07"  
LONGITUDE = 110° 00' 33.04"

◆ = SECTION CORNERS LOCATED

BASIS OF ELEV;  
U.S.G.S. 7-1/2 min QUAD (MAYTON SE)

NEWFIELD PRODUCTION COMPANY  
GREATER BOUNDARY II FEDERAL #V-28-8-17  
AT SURFACE: NW/NE SECTION 33, 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' – 1580'
Green River	1580'
Wasatch	6715'

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

Green River Formation 1580' – 6715' - 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.

**NEWFIELD PRODUCTION COMPANY  
GREATER BOUNDARY II FEDERAL #V-28-8-17  
AT SURFACE: NW/NE SECTION 33, 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 #V-28-8-17 located in the NW 1/4 NE 1/4 Section 33, T8S, R17E, Duchesne County, Utah:

Proceed southwesterly out of Myton, Utah along Highway 40 - 1.4 miles ± to the junction of this highway and UT State Hwy 53; proceed southeasterly - 9.2 miles ± to it's junction with an existing dirt road to the east; proceed in a northeasterly direction - 1.7 miles ± to it's junction with an existing road to the southeast; proceed southeasterly - 0.2 miles ± to it's junction with the beginning of the access road to the existing Tar Sands Federal 2-33-8-17 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 Tar Sands Federal 2-33-8-17 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 Tar Sands Federal 2-33-8-17 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 V-28-8-17. 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 V-28-8-17 will be drilled off of the existing Tar Sands Federal 2-33-8-17 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 100' of disturbed area be granted in Lease UTU-76241 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. In the event that the proposed well is converted to a water injection well, a separate injection permit will be applied for through the proper agencies.

The Archaeological Resource Survey and Paleontological Resource Survey for the 100' of proposed water injection pipeline is attached. 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 prior to construction of the proposed water injection line.

**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>	3 lbs/acre
Siberian Wheatgrass	<i>Agropyron Fragile</i>	1 lbs/acre
Gardner Saltbush	<i>Atriplex Gardneri</i>	0.5 lbs/acre
Shadscale	<i>Atriplex Confertifolia</i>	0.5 lbs/acre
Fourwing Saltbush	<i>Atriplex Canescens</i>	0.5 lbs/acre
Scarlet Globemallow	<i>Sphaeralcea Conccinea</i>	0.10 lbs/acre

**Details of the On-Site Inspection**

The proposed Greater Boundary II Federal V-28-8-17 was on-sited on 2/28/08. The following were present; Dave Allred (Newfield Production), Kevan Stevens (Newfield Production ), Michael Cutler (Bureau of Land Management), and Dave Gordon (Bureau of Land Management). Weather conditions were clear and ground covered by snow.

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

Representative

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

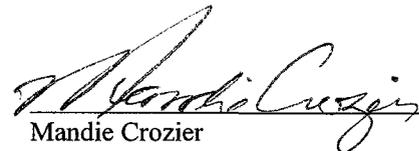
Certification

Please be advised that NEWFIELD PRODUCTION COMPANY is considered to be the operator of well #V-28-8-17 Section 33, Township 8S, Range 17E: Lease UTU-76241 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.

3/17/08

Date



Mandie Crozier  
Regulatory Specialist  
Newfield Production Company

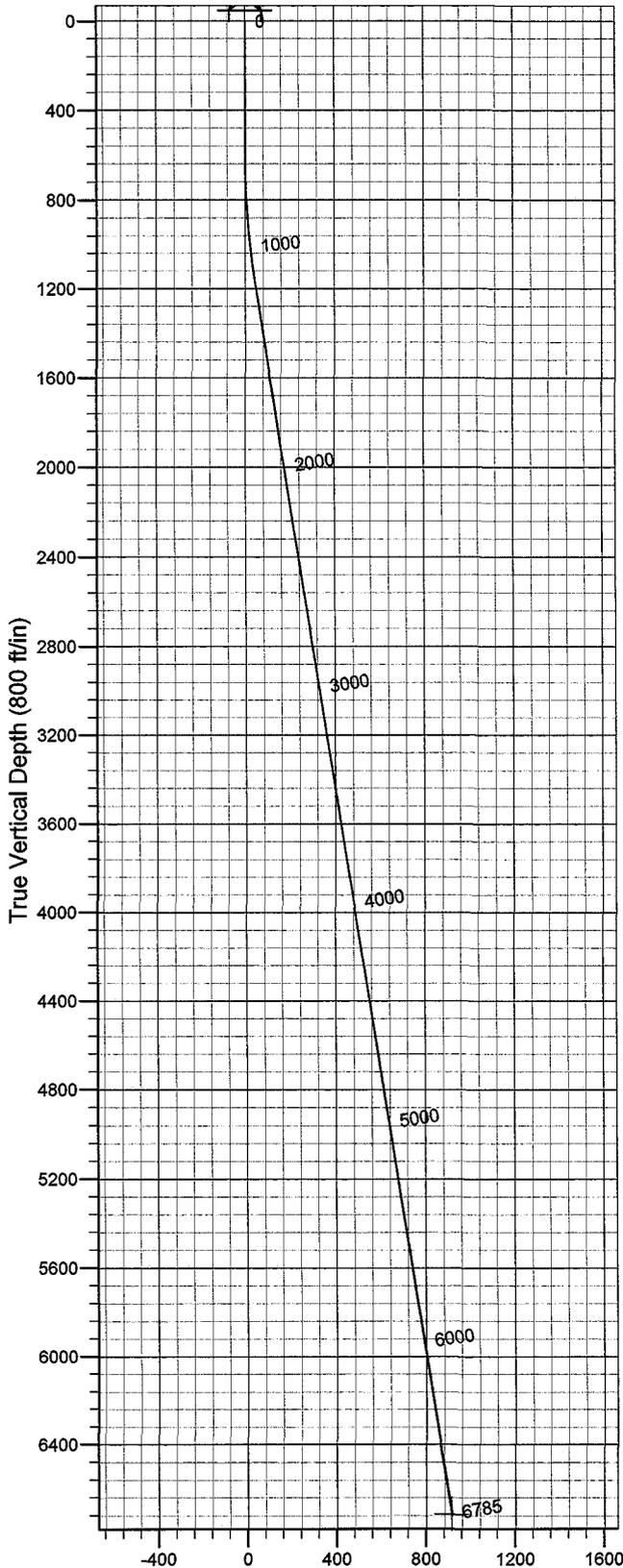


Azimuths to True North  
 Magnetic North: 11.71°

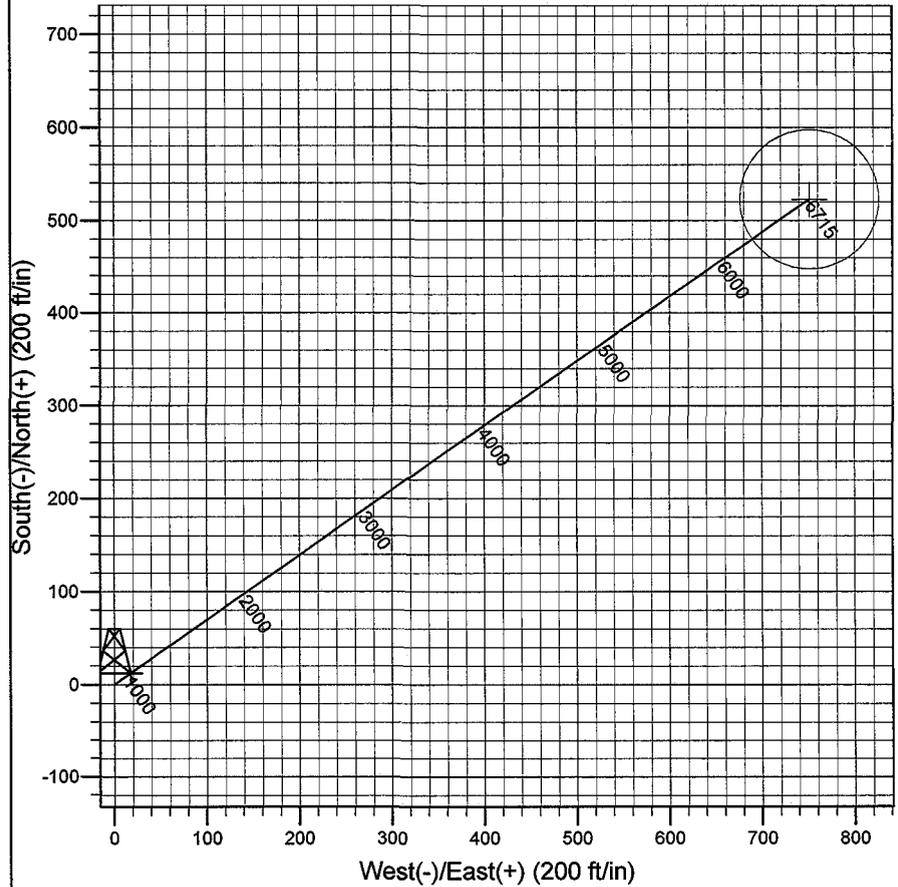
Magnetic Field  
 Strength: 52650.4snT  
 Dip Angle: 65.92°  
 Date: 2008-02-26  
 Model: IGRF2005-10

**WELL DETAILS: Greater Boundary II V-28-8-17**

GL 5113' & RKB 12' @ 5125.00ft (NDSI 2) 5113.00  
 +N/-S 0.00 +E/-W 0.00 Northing 7201463.01 Easting 2057546.67 Latitude 40° 4' 49.070 N Longitude 110° 0' 33.040 W



Vertical Section at 55.15° (800 ft/in)



Plan: Plan #1 (Greater Boundary II V-28-8-17/OH)

Created By: Julie Cruse Date: 2008-02-26

PROJECT DETAILS: Duchesne County, UT NAD83 UTC

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

**SECTION DETAILS**

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	DLeg	TFace	VSec	Target
1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2	600.00	0.00	0.00	600.00	0.00	0.00	0.00	0.00	0.00	
3	1196.05	8.94	55.15	1193.64	26.52	38.09	1.50	55.15	46.41	
4	6785.33	8.94	55.15	6715.00	522.89	750.94	0.00	0.00	915.06	GBII V-28-8-17 PBHL

# **Newfield Exploration Co.**

**Duchesne County, UT NAD83 UTC**

**Greater Boundary II**

**Greater Boundary II V-28-8-17**

**OH**

**Plan: Plan #1**

## **Standard Planning Report**

**03 March, 2008**

# Scientific Drilling

## Planning Report

**Database:** EDM 2003.16 Multi-User Db  
**Company:** Newfield Exploration Co.  
**Project:** Duchesne County, UT NAD83 UTC  
**Site:** Greater Boundary II  
**Well:** Greater Boundary II V-28-8-17  
**Wellbore:** OH  
**Design:** Plan #1

**Local Co-ordinate Reference:** Well Greater Boundary II V-28-8-17  
**TVD Reference:** GL 5113' & RKB 12' @ 5125.00ft (NDSI 2)  
**MD Reference:** GL 5113' & RKB 12' @ 5125.00ft (NDSI 2)  
**North Reference:** True  
**Survey Calculation Method:** Minimum Curvature

<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>	7,206,865.99 ft	<b>Latitude:</b>	40° 5' 41.180 N	
<b>From:</b> Lat/Long	<b>Easting:</b>	2,065,248.74 ft	<b>Longitude:</b>	109° 58' 52.780 W	
<b>Position Uncertainty:</b>	0.00 ft	<b>Slot Radius:</b>	in	<b>Grid Convergence:</b>	0.97 °

<b>Well</b>	Greater Boundary II V-28-8-17, 506' FNL 1981' FEL SEC 33 T8S R17E					
<b>Well Position</b>	<b>+N/-S</b>	0.00 ft	<b>Northing:</b>	7,201,463.01 ft	<b>Latitude:</b>	40° 4' 49.070 N
	<b>+E/-W</b>	0.00 ft	<b>Easting:</b>	2,057,546.67 ft	<b>Longitude:</b>	110° 0' 33.040 W
<b>Position Uncertainty</b>	0.00 ft	<b>Wellhead Elevation:</b>	ft	<b>Ground Level:</b>	5,113.00 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	2008-02-26	(°)	(°)	(nT)
			11.71	65.92	52,650

<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)</b>	<b>+N/-S</b>	<b>+E/-W</b>	<b>Direction</b>
	(ft)	(ft)	(ft)	(°)
	0.00	0.00	0.00	55.15

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	
1,196.05	8.94	55.15	1,193.64	26.52	38.09	1.50	1.50	0.00	55.15	
6,785.33	8.94	55.15	6,715.00	522.89	750.94	0.00	0.00	0.00	0.00	GBII V-28-8-17 PBHL

# Scientific Drilling

## Planning Report

**Database:** EDM 2003.16 Multi-User Db  
**Company:** Newfield Exploration Co.  
**Project:** Duchesne County, UT NAD83 UTC  
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**Well:** Greater Boundary II V-28-8-17  
**Wellbore:** OH  
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**Local Co-ordinate Reference:** Well Greater Boundary II V-28-8-17  
**TVD Reference:** GL 5113' & RKB 12' @ 5125.00ft (NDSI 2)  
**MD Reference:** GL 5113' & RKB 12' @ 5125.00ft (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	55.15	699.99	0.75	1.07	1.31	1.50	1.50	0.00
800.00	3.00	55.15	799.91	2.99	4.30	5.23	1.50	1.50	0.00
900.00	4.50	55.15	899.69	6.73	9.66	11.77	1.50	1.50	0.00
1,000.00	6.00	55.15	999.27	11.96	17.17	20.92	1.50	1.50	0.00
1,100.00	7.50	55.15	1,098.57	18.67	26.82	32.68	1.50	1.50	0.00
1,196.05	8.94	55.15	1,193.64	26.52	38.09	46.41	1.50	1.50	0.00
1,200.00	8.94	55.15	1,197.54	26.87	38.59	47.03	0.00	0.00	0.00
1,300.00	8.94	55.15	1,296.32	35.75	51.35	62.57	0.00	0.00	0.00
1,400.00	8.94	55.15	1,395.11	44.63	64.10	78.11	0.00	0.00	0.00
1,500.00	8.94	55.15	1,493.89	53.51	76.85	93.65	0.00	0.00	0.00
1,600.00	8.94	55.15	1,592.68	62.39	89.61	109.19	0.00	0.00	0.00
1,700.00	8.94	55.15	1,691.46	71.28	102.36	124.73	0.00	0.00	0.00
1,800.00	8.94	55.15	1,790.25	80.16	115.12	140.27	0.00	0.00	0.00
1,900.00	8.94	55.15	1,889.03	89.04	127.87	155.81	0.00	0.00	0.00
2,000.00	8.94	55.15	1,987.82	97.92	140.62	171.36	0.00	0.00	0.00
2,100.00	8.94	55.15	2,086.60	106.80	153.38	186.90	0.00	0.00	0.00
2,200.00	8.94	55.15	2,185.39	115.68	166.13	202.44	0.00	0.00	0.00
2,300.00	8.94	55.15	2,284.17	124.56	178.89	217.98	0.00	0.00	0.00
2,400.00	8.94	55.15	2,382.96	133.44	191.64	233.52	0.00	0.00	0.00
2,500.00	8.94	55.15	2,481.74	142.32	204.39	249.06	0.00	0.00	0.00
2,600.00	8.94	55.15	2,580.53	151.20	217.15	264.60	0.00	0.00	0.00
2,700.00	8.94	55.15	2,679.31	160.08	229.90	280.15	0.00	0.00	0.00
2,800.00	8.94	55.15	2,778.10	168.96	242.66	295.69	0.00	0.00	0.00
2,900.00	8.94	55.15	2,876.88	177.84	255.41	311.23	0.00	0.00	0.00
3,000.00	8.94	55.15	2,975.67	186.73	268.16	326.77	0.00	0.00	0.00
3,100.00	8.94	55.15	3,074.45	195.61	280.92	342.31	0.00	0.00	0.00
3,200.00	8.94	55.15	3,173.23	204.49	293.67	357.85	0.00	0.00	0.00
3,300.00	8.94	55.15	3,272.02	213.37	306.43	373.39	0.00	0.00	0.00
3,400.00	8.94	55.15	3,370.80	222.25	319.18	388.93	0.00	0.00	0.00
3,500.00	8.94	55.15	3,469.59	231.13	331.93	404.48	0.00	0.00	0.00
3,600.00	8.94	55.15	3,568.37	240.01	344.69	420.02	0.00	0.00	0.00
3,700.00	8.94	55.15	3,667.16	248.89	357.44	435.56	0.00	0.00	0.00
3,800.00	8.94	55.15	3,765.94	257.77	370.20	451.10	0.00	0.00	0.00
3,900.00	8.94	55.15	3,864.73	266.65	382.95	466.64	0.00	0.00	0.00
4,000.00	8.94	55.15	3,963.51	275.53	395.70	482.18	0.00	0.00	0.00
4,100.00	8.94	55.15	4,062.30	284.41	408.46	497.72	0.00	0.00	0.00
4,200.00	8.94	55.15	4,161.08	293.30	421.21	513.27	0.00	0.00	0.00
4,300.00	8.94	55.15	4,259.87	302.18	433.97	528.81	0.00	0.00	0.00
4,400.00	8.94	55.15	4,358.65	311.06	446.72	544.35	0.00	0.00	0.00
4,500.00	8.94	55.15	4,457.44	319.94	459.47	559.89	0.00	0.00	0.00
4,600.00	8.94	55.15	4,556.22	328.82	472.23	575.43	0.00	0.00	0.00
4,700.00	8.94	55.15	4,655.01	337.70	484.98	590.97	0.00	0.00	0.00
4,800.00	8.94	55.15	4,753.79	346.58	497.74	606.51	0.00	0.00	0.00
4,900.00	8.94	55.15	4,852.58	355.46	510.49	622.05	0.00	0.00	0.00
5,000.00	8.94	55.15	4,951.36	364.34	523.24	637.60	0.00	0.00	0.00
5,100.00	8.94	55.15	5,050.15	373.22	536.00	653.14	0.00	0.00	0.00
5,200.00	8.94	55.15	5,148.93	382.10	548.75	668.68	0.00	0.00	0.00

# Scientific Drilling Planning Report

**Database:** EDM 2003.16 Multi-User Db  
**Company:** Newfield Exploration Co.  
**Project:** Duchesne County, UT NAD83 UTC  
**Site:** Greater Boundary II  
**Well:** Greater Boundary II V-28-8-17  
**Wellbore:** OH  
**Design:** Plan #1

**Local Co-ordinate Reference:** Well Greater Boundary II V-28-8-17  
**TVD Reference:** GL 5113' & RKB 12' @ 5125.00ft (NDSI 2)  
**MD Reference:** GL 5113' & RKB 12' @ 5125.00ft (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	8.94	55.15	5,247.72	390.98	561.51	684.22	0.00	0.00	0.00
5,400.00	8.94	55.15	5,346.50	399.86	574.26	699.76	0.00	0.00	0.00
5,500.00	8.94	55.15	5,445.29	408.75	587.01	715.30	0.00	0.00	0.00
5,600.00	8.94	55.15	5,544.07	417.63	599.77	730.84	0.00	0.00	0.00
5,700.00	8.94	55.15	5,642.86	426.51	612.52	746.39	0.00	0.00	0.00
5,800.00	8.94	55.15	5,741.64	435.39	625.28	761.93	0.00	0.00	0.00
5,900.00	8.94	55.15	5,840.43	444.27	638.03	777.47	0.00	0.00	0.00
6,000.00	8.94	55.15	5,939.21	453.15	650.78	793.01	0.00	0.00	0.00
6,100.00	8.94	55.15	6,038.00	462.03	663.54	808.55	0.00	0.00	0.00
6,200.00	8.94	55.15	6,136.78	470.91	676.29	824.09	0.00	0.00	0.00
6,300.00	8.94	55.15	6,235.57	479.79	689.05	839.63	0.00	0.00	0.00
6,400.00	8.94	55.15	6,334.35	488.67	701.80	855.17	0.00	0.00	0.00
6,500.00	8.94	55.15	6,433.14	497.55	714.55	870.72	0.00	0.00	0.00
6,600.00	8.94	55.15	6,531.92	506.43	727.31	886.26	0.00	0.00	0.00
6,700.00	8.94	55.15	6,630.71	515.31	740.06	901.80	0.00	0.00	0.00
6,785.33	8.94	55.15	6,715.00	522.89	750.94	915.06	0.00	0.00	0.00

## Targets

Target Name - hit/miss target - Shape	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (ft)	Easting (ft)	Latitude	Longitude
GBII V-28-8-17 PBHL - plan hits target center - Circle (radius 75.00)	0.00	0.00	6,715.00	522.89	750.94	7,201,998.34	2,058,288.80	40° 4' 54.238 N	110° 0' 23.378 W

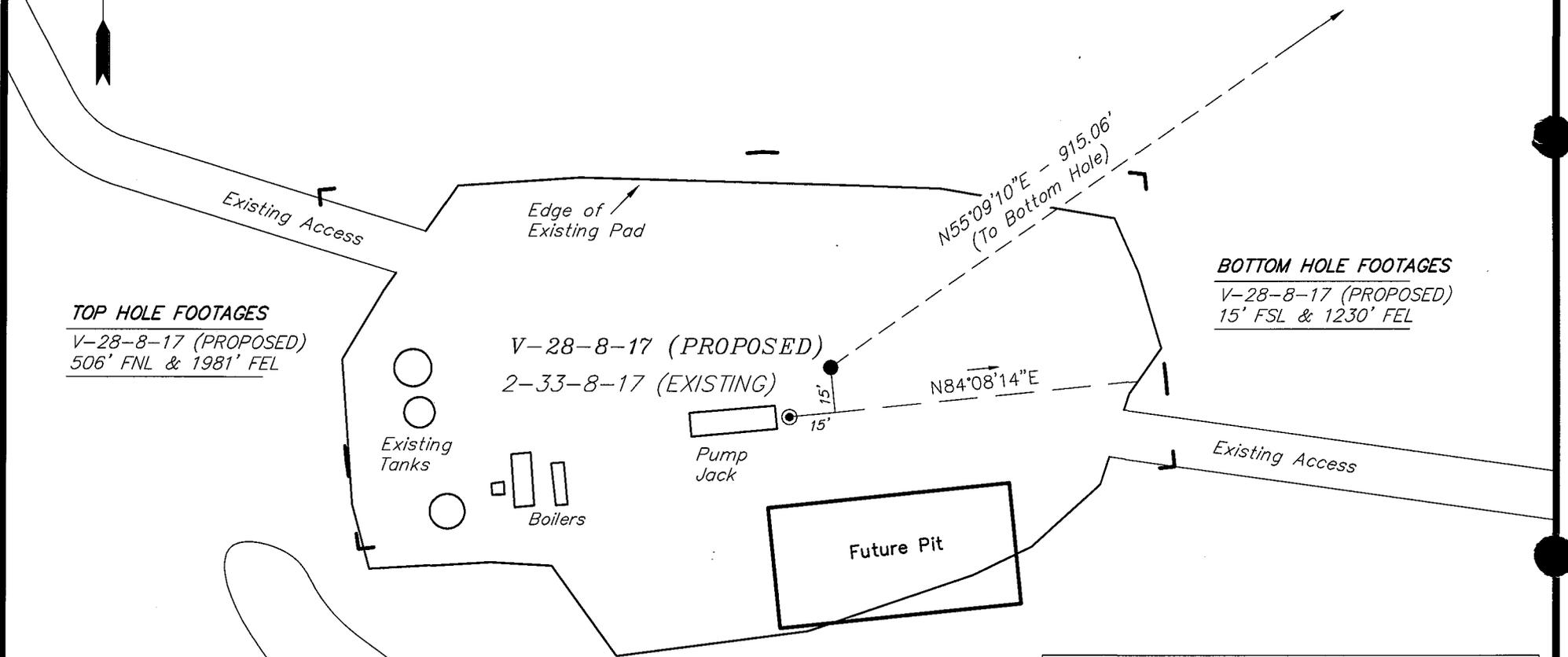
# NEWFIELD PRODUCTION COMPANY

## WELL PAD INTERFERENCE PLAT

GREATER BOUNDARY II V-28-8-17 (Proposed Well)

GREATER BOUNDARY II 2-33-8-17 (Existing Well)

Pad Location: NWNE Section 33, T8S, R17E, S.L.B.&M.



**TOP HOLE FOOTAGES**

V-28-8-17 (PROPOSED)  
506' FNL & 1981' FEL

**BOTTOM HOLE FOOTAGES**

V-28-8-17 (PROPOSED)  
15' FSL & 1230' FEL

**Note:**  
Bearings are based on  
GLO Information.

**RELATIVE COORDINATES**  
From top hole to bottom hole

WELL	NORTH	EAST
V-28-8-17	523'	751'

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

WELL	LATITUDE	LONGITUDE
V-28-8-17	40° 04' 49.07"	110° 00' 33.04"
2-33-8-17	40° 04' 48.91"	110° 00' 33.21"

SURVEYED BY: T.H.	DATE SURVEYED: 12-19-07
DRAWN BY: F.T.M.	DATE DRAWN: 12-28-07
SCALE: 1" = 50'	REVISED: L.C.S. 01-05-08

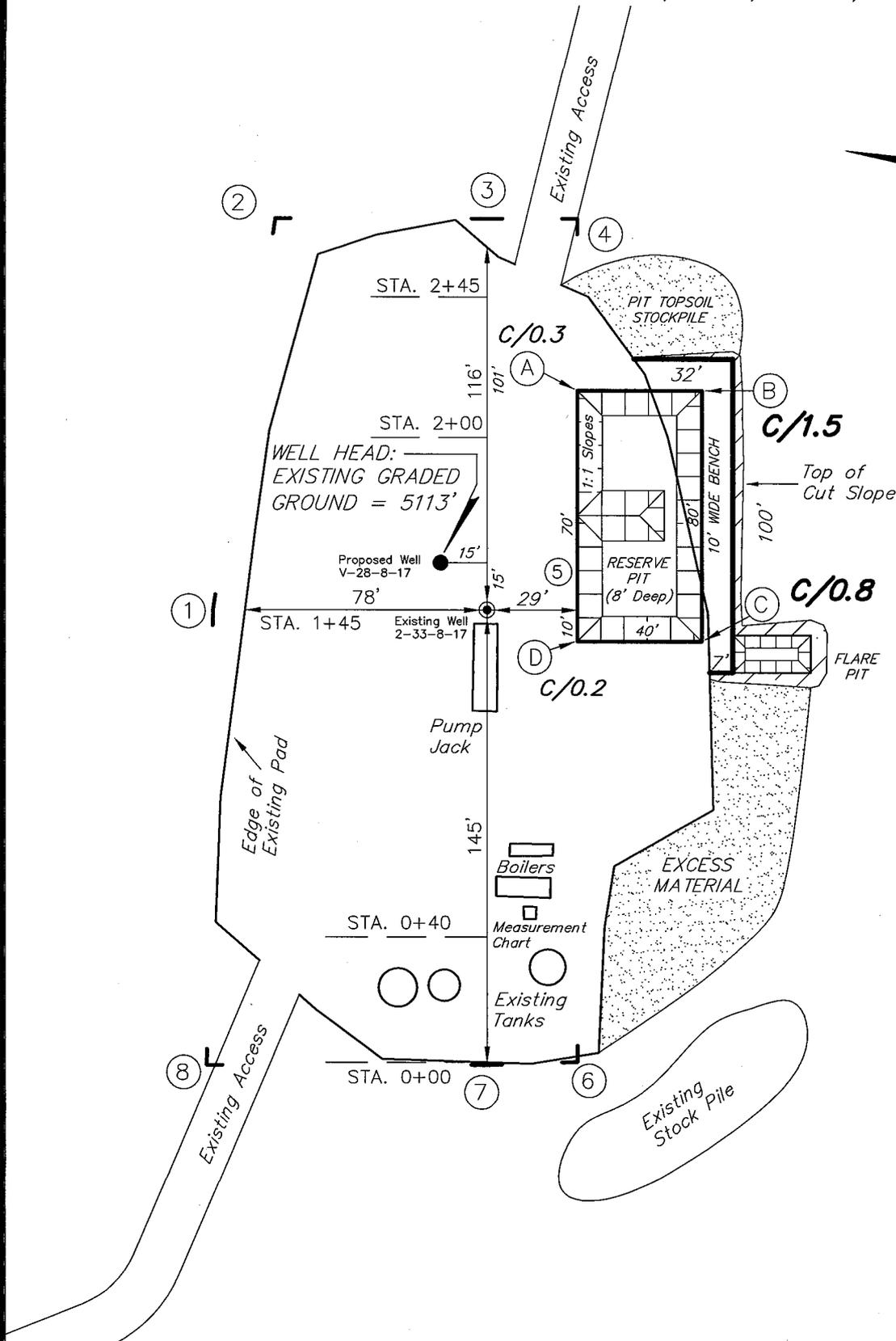
**Tri State** (435) 781-2501  
Land Surveying, Inc.  
180 NORTH VERNAL AVE. VERNAL, UTAH 84078

# NEWFIELD PRODUCTION COMPANY

**GREATER BOUNDARY II V-28-8-17 (Proposed Well)**

**GREATER BOUNDARY II 2-33-8-17 (Existing Well)**

Pad Location: *NWNE* Section 33, T8S, R17E, S.L.B.&M.



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

SURVEYED BY: T.H.	DATE SURVEYED: 12-19-07	
DRAWN BY: F.T.M.	DATE DRAWN: 12-28-07	
SCALE: 1" = 50'	REVISED:	

**Tri State**  
Land Surveying, Inc.

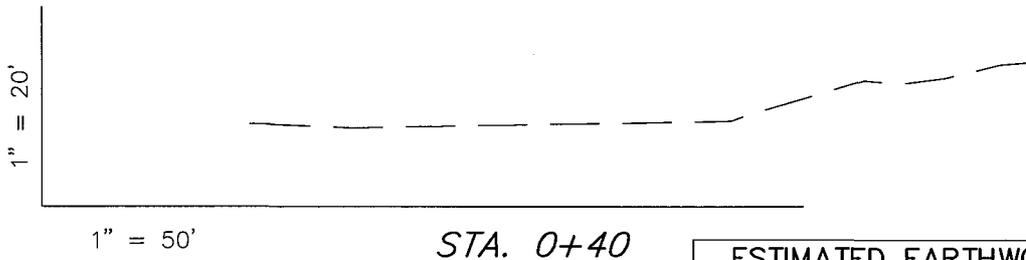
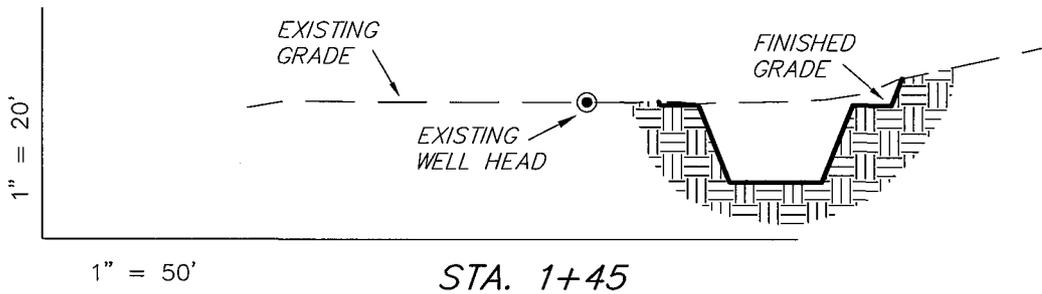
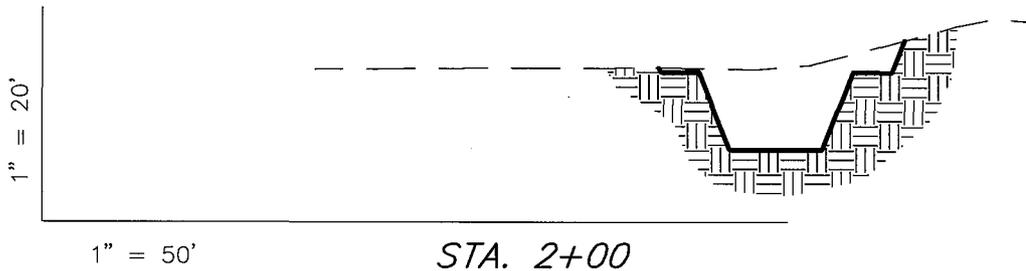
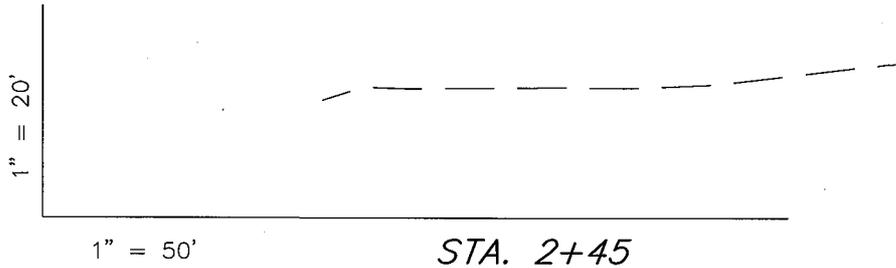
180 NORTH VERNAL AVE. VERNAL, UTAH 84078

(435) 781-2501

# NEWFIELD PRODUCTION COMPANY

## CROSS SECTIONS

GREATER BOUNDARY II V-28-8-17 (Proposed Well)  
 GREATER BOUNDARY II 2-33-8-17 (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	260	0	Topsoil is not included in Pad Cut	260
PIT	640	0		640
TOTALS	900	0	130	900

SURVEYED BY: T.H.	DATE SURVEYED: 12-19-07
DRAWN BY: F.T.M.	DATE DRAWN: 12-28-07
SCALE: 1" = 50'	REVISED:

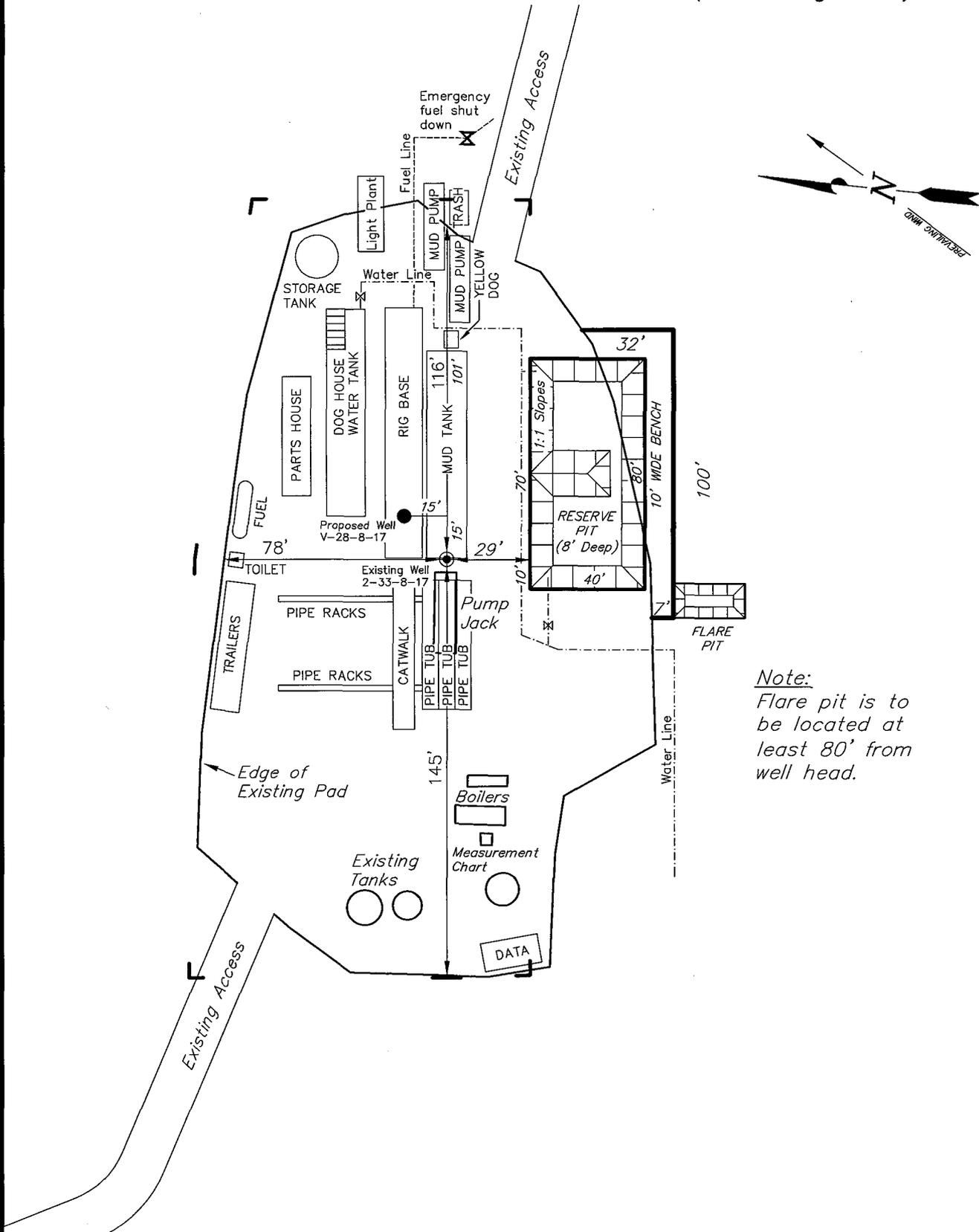
**Tri State** (435) 781-2501  
 Land Surveying, Inc.  
 180 NORTH VERNAL AVE. VERNAL, UTAH 84078

# NEWFIELD PRODUCTION COMPANY

## TYPICAL RIG LAYOUT

GREATER BOUNDARY II V-28-8-17 (Proposed Well)

GREATER BOUNDARY II 2-33-8-17 (Existing Well)



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

SURVEYED BY: T.H.	DATE SURVEYED: 12-19-07
DRAWN BY: F.T.M.	DATE DRAWN: 12-28-07
SCALE: 1" = 50'	REVISED:

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

# Newfield Production Comp

## Proposed Site Facility Diagram

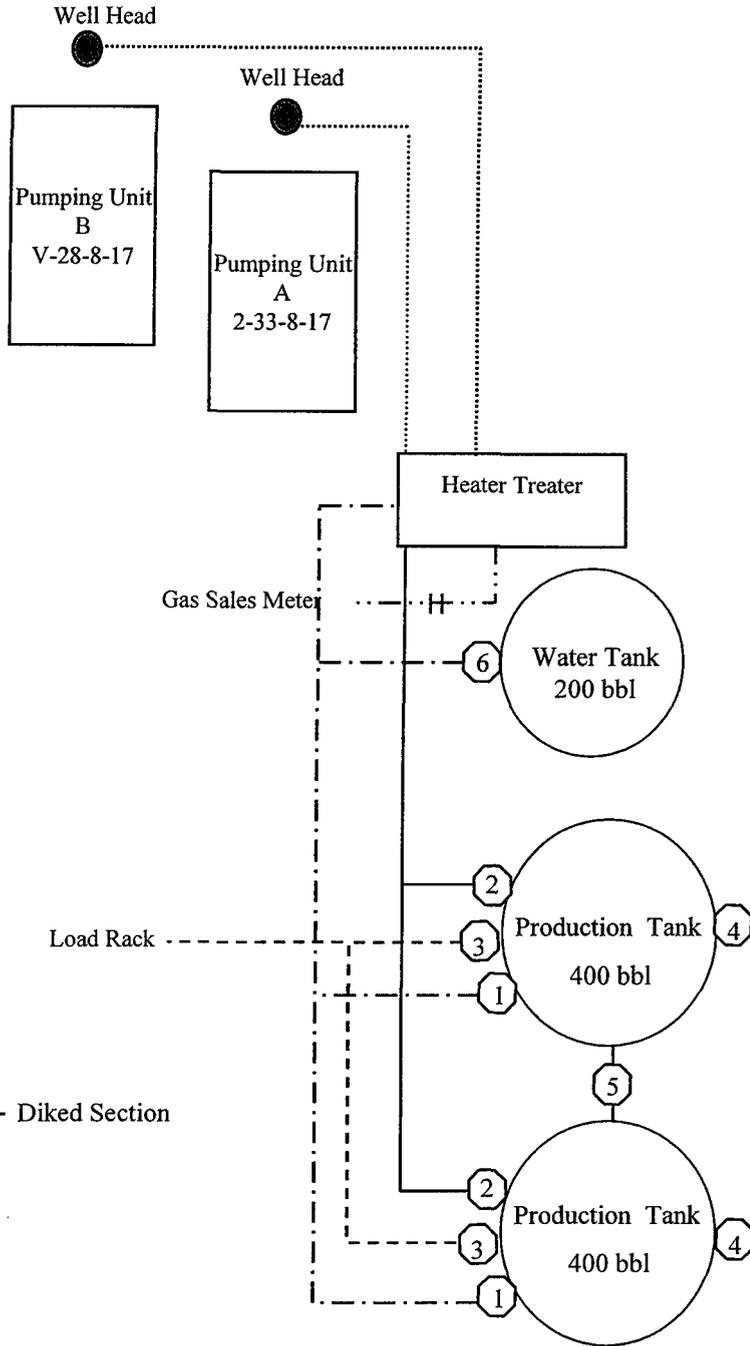
Greater Boundary II Federal V-28-8-17

From the 2-33-8-17 Location

NW/NE Sec. 33 T8S, R17E

Duchesne County, Utah

UTU-76241



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:

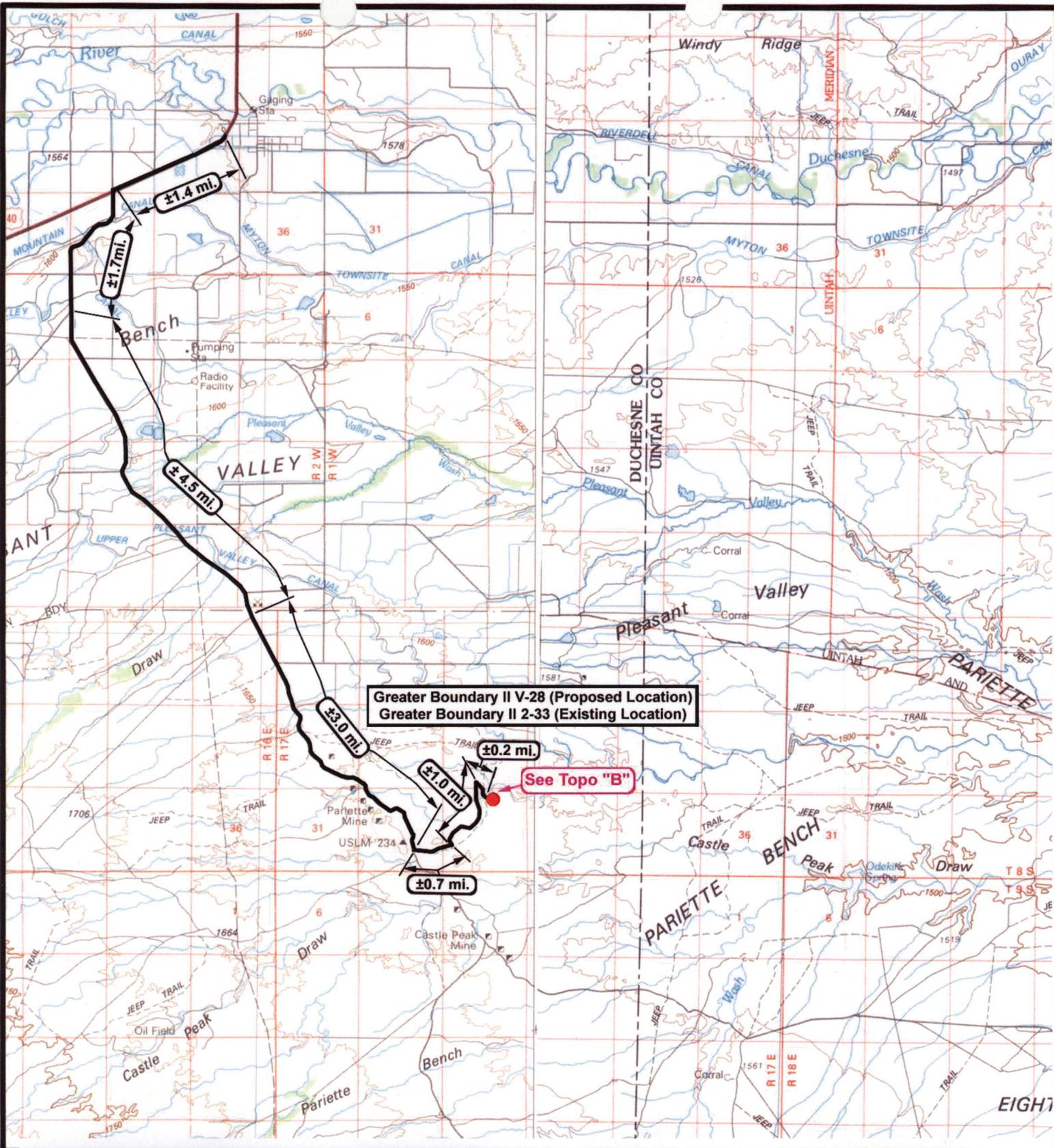
- 1) Valves 1, 2, 4, 5, and 6 sealed closed
- 2) Valve 3 open

### Draining Phase:

- 1) Valves 1 and 6 open

### Legend

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



  
**NEWFIELD**  
 Exploration Company

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**Greater Boundary II V-28-8-17 (Proposed Location)**  
**Greater Boundary II 2-33-8-17 (Existing Location)**  
**Pad Location NWNE SEC. 33, 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: ntc  
 DATE: 01-16-2008

**Legend**

---

 Existing Road

---

**TOPOGRAPHIC MAP**  
"A"



**Greater Boundary II V-28 (Proposed Location)  
Greater Boundary II 2-33 (Existing Location)**

**Myton ±10.6 mi.**

**±0.7 mi.**

**±1.0 mi.**

**±0.2 mi.**



**NEWFIELD**  
Exploration Company

**Greater Boundary II V-28-8-17 (Proposed Location)  
Greater Boundary II 2-33-8-17 (Existing Location)  
Pad Location NENW SEC. 33, T8S, R17E, S.L.B.&M.**




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

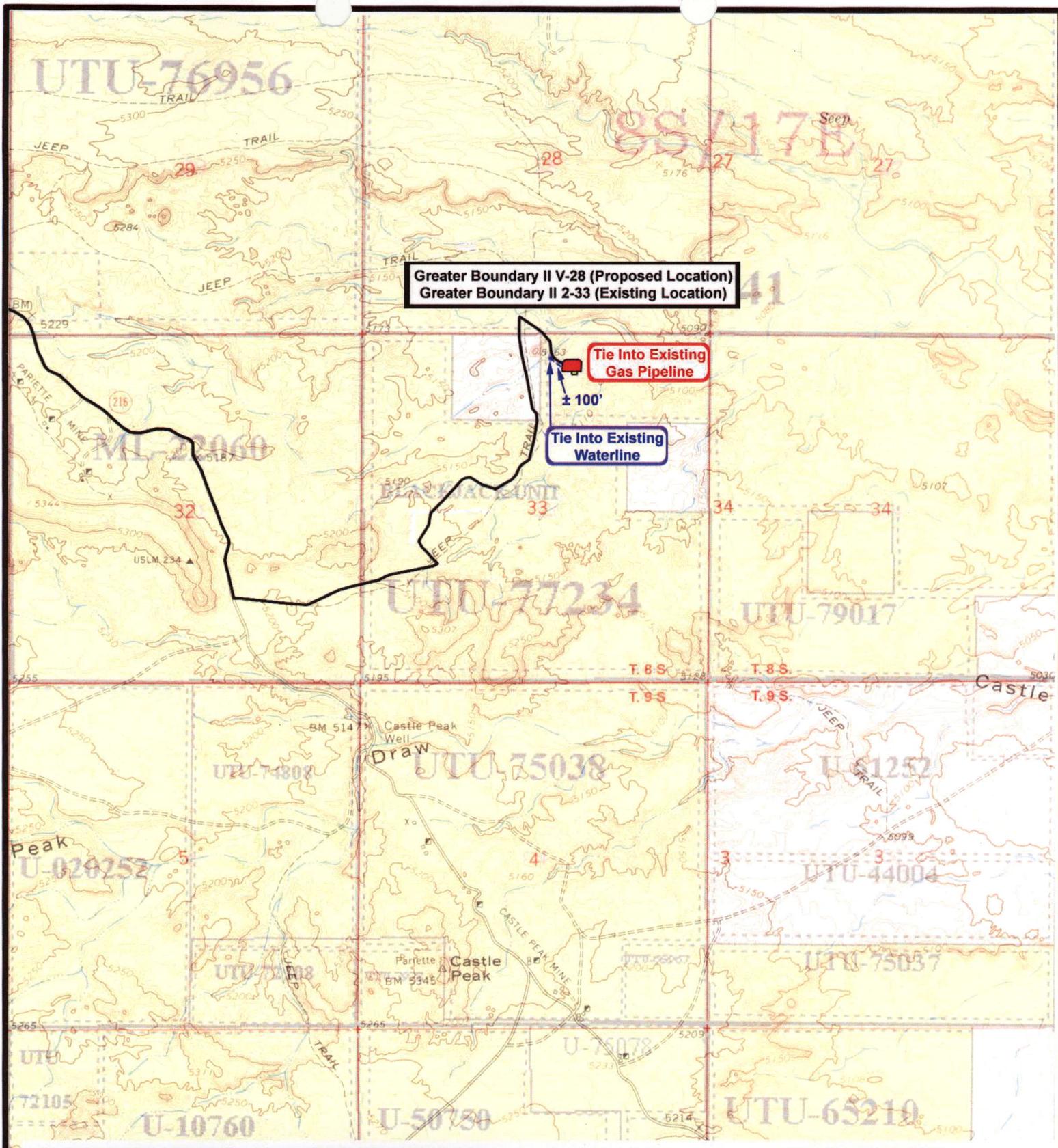
**SCALE: 1" = 2,000'**  
**DRAWN BY: nc**  
**DATE: 01-16-2008**

**Legend**

 Existing Road

**TOPOGRAPHIC MAP**

**"B"**



**Greater Boundary II V-28 (Proposed Location)  
Greater Boundary II 2-33 (Existing Location)**

**Tie Into Existing  
Gas Pipeline**

**Tie Into Existing  
Waterline**

± 100'

**NEWFIELD**  
Exploration Company

**Greater Boundary II V-28-8-17 (Proposed Location)  
Greater Boundary II 2-33-8-17 (Existing Location)  
Pad Location NENW SEC. 33, T8S, R17E, S.L.B.&M.**



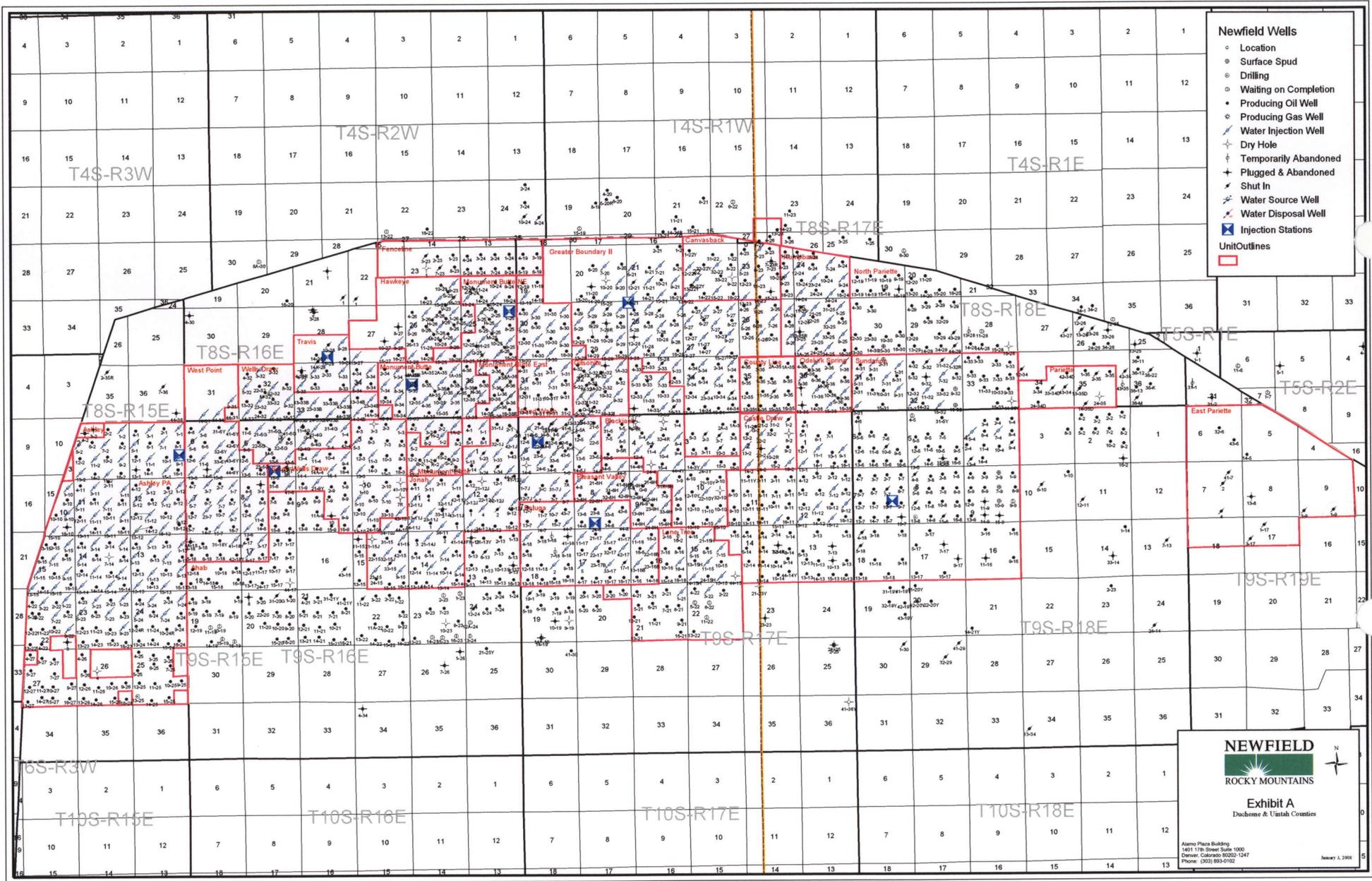
**Tri-State**  
Land Surveying Inc.  
(435) 781-2501  
180 North Vernal Ave. Vernal, Utah 84078

SCALE: 1" = 2,000'  
DRAWN BY: nc  
DATE: 01-16-2008

**Legend**

- Existing Road
- Proposed Waterline

TOPOGRAPHIC MAP  
**"C"**



- Newfield Wells**
- Location
  - ◻ Surface Spud
  - △ Drilling
  - ◇ Waiting on Completion
  - Producing Oil Well
  - Producing Gas Well
  - ⊘ Water Injection Well
  - ⊕ Dry Hole
  - ⊕ Temporarily Abandoned
  - ⊕ Plugged & Abandoned
  - ⊕ Shut In
  - ⊕ Water Source Well
  - ⊕ Water Disposal Well
  - ⊕ Injection Stations
- Unit Outlines**
- ◻

**NEWFIELD**  
 ROCKY MOUNTAINS

Exhibit A  
 Duchesne & Uintah Counties

Alamo Plaza Building  
 1401 17th Street Suite 1000  
 Denver, Colorado 80202-1247  
 Phone: (303) 953-6192

January 4, 2008



# 2-M SYSTEM

Blowout Prevention Equipment Systems

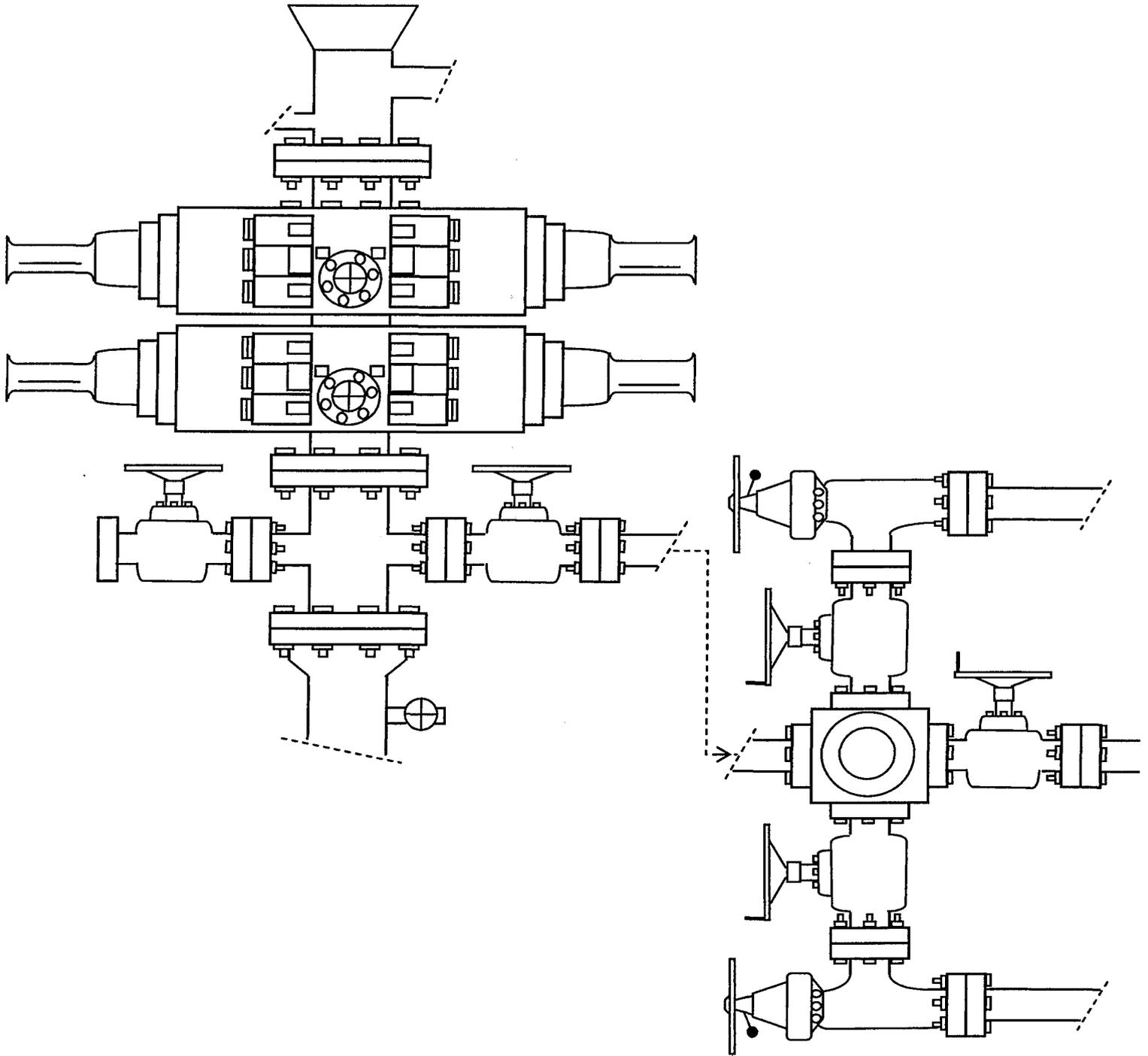


EXHIBIT C

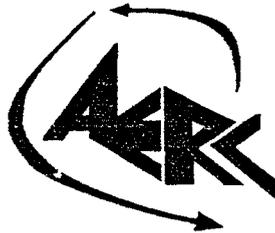
**CULTURAL RESOURCE EVALUATION  
OF TEN PROPOSED WELL LOCATIONS WITH  
ASSOCIATED ACCESS ROAD COMPLEXES  
IN THE CASTLE PEAK DRAW LOCALITY  
OF DUCHESNE COUNTY, UTAH**

Report Prepared for **Inland Production Company**  
Gilsonite East Units 14-28, 1-33, 2-33, 9-33, 10-33,  
11-33, 13-33, 14-33, 15-33 & 16-33

Dept. of Interior Permit No.: UT-96-54937  
AERC Project 1556 (IPC-96-2)

Utah State Project No.: UT-96-AF-700b

Principal Investigator & Author of the Report  
F. Richard Hauck, Ph.D.



**ARCHEOLOGICAL-ENVIRONMENTAL RESEARCH  
CORPORATION (AERC)**

181 North 200 West, Suite 5  
Bountiful, Utah 84011-0853

January 3, 1997

**WORKSHEET  
APPLICATION FOR PERMIT TO DRILL**

APD RECEIVED: 03/19/2008

API NO. ASSIGNED: 43-013-33939

WELL NAME: GB II FED V-28-8-17

OPERATOR: NEWFIELD PRODUCTION ( N2695 )

CONTACT: MANDIE CROZIER

PHONE NUMBER: 435-646-3721

PROPOSED LOCATION:

NWNE 33 080S 170E  
 SURFACE: 0506 FNL 1981 FEL  
 BOTTOM: 0015 FSL 1230 FEL  
 COUNTY: DUCHESNE  
 LATITUDE: 40.08040 LONGITUDE: -110.0084  
 UTM SURF EASTINGS: 584543 NORTHINGS: 4436941  
 FIELD NAME: MONUMENT BUTTE ( 105 )

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

LEASE TYPE: 1 - Federal  
 LEASE NUMBER: UTU-76241  
 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:

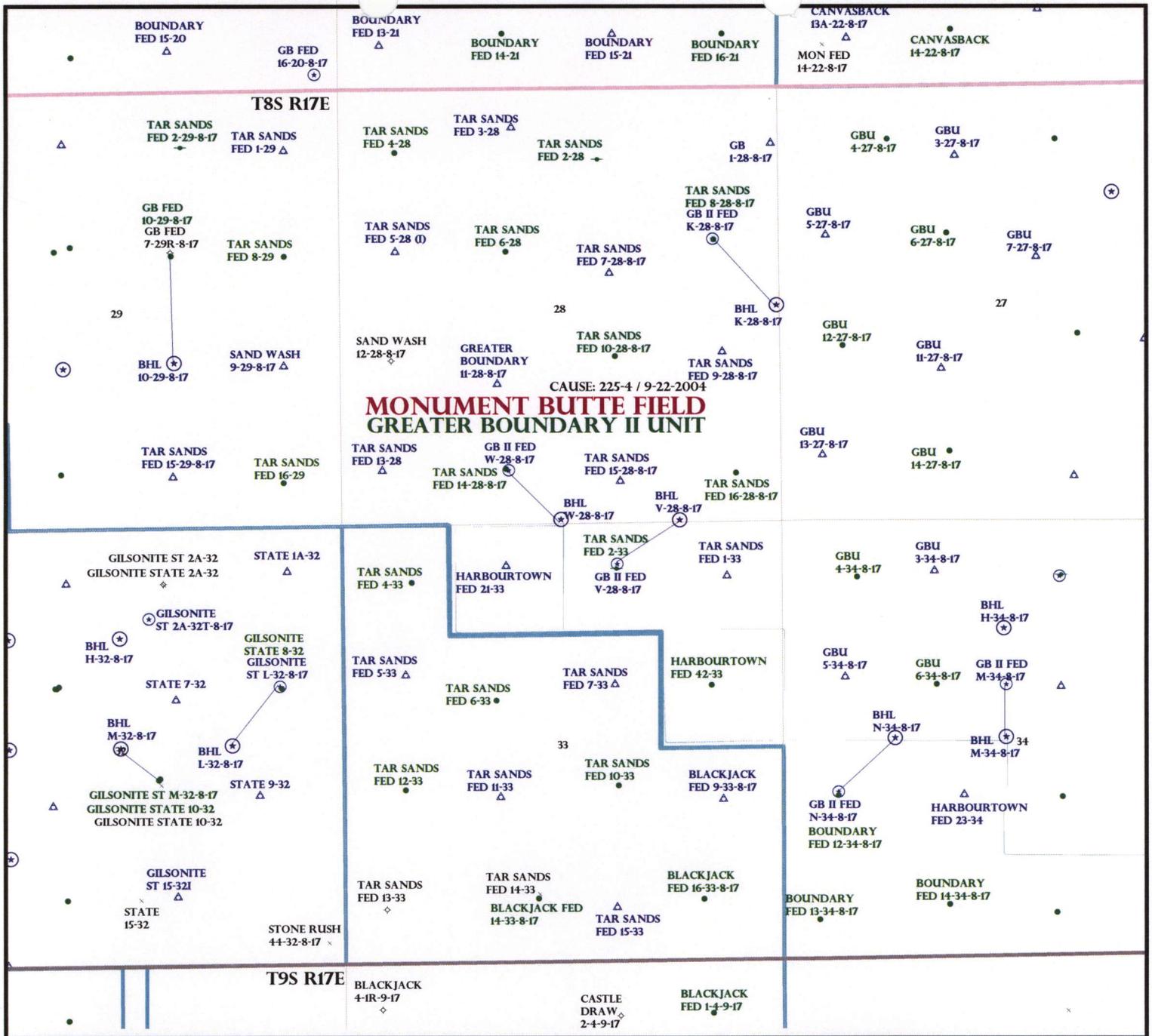
- R649-2-3.
- Unit: GREATER BOUNDARY II (GR)
- R649-3-2. General
- Siting: 460 From Qtr/Qtr & 920' Between Wells
- R649-3-3. Exception
- Drilling Unit
- Board Cause No: 225-4
- Eff Date: 9-22-2004
- Siting: Suspends Final Siting
- R649-3-11. Directional Drill

COMMENTS:

See Separate file

STIPULATIONS:

1- Federal Approval



**MONUMENT BUTTE FIELD  
GREATER BOUNDARY II UNIT**

CAUSE: 225-4 / 9-22-2004

OPERATOR: NEWFIELD PROD CO (N2695)

SEC: 28,33 T.8S R. 17E

FIELD: MONUMENT BUTTE (105)

COUNTY: DUCHESNE

CAUSE: 225-4 / 9-22-2004

- Field Status**
- ABANDONED
  - ACTIVE
  - COMBINED
  - INACTIVE
  - PROPOSED
  - STORAGE
  - TERMINATED

- Unit Status**
- EXPLORATORY
  - GAS STORAGE
  - NF PP OIL
  - NF SECONDARY
  - PENDING
  - PI OIL
  - PP GAS
  - PP GEOTHERML
  - PP OIL
  - SECONDARY
  - TERMINATED

- Wells Status**
- ↗ GAS INJECTION
  - ✳ GAS STORAGE
  - ⊗ LOCATION ABANDONED
  - ⊗ NEW LOCATION
  - ⊕ PLUGGED & ABANDONED
  - ⊙ PRODUCING GAS
  - ⊙ PRODUCING OIL
  - ⊙ SHUT-IN GAS
  - ⊙ SHUT-IN OIL
  - ⊗ TEMP. ABANDONED
  - TEST WELL
  - △ WATER INJECTION
  - ⊙ WATER SUPPLY
  - ⊕ WATER DISPOSAL
  - ⊕ DRILLING



OIL, GAS & MINING



PREPARED BY: DIANA MASON  
DATE: 20-MARCH-2008

# United States Department of the Interior

## BUREAU OF LAND MANAGEMENT

Utah State Office

P.O. Box 45155

Salt Lake City, Utah 84145-0155

IN REPLY REFER TO:

3160

(UT-922)

March 25, 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, the following wells are planned for calendar year 2008 within the Greater Boundary Unit, Duchesne County, Utah.

API#	WELL NAME	LOCATION
(Proposed PZ Green River)		
43-013-33938	G Boundary II Fed W-28-8-17	Sec 28 T08S R17E 0648 FSL 1998 FWL BHL Sec 28 T08S R17E 0040 FSL 2650 FEL
43-013-33939	G Boundary II Fed V-28-8-17	Sec 33 T08S R17E 0506 FNL 1981 FEL BHL Sec 28 T08S R17E 0015 FSL 1230 FEL

We have no objections to permitting the wells 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:3-25-08



March 24, 2008

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

RE: Directional Drilling  
**Greater Boundary II Federal V-28-8-17**  
Greater Boundary II Unit  
UTU-77098X  
Surface Hole: T8S R17E, Section 33: NWNE  
506' FNL 1981' FEL  
Bottom Hole: T8S R17E, Section 28  
15' FSL 1230' FEL  
Duchesne County, Utah

Dear Ms. Mason;

Pursuant to the filing of Newfield Production Company's ("NPC") Application for Permit to Drill dated March 17, 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 bottom hole 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.

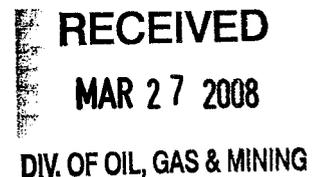
NPC is permitting this well as a directional well in order to minimize surface disturbance. By directionally drilling from the referenced surface location, NPC will be able to utilize the existing roads and pipelines in this area.

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



UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL OR REENTER

5. Lease Serial No.  
UTU-76241

6. If Indian, Allottee or Tribe Name  
N/A

7. If Unit or CA Agreement, Name and No.  
Greater Boundary II Unit

8. Lease Name and Well No.  
Greater Boundary II Federal V-28-8-17

9. API Well No.

10. Field and Pool, or Exploratory  
Monument Butte

11. Sec., T., R., M., or Blk. and Survey or Area  
Sec. 28, T8S R17E

12. County or Parish  
Duchesne

13. State  
UT

1a. Type of Work:  DRILL  REENTER

1b. Type of Well:  Oil Well  Gas Well  Other  Single Zone  Multiple Zone

2. Name of Operator  
Newfield Production Company

3a. Address  
Route #3 Box 3630, Myton UT 84052

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

4. Location of Well (Report location clearly and in accordance with any State requirements. \*)  
At surface NW/NE 506' FNL 1981' FEL Sec. 33, T8S R17E  
At proposed prod. zone 15' FSL 1230' FEL Sec. 28, T8S R17E

14. Distance in miles and direction from nearest town or post office\*  
Approximatley 12.5 miles southeast of Myton, Utah

15. Distance from proposed\* location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any) Approx. 1305' f/lse, 1305' f/unit

16. No. of Acres in lease  
1880.00

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. 1321'

19. Proposed Depth  
6715'

20. BLM/BIA Bond No. on file  
WYB000493

21. Elevations (Show whether DF, KDB, RT, GL, etc.)  
5113' 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.
- 2. A Drilling Plan.
- 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).
- 4. Bond to cover the operations unless covered by an existing bond on file (see Item 20 above).
- 5. Operator certification.
- 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 3/17/08

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.

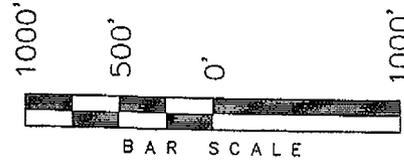
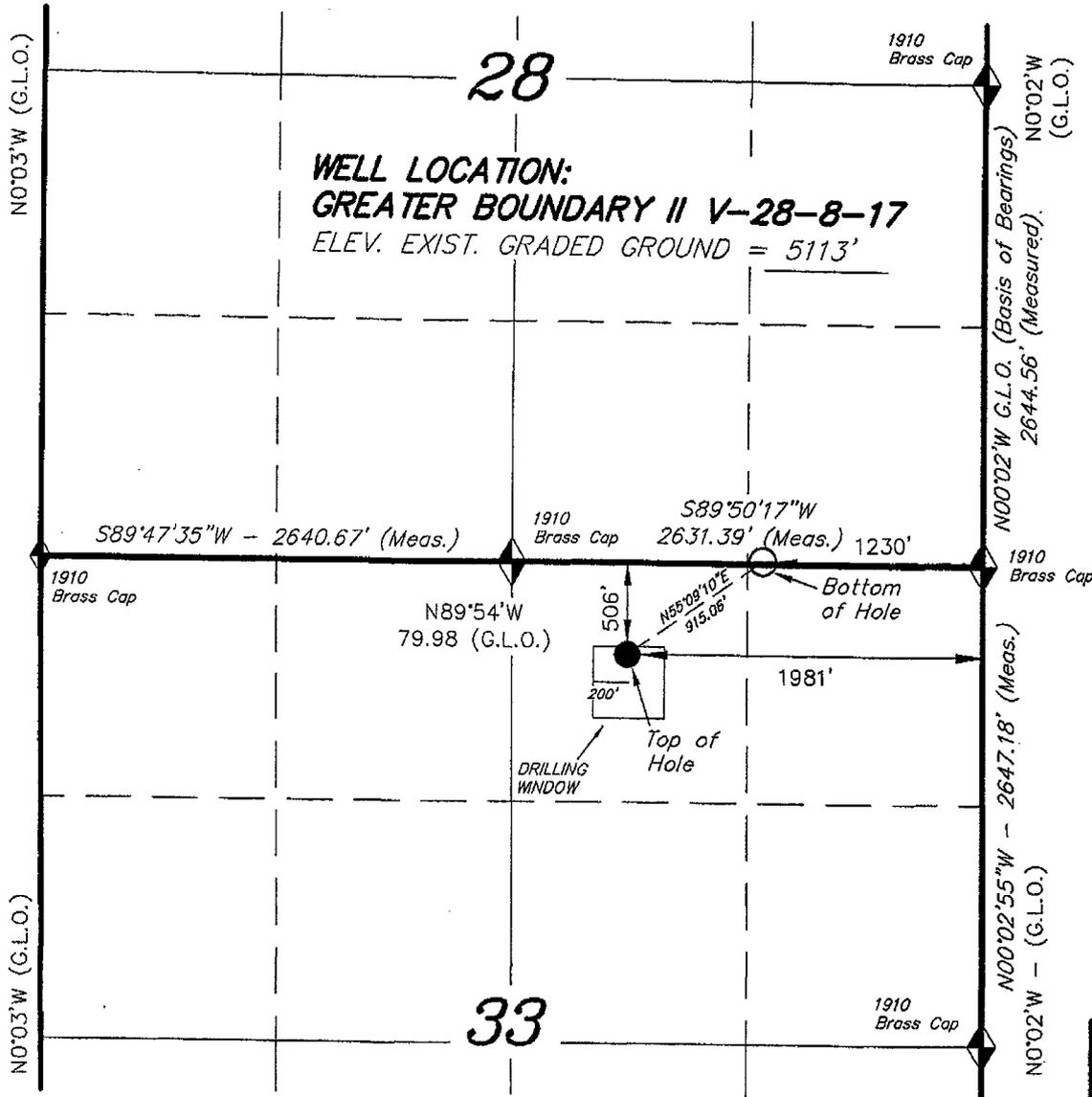
\*(Instructions on reverse)

**RECEIVED**  
**MAR 27 2008**  
DIV. OF OIL, GAS & MINING

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

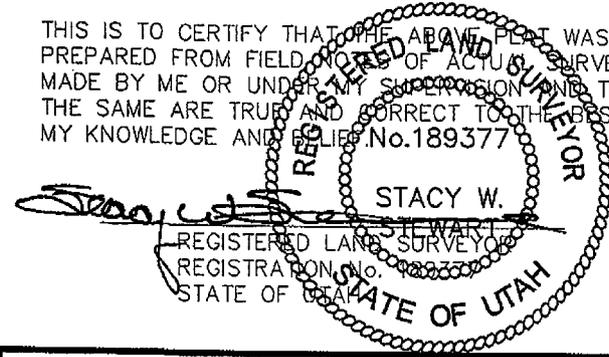
NEWFIELD PRODUCTION COMPANY

WELL LOCATION, GREATER BOUNDARY II V-28-8-17, LOCATED AS SHOWN IN THE NW 1/4 NE 1/4 OF SECTION 33, T8S, R17E, S.L.B.&M. DUCHESNE COUNTY, UTAH.



Note:  
 1. The bottom of hole footages are 15' FSL & 1230' FEL.

THIS IS TO CERTIFY THAT THE ABOVE PLAT WAS PREPARED FROM FIELD NOTES OF ACTUAL SURVEYS MADE BY ME OR UNDER MY SUPERVISION AND THAT THE SAME ARE TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF. No. 189377



◆ = SECTION CORNERS LOCATED

BASIS OF ELEV;  
 U.S.G.S. 7-1/2 min QUAD (MAYTON SE)

GREATER BOUNDARY II V-28-8-17  
 (Surface Location) NAD 83  
 LATITUDE = 40° 04' 49.07"  
 LONGITUDE = 110° 00' 33.04"

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

DATE SURVEYED: 12-19-07	SURVEYED BY: T.H.
DATE DRAWN: 12-28-07	DRAWN BY: F.T.M.
REVISED:	SCALE: 1" = 1000'



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

March 31, 2008

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

Re: Greater Boundary II Federal V-28-8-17 Well, Surface Location 506' FNL, 1981' FEL, NW NE, Sec. 33, T. 8 South, R. 17 East, Bottom Location 15' FSL, 1230' FEL, SW SE, Sec. 28, 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 43-013-33939.

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 V-28-8-17  
**API Number:** 43-013-33939  
**Lease:** UTU-76241

**Surface Location:** NW NE      **Sec.** 33      **T.** 8 South      **R.** 17 East  
**Bottom Location:** SW SE      **Sec.** 28      **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.

RECEIVED

MAR 19 2008

RECEIVED  
VERNAL FIELD OFFICE

2008 MAR 19 AM 10:57

BLM

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

Form 3160-3  
(September 2001)

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-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 V-28-8-17
3b. Phone No. (include area code) (435) 646-3721		9. API Well No. 43 013 33939
4. Location of Well (Report location clearly and in accordance with any State requirements. *) At surface NW/NE 506' FNL 1981' FEL Sec. 33, T8S R17E At proposed prod. zone 15' FSL 1230' FEL Sec. 28, T8S R17E		10. Field and Pool, or Exploratory Monument Butte
14. Distance in miles and direction from nearest town or post office* Approximatley 12.5 miles southeast of Myton, Utah		11. Sec., T., R., M., or Blk. and Survey or Area Sec. 28, T8S R17E
15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any) Approx. 1305' f/lse, 1305' f/unit	16. No. of Acres in lease 1880.00	12. County or Parish Duchesne
18. Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft. Approx. 1321'	17. Spacing Unit dedicated to this well 20 Acres	13. State UT
19. Proposed Depth 6715'	20. BLM/BIA Bond No. on file WYB000493	
21. Elevations (Show whether DF, KDB, RT, GL, etc.) 5113' 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 3/17/08
Title Regulatory Specialist		
Approved by (Signature) 	Name (Printed/Typed) Jessy Kewicka	Date JAN 16 2009
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.

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 2009

DIV. OF OIL, GAS & MINING

UD06M

NOTICE OF APPROVAL

CONDITIONS OF APPROVAL ATTACHED



**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**

<b>Company:</b>	<b>Newfield Production Company</b>	<b>Location:</b>	<b>NWNE, Sec.28,T8S,R17E</b>
<b>Well No:</b>	<b>Greater Boundary II Federal V-28-8-17</b>	<b>Lease No:</b>	<b>UTU-76241</b>
<b>API No:</b>	<b>43-013-33939</b>	<b>Agreement:</b>	<b>Greater Boundary II Unit</b>

<b>Title</b>	<b>Name</b>	<b>Office Phone Number</b>	<b>Cell Phone Number</b>
Petroleum Engineer:	Matt Baker	(435) 781-4490	(435) 828-4470
Petroleum Engineer:	Michael Lee	(435) 781-4432	(435) 828-7875
Petroleum Engineer:	Ryan Angus	(435) 781-4430	(435) 828-7368
Supervisory Petroleum Technician:	Jamie Sparger	(435) 781-4502	(435) 828-3913
Supervisory NRS:	Karl Wright	(435) 781-4484	
NRS/Enviro Scientist:	Holly Villa	(435) 781-4404	(435) 828-3544
NRS/Enviro Scientist:	James Hereford	(435) 781-3412	(435) 828-3546
NRS/Enviro Scientist:	Chuck Macdonald	(435) 781-4441	(435) 828-7481
NRS/Enviro Scientist:	Dan Emmett	(435) 781-3414	(435) 828-4029
NRS/Enviro Scientist:	Paul Percival	(435) 781-4493	(435) 828-7381
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:	Nathan Packer	(435) 781-3405	(435) 828-3545
NRS/Enviro Scientist:	David Gordon	(435) 781-4424	
NRS/Enviro Scientist:	Christine Cimiluca	(435) 781-4475	

**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.

**SITE SPECIFIC CONDITIONS OF APPROVAL**

NONE

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

**SITE SPECIFIC DOWNHOLE COAs:**

- Production casing cement shall be brought up and into the surface.
- Covering air/gas drilling operations, requirements will be adhered to covering air/gas drilling operations as described in Onshore Order #2 III. E. 1. Drilling Operations, Special Drilling Operations, air/gas drilling.
- Logging: A Gamma Ray well Log shall be run from the well Total Depth to the surface.
  - A copy of the Gamma Ray well Log shall be submitted to the BLM Vernal Field Office.

**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.

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

FORM APPROVED  
Budget Bureau No. 1004-0135  
Expires: March 31, 1993

**SUNDRY NOTICES AND REPORTS ON WELLS**

Do not use this form for proposals to drill or to deepen or reentry a different reservoir.  
Use "APPLICATION FOR PERMIT -" for such proposals

5. Lease Designation and Serial No.  
**UTU-76241**

6. If Indian, Allottee or Tribe Name  
**NA**

7. If Unit or CA, Agreement Designation  
**GREATER BOUNDARY II**

8. Well Name and No.  
**GRTR BOUND II FED. V-28-8-17**

9. API Well No.  
**43-013-33939**

10. Field and Pool, or Exploratory Area  
**MONUMENT BUTTE**

11. County or Parish, State  
**DUCHESNE COUNTY, UT.**

**SUBMIT IN TRIPLICATE**

1. Type of Well  
 Oil Well     Gas Well     Other

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

3. Address and Telephone No.  
**Rt. 3 Box 3630, Myton Utah, 84052 435-646-3721**

4. Location of Well (Footage, Sec., T., R., m., or Survey Description)  
**506 FNL 1981 FEL      NW/NE Section 33, T8S R17E**

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

TYPE OF SUBMISSION	TYPE OF ACTION
<input checked="" type="checkbox"/> Notice of Intent	<input type="checkbox"/> Abandonment
<input type="checkbox"/> Subsequent Report	<input type="checkbox"/> Recompletion
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Plugging Back
	<input type="checkbox"/> Casing Repair
	<input type="checkbox"/> Altering Casing
	<input checked="" type="checkbox"/> Other <b>Permit Extension</b>
	<input type="checkbox"/> Change of Plans
	<input type="checkbox"/> New Construction
	<input type="checkbox"/> Non-Routine Fracturing
	<input type="checkbox"/> Water Shut-Off
	<input type="checkbox"/> Conversion to Injection
	<input type="checkbox"/> Dispose Water

(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

13. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)\*

Newfield Production Company requests to extend the Permit to Drill this well for one year.

Approved by the  
Utah Division of  
Oil, Gas and Mining

Date: 03-16-09  
By: [Signature]

COPY SENT TO OPERATOR  
Date: 3-18-2009  
Initials: KS

RECEIVED  
MAR 19 2009  
DIV. OF OIL, GAS & MINING

14. I hereby certify that the foregoing is true and correct

Signed Mandie Crozier Title Regulatory Specialist Date 3/3/2009  
Mandie Crozier

CC: UTAH DOGM

(This space for Federal or State office use)

Approved by \_\_\_\_\_ Title \_\_\_\_\_ Date \_\_\_\_\_

Conditions of approval, if any:

CC: Utah DOGM

**Application for Permit to Drill  
Request for Permit Extension  
Validation**

(this form should accompany the Sundry Notice requesting permit extension)

**API:** 43-013-33939  
**Well Name:** Greater Boundary II Federal V-28-8-17  
**Location:** NW/NE Section 33, T8S R17E  
**Company Permit Issued to:** Newfield Production Company  
**Date Original Permit Issued:** 3/31/2008

The undersigned as owner with legal rights to drill on the property as permitted above, hereby verifies that the information as submitted in the previously approved application to drill, remains valid and does not require revision.

Following is a checklist of some items related to the application, which should be verified.

If located on private land, has the ownership changed, if so, has the surface agreement been updated? Yes  No

Have any wells been drilled in the vicinity of the proposed well which would affect the spacing or siting requirements for this location? Yes  No

Has there been any unit or other agreements put in place that could affect the permitting or operation of this proposed well? Yes  No

Have there been any changes to the access route including ownership, or right-of-way, which could affect the proposed location? Yes  No

Has the approved source of water for drilling changed? Yes  No

Have there been any physical changes to the surface location or access route which will require a change in plans from what was discussed at the onsite evaluation? Yes  No

Is bonding still in place, which covers this proposed well? Yes  No

  
Signature

3/3/2009

Date

Title: Regulatory Specialist

Representing: Newfield Production Company

RECEIVED  
MAR 09 2009  
DIV. OF OIL, GAS & MINING

Spud  
BLM - Vernal Field Office - Notification Form

Operator Newfield Exploration Rig Name/# Ross Rig #  
29 Submitted By Don Bastian Phone  
Number 435-823-6012  
Well Name/Number Greater Boundry II Federal V-28-8-17  
Qtr/Qtr NW/NE Section 33 Township 8 S Range 17E  
Lease Serial Number UTU-  
76241  
API Number 43-013-33939

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

Date/Time 6/29/09 9:00 AM  PM

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

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

Date/Time 6/29/09 3:00 AM  PM

BOPE

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

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

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

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

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

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

1. Type of Well  
 Oil Well  Gas Well  Other

2. Name of Operator  
NEWFIELD PRODUCTION COMPANY

3a. Address Route 3 Box 3630  
Myton, UT 84052

3b. Phone (include area code)  
435.646.3721

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)  
506 FNL 1981 FEL  
NWNE Section 33 T8S R17E

5. Lease Serial No.

USA UTU-76241

6. If Indian, Allottee or Tribe Name.

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

GREATER BOUNDARY II

8. Well Name and No.

GRTR BNDRY II V-28-8-17

9. API Well No.

4301333939

10. Field and Pool, or Exploratory Area

MONUMENT BUTTE

11. County or Parish, State

DUCHESNE, UT

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

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

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

On 6/29/09 MIRU Ross Rig # 29 .Spud well @ 9:00 AM. Drill 310' of 12 1/4" hole with air mist. TIH W/ 8 Jt's 8 5/8" J-55 24 # csgn. Set @ 306.48 KB On 7/8/09 cement with 160 sks of class "G" w/ 2% CaCL2 + 1/4# sk Cello- Flake Mixed @ 15.8 ppg > 1.17 cf/ sk yeild. Returned 6 bbls cement to pit. WOC.

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

Title

Drilling Foreman

Signature

*Alvin Nielsen*

Date

07/09/2009

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

Approved by .....

Title

Date

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

Office

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

(Instructions on page 2)

**RECEIVED**

JUL 13 2009

DIV. OF OIL, GAS & MINING





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

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

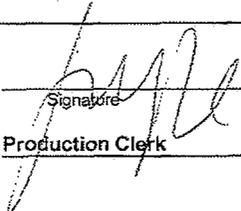
OPERATOR ACCT. NO. N2695

ACTION CODE	CURRENT ENTITY NO.	NEW ENTITY NO.	API NUMBER	WELL NAME	WELL LOCATION					SPUD DATE	EFFECTIVE DATE
					QQ	SC	TP	RG	COUNTY		
B	99999	12391 ✓	4301333939	GREATER BOUNDARY II FED V-28-8-17	NWNE	33 28	8S	17E	DUCHESNE	6/29/2009	7/30/09
WELL 1 COMMENTS: GRPV BHL = Sec 28 SWSE											
A	99999	17333	4301333781	UTE TRIBAL 15-20-4-1	SWSE	20	4S	1W	DUCHESNE	7/7/2009	7/30/09
GRPV											
A	99999	17334	4304740504	UTE TRIBAL 3-30-4-1E	NENW	30	4S	1E	UINTAH	7/11/2009	7/30/09
GRPV											
A	99999	17335	4301334035	UTE TRIBAL 15-21-4-2	SWSE	21	4S	2E ✓	DUCHESNE	7/3/2009	7/30/09
GRPV											
ACTION CODE	CURRENT ENTITY NO.	NEW ENTITY NO.	API NUMBER	WELL NAME	QQ	SC	TP	RG	COUNTY	SPUD DATE	EFFECTIVE DATE
WELL 5 COMMENTS:											
ACTION CODE	CURRENT ENTITY NO.	NEW ENTITY NO.	API NUMBER	WELL NAME	QQ	SC	TP	RG	COUNTY	SPUD DATE	EFFECTIVE DATE
WELL 5 COMMENTS:											

**CONFIDENTIAL**

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

RECEIVED  
 JUL 28 2009

Signature:   
 Production Clerk  
 Date: 07/10/09

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

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

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

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

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

1. Type of Well  
 Oil Well  Gas Well  Other

2. Name of Operator  
NEWFIELD PRODUCTION COMPANY

3a. Address Route 3 Box 3630  
Myton, UT 84052

3b. Phone (include area code)  
435.646.3721

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)  
506 FNL 1981 FEL  
NWNE Section 33 T8S R17E

5. Lease Serial No.

USA UTU-76241

6. If Indian, Allottee or Tribe Name.

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

GREATER BOUNDARY II

8. Well Name and No.

GRTR BNDRY II V-28-8-17

9. API Well No.

4301333939

10. Field and Pool, or Exploratory Area

MONUMENT BUTTE

11. County or Parish, State

DUCHESNE, UT

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

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

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

On 7/22/09 MIRU NDSI Rig # 2. Set all equipment. Pressure test Kelly, TIW, Choke manifold, & Bop's to 2,000 psi. Test 8.625 csgn to 1,500 psi. Vernal BLM field, & Roosevelt DOGM office was notified of test. PU BHA and tag cement @ 283'. Drill out cement & shoe. Drill a 7.875 hole with fresh water to a depth of 6,345' & A TVD depth of 6229'. Lay down drill string & BHA. Open hole log w/ Dig/SP/GR log's TD to surface. PU & TIH with Guide shoe, shoe jt, float collar, 159 jt's of 5.5 J-55, 15.5# csgn. Set @ 6344' / KB. Cement with 277 sks cement mixed @ 11.0 ppg & 3.54 yld. Then 406 sks cement mixed @ 14.4 ppg & 1.24 yld. With 40 bbls cement returned to pit. Nipple down Bop's. Drop slips @85,000 #'s tension. Release rig 1:30 PM 7/29/09.

**RECEIVED**

**AUG 04 2009**

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

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

Alvin Nielsen

Signature



Title

Drilling Foreman

Date

07/30/2009

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

Approved by

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

Title

Date

Office

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

(Instructions on page 2)





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

5. LEASE DESIGNATION AND SERIAL NUMBER:  
USA UTU-76241

**SUNDRY NOTICES AND REPORTS ON WELLS**

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

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

7. UNIT or CA AGREEMENT NAME:  
GREATER BOUNDARY II

1. TYPE OF WELL: OIL WELL  GAS WELL  OTHER

8. WELL NAME and NUMBER:  
GRTR BNDRY II V-28-8-17

2. NAME OF OPERATOR:  
NEWFIELD PRODUCTION COMPANY

9. API NUMBER:  
4301333939

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: 506 FNL 1981 FEL

COUNTY: DUCHESNE

OTR/OTR. SECTION. TOWNSHIP. RANGE. MERIDIAN: NWNE, 33, T8S, R17E

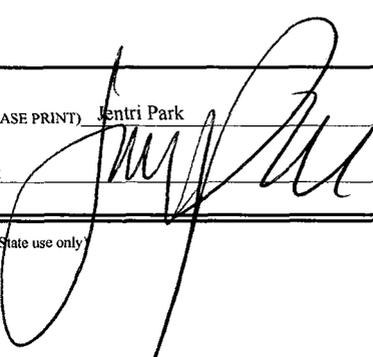
STATE: UT

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 checked="" type="checkbox"/> SUBSEQUENT REPORT (Submit Original Form Only)  Date of Work Completion: <u>09/08/2009</u>	<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 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 08/21/09, attached is a daily completion status report.

NAME (PLEASE PRINT) Jentri Park TITLE Production Clerk  
SIGNATURE  DATE 09/08/2009

(This space for State use only)

**RECEIVED**  
**SEP 09 2009**  
DIV. OF OIL, GAS & MINING

## Daily Activity Report

**Format For Sundry**

**GRTR BNDRY II V-28-8-17**

**6/1/2009 To 10/30/2009**

**8/12/2009 Day: 1**

**Completion**

Rigless on 8/12/2009 - Run CBL & shoot first stage. - 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 @ 6267' cement top @ 38'. Perforate stage #1. CP1 sds @ 5868', CP2 sds @ 5898-5901' & CP3 sds @ 5980-84' w/ 3 1/8" slick guns (11 gram, .36" EH, 120°, 16.82" pen, PPG-3111-301 Titan) w/ 3 spf for total of 33 shots. 150 BWTR. SWIFN.

**Daily Cost:** \$0

**Cumulative Cost:** \$11,764

**8/17/2009 Day: 2**

**Completion**

Rigless on 8/17/2009 - Frac & perforate all 4 stage. Flowback well. - Stage 1 CP1 , CP2 & CP3. RU BJ Services. 513 psi on well. Broke @ 2760 psi. Done 1 hr shut in. 5 min 1229 psi, 10 min 1148 psi, 15 min 1096, 30 min 1016 psi, 45 min 970 psi, 1 hr 938 psi. Frac CP1, 2 3 sds w/ 121,259#'s of 20/40 sand in 904 bbls of Lightning 17 fluid. Treated w/ ave pressure of 2366 psi w/ ave rate of 37.2 BPM. ISDP 1798 psi. FG @ .74. Leave pressure on well. 1054 BWTR. - Stage #2, A1 & A3 sds. RU Perforators LLC WLT, Crane & lubricator. RIH w/ Weatherford 5 1/2" 6K composite flow through frac plug, 6' & 3' perf guns. Set plug @ 5620'. Perforate A3 sds @ 5544-50' & A1 sds @ 5472-75' w/ 3 1/8" Slick Guns (.36"EH, 11gram, 120°, 16.82 pen., PPG-3111-301) w/ 3 spf for total of 27 shots. RU BJ Services. 1531 psi on well. Broke @ 2933 psi. ISIP 1722 psi, 1 min 1601 psi, 4 min 1527 psi. Frac A1 & A3 sds w/ 20,316#'s of 20/40 sand in 338 bbls of Lightning 17 fluid. Treated w/ ave pressure of 2600 psi w/ ave rate of 36.2 BPM. ISDP 1956 psi. FG. @ .79. Leave pressure on well. 1392 BWTR - Stage #3, B2 sds. RU Perforators LLC WLT, Crane & lubricator. RIH w/ Weatherford 5 1/2" 6K composite flow through frac plug, 6', 2' & 3' perf guns. Set plug @ 5400'. Perforate B2 sds @ 5336-42', 5298- 5300' & 5278-81' w/ 3 1/8" Slick Guns (.36"EH, 11gram, 120°, 16.82 pen., PPG-3111-301) w/ 3 spf for total of 33 shots. RU BJ Services. 1570 psi on well. Broke @ 2286 psi. ISIP 1715 psi, No 1 min or 4 min due to low psi. Pumped 780 gals of techni-hib. Pumped 182 bbls of Lightning 17 pad. Nipple in csg valve begin leaking. Shut down frac. RU Perforators LLC WLT, Crane & lubricator. RIH w/ Weatherford 5 1/2" 6K solid composite plug. Set plug @ 5396'. Bleed pressure off well. Flowed back 15 bbls. Break out bad nipple & csg valve. Make up new nipple & csg valve. RU BJ Services. Frac B2 sds w/ 155,446#'s of 20/40 sand in 1317 bbls of Lightning 17 fluid. Treated w/ ave pressure of 2631 psi w/ ave rate of 40.6 BPM. ISIP 2147 psi. FG. @ .84. Leave pressure on well. 2694 BWTR - Stage #4, D2 sds. RU Perforators LLC WLT, Crane & lubricator. RIH w/ Weatherford 5 1/2" 6K composite flow through frac plug & 6' perf guns. Set plug @ 5100'. Perforate D2 sds @ 5020-26' w/ 3 1/8" Slick Guns (.36"EH, 11gram, 120°, 16.82 pen., PPG-3111-301) w/ 3 spf for total of 24 shots. RU BJ Services. 1636 psi on well. Broke @ 2379 psi. No ISIP, 1 min or 4 min due to low psi. Frac D2 sds w/ 11,751#'s of 20/40 sand in 247 bbls of Lightning 17 fluid. Treated w/ ave pressure of 2344 psi w/ ave rate of 16.3 BPM. Screened out 23 bbls short of flush. ISIP 4097 psi. FG. @ 1.26. Left 4,851#'s of sand in csg. Begin flowback on 20/64 choke @ 3 BPM. Flowed for 5 hrs & died. Rec 885 BTF. SIWFN w/ 2056 BWTR

**Daily Cost:** \$0

**Cumulative Cost:** \$137,817

**8/18/2009 Day: 3**

**Completion**

WWS #3 on 8/18/2009 - MIRU WWS #3. 850 psi on well. Set kill plug @ 5000'. Change out BOP & WH. Talley, PU & RIH w/ tbg. - MIRU Western rig #3. 850 psi on well. Tried to bleed down well, Would not bleed down & turning to oil. RU Perforators LLC WLT & lubricator. RIH w/ Weatherford 5 1/2" solid CBP. Set plug @ 5000'. Bleed off well. RD WL. ND Cameron BOP & 5M WH. NU 3M WH & Schaffer BOP. Spot in rig equipment. Move frac tanks out to have room to spot in tbg trailer (Location to small to unload tbg on pipe racks). Talley, PU & RIH w/ used 4 3/4" chomp bit, bit sub & 122 jts of tbg. EOT @ 3823'. SIWFN w/ 2056 BWTR. -

**Daily Cost:** \$0

**Cumulative Cost:** \$149,510

**8/20/2009 Day: 4**

**Completion**

WWS #3 on 8/20/2009 - Continue to PU TIH w/ tbg. Drill out plugs. - 850 psi on well. Bleed off pressure. Pumped 10 BW down tbg. Continue to PU & RIH w/ tbg. Tagged fill @ 4925'. RU Nabors power swivel. Circulate sand & drill out plugs as follows: Sand @ 4925', Plug @ 5000' (Drilled up in 25 mins), Plug @ 5100' (Drilled out in 30 mins), Sand @ 5302', Plug @ 5396' & 5400' (Drilled out in 54 mins), Sand @ 5491', Plug @ 5620' (Drilled out in 20 mins). Circulate well clean w/ EOT @ 5649'. SIWFN w/ 1891 BWTR.

**Daily Cost:** \$0

**Cumulative Cost:** \$155,220

**8/21/2009 Day: 6**

**Completion**

WWS #3 on 8/21/2009 - - 750 psi on well. Bleed off pressure. Circulate well to kill well. Continue to TIH w/ tbg. Tagged fill @ 6037'. C/O to PBTD @ 6289'. RU Nabors power swivel. LD 3 jts of tbg. EOT @ 6210'. RU swab equipment. IFL @ surface. Made 3 swab runs. Recovered 45 BTF. Well begin flowing. Flowed back 100 bbls in 90 mins. Flowed a total of 145 BTF. Pump 20 BW down tbg to kill well. TIH w/ tbg. Tagged fill @ 6274'. C/O to 6289'. TOH w/ tbg. LD bit & bit sub. TIH w/ production tbg as follows: NC, 2- jts, SN, 2-jts, TA & 188 jts of 2 7/8" J-55 tbg. ND BOP. Set TA w/ 19,000#'s of tension @ 5937.55', SN @ 6003.44', EOT @ 6068.04'. NU WH. SIWFN w/ 1571 BWTR. - 750 psi on well. Bleed off pressure. Circulate well to kill well. Continue to TIH w/ tbg. Tagged fill @ 6037'. C/O to PBTD @ 6289'. RU Nabors power swivel. LD 3 jts of tbg. EOT @ 6210'. RU swab equipment. IFL @ surface. Made 3 swab runs. Recovered 45 BTF. Well begin flowing. Flowed back 100 bbls in 90 mins. Flowed a total of 145 BTF. Pump 20 BW down tbg to kill well. TIH w/ tbg. Tagged fill @ 6274'. C/O to 6289'. TOH w/ tbg. LD bit & bit sub. TIH w/ production tbg as follows: NC, 2- jts, SN, 2-jts, TA & 188 jts of 2 7/8" J-55 tbg. ND BOP. Set TA w/ 19,000#'s of tension @ 5937.55', SN @ 6003.44', EOT @ 6068.04'. NU WH. SIWFN w/ 1571 BWTR. - 600 psi on csg, 550 psi on tbg. Flush tbg w/ 60 bbls of water. PU & prime up rod pump. PU "A" grade rod string as follows: 2 1/2" X 13/4" X 24' RHAC "Central hydraulic", 4- 1 1/2" wt bars, 235- 7/8" guided rods (8 per), 1- 8', 1-4', 1-2' X 7/8" pony rods, 1 1/2" X 30' polish rod. Hang head, Space out rods. Pressure test w/ unit to 800 psi. RDMOSU. PWOP @ 12:30 PM w/ 144" SL @ 4 SPM. 1521 BWTR. FINAL REPORT!!! - 600 psi on csg, 550 psi on tbg. Flush tbg w/ 60 bbls of water. PU & prime up rod pump. PU "A" grade rod string as follows: 2 1/2" X 13/4" X 24' RHAC "Central hydraulic", 4- 1 1/2" wt bars, 235- 7/8" guided rods (8 per), 1- 8', 1-4', 1-2' X 7/8" pony rods, 1 1/2" X 30' polish rod. Hang head, Space out rods. Pressure test w/ unit to 800 psi. RDMOSU. PWOP @ 12:30 PM w/ 144" SL @ 4 SPM. 1521 BWTR. FINAL REPORT!!! **Finalized**

**Daily Cost:** \$0

**Cumulative Cost:** \$211,458

**Pertinent Files: Go to File List**

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

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

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

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

2. Name of Operator  
NEWFIELD EXPLORATION COMPANY

3. Address 1401 17TH ST. SUITE 1000 DENVER, CO 80202 3a. Phone No. (include area code) (435)646-3721

4. Location of Well (Report location clearly and in accordance with Federal requirements)\*  
 At surface 506' FNL & 1981' FEL (NW/NE) SEC. 28, T8S, R17E  
 At top prod. interval reported below 130' FSL & 1053' FEL (SE/SE) S-28 T08S R17E  
 At total depth 6345'

14. Date Spudded 06/29/2009 15. Date T.D. Reached 07/29/2009 16. Date Completed 08/21/2009  D & A  Ready to Prod.

18. Total Depth: MD 6345' TVD 6229' 19. Plug Back T.D.: MD 6289' TVD 6174'

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

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

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

Hole Size	Size/Grade	Wt. (#/ft.)	Top (MD)	Bottom (MD)	Stage Cemen-ter Depth	No. of Sks. & Type of Cement	Slurry Vol. (BBL)	Cement Top*	Amount Pulled
12-1/4"	8-5/8" J-55	24#		306'		160 CLASS G			
7-7/8"	5-1/2" J-55	15.5#		6345'		277 PRIMLITE		38'	
						406 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@ 6068'	TA @ 5940'						

25. Producing Intervals

Formation	Top	Bottom	Perforated Interval	Size	No. Holes	Perf. Status
A) GREEN RIVER			(CP1)(CP2)(CP3) see below	.36"	3	33
B) GREEN RIVER			(A3)5544-50(A1)5472-75'	.36"	3	27
C) GREEN RIVER			(B2) see below	.36"	3	33
D) GREEN RIVER			(D2) 5020-5026'	.36"	3	24

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

Depth Interval	Amount and Type of Material
5868-5984'	Frac w/ 25074# of 20/40 sand 347 bbls fluid
5472-5550'	Frac A1 & A3 sds w/ 20,316#'s of 20/40 sand in 338 bbls of Lightning 17 fluid.
5278-5342'	Frac B2 sds w/ 155,446#'s of 20/40 sand in 1317 bbls of Lightning 17 fluid.
5020-5026'	Frac D2 sds w/ 11,751#'s of 20/40 sand in 247 bbls of Lightning 17 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
08/21/09	09/02/09	24	→	30	41	44			2 1/2" X 13/4" X 24' RHAC "Central hydraulic"
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	
			→						

5. Lease Serial No. UTU-76241  
 6. If Indian, Allottee or Tribe Name NA  
 7. Unit or CA Agreement Name and No. GREATER BOUNDARY II  
 8. Lease Name and Well No. GB FEDERAL V-28-8-17  
 9. AFI Well No. 43-013-33939  
 10. Field and Pool or Exploratory MONUMENT BUTTE  
 11. Sec., T., R., M., on Block and Survey or Area SEC: 28, T8S, R17E  
 12. County or Parish DUCHESNE 13. State UT  
 17. Elevations (DF, RKB, RT, GL)\* 5113' GL 5125' KB

RECEIVED

OCT 14 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	3957' 4148'
				GARDEN GULCH 2 POINT 3	4268' 4545'
				X MRKR Y MRKR	4780' 4814'
				DOUGALS CREEK MRK BI CARBONATE MRK	4945' 5186'
				B LIMESTON MRK CASTLE PEAK	5371' 5815'
				BASAL CARBONATE TOTAL DEPTH (LOGGERS)	6255' 6335'

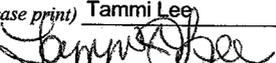
32. Additional remarks (include plugging procedure):

Perforate stage #1. CP1 sds @ 5868', CP2 sds @ 5898-5901' & CP3 sds @ 5980-84' w/ 3 1/8" slick guns (11 gram, .36" EH, 120°, 16.82" pen, PPG-3111-301 Titan) w/ 3 spf for total of 33 shots.  
Stage # 3: Perforate B2 sds @ 5336-42', 5298- 5300' & 5278-81' w/ 3 1/8" Slick Guns (.36"EH, 11gram, 120°, 16.82 pen., PPG-3111-301) w/ 3 spf for total of 33 shots.

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  Date 10/08/2009

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.

# NEWFIELD

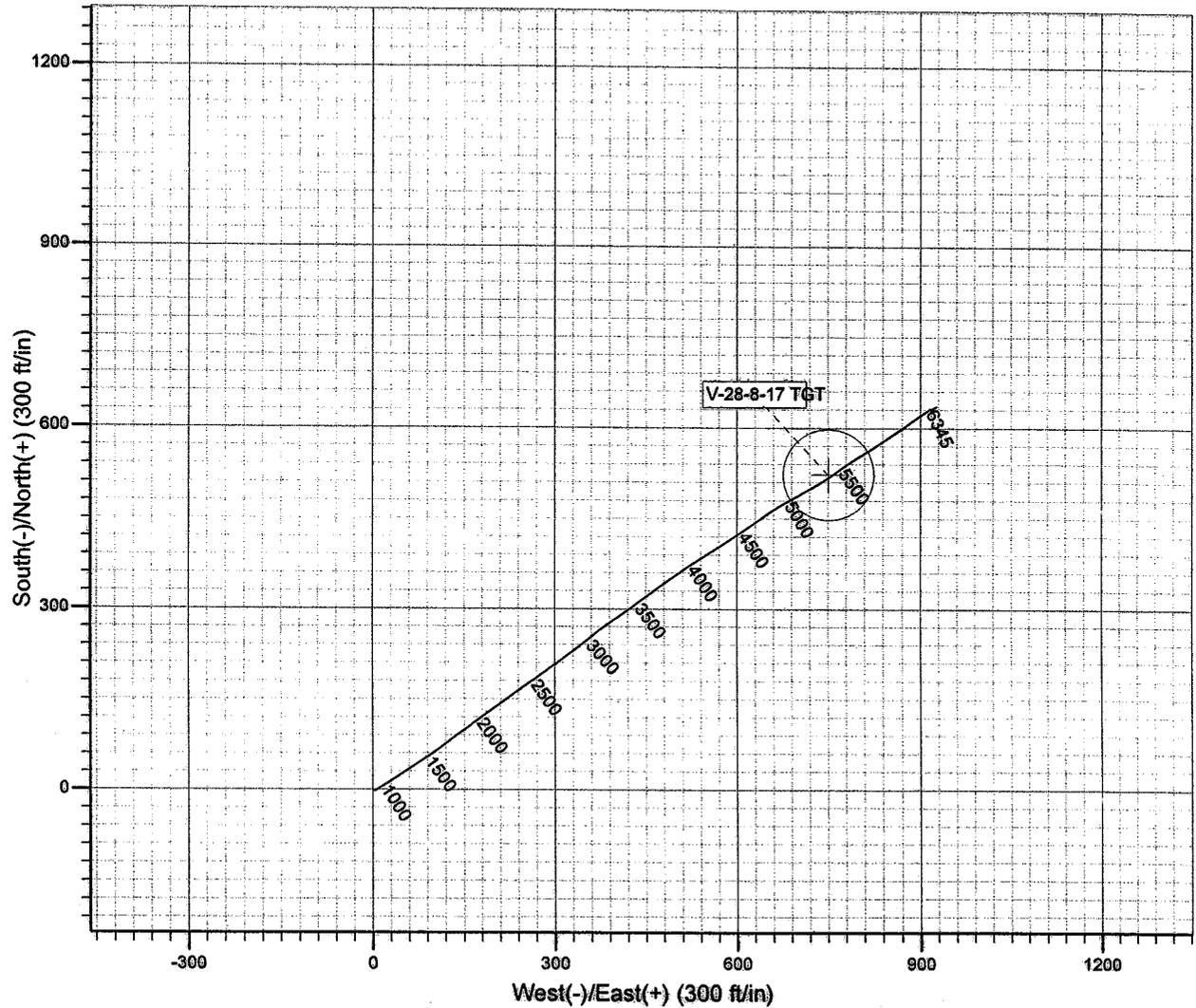
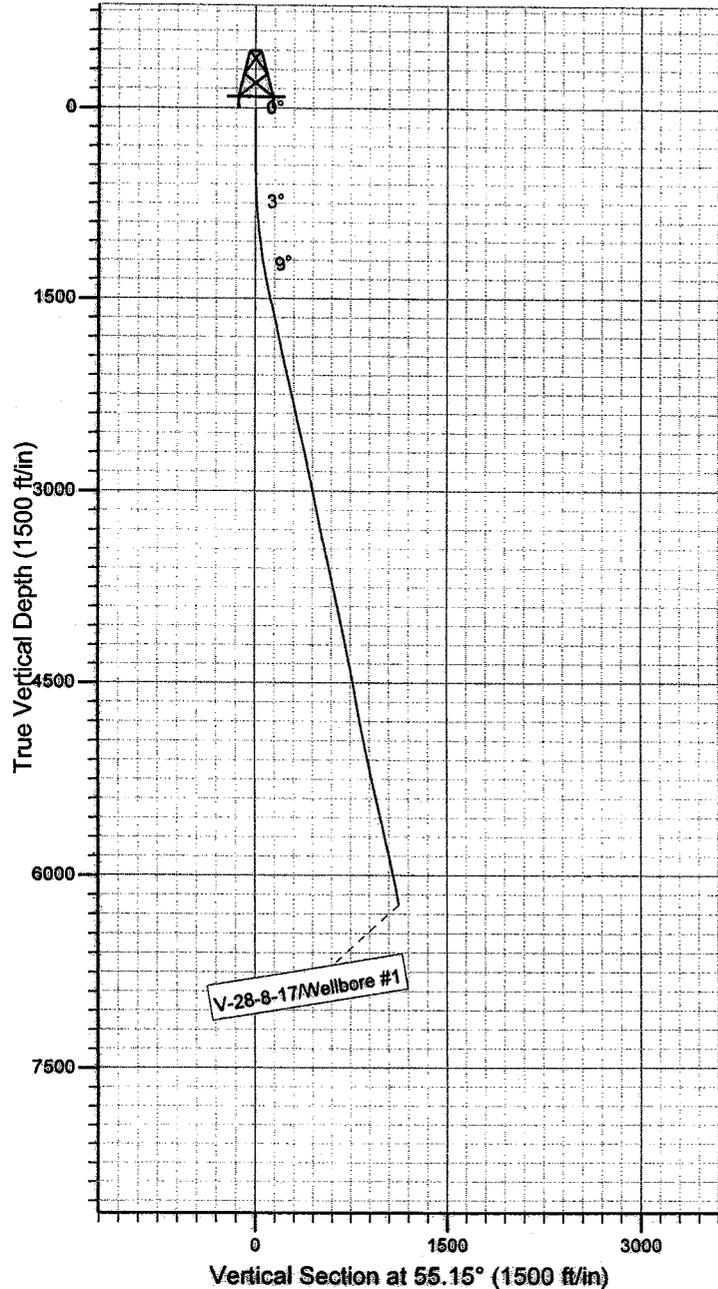
Project: USGS Myton SW (UT)  
Site: SECTION 33 T8S R17E  
Well: V-28-8-17  
Wellbore: Wellbore #1  
SURVEY: Wellbore #1

FINAL SURVEY REPORT



Azimuths to True North  
Magnetic North: 11.54°

Magnetic Field  
Strength: 52529.2snT  
Dip Angle: 65.89°  
Date: 2009/06/08  
Model: IGRF200510



HATHAWAY HBBURNHAM  
DIRECTIONAL & MWD SERVICES

Design: Wellbore #1 (V-28-8-17/Wellbore #1)

Created By: *Jim Hudson* Date: 9:39, August 10 2009  
THIS SURVEY IS CORRECT TO THE BEST OF MY  
KNOWLEDGE AND IS SUPPORTED BY ACTUAL FIELD DATA.



# **NEWFIELD EXPLORATION**

**USGS Myton SW (UT)  
SECTION 33 T8S R17E  
V-28-8-17**

**Wellbore #1**

**Design: Wellbore #1**

## **Standard Survey Report**

**10 August, 2009**

**HATHAWAY <sup>HB</sup> BURNHAM**  
**DIRECTIONAL & MWD SERVICES**



# HATHAWAY BURNHAM

## Survey Report



**Company:** NEWFIELD EXPLORATION  
**Project:** USGS Myton SW (UT)  
**Site:** SECTION 33 T8S R17E  
**Well:** V-28-8-17  
**Wellbore:** Wellbore #1  
**Design:** Wellbore #1

**Local Co-ordinate Reference:** Well V-28-8-17  
**TVD Reference:** V-28-8-17 @ 5125.0ft (RIG #2)  
**MD Reference:** V-28-8-17 @ 5125.0ft (RIG #2)  
**North Reference:** True  
**Survey Calculation Method:** Minimum Curvature  
**Database:** EDM 2003.21 Single User Db

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

**Site** SECTION 33 T8S R17E, SEC 33 T8S, R17E

**Site Position:** Northing: 7,200,000.00ft Latitude: 40° 4' 34.680 N  
**From:** Lat/Long Easting: 2,058,000.00ft Longitude: 110° 0' 27.466 W  
**Position Uncertainty:** 0.0ft Slot Radius: " Grid Convergence: 0.96 °

**Well** V-28-8-17, SHL LAT: 40 04 49.07, LONG: -110 00 33.04

**Well Position** +N/-S 0.0ft Northing: 7,201,448.60ft Latitude: 40° 4' 49.070 N  
 +E/-W 0.0ft Easting: 2,057,542.56ft Longitude: 110° 0' 33.040 W  
**Position Uncertainty** 0.0ft Wellhead Elevation: ft Ground Level: 0.0ft

**Wellbore** Wellbore #1

Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF200510	2009/06/08	11.54	65.89	52,529

**Design** Wellbore #1

**Audit Notes:**

**Version:** 1.0 **Phase:** ACTUAL **Tie On Depth:** 0.0

Vertical Section:	Depth From (TVD) (ft)	+N/-S (ft)	+E/-W (ft)	Direction (°)
	0.0	0.0	0.0	55.15

**Survey Program** Date 2009/08/10

From (ft)	To (ft)	Survey (Wellbore)	Tool Name	Description
449.0	6,345.0	Survey #1 (Wellbore #1)	MWD	MWD - Standard

**Survey**

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.00	0.00	0.00
449.0	0.68	144.13	449.0	-2.2	1.6	0.0	0.15	0.15	0.00
480.0	0.57	120.90	480.0	-2.4	1.8	0.1	0.88	-0.35	-74.94
510.0	0.79	102.92	510.0	-2.5	2.1	0.3	1.01	0.73	-59.93
541.0	0.94	74.21	541.0	-2.5	2.6	0.7	1.46	0.48	-92.61
571.0	1.41	64.67	571.0	-2.3	3.2	1.3	1.69	1.57	-31.80
602.0	1.49	69.09	602.0	-2.0	3.9	2.1	0.44	0.26	14.26
633.0	2.24	65.68	632.9	-1.6	4.8	3.0	2.44	2.42	-11.00
663.0	2.75	60.85	662.9	-1.0	6.0	4.3	1.84	1.70	-16.10
694.0	2.81	60.69	693.9	-0.2	7.3	5.8	0.20	0.19	-0.52
725.0	3.25	56.32	724.8	0.6	8.7	7.5	1.60	1.42	-14.10
755.0	3.47	55.64	754.8	1.6	10.1	9.2	0.75	0.73	-2.27
786.0	3.80	56.41	785.7	2.7	11.8	11.2	1.08	1.06	2.48



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 Design: Wellbore #1

Local Co-ordinate Reference: Well V-28-8-17  
 TVD Reference: V-28-8-17 @ 5125.0ft (RIG #2)  
 MD Reference: V-28-8-17 @ 5125.0ft (RIG #2)  
 North Reference: True  
 Survey Calculation Method: Minimum Curvature  
 Database: EDM 2003.21 Single User Db

## Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
816.0	4.24	59.44	815.7	3.8	13.5	13.3	1.63	1.47	10.10
847.0	4.59	57.92	846.6	5.1	15.6	15.7	1.19	1.13	-4.90
878.0	5.30	59.48	877.4	6.4	17.9	18.3	2.33	2.29	5.03
909.0	5.49	58.08	908.3	8.0	20.4	21.3	0.75	0.61	-4.52
941.0	5.80	60.14	940.2	9.6	23.1	24.4	1.16	0.97	6.44
973.0	6.15	57.13	972.0	11.3	25.9	27.7	1.47	1.09	-9.41
1,004.0	6.39	58.08	1,002.8	13.1	28.8	31.1	0.84	0.77	3.06
1,036.0	6.81	56.23	1,034.6	15.1	31.8	34.8	1.47	1.31	-5.78
1,068.0	7.47	56.41	1,066.3	17.3	35.2	38.8	2.06	2.06	0.56
1,099.0	7.87	56.50	1,097.1	19.6	38.6	42.9	1.29	1.29	0.29
1,131.0	8.22	54.08	1,128.7	22.2	42.3	47.4	1.52	1.09	-7.56
1,163.0	8.37	55.66	1,160.4	24.8	46.1	52.0	0.85	0.47	4.94
1,195.0	8.70	54.74	1,192.1	27.5	50.0	56.7	1.12	1.03	-2.88
1,226.0	9.05	56.17	1,222.7	30.2	53.9	61.5	1.33	1.13	4.61
1,258.0	9.67	56.98	1,254.3	33.1	58.2	66.7	1.98	1.94	2.53
1,290.0	10.04	56.52	1,285.8	36.1	62.8	72.2	1.18	1.16	-1.44
1,321.0	10.52	57.18	1,316.3	39.1	67.5	77.7	1.59	1.55	2.13
1,353.0	11.21	57.77	1,347.7	42.4	72.5	83.7	2.18	2.16	1.84
1,385.0	11.67	56.67	1,379.1	45.8	77.9	90.1	1.59	1.44	-3.44
1,417.0	12.30	56.23	1,410.4	49.5	83.4	96.7	1.99	1.97	-1.38
1,512.0	12.83	53.46	1,503.1	61.4	100.3	117.4	0.84	0.56	-2.92
1,607.0	12.61	53.49	1,595.8	73.8	117.1	138.3	0.23	-0.23	0.03
1,702.0	12.81	53.00	1,688.4	86.3	133.9	159.2	0.24	0.21	-0.52
1,797.0	12.40	51.27	1,781.2	99.1	150.2	179.9	0.59	-0.43	-1.82
1,892.0	11.23	52.54	1,874.1	111.1	165.5	199.3	1.26	-1.23	1.34
1,987.0	12.06	54.41	1,967.2	122.5	180.9	218.5	0.96	0.87	1.97
2,082.0	11.54	55.00	2,060.2	133.7	196.8	237.9	0.56	-0.55	0.62
2,177.0	12.48	53.93	2,153.1	145.2	212.9	257.7	1.02	0.99	-1.13
2,272.0	13.73	55.66	2,245.6	157.6	230.5	279.2	1.38	1.32	1.82
2,367.0	12.44	53.60	2,338.2	170.0	248.0	300.7	1.44	-1.36	-2.17
2,463.0	13.51	54.83	2,431.7	182.6	265.5	322.3	1.15	1.11	1.28
2,558.0	14.08	54.78	2,524.0	195.7	284.0	344.9	0.60	0.60	-0.05
2,652.0	13.34	54.43	2,615.3	208.6	302.2	367.2	0.79	-0.79	-0.37
2,747.0	13.07	52.91	2,707.8	221.4	319.7	388.9	0.46	-0.28	-1.60
2,842.0	12.22	51.77	2,800.5	234.1	336.1	409.6	0.93	-0.89	-1.20
2,937.0	11.23	51.31	2,893.5	246.1	351.3	428.9	1.05	-1.04	-0.48
3,032.0	10.50	48.21	2,986.8	257.7	364.9	446.7	0.98	-0.77	-3.26
3,127.0	11.80	54.04	3,080.0	269.2	379.3	465.0	1.81	1.37	6.14
3,223.0	11.89	55.07	3,173.9	280.6	395.3	484.7	0.24	0.09	1.07
3,318.0	12.28	55.07	3,266.8	292.0	411.6	504.6	0.41	0.41	0.00
3,413.0	12.02	52.23	3,359.7	303.8	427.7	524.6	0.69	-0.27	-2.99
3,507.0	13.45	53.58	3,451.4	316.3	444.2	545.3	1.55	1.52	1.44
3,602.0	13.29	53.11	3,543.8	329.4	461.9	567.3	0.20	-0.17	-0.49
3,698.0	12.88	53.20	3,637.3	342.5	479.3	589.0	0.43	-0.43	0.09
3,793.0	12.63	54.32	3,730.0	354.9	496.2	610.0	0.37	-0.26	1.18
3,888.0	12.22	56.58	3,822.8	366.5	513.0	630.4	0.67	-0.43	2.38
3,982.0	11.30	56.61	3,914.8	377.0	529.0	649.6	0.98	-0.98	0.03
4,078.0	11.45	57.75	4,008.9	387.3	544.9	668.5	0.28	0.16	1.19
4,173.0	11.74	57.37	4,102.0	397.5	561.0	687.6	0.32	0.31	-0.40
4,268.0	11.47	56.63	4,195.0	407.9	577.1	706.7	0.32	-0.28	-0.78
4,363.0	11.25	55.66	4,288.2	418.3	592.6	725.4	0.31	-0.23	-1.02
4,458.0	11.76	56.63	4,381.2	428.9	608.3	744.3	0.57	0.54	1.02
4,553.0	11.56	55.77	4,474.3	439.6	624.3	763.5	0.28	-0.21	-0.91
4,648.0	10.15	54.37	4,567.6	449.8	639.0	781.4	1.51	-1.48	-1.47



# HATHAWAY BURNHAM

## Survey Report



Company: NEWFIELD EXPLORATION  
 Project: USGS Myton SW (UT)  
 Site: SECTION 33 T8S R17E  
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 Wellbore: Wellbore #1  
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 MD Reference: V-28-8-17 @ 5125.0ft (RIG #2)  
 North Reference: True  
 Survey Calculation Method: Minimum Curvature  
 Database: EDM 2003.21 Single User Db

### Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
4,743.0	9.80	52.63	4,661.1	459.6	652.2	797.8	0.49	-0.37	-1.83
4,838.0	11.32	60.01	4,754.5	469.2	666.7	815.2	2.14	1.60	7.77
4,933.0	10.68	60.30	4,847.8	478.2	682.4	833.3	0.68	-0.67	0.31
5,028.0	11.67	58.91	4,941.0	487.5	698.3	851.6	1.08	1.04	-1.46
5,124.0	11.87	63.37	5,035.0	496.9	715.4	871.1	0.97	0.21	4.65
5,219.0	11.21	59.51	5,128.1	506.0	732.1	890.0	1.07	-0.69	-4.06
5,314.0	11.73	55.85	5,221.2	516.1	748.1	908.8	0.94	0.55	-3.85
5,392.4	12.47	53.60	5,297.8	525.6	761.5	925.3	1.12	0.95	-2.87
<b>V-28-8-17 TGT</b>									
5,409.0	12.63	53.16	5,314.0	527.8	764.4	928.9	1.12	0.96	-2.67
5,504.0	12.66	56.30	5,406.7	539.8	781.3	949.7	0.72	0.03	3.31
5,599.0	12.83	59.24	5,499.4	550.9	799.1	970.6	0.71	0.18	3.09
5,694.0	13.10	57.09	5,592.0	562.2	817.2	991.9	0.58	0.28	-2.26
5,789.0	12.88	56.10	5,684.5	573.9	835.0	1,013.2	0.33	-0.23	-1.04
5,884.0	12.26	54.23	5,777.2	585.7	852.0	1,033.9	0.78	-0.65	-1.97
5,979.0	12.61	52.47	5,870.0	597.9	868.4	1,054.3	0.54	0.37	-1.85
6,075.0	11.98	55.02	5,963.8	610.0	884.9	1,074.8	0.87	-0.66	2.66
6,170.0	11.32	55.44	6,056.9	621.0	900.6	1,093.9	0.70	-0.69	0.44
6,291.0	9.62	64.36	6,175.9	632.1	919.5	1,115.8	1.94	-1.40	7.37
6,345.0	9.62	64.36	6,229.1	636.0	927.6	1,124.7	0.00	0.00	0.00

### Wellbore Targets

Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (ft)	Easting (ft)	Latitude	Longitude
V-28-8-17 TGT	0.00	0.00	5,300.0	522.9	750.9	7,201,983.88	2,058,284.61	40° 4' 54.237 N	110° 0' 23.379 W
- hit/miss target									
- Shape									
- actual wellpath misses by 11.1ft at 5392.4ft MD (5297.8 TVD, 525.6 N, 761.5 E)									
- Circle (radius 75.0)									

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

```

H      HEADER      INFORMATION -----
H      COMPANY    :      NEWFIELD  EXPLORATION
H      FIELD      :      USGS      Myton   SW      (UT)
H      SITE       :      SECTION      33 T8S      R17E
H      WELL       :      V-28-8-17
H      WELLPATH:  Wellbore   #1
H      DEPTHUNT:  ft
H      SURVDATE:      8/10/2009
H      DECLINATION CORR.
H      =          10.59 TO          GRIDH-----
H      WELL      INFORMATION
H      WELL      EW      MAP      :      2057543
H      WELL      NS      MAP      :      7201449
H      DATUM     ELEVN     :      5125
H      VSECT     ANGLE     :      55.15
H      VSECT     NORTH     :      0
H      VSECT     EAST      :      0

```

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H-----
H      SURVEY     TYPE      INFORMATION
H      449 -      6345 SURVEY #1      :      MWD

```

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H      SURVEY     LIST
MD     INC      AZI      TVD      NS      EW      VS      DLS

```

MD	INC	AZI	TVD	NS	EW	VS	DLS
	0	0	0	0	0	0	0
	449	0.68	144.13	448.99	-2.16	1.56	0.05
	480	0.57	120.9	479.99	-2.39	1.8	0.11
	510	0.79	102.92	509.99	-2.51	2.13	0.31
	541	0.94	74.21	540.98	-2.49	2.58	0.7
	571	1.41	64.67	570.98	-2.26	3.15	1.29
	602	1.49	69.09	601.97	-1.96	3.88	2.06
	633	2.24	65.68	632.95	-1.56	4.8	3.05
	663	2.75	60.85	662.92	-0.97	5.97	4.34
	694	2.81	60.69	693.88	-0.24	7.28	5.84
	725	3.25	56.32	724.84	0.62	8.67	7.47
	755	3.47	55.64	754.79	1.61	10.13	9.23
	786	3.8	56.41	785.73	2.7	11.76	11.2
	816	4.24	59.44	815.65	3.82	13.54	13.3
	847	4.59	57.92	846.56	5.06	15.58	15.68
	878	5.3	59.48	877.45	6.44	17.87	18.34
	909	5.49	58.08	908.31	7.96	20.36	21.25
	941	5.8	60.14	940.15	9.57	23.06	24.39
	973	6.15	57.13	971.98	11.31	25.9	27.72
	1004	6.39	58.08	1002.79	13.12	28.76	31.1
	1036	6.81	56.23	1034.58	15.12	31.85	34.77
	1068	7.47	56.41	1066.33	17.32	35.16	38.75
	1099	7.87	56.5	1097.06	19.61	38.61	42.89
	1131	8.22	54.08	1128.74	22.16	42.29	47.36

1163	8.37	55.66	1160.41	24.81	46.06	51.98	0.85
1195	8.7	54.74	1192.05	27.53	49.96	56.73	1.12
1226	9.05	56.17	1222.68	30.24	53.9	61.51	1.33
1258	9.67	56.98	1254.25	33.1	58.25	66.71	1.98
1290	10.04	56.52	1285.78	36.1	62.83	72.19	1.18
1321	10.52	57.18	1316.28	39.13	67.46	77.72	1.59
1353	11.21	57.77	1347.71	42.37	72.54	83.75	2.18
1385	11.67	56.67	1379.07	45.81	77.88	90.09	1.59
1417	12.3	56.23	1410.38	49.48	83.42	96.73	1.99
1512	12.83	53.46	1503.1	61.39	100.3	117.39	0.84
1607	12.61	53.49	1595.77	73.84	117.11	138.3	0.23
1702	12.81	53	1688.44	86.34	133.86	159.19	0.24
1797	12.4	51.27	1781.15	99.06	150.23	179.89	0.59
1892	11.23	52.54	1874.14	111.07	165.53	199.31	1.26
1987	12.06	54.41	1967.18	122.47	180.94	218.47	0.96
2082	11.54	55	2060.18	133.7	196.8	237.9	0.56
2177	12.48	53.93	2153.1	145.2	212.88	257.67	1.02
2272	13.73	55.66	2245.62	157.6	230.48	279.2	1.38
2367	12.44	53.6	2338.15	170.03	248.03	300.71	1.44
2463	13.51	54.83	2431.7	182.63	265.52	322.26	1.15
2558	14.08	54.78	2523.96	195.68	284.03	344.91	0.6
2652	13.34	54.43	2615.28	208.59	302.19	367.19	0.79
2747	13.07	52.91	2707.77	221.44	319.67	388.88	0.46
2842	12.22	51.77	2800.46	234.14	336.14	409.65	0.93
2937	11.23	51.31	2893.48	246.14	351.26	428.92	1.05
3032	10.5	48.21	2986.78	257.69	364.94	446.74	0.98
3127	11.8	54.04	3079.98	269.17	379.25	465.04	1.81
3223	11.89	55.07	3173.94	280.59	395.31	484.75	0.24
3318	12.28	55.07	3266.84	291.98	411.61	504.64	0.41
3413	12.02	52.23	3359.71	303.83	427.71	524.62	0.69
3507	13.45	53.58	3451.39	316.31	444.25	545.32	1.55
3602	13.29	53.11	3543.82	329.43	461.87	567.28	0.2
3698	12.88	53.2	3637.33	342.46	479.27	589	0.43
3793	12.63	54.32	3729.98	354.86	496.18	609.97	0.37
3888	12.22	56.58	3822.76	366.46	513.01	630.4	0.67
3982	11.3	56.61	3914.78	377	529	649.56	0.98
4078	11.45	57.75	4008.9	387.26	544.91	668.48	0.28
4173	11.74	57.37	4101.96	397.51	561.03	687.56	0.32
4268	11.47	56.63	4195.02	407.91	577.06	706.66	0.32
4363	11.25	55.66	4288.16	418.34	592.6	725.36	0.31
4458	11.76	56.63	4381.25	428.89	608.33	744.31	0.57
4553	11.56	55.77	4474.29	439.57	624.29	763.5	0.28
4648	10.15	54.37	4567.58	449.8	638.96	781.39	1.51
4743	9.8	52.63	4661.15	459.58	652.19	797.84	0.49
4838	11.32	60.01	4754.54	469.15	666.69	815.21	2.14
4933	10.68	60.3	4847.79	478.17	682.42	833.27	0.68
5028	11.67	58.91	4940.99	487.5	698.29	851.62	1.08

5124	11.87	63.37	5034.98	496.94	715.43	871.08	0.97
5219	11.21	59.51	5128.06	506	732.12	889.96	1.07
5314	11.73	55.85	5221.16	516.11	748.07	908.83	0.94
5409	12.63	53.16	5314.02	527.76	764.38	928.86	1.12
5504	12.66	56.3	5406.72	539.76	781.35	949.65	0.72
5599	12.83	59.24	5499.38	550.93	799.07	970.58	0.71
5694	13.1	57.09	5591.96	562.18	817.18	991.86	0.58
5789	12.88	56.1	5684.53	573.93	835	1013.21	0.33
5884	12.26	54.23	5777.25	585.73	851.98	1033.88	0.78
5979	12.61	52.47	5870.02	597.94	868.38	1054.32	0.54
6075	11.98	55.02	5963.82	610.04	884.86	1074.75	0.87
6170	11.32	55.44	6056.86	620.98	900.61	1093.94	0.7
6291	9.62	64.36	6175.85	632.1	919.51	1115.8	1.94
6345	9.62	64.36	6229.09	636	927.65	1124.7	0