

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL OR REENTER

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

1a. Type of Work: <input checked="" type="checkbox"/> DRILL <input type="checkbox"/> REENTER		5. Lease Serial No. UTU-77234
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. Blackjack Unit
3a. Address Route #3 Box 3630, Myton UT 84052		8. Lease Name and Well No. Blackjack Federal N-33-8-17
3b. Phone No. (include area code) (435) 646-3721		9. API Well No. 43-013-34071
4. Location of Well (Report location clearly and in accordance with any State requirements. *) At surface NW/SW 2084' FSL 750' FWL At proposed prod. zone 2655' FSL 1210' FWL		10. Field and Pool, or Exploratory Monument Butte
14. Distance in miles and direction from nearest town or post office* Approximatley 11.9 miles southeast of Myton, Utah		11. Sec., T., R., M., or Blk. and Survey or Area Sec. 33, T8S R17E
15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any) Approx. 1210' f/lse, 1210' f/unit	16. No. of Acres in lease 480.00	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. 1058'	19. Proposed Depth 6240'	20. BLM/BIA Bond No. on file WYB000493
21. Elevations (Show whether DF, KDB, RT, GL, etc.) 5163' GL	22. Approximate date work will start* 4th 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 	Name (Printed/Typed) Mandie Crozier	Date 8/22/08
Title Regulatory Specialist		
Approved by (Signature) 	Name (Printed/Typed) BRADLEY G. HILL	Date 09-10-08
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  
583778X  
44361014  
40.072905  
-110.017520

BHL  
583917X  
44362774  
40.074478  
-110.015866

Federal Approval of this  
Action is Necessary

RECEIVED  
AUG 28 2008  
DIV. OF OIL, GAS & MINING



**NEWFIELD PRODUCTION COMPANY  
BLACKJACK FEDERAL N-33-8-17  
AT SURFACE: NW/SW 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' – 1555'
Green River	1555'
Wasatch	6240'

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

Green River Formation 1555' – 6240' - 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  
BLACKJACK FEDERAL N-33-8-17  
AT SURFACE: NW/SW 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 Blackjack Federal N-33-8-17 located in the NW 1/4 SW 1/4 Section 33, T8S, R17E, Duchesne County, Utah:

Proceed southwesterly out of Myton, Utah along Highway 40 - 1.4 miles  $\pm$  to the junction of this highway and UT State Hwy 53; proceed southeasterly - 9.8 miles  $\pm$  to it's junction with an existing dirt road to the northeast; proceed northeasterly - 0.6 miles  $\pm$  to it's junction with an existing road to the northwest; proceed northwesterly - 0.1 miles  $\pm$  to it's junction with the beginning of the access road to the existing Tar Sands Federal 12-33-8-17 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 12-33-8-17 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 12-33-8-17 well pad. There will be a pumping unit and a short flow line added to the tank battery for the proposed Blackjack Federal N-33-8-17. 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 Blackjack Federal N-33-8-17 will be drilled off of the existing Tar Sands Federal 12-33-8-17 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 120' of disturbed area be granted in Lease UTU-67170 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 this area are attached. MOAC Report #08-168, 8/5/08. Paleontological Resource Survey prepared by, Wade E. Miller, 6/25/08. 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), State of Utah approved surface disposal facilities, or Federally approved surface disposal facilities.

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

None for the proposed Blackjack Federal N-33-8-17.

**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)

Squirrel Tail	<i>Elymus Elymoides</i>	6 lbs/acre
Siberian Wheatgrass	<i>Agropyron Fragile</i>	2 lbs/acre
Gardner Saltbush	<i>Atriplex Gardneri</i>	1 lbs/acre
Shadscale	<i>Atriplex Confertifolia</i>	1 lbs/acre
Fourwing Saltbush	<i>Atriplex Canescens</i>	1 lbs/acre
Scarlet Globemallow	<i>Sphaeralcea Conccinea</i>	0.20 lbs/acre
Forage Kochia	<i>Kochia Prostrata</i>	0.20 lbs/acre

**Details of the On-Site Inspection**

The proposed Blackjack Federal N-33-8-17 was on-sited on 6/11/08. The following were present; Kevan Stevens (Newfield Production ), Michael Cutler (Bureau of Land Management), Brandon McDonald (Bureau of Land Management ), and James Herford (Bureau of Land Management). Weather conditions were clear and ground cover was 100% open.

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

Representative

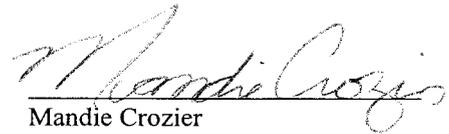
Name: Dave Allred  
Address: Route #3 Box 3630  
Myton, UT 84052  
Telephone: (435) 646-3721

Certification

Please be advised that NEWFIELD PRODUCTION COMPANY is considered to be the operator of well #N-33-8-17 NW/SW Section 33, Township 8S, Range 17E: Lease UTU-77234 Duchesne County, Utah: and is responsible under the terms and conditions of the lease for the operations conducted upon the leased lands. Bond coverage is provided by, Federal Bond #WYB000493.

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

8/22/08  
Date

  
Mandie Crozier  
Regulatory Specialist  
Newfield Production Company



**Scientific Drilling**  
Rocky Mountain Operations

Project: Duchesne County, UT NAD83 UTC  
Site: Blackjack  
Well: Blackjack Unit N-33-8-17  
Wellbore: OH  
Design: Plan #1

Newfield Exploration Co.

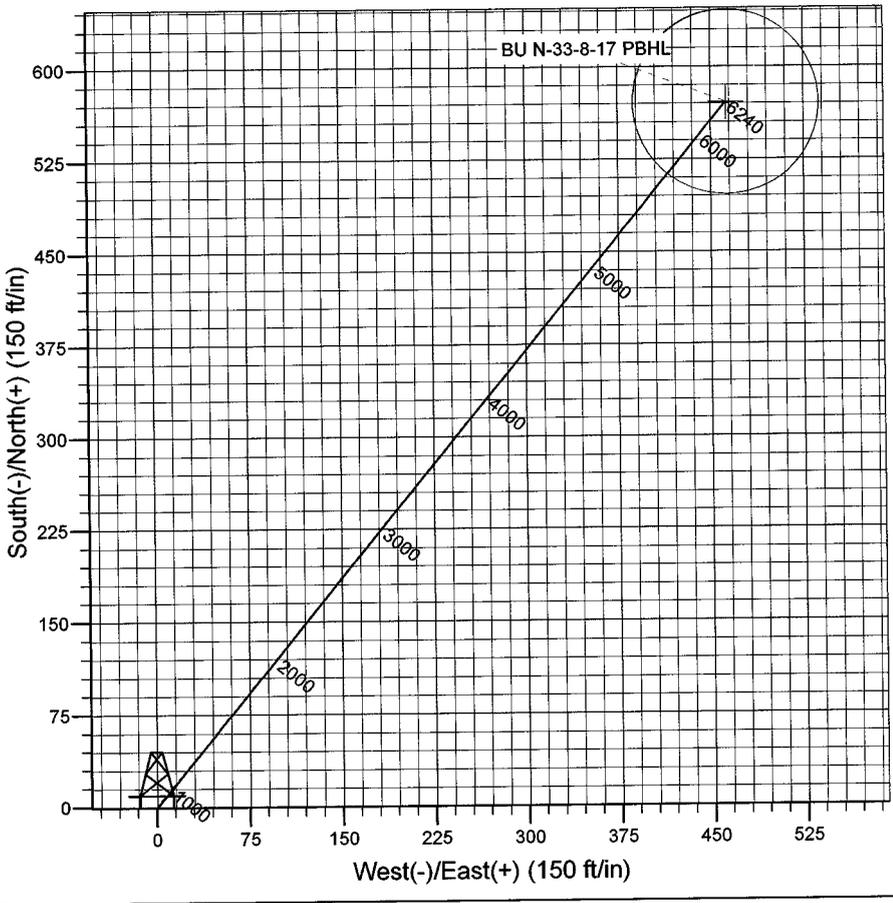
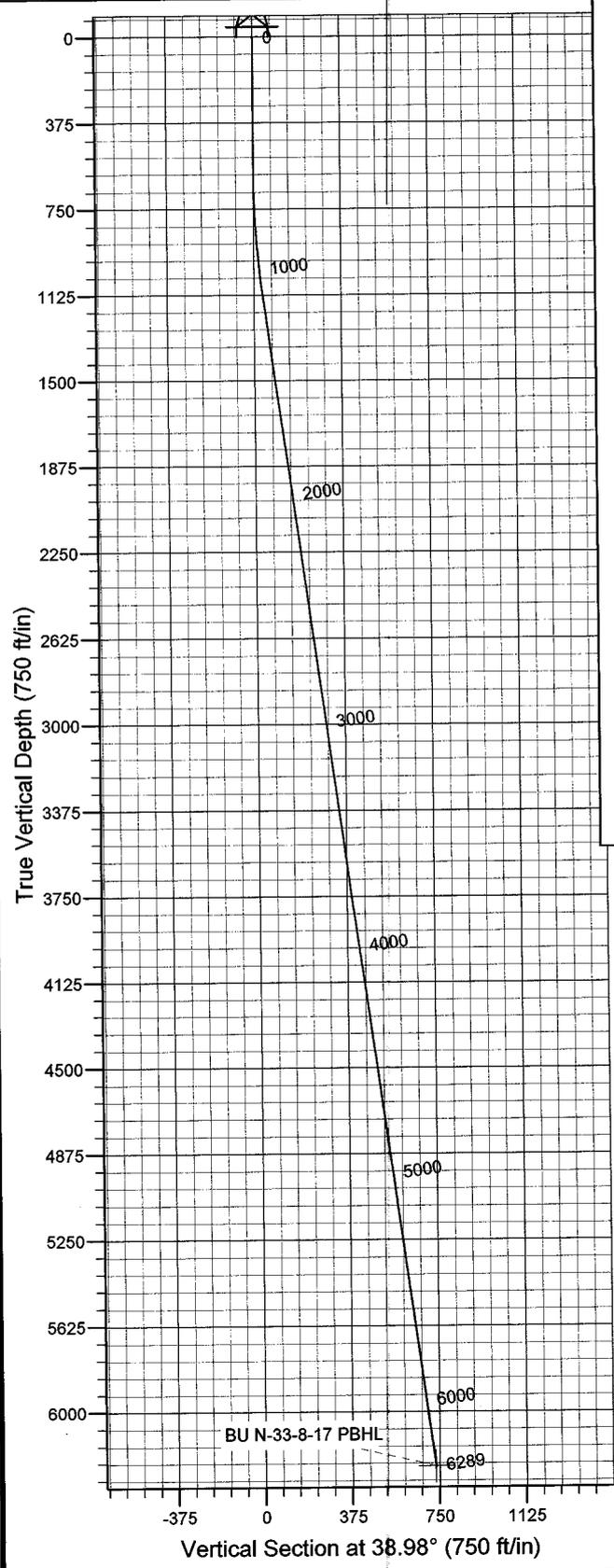


Azimuths to True North  
Magnetic North: 11.67°

Magnetic Field  
Strength: 52613.6snT  
Dip Angle: 65.91°  
Date: 2008-06-25  
Model: IGRF2005-10

WELL DETAILS: Blackjack Unit N-33-8-17

	GL 5163' & RKB 12' @ 5175.00ft (Ground Level)	5163.00
+N/-S	Northing	Longitude
0.00	7198724.50	110° 1' 5.840 W
+E/-W	Easting	Latitude
0.00	2055042.32	40° 4' 22.420 N



Plan: Plan #1 (Blackjack Unit N-33-8-17/OH)  
Created By: Julie Cruse Date: 2008-06-25  
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

SECTION DETAILS

MD	Inc	Azi	TVD	+N/-S	+E/-W	DLeg	TFace	VSec	Target
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
600.00	0.00	0.00	600.00	0.00	0.00	0.00	0.00	0.00	
1118.41	7.78	38.98	1116.82	27.31	22.10	1.50	38.98	35.13	
6289.14	7.78	38.98	6240.00	571.16	462.19	0.00	0.00	734.74	BU N-33-8-17 PBHL

# **Newfield Exploration Co.**

**Duchesne County, UT NAD83 UTC**

**Blackjack**

**Blackjack Unit N-33-8-17**

**OH**

**Plan: Plan #1**

## **Standard Planning Report**

**25 June, 2008**

# Scientific Drilling

## Planning Report

**Database:** EDM 2003.16 Multi-User Db  
**Company:** Newfield Exploration Co.  
**Project:** Duchesne County, UT NAD83 UTC  
**Site:** Blackjack  
**Well:** Blackjack Unit N-33-8-17  
**Wellbore:** OH  
**Design:** Plan #1

**Local Co-ordinate Reference:** Well Blackjack Unit N-33-8-17  
**TVD Reference:** GL 5163' & RKB 12' @ 5175.00ft (Ground Level)  
**MD Reference:** GL 5163' & RKB 12' @ 5175.00ft (Ground Level)  
**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>	Blackjack,				
<b>Site Position:</b>		<b>Northing:</b>	7,188,214.16 ft	<b>Latitude:</b>	40° 2' 37.900 N
<b>From:</b>	Lat/Long	<b>Easting:</b>	2,059,050.06 ft	<b>Longitude:</b>	110° 0' 16.550 W
<b>Position Uncertainty:</b>	0.00 ft	<b>Slot Radius:</b>	in	<b>Grid Convergence:</b>	0.96 °

<b>Well</b>	Blackjack Unit N-33-8-17, 2084' FSL 750' FWL Sec 33 T8S R17E					
<b>Well Position</b>	<b>+N/-S</b>	0.00 ft	<b>Northing:</b>	7,198,724.50 ft	<b>Latitude:</b>	40° 4' 22.420 N
	<b>+E/-W</b>	0.00 ft	<b>Easting:</b>	2,055,042.32 ft	<b>Longitude:</b>	110° 1' 5.840 W
<b>Position Uncertainty</b>		0.00 ft	<b>Wellhead Elevation:</b>	ft	<b>Ground Level:</b>	5,163.00 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	2008-06-25	(°)	(°)	(nT)
			11.67	65.91	52,614

<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	38.98	

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	
1,118.41	7.78	38.98	1,116.82	27.31	22.10	1.50	1.50	0.00	38.98	
6,289.14	7.78	38.98	6,240.00	571.16	462.19	0.00	0.00	0.00	0.00	BU N-33-8-17 PBHL

# Scientific Drilling

## Planning Report

**Database:** EDM 2003.16 Multi-User Db  
**Company:** Newfield Exploration Co.  
**Project:** Duchesne County, UT NAD83 UTC  
**Site:** Blackjack  
**Well:** Blackjack Unit N-33-8-17  
**Wellbore:** OH  
**Design:** Plan #1

**Local Co-ordinate Reference:** Well Blackjack Unit N-33-8-17  
**TVD Reference:** GL 5163' & RKB 12' @ 5175.00ft (Ground Level)  
**MD Reference:** GL 5163' & RKB 12' @ 5175.00ft (Ground Level)  
**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	38.98	699.99	1.02	0.82	1.31	1.50	1.50	0.00
800.00	3.00	38.98	799.91	4.07	3.29	5.23	1.50	1.50	0.00
900.00	4.50	38.98	899.69	9.15	7.41	11.77	1.50	1.50	0.00
1,000.00	6.00	38.98	999.27	16.27	13.16	20.92	1.50	1.50	0.00
1,100.00	7.50	38.98	1,098.57	25.40	20.56	32.68	1.50	1.50	0.00
1,118.41	7.78	38.98	1,116.82	27.31	22.10	35.13	1.50	1.50	0.00
1,200.00	7.78	38.98	1,197.66	35.89	29.04	46.16	0.00	0.00	0.00
1,300.00	7.78	38.98	1,296.74	46.40	37.55	59.69	0.00	0.00	0.00
1,400.00	7.78	38.98	1,395.82	56.92	46.06	73.23	0.00	0.00	0.00
1,500.00	7.78	38.98	1,494.90	67.44	54.57	86.76	0.00	0.00	0.00
1,600.00	7.78	38.98	1,593.98	77.96	63.08	100.29	0.00	0.00	0.00
1,700.00	7.78	38.98	1,693.06	88.48	71.60	113.82	0.00	0.00	0.00
1,800.00	7.78	38.98	1,792.14	98.99	80.11	127.35	0.00	0.00	0.00
1,900.00	7.78	38.98	1,891.22	109.51	88.62	140.88	0.00	0.00	0.00
2,000.00	7.78	38.98	1,990.30	120.03	97.13	154.41	0.00	0.00	0.00
2,100.00	7.78	38.98	2,089.38	130.55	105.64	167.94	0.00	0.00	0.00
2,200.00	7.78	38.98	2,188.46	141.07	114.15	181.47	0.00	0.00	0.00
2,300.00	7.78	38.98	2,287.54	151.58	122.66	195.00	0.00	0.00	0.00
2,400.00	7.78	38.98	2,386.62	162.10	131.17	208.53	0.00	0.00	0.00
2,500.00	7.78	38.98	2,485.71	172.62	139.69	222.06	0.00	0.00	0.00
2,600.00	7.78	38.98	2,584.79	183.14	148.20	235.59	0.00	0.00	0.00
2,700.00	7.78	38.98	2,683.87	193.66	156.71	249.12	0.00	0.00	0.00
2,800.00	7.78	38.98	2,782.95	204.17	165.22	262.65	0.00	0.00	0.00
2,900.00	7.78	38.98	2,882.03	214.69	173.73	276.18	0.00	0.00	0.00
3,000.00	7.78	38.98	2,981.11	225.21	182.24	289.71	0.00	0.00	0.00
3,100.00	7.78	38.98	3,080.19	235.73	190.75	303.24	0.00	0.00	0.00
3,200.00	7.78	38.98	3,179.27	246.25	199.26	316.77	0.00	0.00	0.00
3,300.00	7.78	38.98	3,278.35	256.76	207.78	330.30	0.00	0.00	0.00
3,400.00	7.78	38.98	3,377.43	267.28	216.29	343.83	0.00	0.00	0.00
3,500.00	7.78	38.98	3,476.51	277.80	224.80	357.36	0.00	0.00	0.00
3,600.00	7.78	38.98	3,575.59	288.32	233.31	370.89	0.00	0.00	0.00
3,700.00	7.78	38.98	3,674.67	298.84	241.82	384.42	0.00	0.00	0.00
3,800.00	7.78	38.98	3,773.75	309.35	250.33	397.95	0.00	0.00	0.00
3,900.00	7.78	38.98	3,872.83	319.87	258.84	411.48	0.00	0.00	0.00
4,000.00	7.78	38.98	3,971.91	330.39	267.35	425.01	0.00	0.00	0.00
4,100.00	7.78	38.98	4,070.99	340.91	275.87	438.54	0.00	0.00	0.00
4,200.00	7.78	38.98	4,170.07	351.43	284.38	452.07	0.00	0.00	0.00
4,300.00	7.78	38.98	4,269.15	361.94	292.89	465.60	0.00	0.00	0.00
4,400.00	7.78	38.98	4,368.23	372.46	301.40	479.13	0.00	0.00	0.00
4,500.00	7.78	38.98	4,467.31	382.98	309.91	492.66	0.00	0.00	0.00
4,600.00	7.78	38.98	4,566.39	393.50	318.42	506.19	0.00	0.00	0.00
4,700.00	7.78	38.98	4,665.47	404.02	326.93	519.72	0.00	0.00	0.00
4,800.00	7.78	38.98	4,764.56	414.53	335.44	533.26	0.00	0.00	0.00
4,900.00	7.78	38.98	4,863.64	425.05	343.95	546.79	0.00	0.00	0.00
5,000.00	7.78	38.98	4,962.72	435.57	352.47	560.32	0.00	0.00	0.00
5,100.00	7.78	38.98	5,061.80	446.09	360.98	573.85	0.00	0.00	0.00
5,200.00	7.78	38.98	5,160.88	456.61	369.49	587.38	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:** Blackjack  
**Well:** Blackjack Unit N-33-8-17  
**Wellbore:** OH  
**Design:** Plan #1

**Local Co-ordinate Reference:** Well Blackjack Unit N-33-8-17  
**TVD Reference:** GL 5163' & RKB 12' @ 5175.00ft (Ground Level)  
**MD Reference:** GL 5163' & RKB 12' @ 5175.00ft (Ground Level)  
**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	7.78	38.98	5,259.96	467.12	378.00	600.91	0.00	0.00	0.00
5,400.00	7.78	38.98	5,359.04	477.64	386.51	614.44	0.00	0.00	0.00
5,500.00	7.78	38.98	5,458.12	488.16	395.02	627.97	0.00	0.00	0.00
5,600.00	7.78	38.98	5,557.20	498.68	403.53	641.50	0.00	0.00	0.00
5,700.00	7.78	38.98	5,656.28	509.20	412.04	655.03	0.00	0.00	0.00
5,800.00	7.78	38.98	5,755.36	519.71	420.56	668.56	0.00	0.00	0.00
5,900.00	7.78	38.98	5,854.44	530.23	429.07	682.09	0.00	0.00	0.00
6,000.00	7.78	38.98	5,953.52	540.75	437.58	695.62	0.00	0.00	0.00
6,100.00	7.78	38.98	6,052.60	551.27	446.09	709.15	0.00	0.00	0.00
6,200.00	7.78	38.98	6,151.68	561.79	454.60	722.68	0.00	0.00	0.00
6,289.14	7.78	38.98	6,240.00	571.16	462.19	734.74	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
BU N-33-8-17 PBHL - plan hits target center - Circle (radius 75.00)	0.00	0.00	6,240.00	571.16	462.19	7,199,303.24	2,055,494.98	40° 4' 28.065 N	110° 0' 59.894 W

# NEWFIELD PRODUCTION COMPANY

## WELL PAD INTERFERENCE PLAT

BLACKJACK UNIT N-33-8-17 (Proposed Well)

BLACKJACK UNIT 12-33-8-17 (Existing Well)

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

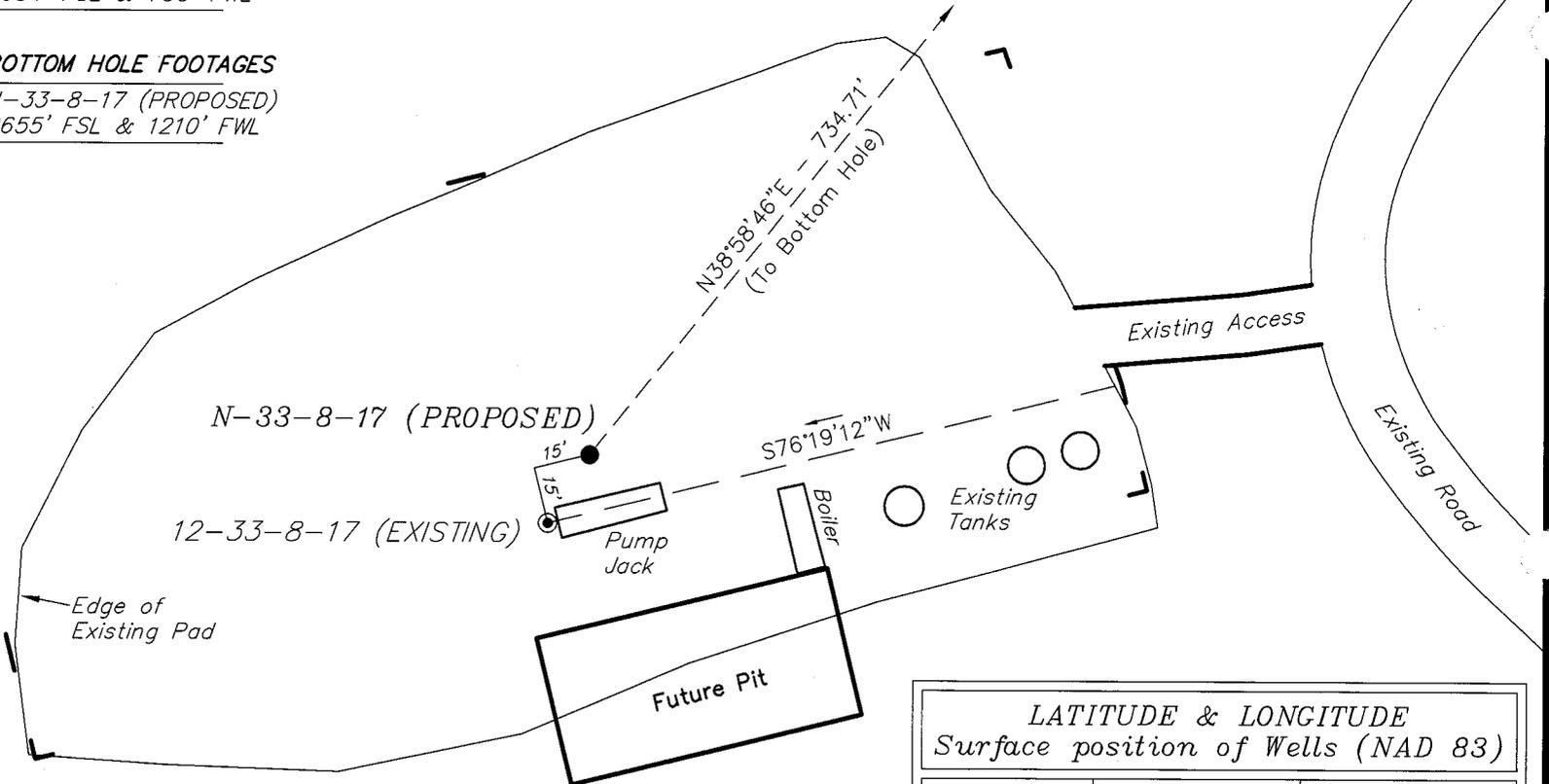


### TOP HOLE FOOTAGES

N-33-8-17 (PROPOSED)  
2084' FSL & 750' FWL

### BOTTOM HOLE FOOTAGES

N-33-8-17 (PROPOSED)  
2655' FSL & 1210' FWL



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

### RELATIVE COORDINATES From top hole to bottom hole

WELL	NORTH	EAST
N-33-8-17	571'	462'

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

WELL	LATITUDE	LONGITUDE
N-33-8-17	40° 04' 22.42"	110° 01' 05.84"
12-33-8-17	40° 04' 22.24"	110° 01' 05.98"

SURVEYED BY: T.H.      DATE SURVEYED: 03-10-08  
 DRAWN BY: F.T.M.      DATE DRAWN: 03-24-08  
 SCALE: 1" = 50'      REVISED:

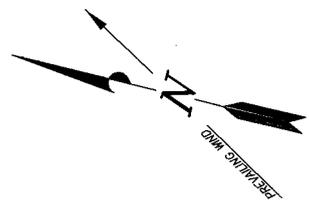
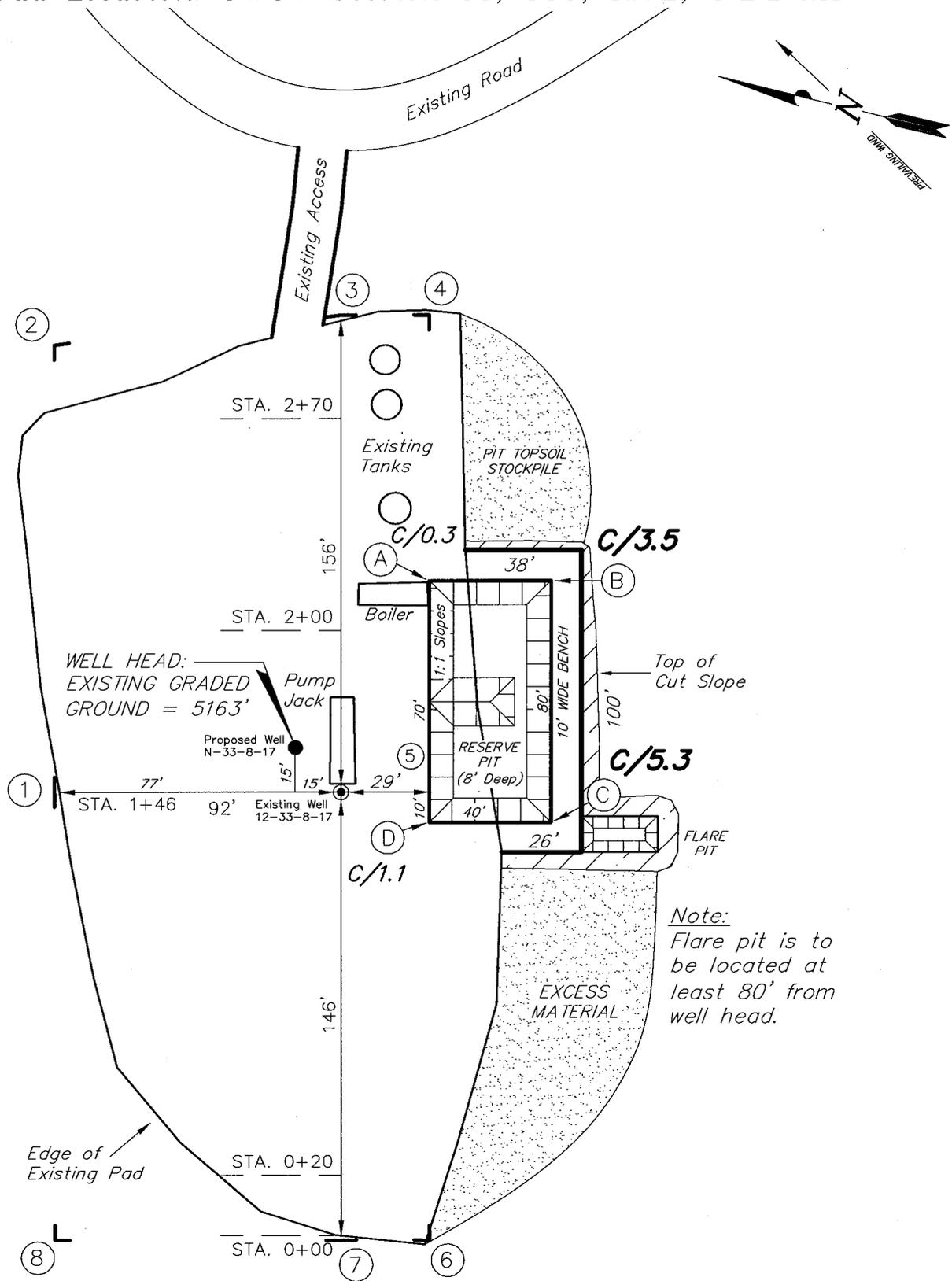
**Tri State** (435) 781-2501  
 Land Surveying, Inc.  
 180 NORTH VERNAL AVE. VERNAL, UTAH 84078

# NEWFIELD PRODUCTION COMPANY

BLACKJACK UNIT N-33-8-17 (Proposed Well)

BLACKJACK UNIT 12-33-8-17 (Existing Well)

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



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

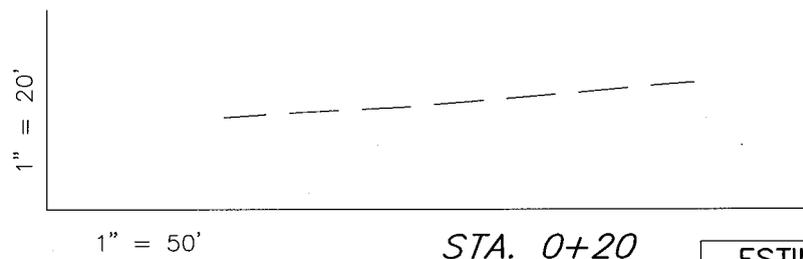
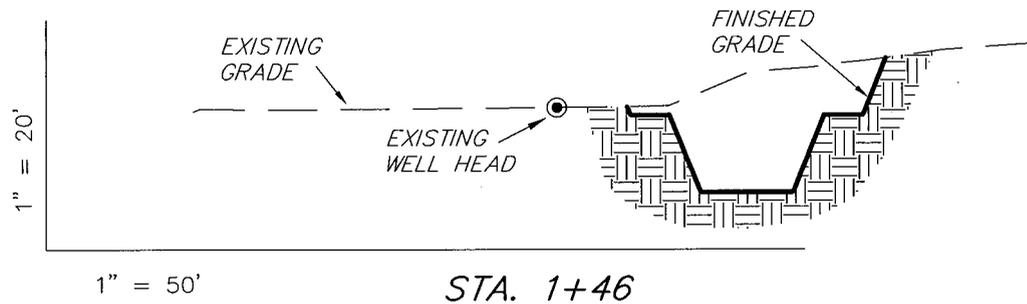
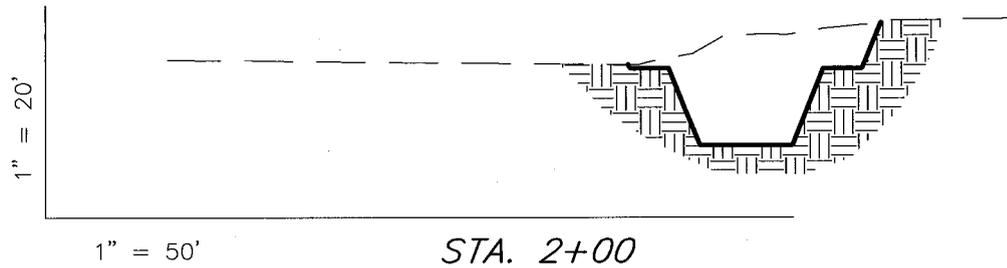
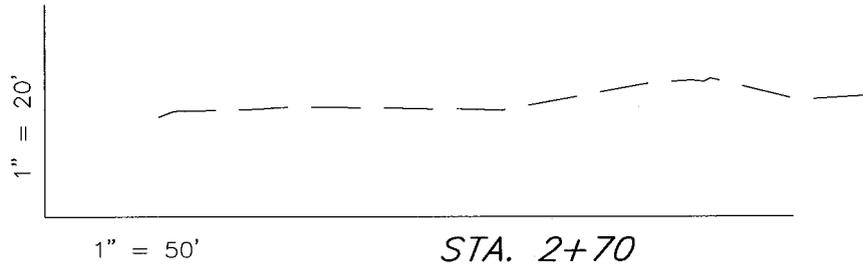
SURVEYED BY: T.H.	DATE SURVEYED: 03-10-08	 <b>Tri State</b> Land Surveying, Inc. 180 NORTH VERNAL AVE. VERNAL, UTAH 84078	(435) 781-2501
DRAWN BY: F.T.M.	DATE DRAWN: 03-24-08		
SCALE: 1" = 50'	REVISED:		

# NEWFIELD PRODUCTION COMPANY

## CROSS SECTIONS

*BLACKJACK UNIT N-33-8-17 (Proposed Well)*

*BLACKJACK UNIT 12-33-8-17 (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	900	0	Topsoil is not included in Pad Cut	900
PIT	640	0		640
<b>TOTALS</b>	<b>1,540</b>	<b>0</b>	<b>140</b>	<b>1,540</b>

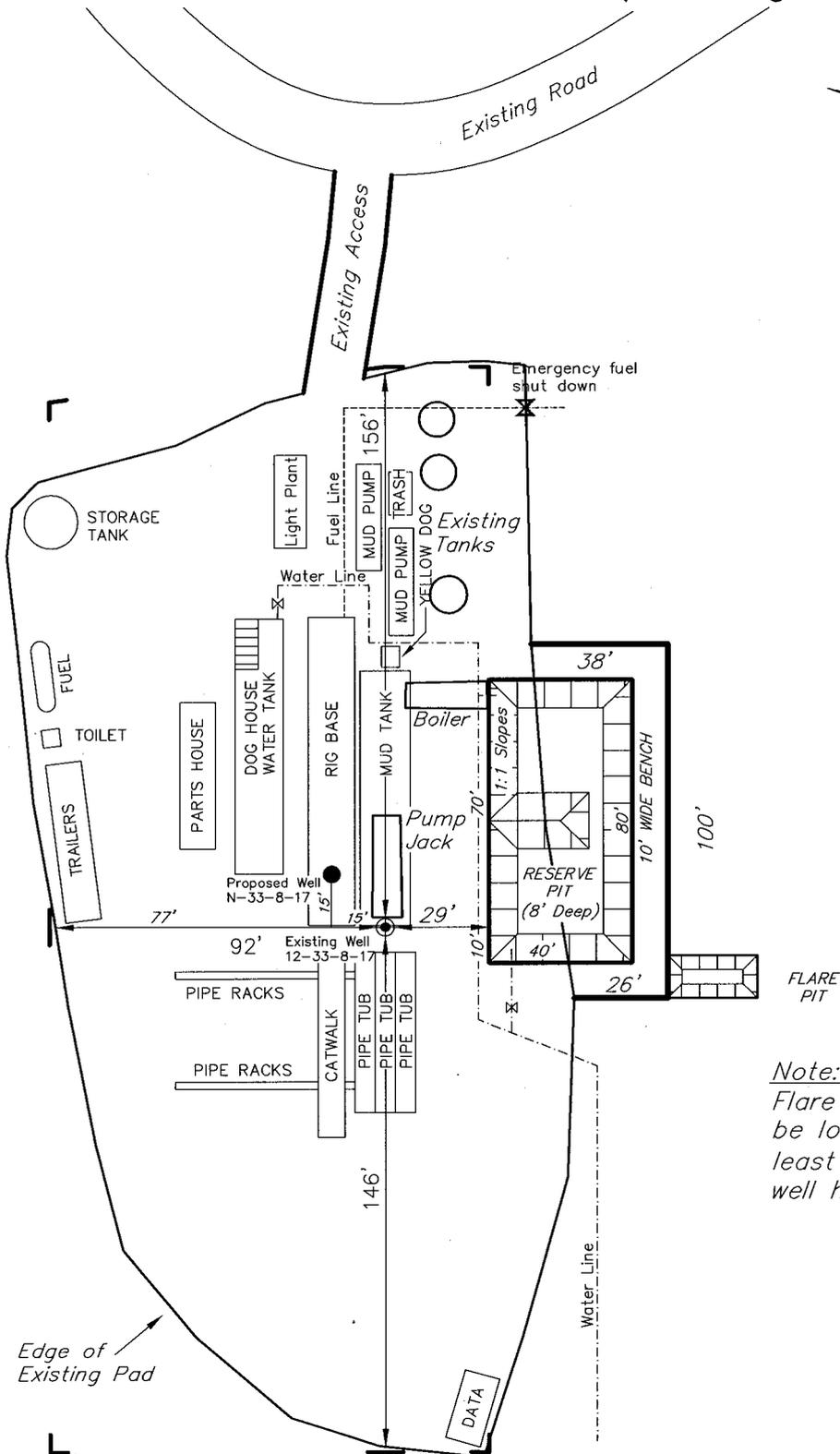
SURVEYED BY: T.H.	DATE SURVEYED: 03-10-08	
DRAWN BY: F.T.M.	DATE DRAWN: 03-24-08	
SCALE: 1" = 50'	REVISED:	

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

# NEWFIELD PRODUCTION COMPANY

## TYPICAL RIG LAYOUT

BLACKJACK UNIT N-33-8-17 (Proposed Well)  
 BLACKJACK UNIT 12-33-8-17 (Existing Well)



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

SURVEYED BY: T.H.	DATE SURVEYED: 03-10-08
DRAWN BY: F.T.M.	DATE DRAWN: 03-24-08
SCALE: 1" = 50'	REVISED:

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

# Newfield Production Company Proposed Site Facility Diagram

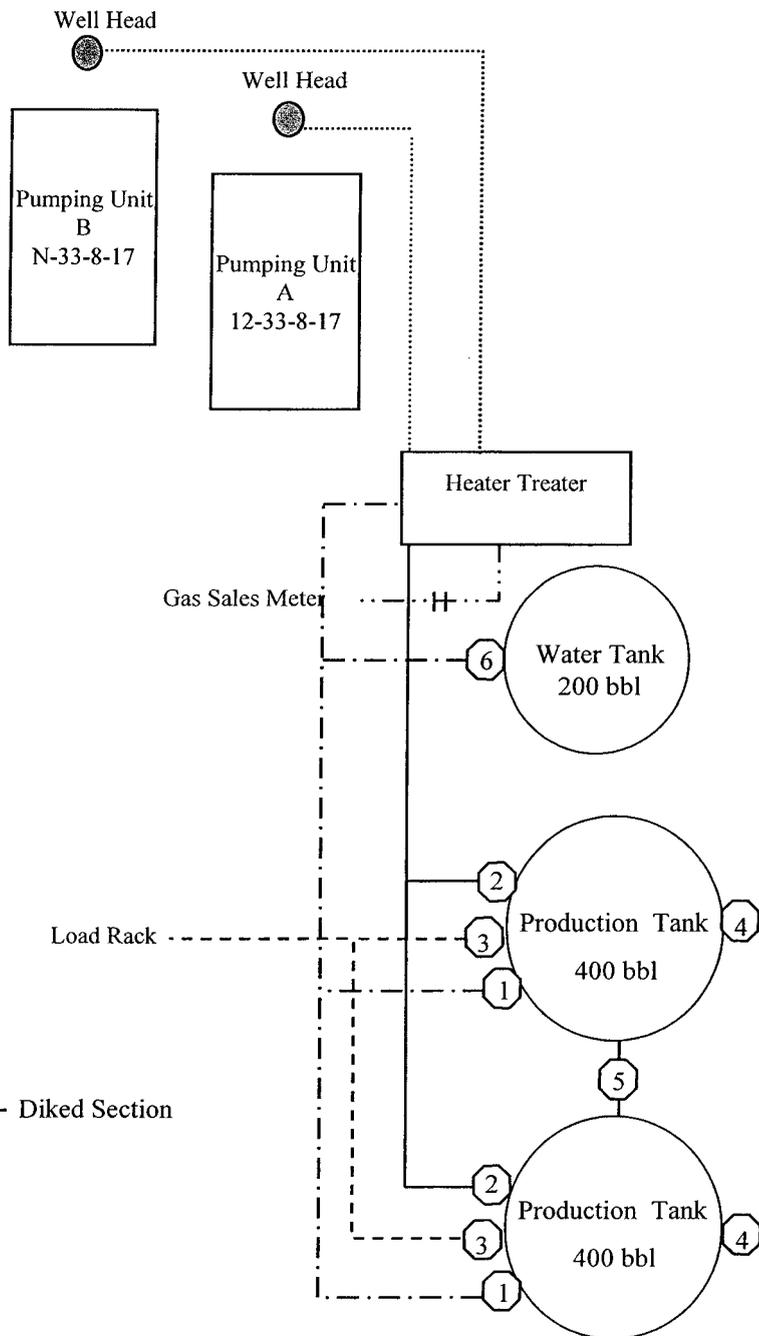
Blackjack Federal N-33-8-17

From the 12-33-8-17 Location

NW/SW Sec. 33 T8S, R17E

Duchesne County, Utah

UTU-77234

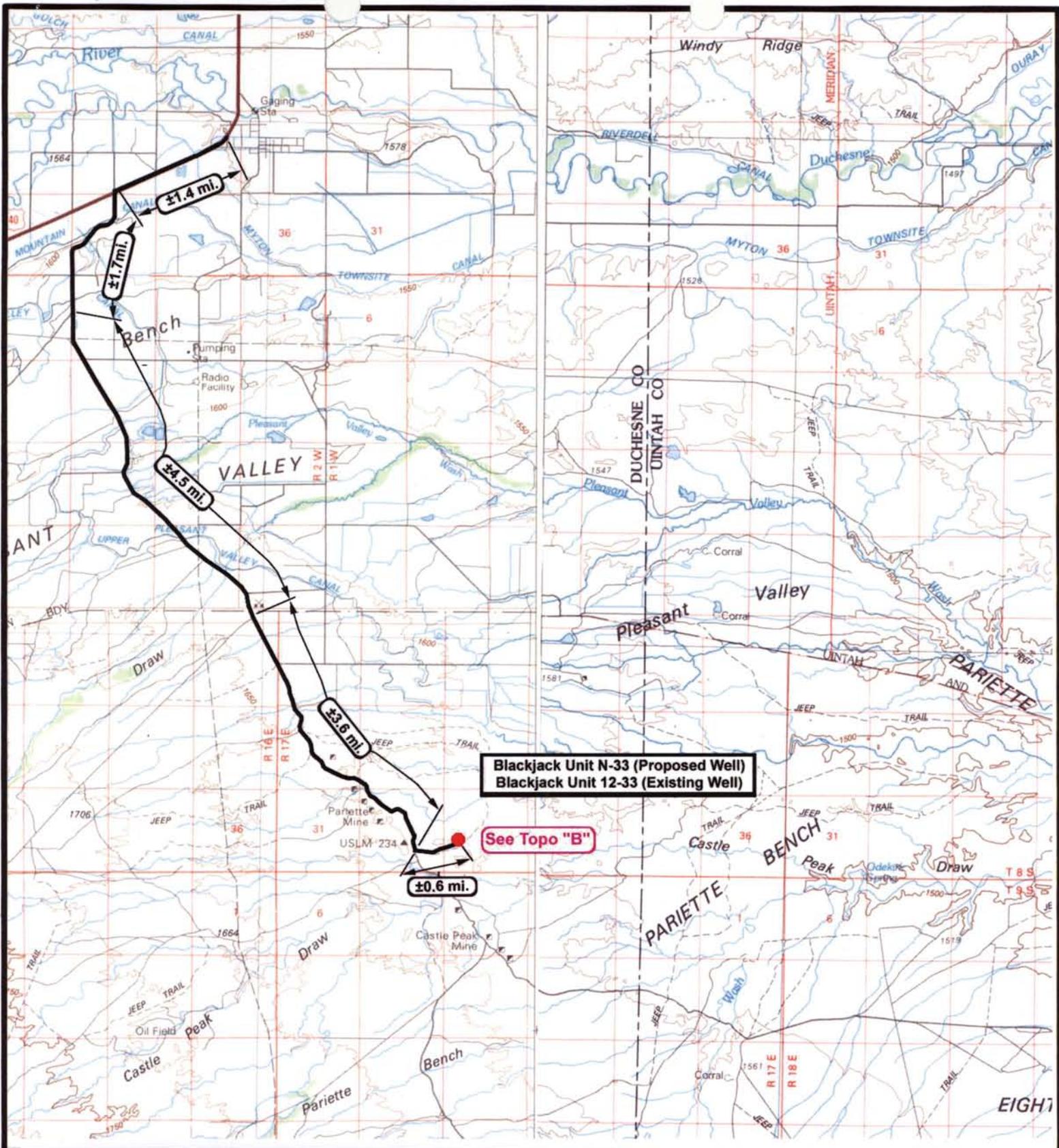


Site Security Plan is held at the Pleasant Valley Office, Duchesne County, Utah

- 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	—————



**Blackjack Unit N-33 (Proposed Well)**  
**Blackjack Unit 12-33 (Existing Well)**

**See Topo "B"**

 **NEWFIELD**  
Exploration Company

---

**Blackjack Unit N-33-8-17 (Proposed Well)**  
**Blackjack Unit 12-33-8-17 (Existing Well)**  
**Pad Location NWSW 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: MW  
 DATE: 04-29-2008

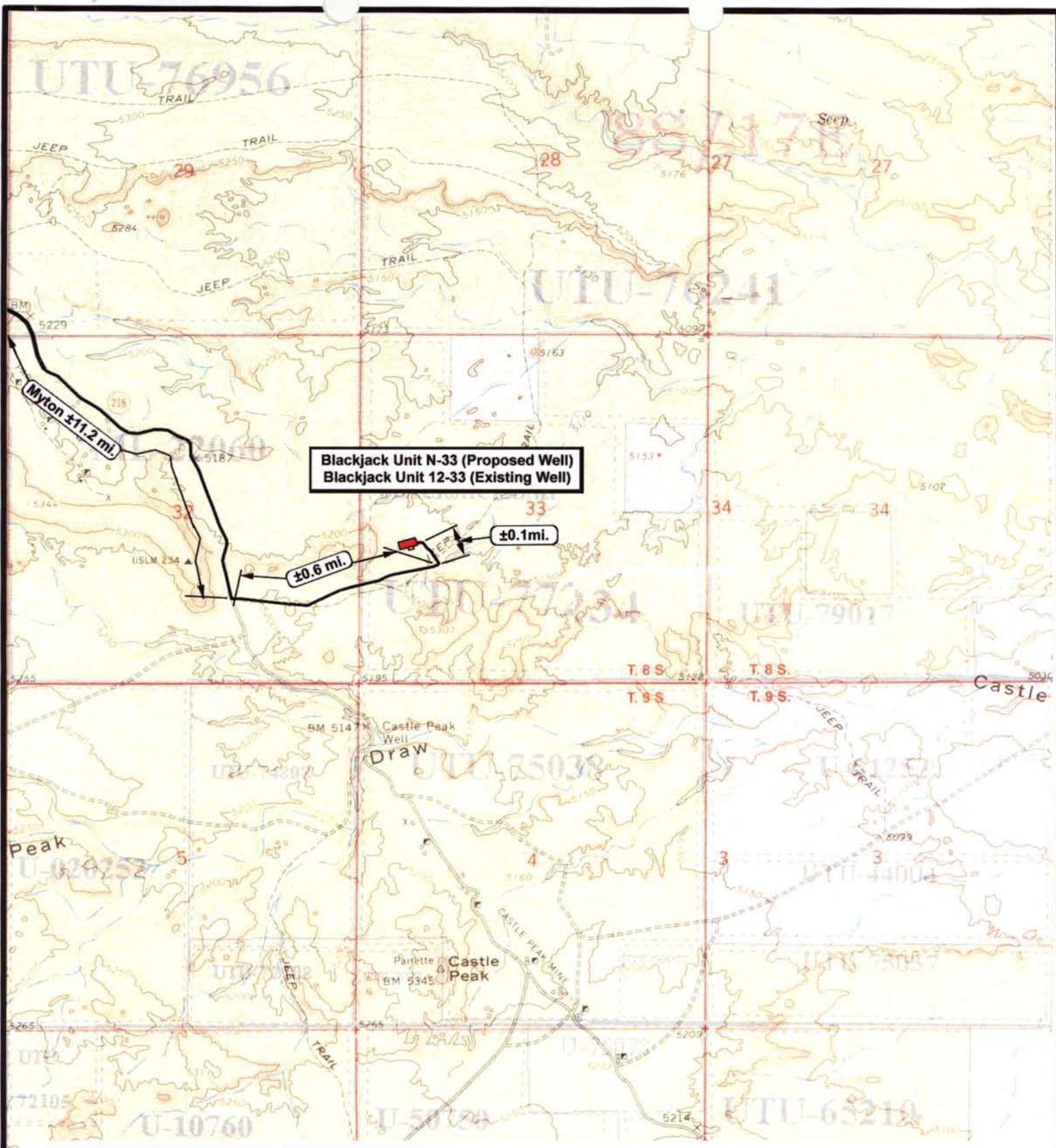
**Legend**

 Existing Road

---

**TOPOGRAPHIC MAP**

**"A"**



**Blackjack Unit N-33 (Proposed Well)**  
**Blackjack Unit 12-33 (Existing Well)**

**±0.6 mi.**  
**±0.1 mi.**



**NEWFIELD**  
Exploration Company

---

**Blackjack Unit N-33-8-17 (Proposed Well)**  
**Blackjack Unit 12-33-8-17 (Existing Well)**  
**Pad Location NWSW 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: mw**  
**DATE: 04-29-2008**

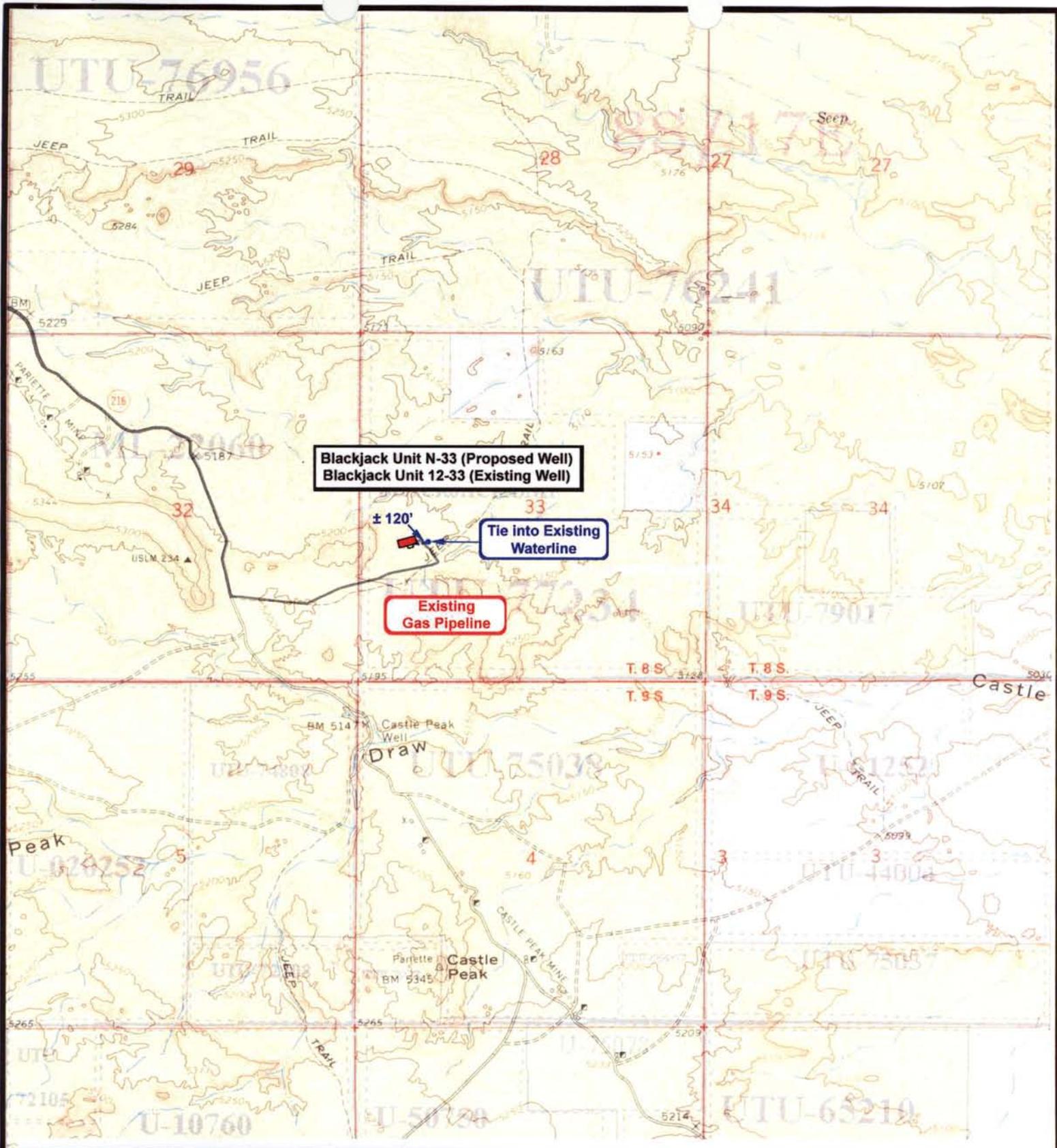
**Legend**

 Existing Road

---

**TOPOGRAPHIC MAP**

**"B"**



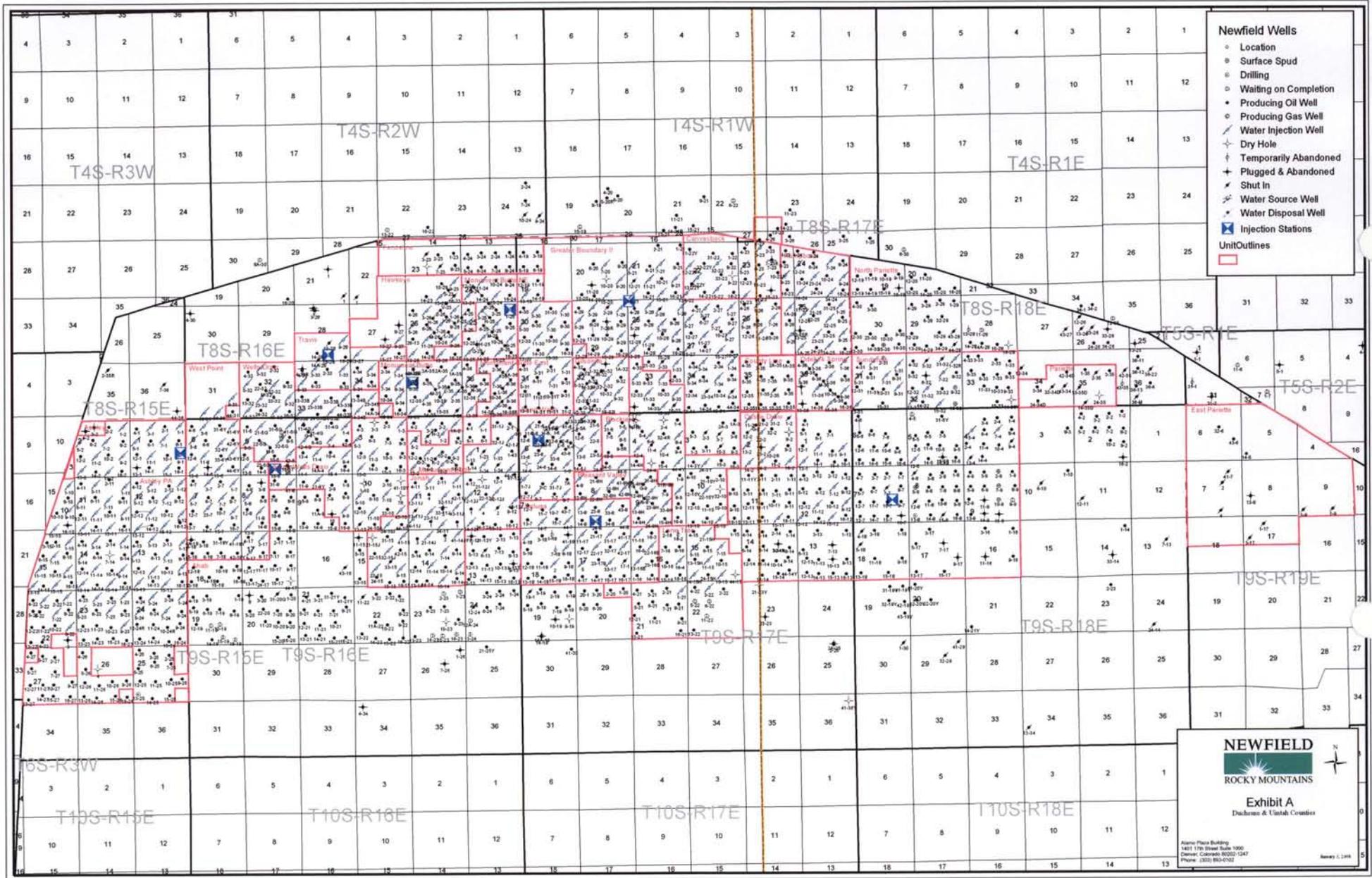
**Tri-State**  
Land Surveying Inc.  
(435) 781-2501  
180 North Vernal Ave. Vernal, Utah 84078

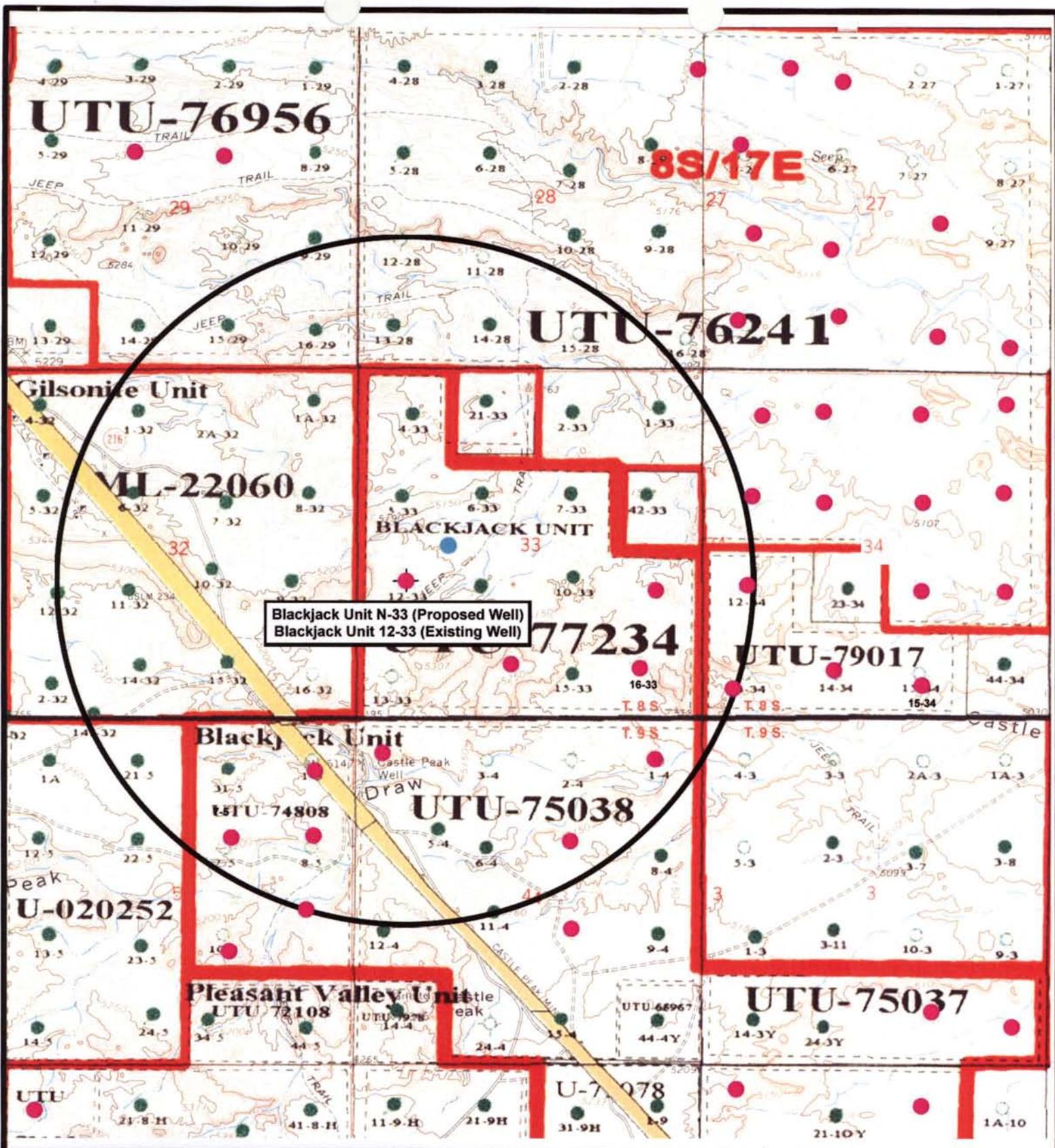
SCALE: 1" = 2,000'  
DRAWN BY: mw  
DATE: 04-29-2008

**Legend**

- Roads
- Proposed Water Line

TOPOGRAPHIC MAP  
**"C"**





Blackjack Unit N-33 (Proposed Well)  
 Blackjack Unit 12-33 (Existing Well)

**NEWFIELD**  
 Exploration Company

**Blackjack Unit N-33-8-17 (Proposed Well)**  
**Blackjack Unit 12-33-8-17 (Existing Well)**  
 Pad Location NWSW SEC. 33, T8S, R17E, S.L.B.&M.

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

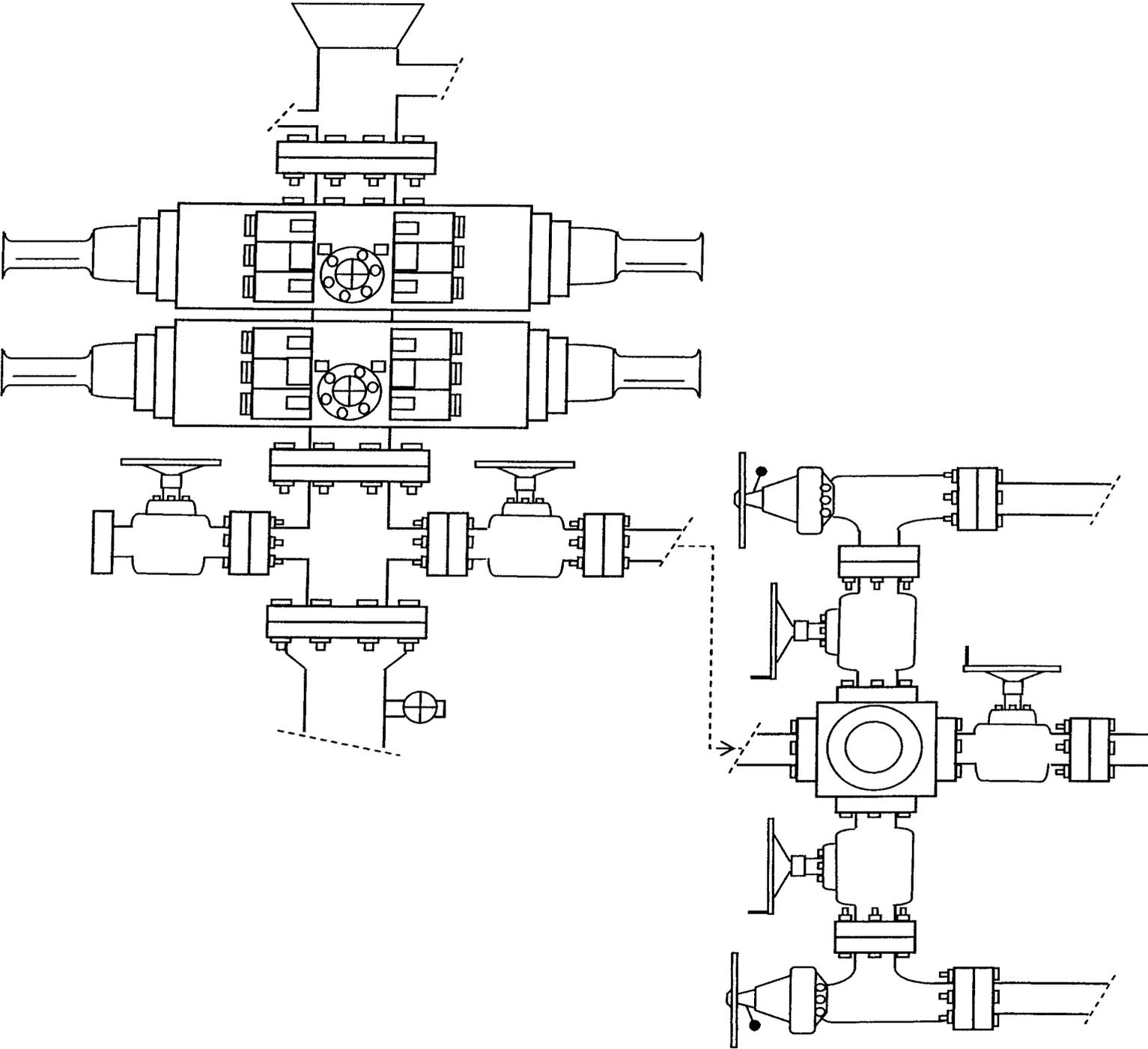
SCALE: 1" = 2,000'  
 DRAWN BY: mww  
 DATE: 04-29-2008

**Legend**

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

**Exhibit "B"**

**2-M SYSTEM**  
Blowout Prevention Equipment Systems



**EXHIBIT C**

Exhibit "D"

1 of 2

CULTURAL RESOURCE INVENTORY OF  
NEWFIELD EXPLORATION'S PROPOSED  
WATERLINES BLACKJACK UNIT 12-33-8-17  
AND GREATER BOUNDARY 3-7-9-17  
(T8S, R17E, SEC. 33 AND T9S, R17E, SEC. 3)  
DUCHESNE COUNTY, UTAH

By:

Jacki A. Montgomery

Prepared for:

Bureau of Land Management  
Vernal Field Office

Prepared Under Contract With:

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

Submitted By:

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

MOAC Report No. 08-168

August 5, 2008

United States Department of Interior (FLPMA)  
Permit No. 08-UT-60122

State of Utah Antiquities Project (Survey)  
Permit No. U-08-MQ-0623b

**NEWFIELD EXPLORATION COMPANY**

**PALEONTOLOGICAL SURVEY OF PROPOSED  
PRODUCTION DEVELOPMENT AREAS,  
DUCHESNE & UINTAH COUNTIES, UTAH**

NE 1/4, NE 1/4, Section 32, T 8 S, R 18 E (1-32RT-8-18); NW 1/4, SW 1/4,  
Section 25, SE 1/4, SW 1/4, Section 32 & NW 1/4, SE 1/4 Section 33, T 8 S, R 16 E (12-25-8-  
16; 24-32-8-16; 33-33B-8-16); SE 1/4, NW 1/4, & NW 1/4, SW 1/4 Section 6, T 9 S, R 16 E (6-  
6-9-16; 12-6-9-16); NW 1/4, SW 1/4, Section 33, T 8 S, R 17 E (12-33-8-17); and SW 1/4, NE  
1/4, Section 3, T 9 S, R 17 E (7-3-9-17)

**REPORT OF SURVEY**

Prepared for:

**Newfield Exploration Company**

Prepared by:

Wade E. Miller  
Consulting Paleontologist  
June 25, 2008

**WORKSHEET  
APPLICATION FOR PERMIT TO DRILL**

APD RECEIVED: 08/28/2008

API NO. ASSIGNED: 43-013-34071

WELL NAME: BLACKJACK FED N-33-8-17  
 OPERATOR: NEWFIELD PRODUCTION ( N2695 )  
 CONTACT: MANDIE CROZIER

PHONE NUMBER: 435-646-3721

PROPOSED LOCATION:

NWSW 33 080S 170E  
 SURFACE: 2084 FSL 0750 FWL  
 BOTTOM: 2655 FSL 1210 FWL  
 COUNTY: DUCHESNE  
 LATITUDE: 40.07291 LONGITUDE: -110.0175  
 UTM SURF EASTINGS: 583778 NORTHINGS: 4436101  
 FIELD NAME: MONUMENT BUTTE ( 105 )

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

LEASE TYPE: 1 - Federal  
 LEASE NUMBER: UTU-77234  
 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: BLACKJACK (GR)
- \_\_\_ R649-3-2. General  
Siting: 460 From Qtr/Qtr & 920' Between Wells
- \_\_\_ R649-3-3. Exception
- Drilling Unit  
Board Cause No: 234-2  
Eff Date: 12-22-1999  
Siting: Suspends General Siting
- R649-3-11. Directional Drill

COMMENTS: \_\_\_\_\_

*Sig, Separate BLU*

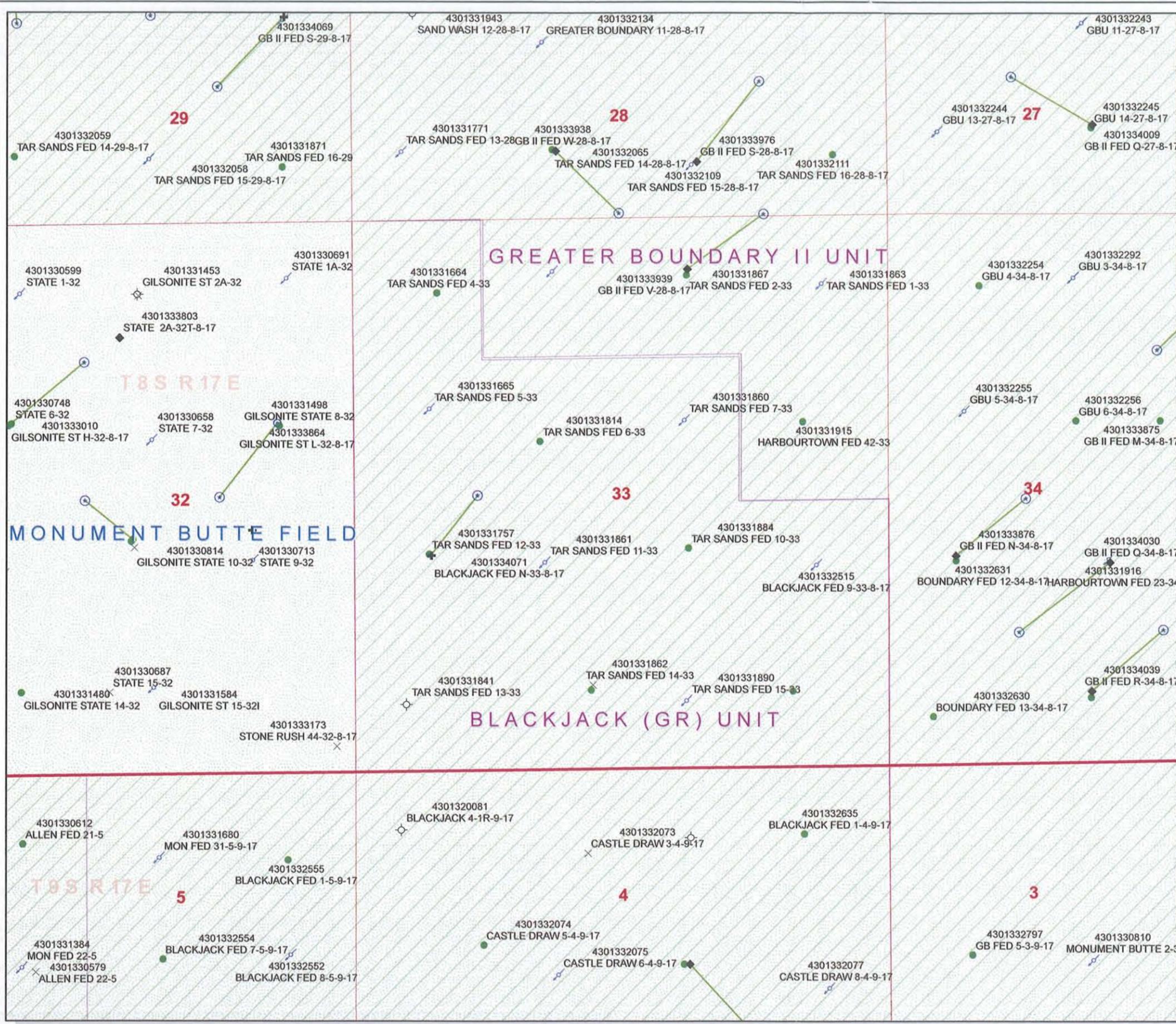
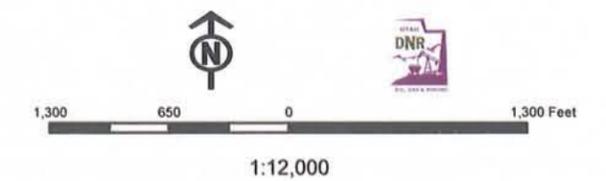
STIPULATIONS: \_\_\_\_\_

*1- Federal Approval*

**API Number: 4301334071**  
**Well Name: BLACKJACK FED N-33-8-17**  
 Township 08.0 S Range 17.0 E Section 33  
**Meridian: SLBM**  
 Operator: NEWFIELD PRODUCTION COMPANY

Map Prepared:  
 Map Produced by Diana Mason

Units	Wells Query Events
STATUS	<all other values>
ACTIVE	GIS_STAT_TYPE
EXPLORATORY	<Null>
GAS STORAGE	APD
NF PP OIL	DRL
NF SECONDARY	GI
PI OIL	GS
PP GAS	LA
PP GEOTHERM	NEW
PP OIL	OPS
SECONDARY	PA
TERMINATED	PGW
Fields	POW
STATUS	RET
ACTIVE	SGW
COMBINED	SOW
Sections	TA
Township	TW
	WD
	WI
	WS
	Bottom Hole Location





September 4, 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  
**Blackjack Federal N-33-8-17**  
Blackjack Unit  
UTU-78560X  
Surface Hole: T8S R17E, Section 33: NWSW  
2084' FSL 750' FWL  
At Target: T8S R17E, Section 33  
2655' FSL 1210' FWL  
Duchesne County, Utah

Dear Ms. Mason;

Pursuant to the filing of Newfield Production Company's ("NPC") Application for Permit to Drill dated August 22, 2008, a copy of which is attached, for the above referenced well, and in accordance with Oil and Gas Conservation Rule R649-3-11, NPC hereby submits this letter as notice of our intention to directionally drill this well.

The surface hole location and target location of this well are both within the boundaries of the Blackjack Unit UTU-78560X. Newfield certifies that it is the Blackjack Unit Operator and all lands within 460 feet of the entire directional well bore are within the Blackjack 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,  
NEWFIELD PRODUCTION COMPANY

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

Roxann Eveland  
Land Associate

RECEIVED

SEP 08 2008

DIV. OF OIL, GAS & MINING

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

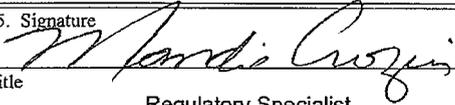
APPLICATION FOR PERMIT TO DRILL OR REENTER

5. Lease Serial No. <b>UTU-77234</b>	
6. If Indian, Allottee or Tribe Name <b>N/A</b>	
7. If Unit or CA Agreement, Name and No. <b>Blackjack Unit</b>	
8. Lease Name and Well No. <b>Blackjack Federal N-33-8-17</b>	
9. API Well No.	
10. Field and Pool, or Exploratory Monument Butte	11. Sec., T., R., M., or Blk. and Survey or Area <b>Sec. 33, T8S R17E</b>
12. County or Parish <b>Duchesne</b>	13. State <b>UT</b>
14. Distance in miles and direction from nearest town or post office* <b>Approximatley 11.9 miles southeast of Myton, Utah</b>	
15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any) <small>Approx. 1210' f/lse, 1210' f/unit</small>	16. No. of Acres in lease <b>480.00</b>
17. Spacing Unit dedicated to this well <b>20 Acres</b>	
18. Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft. <small>Approx. 1058'</small>	19. Proposed Depth <b>6240'</b>
20. BLM/BIA Bond No. on file <b>WYB000493</b>	
21. Elevations (Show whether DF, KDB, RT, GL, etc.) <b>5163' GL</b>	22. Approximate date work will start* <b>4th Quarter 2008</b>
23. Estimated duration <small>Approximately seven (7) days from spud to rig release.</small>	

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) <b>Mandie Crozier</b>	Date <b>8/22/08</b>
Title <b>Regulatory Specialist</b>		
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

SEP 08 2008

DIV. OF OIL, GAS & MINING

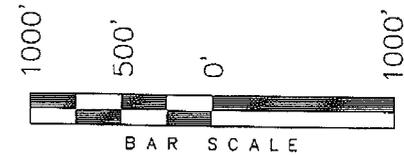
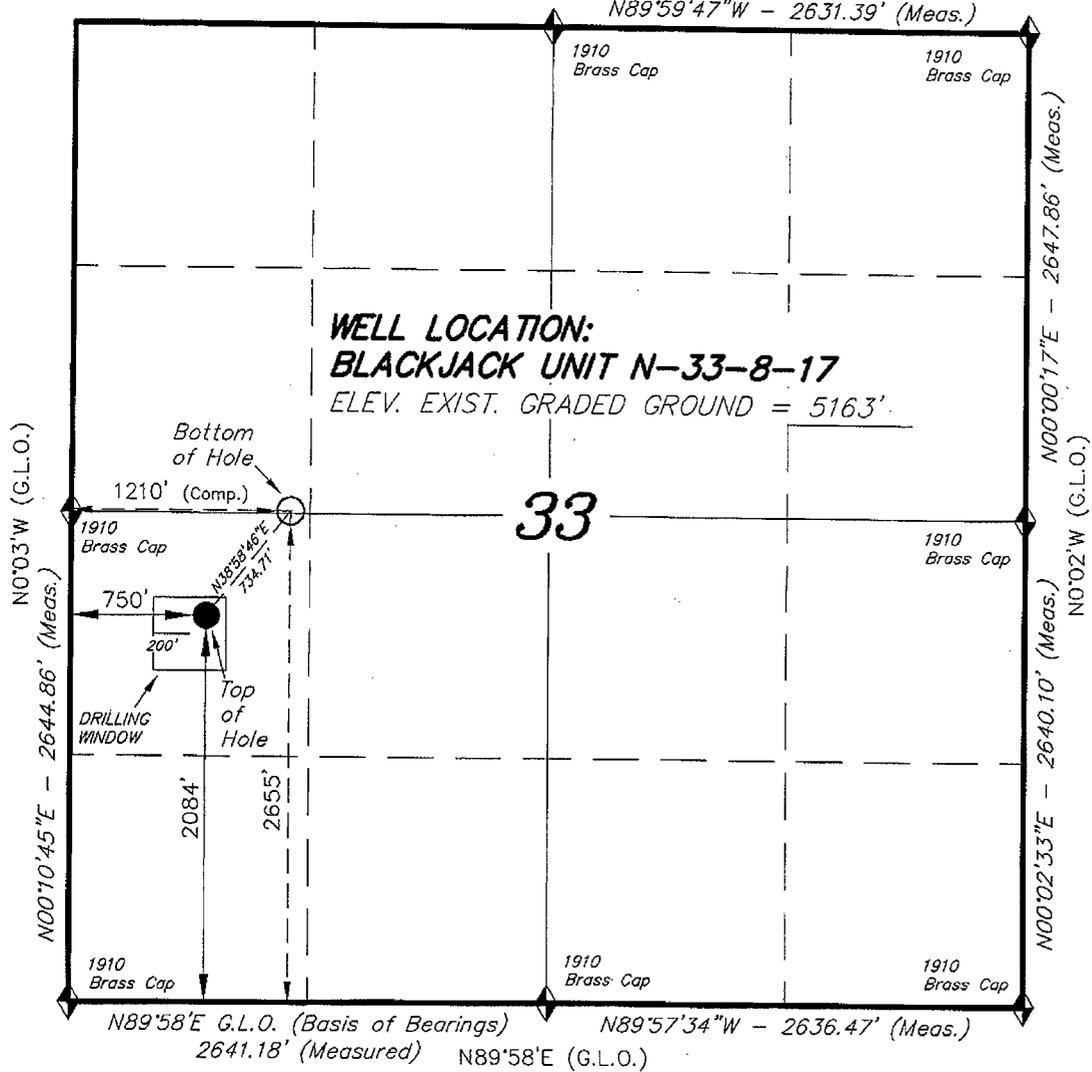
# T8S, R17E, S.L.B.&M.

N89°54'W - 79.98 (G.L.O.)

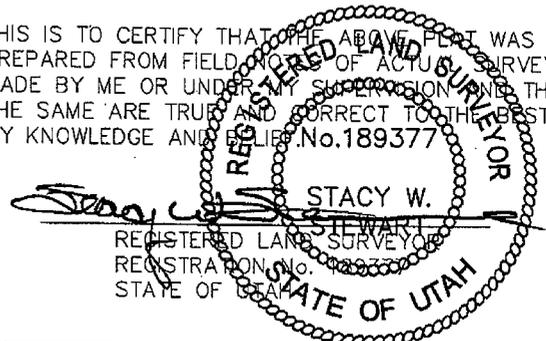
N89°59'47"W - 2631.39' (Meas.)

## NEWFIELD PRODUCTION COMPANY

WELL LOCATION, BLACKJACK UNIT  
N-33-8-17, LOCATED AS SHOWN IN THE  
NW 1/4 SW 1/4 OF SECTION 33, T8S,  
R17E, S.L.B.&M. DUCHESNE COUNTY, UTAH.



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 (MYTON SE)

**BLACKJACK UNIT N-33-8-17  
(Surface Location) NAD 83  
LATITUDE = 40° 04' 22.42"  
LONGITUDE = 110° 01' 05.84"**

<b>TRI STATE LAND SURVEYING &amp; CONSULTING</b> 180 NORTH VERNAL AVE. - VERNAL, UTAH 84078 (435) 781-2501	
DATE SURVEYED: 03-10-08	SURVEYED BY: T.H.
DATE DRAWN: 03-24-08	DRAWN BY: F.T.M.
REVISED:	SCALE: 1" = 1000'

# 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)

September 9, 2008

Memorandum

To: Assistant District Manager Minerals, Vernal District

From: Michael Coulthard, Petroleum Engineer

Subject: 2008 Plan of Development Black Jack 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 well is planned for calendar year 2008 within the Black Jack Unit, Duchesne County, Utah.

API#	WELL NAME	LOCATION
	(Proposed PZ Green River)	
43-013-34071	Blackjack Fed N-33-8-17 Sec 33 T08S R17E 2084 FSL 0750 FWL	BHL Sec 33 T08S R17E 2655 FSL 1210 FWL

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

/s/ Michael L. Coulthard

bcc: File – Black Jack Unit  
Division of Oil Gas and Mining  
Central Files  
Agr. Sec. Chron  
Fluid Chron

MCoulthard:mc:9-9-08



JON M. HUNTSMAN, JR.  
Governor

GARY R. HERBERT  
Lieutenant Governor

# State of Utah

## DEPARTMENT OF NATURAL RESOURCES

MICHAEL R. STYLER  
Executive Director

### Division of Oil, Gas and Mining

JOHN R. BAZA  
Division Director

September 10, 2008

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

Re: Blackjack Federal N-33-8-17 Well, Surface Location 2084' FSL, 750' FWL, NW SW, Sec. 33, T. 8 South, R. 17 East, Bottom Location 2655' FSL, 1210' FWL, NW SW, Sec. 33, 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 43-013-34071.

Sincerely,

A handwritten signature in black ink, appearing to read "Gil Hunt".

Gil Hunt  
Associate Director

pab  
Enclosures

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

**Operator:** Newfield Production Company  
**Well Name & Number** Blackjack Federal N-33-8-17  
**API Number:** 43-013-34071  
**Lease:** UTU-77234

**Surface Location:** NW SW      **Sec.** 33      **T.** 8 South      **R.** 17 East  
**Bottom Location:** NW SW      **Sec.** 33      **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  
VERNAL FIELD OFFICE

Form 3160-3  
(September 2001)

2009 AUG 27 PM 1 36

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

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-77234
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. Blackjack Unit
3a. Address Route #3 Box 3630, Myton UT 84052		8. Lease Name and Well No. Blackjack Federal N-33-8-17
3b. Phone No. (include area code) (435) 646-3721		9. API Well No. 43 013 3A071
4. Location of Well (Report location clearly and in accordance with any State requirements. *) At surface NW/SW 2084' FSL 750' FWL At proposed prod. zone 2655' FSL 1210' FWL SWNW		10. Field and Pool, or Exploratory Monument Butte
14. Distance in miles and direction from nearest town or post office* Approximatley 11.9 miles southeast of Myton, Utah		11. Sec., T., R., M., or Blk. and Survey or Area Sec. 33, T8S R17E
15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any) Approx. 1210' f/lse, 1210' f/unit	16. No. of Acres in lease 480.00	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. 1058'	19. Proposed Depth 6240'	20. BLM/BIA Bond No. on file WYB000493
21. Elevations (Show whether DF, KDB, RT, GL, etc.) 5163' GL	22. Approximate date work will start* 4th 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 8/22/08
Title Regulatory Specialist		

Approved by (Signature) 	Name (Printed/Typed) Terry Kucera	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. **CONDITIONS OF APPROVAL ATTACHED**

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

\*(Instructions on reverse)

NOS 6/4/08  
AFMSS# 08PP0854A  
UDOGM

RECEIVED  
JAN 27 2009  
DIV. OF OIL, GAS & MINING



**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>NWSW, Sec. 33, T8S, R17E (S) NWSW, Sec. 33, T8S, R17E (B)</b>
<b>Well No:</b>	<b>Blackjack Federal N-33-8-17</b>	<b>Lease No:</b>	<b>UTU-77234</b>
<b>API No:</b>	<b>43-013-34071</b>	<b>Agreement:</b>	<b>Blackjack 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 COAs:**

Refer to Environmental Assessment 2009-0016

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

**SITE SPECIFIC DOWNHOLE COAs:**

- A copy of Newfield's Standard Operating Practices (SOP version: dated 4/18/08 and approved 5/12/08) shall be on location.
- Drilling plan specifics and practices are referenced in the Newfield Standard Operating Procedures (SOP version: April 18, 2008). The operators drilling plan items 4 to 8 reference the SOP. Newfield shall adhere to the referenced requirements in the SOP. Newfield and their contractors shall adhere to all Oil and Gas rules and requirements listed in the Code of Federal Regulations and all Federal Onshore Oil and Gas Orders except where variances have been granted.
- 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.
- A copy of the directional survey 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.

<b>STATE OF UTAH</b> DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING	<b>FORM 9</b>  <b>5. LEASE DESIGNATION AND SERIAL NUMBER:</b> UTU-77234
<b>SUNDRY NOTICES AND REPORTS ON WELLS</b>  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.	<b>6. IF INDIAN, ALLOTTEE OR TRIBE NAME:</b>  <b>7. UNIT or CA AGREEMENT NAME:</b> BLACKJACK (GR)
<b>1. TYPE OF WELL</b> Oil Well	<b>8. WELL NAME and NUMBER:</b> BLACKJACK FED N-33-8-17
<b>2. NAME OF OPERATOR:</b> NEWFIELD PRODUCTION COMPANY	<b>9. API NUMBER:</b> 43013340710000
<b>3. ADDRESS OF OPERATOR:</b> Rt 3 Box 3630 , Myton, UT, 84052	<b>PHONE NUMBER:</b> 435 646-4825 Ext
<b>4. LOCATION OF WELL</b> <b>FOOTAGES AT SURFACE:</b> 2084 FSL 0750 FWL <b>QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:</b> Qtr/Qtr: NWSW Section: 33 Township: 08.0S Range: 17.0E Meridian: S	<b>9. FIELD and POOL or WILDCAT:</b> MONUMENT BUTTE  <b>COUNTY:</b> DUCHESNE  <b>STATE:</b> UTAH

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

TYPE OF SUBMISSION	TYPE OF ACTION		
<input checked="" type="checkbox"/> <b>NOTICE OF INTENT</b> Approximate date work will start: 8/31/2009	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> CASING REPAIR
<input type="checkbox"/> <b>SUBSEQUENT REPORT</b> Date of Work Completion:	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> CHANGE WELL NAME
<input type="checkbox"/> <b>SPUD REPORT</b> Date of Spud:	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> CONVERT WELL TYPE
<input type="checkbox"/> <b>DRILLING REPORT</b> Report Date:	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> NEW CONSTRUCTION
	<input type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> PLUG BACK
	<input type="checkbox"/> PRODUCTION START OR RESUME	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION
	<input type="checkbox"/> REPERFORATE CURRENT FORMATION	<input type="checkbox"/> SIDETRACK TO REPAIR WELL	<input type="checkbox"/> TEMPORARY ABANDON
	<input type="checkbox"/> TUBING REPAIR	<input type="checkbox"/> VENT OR FLARE	<input type="checkbox"/> WATER DISPOSAL
	<input type="checkbox"/> WATER SHUTOFF	<input type="checkbox"/> SI TA STATUS EXTENSION	<input checked="" type="checkbox"/> APD EXTENSION
	<input type="checkbox"/> WILDCAT WELL DETERMINATION	<input type="checkbox"/> OTHER	OTHER:

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

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:** August 31, 2009

**By:**

<b>NAME (PLEASE PRINT)</b> Mandie Crozier	<b>PHONE NUMBER</b> 435 646-4825	<b>TITLE</b> Regulatory Tech
<b>SIGNATURE</b> N/A	<b>DATE</b> 8/31/2009	



**The Utah Division of Oil, Gas, and Mining**

- State of Utah
- Department of Natural Resources

**Electronic Permitting System - Sundry Notices**

**Request for Permit Extension Validation Well Number 43013340710000**

**API:** 43013340710000

**Well Name:** BLACKJACK FED N-33-8-17

**Location:** 2084 FSL 0750 FWL QTR NWSW SEC 33 TWP 080S RNG 170E MER S

**Company Permit Issued to:** NEWFIELD PRODUCTION COMPANY

**Date Original Permit Issued:** 9/10/2008

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 rightof- 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

**Approved by the  
Utah Division of  
Oil, Gas and Mining**

**Signature:** Mandie Crozier

**Date:** 8/31/2009

**Title:** Regulatory Tech **Representing:** NEWFIELD PRODUCTION COMPANY

**Date:** August 31, 2009

**By:**

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

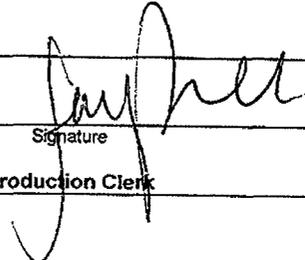
OPERATOR ACCT. NO. N2695

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	17400	4301350111	MON BUTTE EAST ST H-36-8-16	SWNE	36	8S	16E	DUCHESNE	5/21/2010	6/7/10
WELL 1 COMMENTS: GRRV BHL = N W N E											
A	99999	17627	4304739334	UTE TRIBAL 16-29-4-1E	SESE	29	4S	1E	UINTAH	5/17/2010	6/7/10
GRRV											
B	99999	17400	4304740534 4304740411	CASTLE DRAW ST N-2-9-17	NENW	2	9S	17E	Surface UINTAH	5/19/2010	6/7/10
GRRV BHL = S E N W Duchesne Co Sec 2 T 9 S R 17 E											
A	99999	17628	4304739333	UTE TRIBAL 12-26-4-1E	NWSW	29	4S	1E	UINTAH	5/20/2010	6/7/10
GRRV											
A	99999	17629	4304750947	HANCOCK 5-23-4-1	SWNW	23	4S	1W 1E	UINTAH	5/19/2010	6/7/10
WELL 5 COMMENTS: GRRV											
B	99999	17400	4301334071	BLACKJACK N-33-8-17	NWSW	33	8S	17E	Duchesne UINTAH	5/7/2010	6/7/10
WELL 5 COMMENTS: GRRV BHL = N W S W											

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

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Signature:   
 Jentri Park  
 Production Clerk  
 Date: 05/20/10

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

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                      3b. Phone    (include are code)  
                   Myton, UT 84052                                      435.646.3721

4. Location of Well    (Footage, Sec., T., R., M., or Survey Description)  
 2084 FSL 0750 FWL  
 NWSW Section 33 T8S R17E

5. Lease Serial No.  
 USA UTU-77234

6. If Indian, Allottee or Tribe Name.

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

8. Well Name and No.  
 BLACKJACK N-33-8-17

9. API Well No.  
 4301334071

10. Field and Pool, or Exploratory Area  
 GREATER MB UNIT

11. County or Parish, State  
 DUCHESNE, UT

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

TYPE OF SUBMISSION	TYPE OF ACTION			
<input type="checkbox"/> Notice of Intent	<input type="checkbox"/> Acidize	<input type="checkbox"/> Deepen	<input type="checkbox"/> Production (Start/Resume)	<input type="checkbox"/> Water Shut-Off
<input checked="" type="checkbox"/> Subsequent Report	<input type="checkbox"/> Alter Casing	<input type="checkbox"/> Fracture Treat	<input type="checkbox"/> Reclamation	<input type="checkbox"/> Well Integrity
<input type="checkbox"/> Final Abandonment	<input type="checkbox"/> Casing Repair	<input type="checkbox"/> New Construction	<input type="checkbox"/> Recomplete	<input checked="" type="checkbox"/> Other _____ Spud Notice
	<input type="checkbox"/> Change Plans	<input type="checkbox"/> Plug & Abandon	<input type="checkbox"/> Temporarily Abandon	
	<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 5/7/10 MIRU Ross # 29. Spud well @ 9:00 AM. Drill 320' of 12 1/4" hole with air mist. TIH W/ 7 Jt's 8 5/8" J-55 24 # csgn. Set @ 320.81 KB. On 5/14/10 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) Ryan Crum	Title Drilling Foreman
Signature 	Date 05/15/2010

**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)

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

5. LEASE DESIGNATION AND SERIAL NUMBER:

USA UTU-77234

**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:

GMBU

1. TYPE OF WELL:

OIL WELL  GAS WELL  OTHER

8. WELL NAME and NUMBER:

BLACKJACK FEDERAL N-33-8-17

2. NAME OF OPERATOR:

NEWFIELD PRODUCTION COMPANY

9. API NUMBER:

4301334071

3. ADDRESS OF OPERATOR:

Route 3 Box 3630 CITY Myton STATE UT ZIP 84052

PHONE NUMBER

435.646.3721

10. FIELD AND POOL, OR WILDCAT:

GREATER MB UNIT

4. LOCATION OF WELL:

FOOTAGES AT SURFACE: 2084 FSL 0750 FWL

COUNTY: DUCHESNE

OTR/OTR. SECTION. TOWNSHIP. RANGE. MERIDIAN: NWSW, 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 type="checkbox"/> CASING REPAIR	<input type="checkbox"/> NEW CONSTRUCTION	<input type="checkbox"/> TEMPORARILY ABANDON
	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> TUBING REPAIR
	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> VENT OR FLAIR
<input checked="" type="checkbox"/> SUBSEQUENT REPORT (Submit Original Form Only)  Date of Work Completion:  06/17/2010	<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	

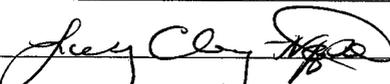
12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

The above subject well was completed on 06-17-10, attached is a daily completion status report.

NAME (PLEASE PRINT) Lucy Chavez-Naupoto

TITLE Administrative Assistant

SIGNATURE



DATE 06/17/2010

(This space for State use only)

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

## Daily Activity Report

Format For Sundry  
**BLACKJACK N-33-8-17**  
**4/1/2010 To 8/30/2010**

**6/4/2010 Day: 1**

**Completion**

Rigless on 6/4/2010 - 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 @ 6228' cement top @ 26'. Perforate CP3/CP5 sds as shown in perforation report. 148 BWTR. SWIFN.

**Daily Cost:** \$0

**Cumulative Cost:** \$12,003

**6/11/2010 Day: 2**

**Completion**

Rigless on 6/11/2010 - Frac stage #1. Perforate & frac stages #2-4 - MIRU PSI WLT & crane & BJ Services. Frac stage #1. Perforate & frac stages #2-4. EWTR 1891 BBLs. RU flowback equipment. Open well to pit @ 1:20 pm on 20/64 choke. Flow well back for 5 hrs to recover 600 bw. EWTR 1291 BBLs

**Daily Cost:** \$0

**Cumulative Cost:** \$89,939

**6/14/2010 Day: 3**

**Completion**

WWS #3 on 6/14/2010 - MIRUSU WWS #3. PU TBG. - Open well. CSG 150 psi. Bleed off well. ND Camerons BOP. Break out frac head. MU wellhead. NU Schaffer BOP. Prep & tally tbg. MU 4 3/4" Weatherford Chomp bit, bit sub, & PSN. TIH picking up & drifting 2 7/8" J-55 tbg. Get in hole w/ 38 jts tbg. SDFN

**Daily Cost:** \$0

**Cumulative Cost:** \$94,942

**6/15/2010 Day: 4**

**Completion**

WWS #3 on 6/15/2010 - Continue picking tbg to drill out plugs. Swab - Open well. 0 psi. Continue picking up tbg to tag sand @ 4322'. 168' sand. RU power swivel & pump lines. Clean out sand to CBP @ 4490'. Drill out plug. Continue picking up tbg to tag CBP @ 5275'. Drill out plug. Continue picking up tbg to tag sand @ 5474'. 76' sand. Clean out sand to CBP @ 5550'. Drill out plug. Continue picking up tbg to tag sand @ 6099'. 138' sand. Clean out sand to PBDT @ 6228'. Circulate clean. LD 2 jts tbg. RU swab equipment. RIH w/ swab IFL @ surface. Make 3 swab runs to recover 40 bbls. EFL @ 500'. EWTR 1251 BBLs

**Daily Cost:** \$0

**Cumulative Cost:** \$131,929

**6/16/2010 Day: 5**

**Completion**

WWS #3 on 6/16/2010 - Swab. Trip for production. PU rods - Open well. 0 psi. RIH w/ swab. Tag fluid @ 300'. Make 5 swab runs. Well started to flow. Flowed 50 bw in 1 hr. Recovered 170 bw total. No sand, trace of oil, & little gas. RD swab equipment. TIH w/ tbg to tag PBDT. No sand. Circulate well clean. LD 4 jts tbg. TOOH w/ 194 jts. Get out of hole w/ tbg. LD bit & bit sub. MU btm hole assembly. TIH w/ tbg detail @ follows. NC, 2 jts tbg, PSN, 2 jts tbg,

TAC, & 190 jts tbg. Get in hole w/ tbg, RD workfloor. ND BOP. Set TAC. MU B-1 adapter flange. Land tbg on wellhead w/ 18000# tension. X-over to rod equipment. PU & prime new 2 1/2" x 1 3/4" x 21' x 24' RHAC pump. PU & TIH w/ rod detail @ follows. 4 - 1 1/2" wt bars, & 160 - 7/8" guided rods. MU new 1 1/2" x 30' polished rod. SDFN

**Daily Cost:** \$0

**Cumulative Cost:** \$175,984

---

**6/17/2010 Day: 6**

**Completion**

WWS #3 on 6/17/2010 - Continue picking up rods. PWOP - Open well. 0 psi. Continue TIH picking up remaining 77 - 7/8" guided rods (237 total 7/8" guided 8 per rods). Get in hole w/ rods. Space out pump w/ 1 - 4', 6', & 8' x 7/8" pony subs. MU polished rod. RU pumping unit. Fill & test tbg to 200 psi w/ 2 bw. Stroke test pump to 800 psi w/ unit. Good pump action. RD MOSU PWOP @ 10:00 AM W/ 144" SL @ 5 SPM FINAL REPORT! EWTR 1251 BBLs

**Finalized**

**Daily Cost:** \$0

**Cumulative Cost:** \$184,864

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**Pertinent Files: Go to File List**

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

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

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

5. Lease Serial No.  
UTU-77234

6. If Indian, Allottee or Tribe Name

7. Unit or CA Agreement Name and No.  
GMBU

8. Lease Name and Well No.  
BLACKJACK FEDERAL N-33-8-17

9. AFI Well No.  
43-013-34071

10. Field and Pool or Exploratory  
MONUMENT BUTTE

11. Sec., T., R., M., on Block and  
Survey or Area  
SEC. 33, T8S, R17E

12. County or Parish  
DUCHESNE

13. State  
UT

14. Date Spudded  
05/07/2010

15. Date T.D. Reached  
05/27/2010

16. Date Completed  
06/16/2010  
 D & A  Ready to Prod.

17. Elevations (DF, RKB, RT, GL)\*  
5163' GL 5175' KB

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 2084' FSL & 750' FWL (NW/SW) SEC. 33, T8S, R17E (UTU-77234)  
At top prod. interval reported below 2565' FSL & 1133' FWL (NW/SW) SEC. 33, T8S, R17E (UTU-77234)  
At total depth 2485' FNL & 1322' FWL (SE/NW) SEC. 33, T8S, R17E (UTU-77234)

*BHL reviewed by HSM*

18. Total Depth: MD 6265'  
TVD 6189'

19. Plug Back T.D.: MD 6228'  
TVD 6153'

20. Depth Bridge Plug Set: MD  
TVD

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

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

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

Hole Size	Size/Grade	Wt. (#/ft.)	Top (MD)	Bottom (MD)	Stage Cementer Depth	No. of Sks. & Type of Cement	Slurry Vol. (BBL)	Cement Top*	Amount Pulled
12-1/4"	8-5/8" J-55	24#	0	321'		160 CLASS G			
7-7/8"	5-1/2" J-55	15.5#	0	6251'		300 PRIMLITE		26'	
						400 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@ 6110'	TA @ 5980'						

25. Producing Intervals

Formation	Top	Bottom	Perforated Interval	Size	No. Holes	Perf. Status
A) Green River			5862-6058' CP5 CP3	.36"	3	21
B) Green River			5472-5490' LODC	.34"	3	30
C) Green River			5131-5208' B.5 B2	.34"	3	12
D) Green River			4363-4420' GB6	.34"	3	39

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

Depth Interval	Amount and Type of Material
5862-6058'	Frac w/ 19779#'s 20/40 sand in 171 bbls of Lightning 17 fluid.
5472-5490'	Frac w/ 75076#'s 20/40 sand in 459 bbls of Lightning 17 fluid.
5131-5208'	Frac w/ 20248#'s 20/40 sand in 173 bbls of Lightning 17 fluid.
4363-4420'	Frac w/ 67454#'s 20/40 sand in 420 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
6-17-10	6-30-10	24	→	127	0	24			2-1/2" x 1-3/4" x 21' x 24' RHAC Pump
Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas/Oil Ratio	Well Status	PRODUCING
			→						

28a. Production - Interval B

Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
			→						
Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas/Oil Ratio	Well Status	
			→						

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\*(See instructions and spaces for additional data on page 2)

28b. Production - Interval C

Date First Produced	Test Date	Hours Tested	Test Production ➔	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate ➔	Oil BBL	Gas MCF	Water BBL	Gas/Oil Ratio	Well Status	

28c. Production - Interval D

Date First Produced	Test Date	Hours Tested	Test Production ➔	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate ➔	Oil BBL	Gas MCF	Water BBL	Gas/Oil Ratio	Well Status	

29. Disposition of Gas (Solid, used for fuel, vented, etc.)

USED FOR FUEL

30. Summary of Porous Zones (Include Aquifers):

Show all important zones of porosity and contents thereof: Cored intervals and all drill-stem tests, including depth interval tested, cushion used, time tool open, flowing and shut-in pressures and recoveries.

31. Formation (Log) Markers

GEOLOGICAL MARKERS

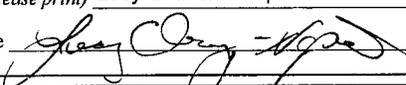
Formation	Top	Bottom	Descriptions, Contents, etc.	Name	Top
					Meas. Depth
				GARDEN GULCH MRK GARDEN GULCH 1	3866' 4056'
				GARDEN GULCH 2 POINT 3	4174' 4456'
				X MRKR Y MRKR	4690' 4725'
				DOUGALS CREEK MRK BI CARBONATE MRK	4856' 5097'
				B LIMESTON MRK CASTLE PEAK	5242' 5709'
				BASAL CARBONATE	6138'

32. Additional remarks (include plugging procedure):

33. Indicate which items have been attached by placing a check in the appropriate boxes:

- Electrical/Mechanical Logs (1 full set req'd.)     
  Geologic Report     
  DST Report     
  Directional Survey  
 Sundry Notice for plugging and cement verification     
  Core Analysis     
  Other: Drilling Daily Activity

34. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records (see attached instructions)\*

Name (please print) Lucy Chavez-Naupoto Title Administrative Assistant  
 Signature  Date 07/06/2010

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

**NEWFIELD**



# **NEWFIELD EXPLORATION**

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

**Wellbore #1**

**Design: Actual**

## **Standard Survey Report**

**22 June, 2010**

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



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

Local Co-ordinate Reference: Well N-33-8-17  
 TVD Reference: N-33-8-17 @ 5175.0ft (RIG 2)  
 MD Reference: N-33-8-17 @ 5175.0ft (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		

<b>Site</b>	SECTION 33 T8S R17E, SEC 33 T8S, R17E				
<b>Site Position:</b>		<b>Northing:</b>	7,200,000.00ft	<b>Latitude:</b>	40° 4' 34.680 N
<b>From:</b>	Lat/Long	<b>Easting:</b>	2,058,000.00ft	<b>Longitude:</b>	110° 0' 27.466 W
<b>Position Uncertainty:</b>	0.0 ft	<b>Slot Radius:</b>	"	<b>Grid Convergence:</b>	0.96 °

<b>Well</b>	N-33-8-17, SHL LAT: 40 04 22.42, LONG: -110 01 05.84					
<b>Well Position</b>	<b>+N/-S</b>	0.0 ft	<b>Northing:</b>	7,198,710.09 ft	<b>Latitude:</b>	40° 4' 22.420 N
	<b>+E/-W</b>	0.0 ft	<b>Easting:</b>	2,055,038.21 ft	<b>Longitude:</b>	110° 1' 5.840 W
<b>Position Uncertainty</b>		0.0 ft	<b>Wellhead Elevation:</b>	5,175.0 ft	<b>Ground Level:</b>	5,163.0 ft

<b>Wellbore</b>	Wellbore #1				
<b>Magnetics</b>	<b>Model Name</b>	<b>Sample Date</b>	<b>Declination</b>	<b>Dip Angle</b>	<b>Field Strength</b>
	IGRF2010	2010/05/18	(°)	(°)	(nT)
			11.44	65.85	52,401

<b>Design</b>	Actual				
<b>Audit Notes:</b>					
<b>Version:</b>	1.0	<b>Phase:</b>	ACTUAL	<b>Tie On Depth:</b>	0.0
<b>Vertical Section:</b>	<b>Depth From (TVD)</b>	<b>+N/-S</b>	<b>+E/-W</b>	<b>Direction</b>	
	(ft)	(ft)	(ft)	(°)	
	0.0	0.0	0.0	38.98	

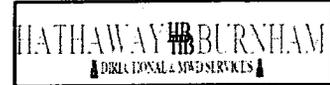
<b>Survey Program</b>	Date 2010/06/22			
<b>From (ft)</b>	<b>To (ft)</b>	<b>Survey (Wellbore)</b>	<b>Tool Name</b>	<b>Description</b>
456.0	6,265.0	Survey #1 (Wellbore #1)	MWD	MWD - Standard

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.00	0.00	0.00
456.0	0.70	347.90	456.0	2.7	-0.6	1.7	0.15	0.15	0.00
487.0	0.70	6.20	487.0	3.1	-0.6	2.0	0.72	0.00	59.03
517.0	0.90	15.70	517.0	3.5	-0.5	2.4	0.80	0.67	31.67
548.0	1.40	26.20	548.0	4.1	-0.3	3.0	1.74	1.61	33.87
579.0	2.00	31.70	579.0	4.9	0.2	3.9	2.00	1.94	17.74
609.0	2.40	35.30	608.9	5.8	0.8	5.0	1.41	1.33	12.00
640.0	2.90	35.60	639.9	7.0	1.6	6.5	1.61	1.61	0.97
670.0	3.10	37.00	669.9	8.3	2.6	8.0	0.71	0.67	4.67
701.0	3.20	35.20	700.8	9.6	3.6	9.7	0.45	0.32	-5.81
731.0	3.80	35.60	730.8	11.1	4.6	11.6	2.00	2.00	1.33
762.0	4.10	34.50	761.7	12.9	5.9	13.7	1.00	0.97	-3.55
793.0	4.50	36.60	792.6	14.8	7.2	16.0	1.39	1.29	6.77



# HATHAWAY BURNHAM

## Survey Report



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

**Local Co-ordinate Reference:** Well N-33-8-17  
**TVD Reference:** N-33-8-17 @ 5175.0ft (RIG 2)  
**MD Reference:** N-33-8-17 @ 5175.0ft (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)
823.0	4.50	37.30	822.5	16.7	8.6	18.4	0.18	0.00	2.33
854.0	4.90	40.00	853.4	18.6	10.2	20.9	1.47	1.29	8.71
884.0	5.30	41.80	883.3	20.7	12.0	23.6	1.44	1.33	6.00
914.0	5.70	41.70	913.1	22.8	13.9	26.5	1.33	1.33	-0.33
946.0	6.00	43.50	945.0	25.2	16.1	29.7	1.10	0.94	5.63
979.0	6.50	44.40	977.8	27.8	18.6	33.3	1.54	1.52	2.73
1,011.0	7.10	42.80	1,009.6	30.5	21.2	37.1	1.97	1.88	-5.00
1,042.0	7.60	40.20	1,040.3	33.5	23.8	41.0	1.94	1.61	-8.39
1,074.0	8.20	37.70	1,072.0	36.9	26.6	45.4	2.16	1.88	-7.81
1,106.0	8.48	37.43	1,103.7	40.6	29.4	50.1	0.88	0.88	-0.84
1,201.0	10.02	39.02	1,197.4	52.6	38.9	65.3	1.64	1.62	1.67
1,296.0	10.80	39.20	1,290.9	65.9	49.7	82.5	0.82	0.82	0.19
1,392.0	11.20	38.60	1,385.1	80.2	61.2	100.8	0.43	0.42	-0.63
1,487.0	11.80	38.30	1,478.2	95.0	73.0	119.7	0.63	0.63	-0.32
1,582.0	12.24	37.30	1,571.1	110.6	85.1	139.5	0.51	0.46	-1.05
1,676.0	11.78	35.26	1,663.0	126.4	96.7	159.1	0.67	-0.49	-2.17
1,771.0	10.70	36.40	1,756.2	141.4	107.5	177.5	1.16	-1.14	1.20
1,867.0	10.10	36.70	1,850.6	155.3	117.8	194.9	0.63	-0.63	0.31
1,962.0	9.40	38.50	1,944.3	168.1	127.6	210.9	0.80	-0.74	1.89
2,057.0	8.90	38.00	2,038.1	179.9	137.0	226.1	0.53	-0.53	-0.53
2,152.0	9.00	37.90	2,131.9	191.6	146.1	240.8	0.11	0.11	-0.11
2,247.0	8.60	38.70	2,225.8	203.0	155.1	255.4	0.44	-0.42	0.84
2,342.0	8.80	38.70	2,319.7	214.2	164.1	269.7	0.21	0.21	0.00
2,427.0	9.60	39.00	2,403.6	224.8	172.6	283.3	0.94	0.94	0.35
2,533.0	9.90	39.70	2,508.1	238.7	184.0	301.3	0.30	0.28	0.66
2,628.0	11.20	38.90	2,601.5	252.1	195.0	318.7	1.38	1.37	-0.84
2,723.0	10.70	37.70	2,694.7	266.3	206.2	336.7	0.58	-0.53	-1.26
2,818.0	8.90	37.10	2,788.3	279.1	216.0	352.9	1.90	-1.89	-0.63
2,913.0	8.40	39.60	2,882.3	290.4	224.9	367.2	0.66	-0.53	2.63
3,008.0	9.50	43.70	2,976.1	301.4	234.7	381.9	1.34	1.16	4.32
3,103.0	10.30	42.40	3,069.7	313.3	245.8	398.2	0.87	0.84	-1.37
3,198.0	11.40	43.70	3,163.0	326.4	258.0	416.0	1.19	1.16	1.37
3,293.0	9.80	40.50	3,256.4	339.3	269.8	433.5	1.79	-1.68	-3.37
3,388.0	10.90	41.30	3,349.8	352.2	281.0	450.5	1.17	1.16	0.84
3,483.0	10.60	41.40	3,443.2	365.5	292.7	468.2	0.32	-0.32	0.11
3,578.0	10.40	36.40	3,536.6	379.0	303.5	485.5	0.98	-0.21	-5.26
3,673.0	10.70	38.10	3,630.0	392.8	314.1	502.9	0.46	0.32	1.79
3,769.0	9.80	38.70	3,724.4	406.2	324.7	520.0	0.94	-0.94	0.63
3,864.0	9.10	40.70	3,818.1	418.2	334.6	535.6	0.81	-0.74	2.11
3,958.0	8.55	38.80	3,911.0	429.3	343.9	550.0	0.66	-0.59	-2.02
4,054.0	9.65	36.49	4,005.8	441.3	353.1	565.2	1.21	1.15	-2.41
4,148.0	10.30	36.10	4,098.4	454.4	362.8	581.4	0.70	0.69	-0.41
4,244.0	10.30	38.40	4,192.8	468.1	373.1	598.6	0.43	0.00	2.40
4,339.0	9.30	38.30	4,286.5	480.8	383.2	614.8	1.05	-1.05	-0.11
4,434.0	9.13	39.28	4,380.2	492.6	392.7	630.0	0.24	-0.18	1.03
4,529.0	8.70	39.80	4,474.1	504.0	402.1	644.7	0.46	-0.45	0.55
4,624.0	8.70	38.10	4,568.0	515.2	411.1	659.1	0.27	0.00	-1.79
4,719.0	9.30	38.30	4,661.8	526.8	420.3	673.9	0.63	0.63	0.21
4,814.0	9.00	41.50	4,755.6	538.4	430.0	689.0	0.62	-0.32	3.37
4,909.0	8.90	40.00	4,849.5	549.6	439.6	703.8	0.27	-0.11	-1.58
5,004.0	9.00	39.00	4,943.3	561.0	449.0	718.6	0.19	0.11	-1.05
5,099.0	9.00	38.30	5,037.1	572.6	458.3	733.4	0.12	0.00	-0.74
5,194.0	8.70	36.90	5,131.0	584.2	467.2	748.1	0.39	-0.32	-1.47
5,260.2	8.56	38.70	5,196.5	592.1	473.3	758.0	0.46	-0.21	2.72



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

**Local Co-ordinate Reference:** Well N-33-8-17  
**TVD Reference:** N-33-8-17 @ 5175.0ft (RIG 2)  
**MD Reference:** N-33-8-17 @ 5175.0ft (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)
<b>N-33-8-17 TGT</b>									
5,289.0	8.50	39.50	5,224.9	595.4	476.0	762.3	0.46	-0.20	2.78
5,384.0	8.20	39.30	5,318.9	606.0	484.8	776.0	0.32	-0.32	-0.21
5,479.0	10.00	37.70	5,412.7	617.8	494.1	791.1	1.91	1.89	-1.68
5,574.0	10.00	31.70	5,506.3	631.3	503.5	807.5	1.10	0.00	-6.32
5,669.0	10.60	37.60	5,599.8	645.3	513.1	824.4	1.28	0.63	6.21
5,764.0	8.60	36.40	5,693.4	657.9	522.7	840.2	2.12	-2.11	-1.26
5,859.0	9.10	38.40	5,787.3	669.5	531.6	854.9	0.62	0.53	2.11
5,954.0	8.90	43.30	5,881.1	680.8	541.3	869.7	0.83	-0.21	5.16
6,050.0	8.30	45.10	5,976.0	691.1	551.3	884.0	0.68	-0.63	1.88
6,144.0	8.00	46.70	6,069.1	700.3	560.8	897.2	0.40	-0.32	1.70
6,215.0	6.99	44.82	6,139.5	706.8	567.5	906.4	1.46	-1.42	-2.65
6,265.0	6.50	45.20	6,189.1	710.9	571.6	912.3	0.98	-0.98	0.76

**Wellbore Targets**

**Target Name**

- hit/miss target	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (ft)	Easting (ft)	Latitude	Longitude
- Shape									
N-33-8-17 TGT	0.00	0.00	5,200.0	571.1	462.2	7,199,288.80	2,055,490.85	40° 4' 28.064 N	110° 0' 59.894 W
- actual wellpath misses by 24.0ft at 5260.3ft MD (5196.5 TVD, 592.1 N, 473.3 E)									
- Circle (radius 75.0)									

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



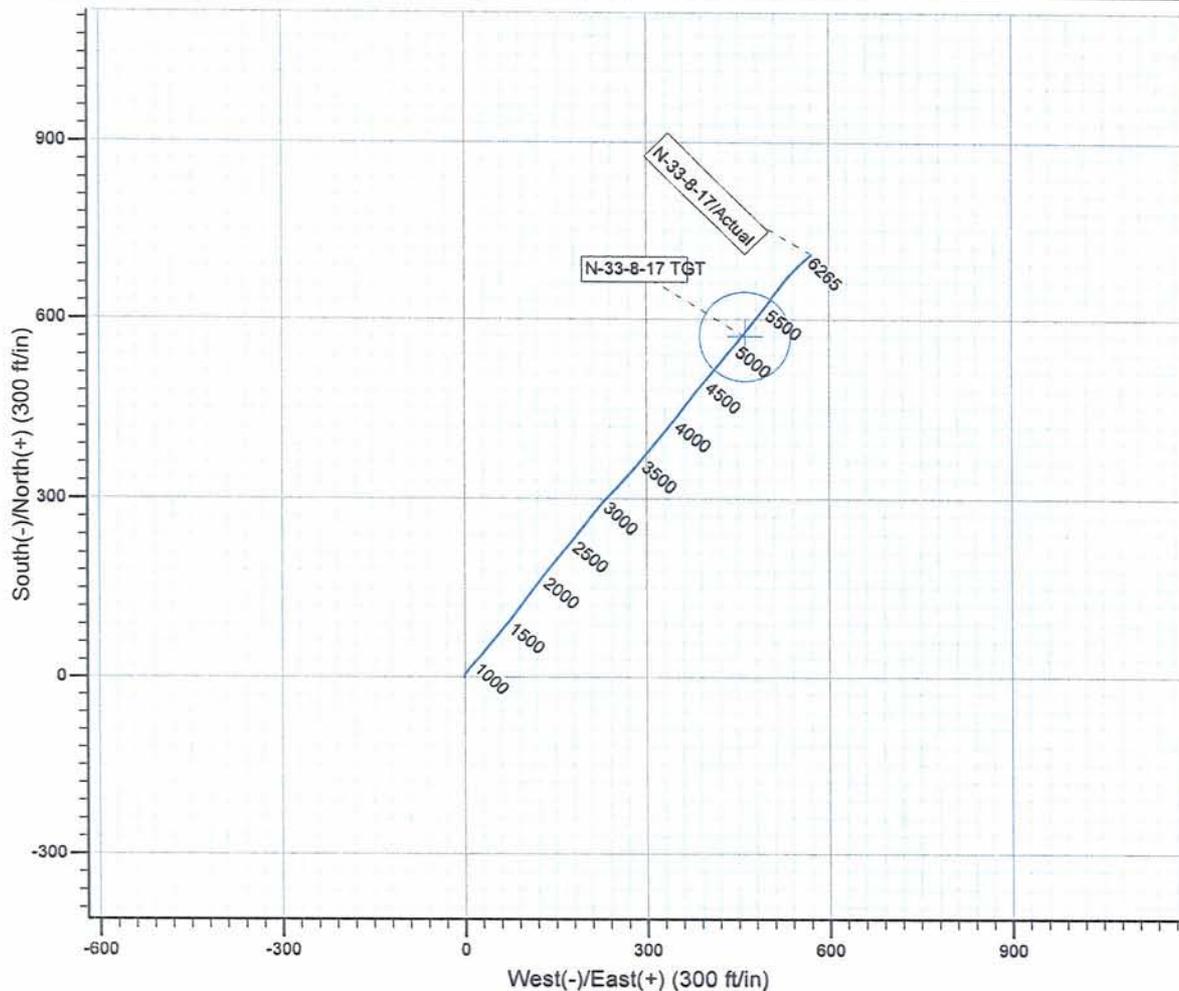
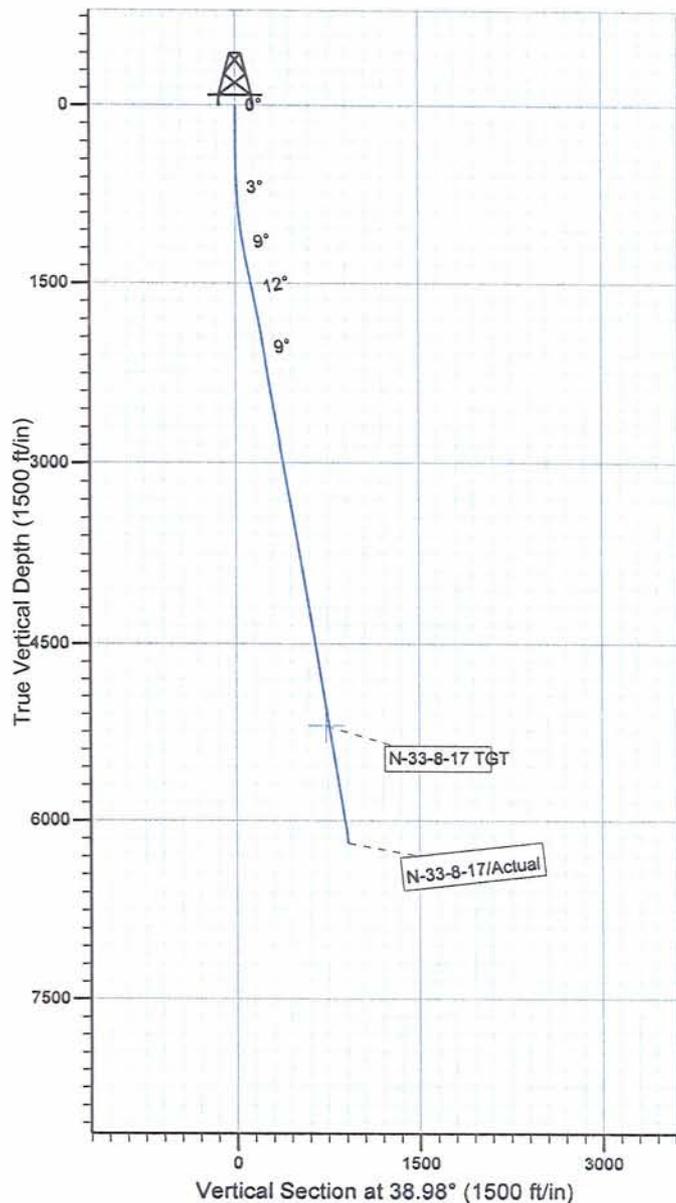
Project: USGS Myton SW (UT)  
 Site: SECTION 33 T8S R17E  
 Well: N-33-8-17  
 Wellbore: Wellbore #1  
 SURVEY: Actual

FINAL SURVEY REPORT



Azimuths to True North  
 Magnetic North: 11.44°

Magnetic Field  
 Strength: 52401.1snT  
 Dip Angle: 65.85°  
 Date: 2010/05/18  
 Model: IGRF2010



Design: Actual (N-33-8-17/Wellbore #1)

Created By: *Tom Hudson* Date: 18:41, June 22 2010  
 THIS SURVEY IS CORRECT TO THE BEST OF MY  
 KNOWLEDGE AND IS SUPPORTED BY ACTUAL FIELD DATA.

**Daily Activity Report**

Format For Sundry

**BLACKJACK N-33-8-17****3/1/2010 To 7/30/2010****BLACKJACK N-33-8-17****Waiting on Cement****Date:** 5/14/2010

Ross #29 at 320. Days Since Spud - 320.81KB. On 5/14/10 R/U Bj and Cement 8 5/8" casing W/ 160sks Class "G" ccement+2%CaCL - +.25#/SK Celloflake mixed @ 15.8ppg W/ 1.17yield Returned 6bbls cement to surface - On 5/7/10 R/U Ross # 29 Spud @ 9:00AM. Drill 320' of 12 1/4" hole, Run 7jts 8 5/8" casing set @

**Daily Cost:** \$0**Cumulative Cost:** \$41,272**BLACKJACK N-33-8-17****Drill 7 7/8" hole with fresh water****Date:** 5/24/2010

NDSI #2 at 781. 1 Days Since Spud - Rig down and prepare for move from GB II N-34-8-17 to Blackjack N-33-8-17. - Rig down and prepare for move from GB II N-34-8-17 to Blackjack N-33-8-17. - Move Rig to the BJ Fed N-33-8-17 - Test Kelly, Safety Valve, Pipe and Blind Rams, and Choke to 2,000PSI for 10 min, Test Surface Casing - Drill 7 7/8" hole F/ 309' to 781' W/ 18,000 WOB, 150 TRPM, 350 GPM, 83.5 TRPM - TIH Scribe Motor - TOOH Change to Low Speed Mud Motor, Change out Pump - Work on Pump - Drill 7 7/8" hole F/ 280' to 309' W/ 18,000 WOB, 150 TRPM, 350 GPM, 83.5 TRPM - 1X4.58' Gap Sub, 1X2.55' Antenna Sub, 1X30.58' Monel, 21 HWDP - Pick Up BHA Smith MI616 7 7/8" PDC Bit, 30.15' 6.5" Hunting 6/7 2.7 .22 1.5° M.M, 1X30.20 Monel, - to 1,500PSI for 30 min. all tested good. - Test Kelly, Safety Valve, Pipe and Blind Rams, and Choke to 2,000PSI for 10 min, Test Surface Casing - Move Rig to the BJ Fed N-33-8-17 - Drill 7 7/8" hole F/ 309' to 781' W/ 18,000 WOB, 150 TRPM, 350 GPM, 83.5 TRPM - TIH Scribe Motor - TOOH Change to Low Speed Mud Motor, Change out Pump - Work on Pump - Drill 7 7/8" hole F/ 280' to 309' W/ 18,000 WOB, 150 TRPM, 350 GPM, 83.5 TRPM - 1X4.58' Gap Sub, 1X2.55' Antenna Sub, 1X30.58' Monel, 21 HWDP - Pick Up BHA Smith MI616 7 7/8" PDC Bit, 30.15' 6.5" Hunting 6/7 2.7 .22 1.5° M.M, 1X30.20 Monel, - to 1,500PSI for 30 min. all tested good.

**Daily Cost:** \$0**Cumulative Cost:** \$79,929**BLACKJACK N-33-8-17****Drill 7 7/8" hole with fresh water****Date:** 5/25/2010

NDSI #2 at 3502. 2 Days Since Spud - Last survey @ 3388' w/ inclination of 10.9 deg and azimuth of 41.3 deg. - Rig service. - Drill 7 7/8" hole from 2107' to 3502' w/ 20 klbs WOB, 101 total RPM, 247 GPM, and 96 ft/hr avg ROP. - Drill 7 7/8" hole from 781' to 2107' w/ 20 klbs WOB, 101 total RPM, 247 GPM, and 147 ft/hr avg ROP.

**Daily Cost:** \$0**Cumulative Cost:** \$98,838**BLACKJACK N-33-8-17****Drill 7 7/8" hole with fresh water****Date:** 5/26/2010

NDSI #2 at 5339. 3 Days Since Spud - Last survey @ 5194' w/ 8.7 deg inclination and 36.9 deg azimuth. - Drill 7 7/8" hole from 4103' to 5339' w/ 23 klbs WOB, 101 total RPM, 247 GPM, and 71 ft/hr avg ROP. - Rig service. Check crownomatic and fuction test BOP. - Drill 7 7/8" hole from 3502' to 4103' w/ 22 klbs WOB, 101 total RPM, 247 GPM, and 100 ft/hr avg ROP.

**Daily Cost:** \$0**Cumulative Cost:** \$117,747

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**BLACKJACK N-33-8-17****Wait on Completion****Date:** 5/27/2010

NDSI #2 at 6265. 5 Days Since Spud - Release Rig @ 8:30PM 5/27/10 Ryan Crum - Drill 7 7/8" hole from 5339' to 5750' w/ 25 klbs WOB, 101 total RPM, 247 GPM, and 69 ft/hr avg ROP. - 14.4ppg 1.24yield returned 30bbbls to pit - 11ppg W/3.54 yield. 400sk 50:50:2+3% KCL+0.5%EC-1+.25#CF+.3SMS+FP-6L - Cement W/ 300sk PL 11+3% KCL+5#CSE++0.5#CF+2#KOL+.5SMS+FP+SF Mixed @ - Rig up BJ Hardlines and Circulate W/ Rig Pump - Rig up and Run 144jts 5 1/2" Casing set @ - Pressure Test 5 1/2" Casing Rams to 2,000PSI For ten Minutes Tested Good - Log Well - Rig up PSI and run triple combo log from logger's TD (6248') to surface. - Lay down drill pipe and BHA. - Pump sweep and circulate. - Drill 7 7/8" hole from 6099' to 6265' w/ 22 klbs WOB, 101 total RPM, 247 GPM, and 66 ft/hr avg ROP. - Drill 7 7/8" hole from 5750' to 6099' w/ 25 klbs WOB, 101 total RPM, 247 GPM, and 63 ft/hr avg ROP. - Rig service. Check crownomatic and function test BOP. - Drill 7 7/8" hole from 5339' to 5750' w/ 25 klbs WOB, 101 total RPM, 247 GPM, and 69 ft/hr avg ROP. - Release Rig @ 8:30PM 5/27/10 Ryan Crum - Clean Mud Tanks - 14.4ppg 1.24yield returned 30bbbls to pit - 11ppg W/3.54 yield. 400sk 50:50:2+3%KCL+0.5%EC-1+.25#CF+.3SMS+FP-6L - Cement W/ 300sk PL 11+3% KCL+5#CSE++0.5#CF+2#KOL+.5SMS+FP+SF Mixed @ - Rig up BJ Hardlines and Circulate W/ Rig Pump - Rig up and Run 144jts 5 1/2" Casing set @ - Pressure Test 5 1/2" Casing Rams to 2,000PSI For ten Minutes Tested Good - Log Well - Rig up PSI and run triple combo log from logger's TD (6248') to surface. - Lay down drill pipe and BHA. - Pump sweep and circulate. - Drill 7 7/8" hole from 6099' to 6265' w/ 22 klbs WOB, 101 total RPM, 247 GPM, and 66 ft/hr avg ROP. - Drill 7 7/8" hole from 5750' to 6099' w/ 25 klbs WOB, 101 total RPM, 247 GPM, and 63 ft/hr avg ROP. - Rig service. Check crownomatic and function test BOP. - Clean Mud Tanks **Finalized**

**Daily Cost:** \$0**Cumulative Cost:** \$283,542

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**Pertinent Files: Go to File List**