

# NEWFIELD



Route #3 Box 3630  
Myton, Utah 84052  
(435) 646-4825, FAX: (435) 646-3031

February 29, 2008

State of Utah  
Division of Oil, Gas & Mining  
Attn: Diana Mason  
1594 West North Temple - Suite 1210  
P.O. Box 145801  
Salt Lake City, Utah 84114-5801

RE: Applications for Permit to Drill

**Blackjack Federal L-4-9-17**

**Blackjack Federal F-10-9-17**

**Blackjack Federal G-10-9-17**

**Blackjack Federal P-10-9-17**

**Jonah Federal N-5-9-17**

**Jonah Federal Q-5-9-17**

**Beluga Federal Q-7-9-17**

**Blackjack Federal Q-10-9-17**

Dear Diana:

Enclosed find APD's on the above referenced wells. Our Land Department will send you the required Directional Drill Letters. If you have any questions, feel free to give either Dave Allred or myself a call.

Sincerely,

Mandie Crozier  
Regulatory Specialist

mc  
enclosures

RECEIVED  
MAR 06 2008  
DIV. OF OIL, GAS & MINING

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-70821
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 Q-10-9-17
3b. Phone No. (include area code) (435) 646-3721		9. API Well No. 43013-33917
4. Location of Well (Report location clearly and in accordance with any State requirements. *) At surface SW/SW 324' FSL 705' FWL At proposed prod. zone 1205' FSL 1245' FWL		10. Field and Pool, or Exploratory Monument Butte
14. Distance in miles and direction from nearest town or post office* (Specify direction) Approximately 15.8 miles southeast of Myton, Utah		11. Sec., T., R., M., or Blk. and Survey or Area Sec. 10, T9S R17E
15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any) Approx. 1205' f/ise, 1205' f/unit	16. No. of Acres in lease 240.00	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. 1450'	19. Proposed Depth 5840'	20. BLM/BIA Bond No. on file WYB000493
21. Elevations (Show whether DF, KDB, RT, GL, etc.) 5209' GL	22. Approximate date work will start* 2nd Quarter 2008	23. Estimated duration Approximately seven (7) days from spud to rig release.
24. Attachments		

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

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

25. Signature 	Name (Printed/Typed) Mandie Crozier	Date 2/29/08
Title Regulatory Specialist		
Approved by (Signature) 	Name (Printed/Typed) BRADLEY G. HILL	Date 03-20-08
Title 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  
585401X  
4432376Y  
40.03918Z  
-109.998979

BHL  
585563X  
4432645Y  
40.04159Z  
-109.997041

Federal Approval of this  
Action is Necessary

RECEIVED

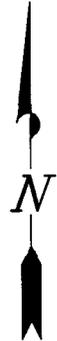
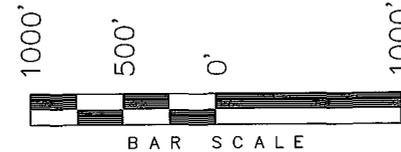
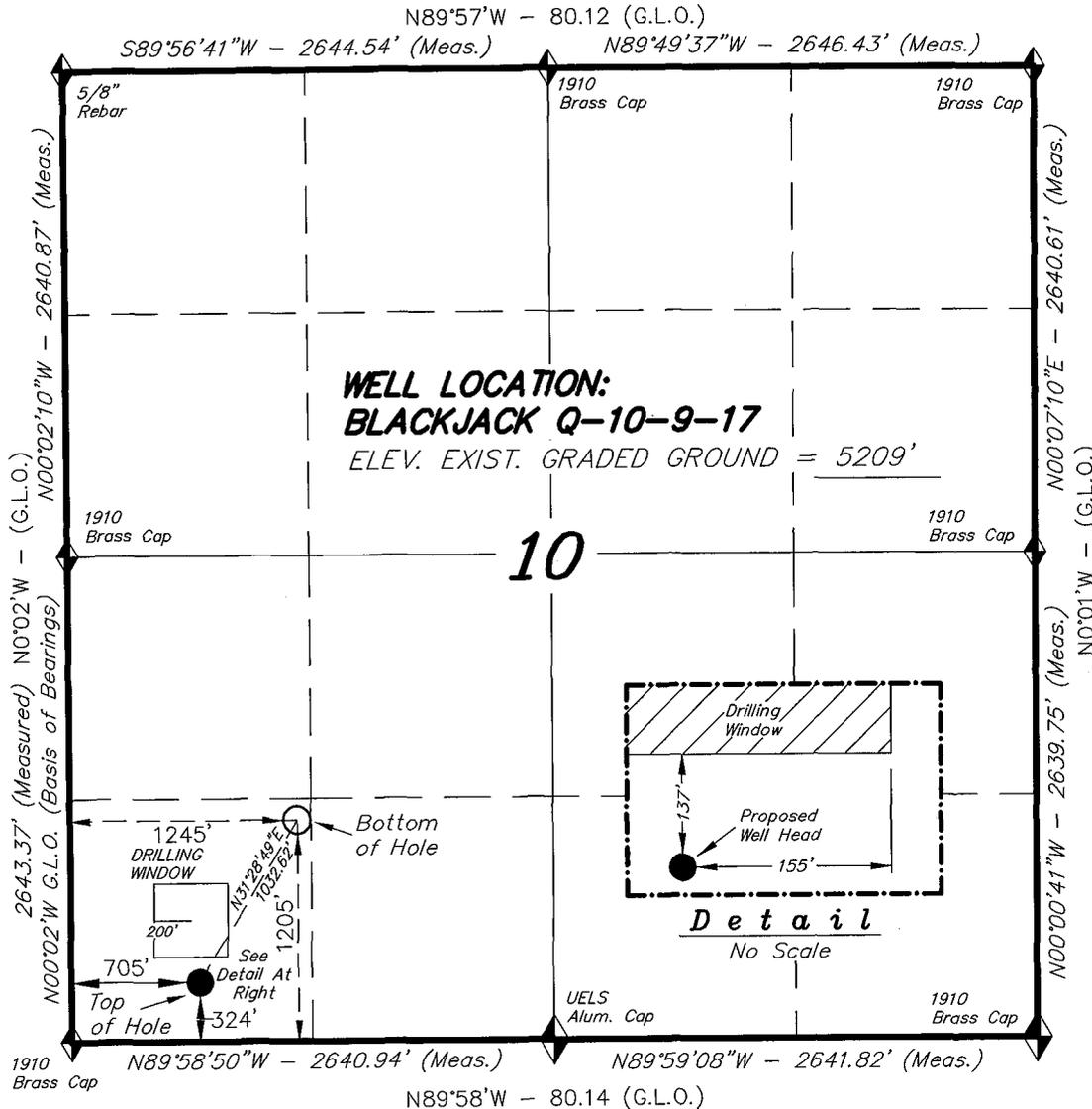
MAR 06 2008

DIV. OF OIL, GAS & MINING

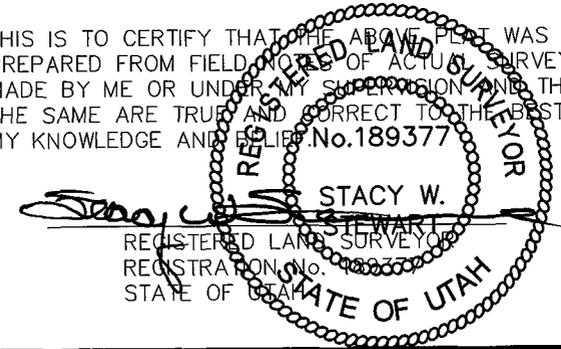
# T9S, R17E, S.L.B.&M.

## NEWFIELD PRODUCTION COMPANY

WELL LOCATION, BLACKJACK Q-10-9-17,  
 LOCATED AS SHOWN IN THE SW 1/4 SW  
 1/4 OF SECTION 10, T9S, R17E, S.L.B.&M.  
 DUCHESNE COUNTY, UTAH.



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



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

DATE SURVEYED: 11-27-07	SURVEYED BY: T.H.
DATE DRAWN: 12-11-07	DRAWN BY: F.T.M.
REVISED: 02-08-08 L.C.S.	SCALE: 1" = 1000'

◆ = SECTION CORNERS LOCATED

BASIS OF ELEV;  
 U.S.G.S. 7-1/2 min QUAD (PARIETTE DRAW SW)

**BLACKJACK Q-10-9-17**  
 (Surface Location) NAD 83  
 LATITUDE = 40° 02' 20.73"  
 LONGITUDE = 109° 59' 58.78"

NEWFIELD PRODUCTION COMPANY  
BLACKJACK FEDERAL #Q-10-9-17  
AT SURFACE: SW/SW SECTION 10, T9S, 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' – 1291'
Green River	1291'
Wasatch	5840'

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

Green River Formation 1291' – 5840' - 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 #Q-10-9-17  
AT SURFACE: SW/SW SECTION 10, T9S, 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 #Q-10-9-17 located in the SW 1/4 SW 1/4 Section 10, T9S, 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 - 13.1 miles  $\pm$  to its junction with an existing road to the south; proceed in a southwesterly direction - 1.3 miles  $\pm$  to the existing Blackjack Federal 13-10-9-17 well location.

**2. PLANNED ACCESS ROAD**

There is no proposed access road for this location. The proposed well will be drilled directionally off of the existing Blackjack Federal 13-10-9-17 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 Blackjack Federal 13-10-9-17 well pad. There will be a pumping unit and a short flow line added to the tank battery for the proposed Blackjack Federal Q-10-9-17. 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 Q-10-9-17 will be drilled off of the existing Blackjack Federal 13-10-9-17 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 1580' of disturbed area be granted to allow for construction of the proposed water lines. It is proposed that the disturbed area will temporarily be 50' wide to allow for construction of a buried 3" steel water injection line and a buried 3" poly water return line and 30' wide upon completion of the proposed water lines. Refer to Topographic Map "C." For a ROW plan of development, please refer to the Monument Butte Field SOP. In the event that the proposed well is converted to a water injection well, a separate injection permit will be applied for through the proper agencies.

The Archaeological Resource Survey and Paleontological Resource Survey for the 1,580' of proposed water injection pipeline will be forthcoming.

**Water Disposal**

Immediately upon first production, all produced water will be confined to a steel storage tank. If the production water meets quality guidelines, it is transported to the Ashley, Monument Butte, Jonah, and Beluga water injection facilities by company or contract trucks. Subsequently, the produced water is injected into approved Class II wells to enhance Newfield's secondary recovery project.

Water not meeting quality criteria, is disposed at Newfield's Pariette #4 disposal well (Sec. 7, T9S R19E) or at State of Utah approved surface disposal facilities.

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

None for the proposed Blackjack Federal Q-10-9-17.

**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)

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

**Details of the On-Site Inspection**

The proposed Blackjack Federal Q-10-9-17 was on-sited on 1/15/08. The following were present; Dave Allred (Newfield Production), Kevan Stevens (Newfield Production), Michael Cutler (Bureau of Land Management), and Brandon McDonald (Bureau of Land Management).. Weather conditions were clear and the ground was covered by snow.

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

Representative

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

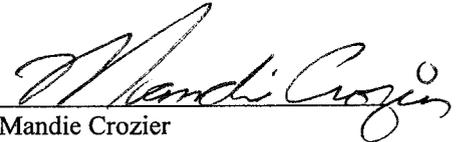
Certification

Please be advised that NEWFIELD PRODUCTION COMPANY is considered to be the operator of well #Q-10-9-17 SW/SW Section 10, Township 9S, Range 17E: Lease UTU-70821 Duchesne County, Utah: and is responsible under the terms and conditions of the lease for the operations conducted upon the leased lands. Bond coverage is provided by, Federal Bond #WYB000493.

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

2/29/08

Date



Mandie Crozier  
Regulatory Specialist  
Newfield Production Company



**Scientific Drilling**  
Rocky Mountain Operations

Project: Duchesne County, UTNAD83 UTC **Blackjack Exploration Co.**

Site: Blackjack  
Well: Blackjack Q-10-9-17  
Wellbore: OH  
Design: Plan #1

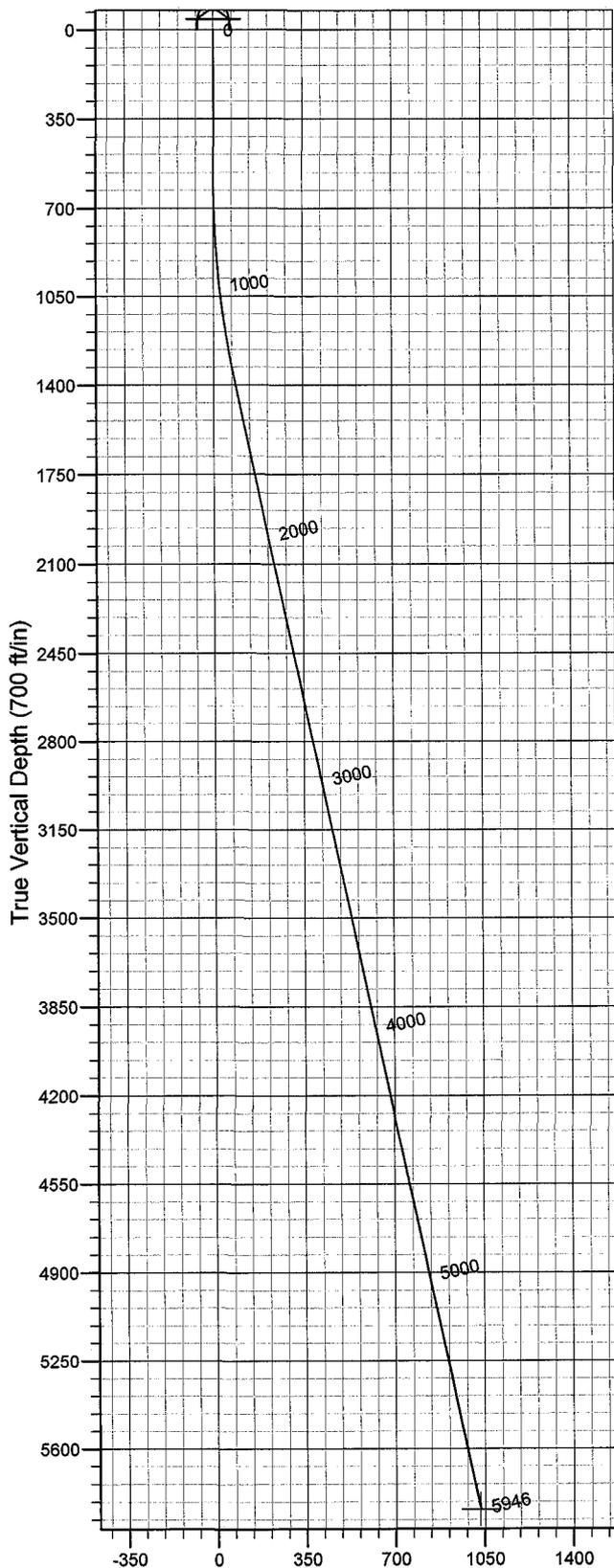


Azimuths to True North  
Magnetic North: 11.70°

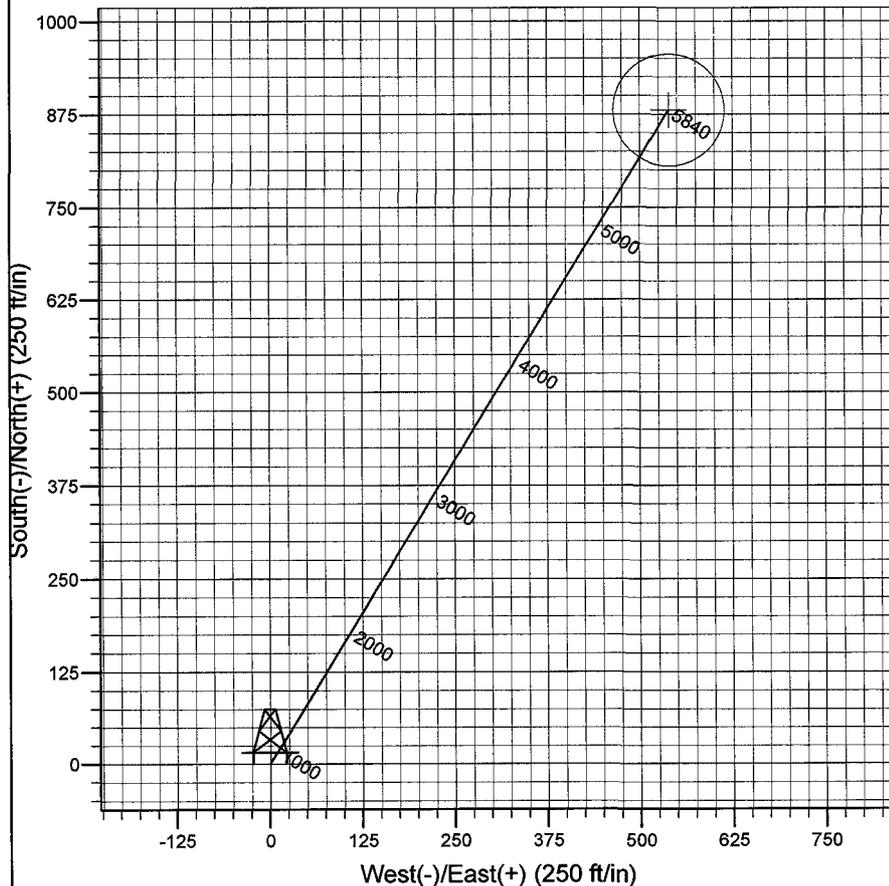
Magnetic Field  
Strength: 52630.9snT  
Dip Angle: 65.89°  
Date: 2008-02-17  
Model: IGRF2005-10

WELL DETAILS: Blackjack Q-10-9-17

GL 5209' & RKB 12' @ 5221.00ft (NDSI 2) 5209.00  
 +N/-S 0.00 +E/-W 0.00 Northing 7186500.25 Easting 2060460.91 Latitude 40° 2' 20.730 N Longitude 109° 59' 58.780 W



Vertical Section at 31.48° (700 ft/in)



Plan: Plan #1 (Blackjack Q-10-9-17/OH)  
 Created By: Julie Cruse Date: 2008-02-17  
 PROJECT DETAILS: Duchesne County, UTNAD83 UTC  
 Geodetic System: US State Plane 1983  
 Datum: North American Datum 1983  
 Ellipsoid: GRS 1980  
 Zone: Utah Central Zone  
 Location:  
 System Datum: Mean Sea Level  
 Local North: True North

SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	DLeg	TFace	VSec	Target
1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2	600.00	0.00	0.00	600.00	0.00	0.00	0.00	0.00	0.00	
	31403.42	12.05	31.48	1397.51	71.79	43.96	1.50	31.48	84.18	
	45946.02	12.05	31.48	5840.00	880.64	539.24	0.00	0.00	1032.62	BJ Q-10-9-17 PBHL

# **Newfield Exploration Co.**

**Duchesne County, UTNAD83 UTC**

**Blackjack**

**Blackjack Q-10-9-17**

**OH**

**Plan: Plan #1**

## **Standard Planning Report**

**17 February, 2008**

# Scientific Drilling

## Planning Report

**Database:** EDM 2003.16 Multi-User Db  
**Company:** Newfield Exploration Co.  
**Project:** Duchesne County, UTNAD83 UTC  
**Site:** Blackjack  
**Well:** Blackjack Q-10-9-17  
**Wellbore:** OH  
**Design:** Plan #1

**Local Co-ordinate Reference:** Well Blackjack Q-10-9-17  
**TVD Reference:** GL 5209' & RKB 12' @ 5221.00ft (NDSI 2)  
**MD Reference:** GL 5209' & RKB 12' @ 5221.00ft (NDSI 2)  
**North Reference:** True  
**Survey Calculation Method:** Minimum Curvature

<b>Project</b>	Duchesne County, UTNAD83 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>From:</b>	Lat/Long	<b>Easting:</b>	2,059,050.06 ft
<b>Position Uncertainty:</b>	0.00 ft	<b>Slot Radius:</b>	in
		<b>Latitude:</b>	40° 2' 37.900 N
		<b>Longitude:</b>	110° 0' 16.550 W
		<b>Grid Convergence:</b>	0.96 °

<b>Well</b>	Blackjack Q-10-9-17, 324' FSL 705' FWL Sec 10 T9S R17E		
<b>Well Position</b>	<b>+N/-S</b>	0.00 ft	<b>Northing:</b> 7,186,500.25 ft
	<b>+E/-W</b>	0.00 ft	<b>Easting:</b> 2,060,460.91 ft
<b>Position Uncertainty</b>	0.00 ft	<b>Wellhead Elevation:</b>	ft
		<b>Latitude:</b>	40° 2' 20.730 N
		<b>Longitude:</b>	109° 59' 58.780 W
		<b>Ground Level:</b>	5,209.00 ft

<b>Wellbore</b>	OH				
<b>Magnetics</b>	<b>Model Name</b>	<b>Sample Date</b>	<b>Declination (°)</b>	<b>Dip Angle (°)</b>	<b>Field Strength (nT)</b>
	IGRF2005-10	2008-02-17	11.70	65.89	52,631

<b>Design</b>	Plan #1			
<b>Audit Notes:</b>				
<b>Version:</b>	<b>Phase:</b>	PLAN	<b>Tie On Depth:</b>	0.00
<b>Vertical Section:</b>	<b>Depth From (TVD) (ft)</b>	<b>+N/-S (ft)</b>	<b>+E/-W (ft)</b>	<b>Direction (°)</b>
	0.00	0.00	0.00	31.48

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	
1,403.42	12.05	31.48	1,397.51	71.79	43.96	1.50	1.50	0.00	31.48	
5,946.02	12.05	31.48	5,840.00	880.64	539.24	0.00	0.00	0.00	0.00	BJ Q-10-9-17 PBHL

# Scientific Drilling

## Planning Report

**Database:** EDM 2003.16 Multi-User Db  
**Company:** Newfield Exploration Co.  
**Project:** Duchesne County, UTNAD83 UTC  
**Site:** Blackjack  
**Well:** Blackjack Q-10-9-17  
**Wellbore:** OH  
**Design:** Plan #1

**Local Co-ordinate Reference:** Well Blackjack Q-10-9-17  
**TVD Reference:** GL 5209' & RKB 12' @ 5221.00ft (NDSI 2)  
**MD Reference:** GL 5209' & RKB 12' @ 5221.00ft (NDSI 2)  
**North Reference:** True  
**Survey Calculation Method:** Minimum Curvature

### Planned Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
100.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00
200.00	0.00	0.00	200.00	0.00	0.00	0.00	0.00	0.00	0.00
300.00	0.00	0.00	300.00	0.00	0.00	0.00	0.00	0.00	0.00
400.00	0.00	0.00	400.00	0.00	0.00	0.00	0.00	0.00	0.00
500.00	0.00	0.00	500.00	0.00	0.00	0.00	0.00	0.00	0.00
600.00	0.00	0.00	600.00	0.00	0.00	0.00	0.00	0.00	0.00
700.00	1.50	31.48	699.99	1.12	0.68	1.31	1.50	1.50	0.00
800.00	3.00	31.48	799.91	4.46	2.73	5.23	1.50	1.50	0.00
900.00	4.50	31.48	899.69	10.04	6.15	11.77	1.50	1.50	0.00
1,000.00	6.00	31.48	999.27	17.85	10.93	20.92	1.50	1.50	0.00
1,100.00	7.50	31.48	1,098.57	27.87	17.06	32.68	1.50	1.50	0.00
1,200.00	9.00	31.48	1,197.54	40.11	24.56	47.03	1.50	1.50	0.00
1,300.00	10.50	31.48	1,296.09	54.55	33.40	63.96	1.50	1.50	0.00
1,400.00	12.00	31.48	1,394.16	71.19	43.59	83.47	1.50	1.50	0.00
1,403.42	12.05	31.48	1,397.51	71.79	43.96	84.18	1.50	1.50	0.00
1,500.00	12.05	31.48	1,491.96	88.99	54.49	104.35	0.00	0.00	0.00
1,600.00	12.05	31.48	1,589.76	106.80	65.39	125.23	0.00	0.00	0.00
1,700.00	12.05	31.48	1,687.55	124.60	76.30	146.10	0.00	0.00	0.00
1,800.00	12.05	31.48	1,785.35	142.41	87.20	166.98	0.00	0.00	0.00
1,900.00	12.05	31.48	1,883.15	160.21	98.10	187.86	0.00	0.00	0.00
2,000.00	12.05	31.48	1,980.94	178.02	109.00	208.74	0.00	0.00	0.00
2,100.00	12.05	31.48	2,078.74	195.82	119.91	229.62	0.00	0.00	0.00
2,200.00	12.05	31.48	2,176.53	213.63	130.81	250.50	0.00	0.00	0.00
2,300.00	12.05	31.48	2,274.33	231.44	141.71	271.38	0.00	0.00	0.00
2,400.00	12.05	31.48	2,372.13	249.24	152.62	292.26	0.00	0.00	0.00
2,500.00	12.05	31.48	2,469.92	267.05	163.52	313.13	0.00	0.00	0.00
2,600.00	12.05	31.48	2,567.72	284.85	174.42	334.01	0.00	0.00	0.00
2,700.00	12.05	31.48	2,665.51	302.66	185.32	354.89	0.00	0.00	0.00
2,800.00	12.05	31.48	2,763.31	320.47	196.23	375.77	0.00	0.00	0.00
2,900.00	12.05	31.48	2,861.11	338.27	207.13	396.65	0.00	0.00	0.00
3,000.00	12.05	31.48	2,958.90	356.08	218.03	417.53	0.00	0.00	0.00
3,100.00	12.05	31.48	3,056.70	373.88	228.94	438.41	0.00	0.00	0.00
3,200.00	12.05	31.48	3,154.49	391.69	239.84	459.29	0.00	0.00	0.00
3,300.00	12.05	31.48	3,252.29	409.49	250.74	480.16	0.00	0.00	0.00
3,400.00	12.05	31.48	3,350.09	427.30	261.64	501.04	0.00	0.00	0.00
3,500.00	12.05	31.48	3,447.88	445.11	272.55	521.92	0.00	0.00	0.00
3,600.00	12.05	31.48	3,545.68	462.91	283.45	542.80	0.00	0.00	0.00
3,700.00	12.05	31.48	3,643.48	480.72	294.35	563.68	0.00	0.00	0.00
3,800.00	12.05	31.48	3,741.27	498.52	305.26	584.56	0.00	0.00	0.00
3,900.00	12.05	31.48	3,839.07	516.33	316.16	605.44	0.00	0.00	0.00
4,000.00	12.05	31.48	3,936.86	534.14	327.06	626.32	0.00	0.00	0.00
4,100.00	12.05	31.48	4,034.66	551.94	337.97	647.19	0.00	0.00	0.00
4,200.00	12.05	31.48	4,132.46	569.75	348.87	668.07	0.00	0.00	0.00
4,300.00	12.05	31.48	4,230.25	587.55	359.77	688.95	0.00	0.00	0.00
4,400.00	12.05	31.48	4,328.05	605.36	370.67	709.83	0.00	0.00	0.00
4,500.00	12.05	31.48	4,425.84	623.16	381.58	730.71	0.00	0.00	0.00
4,600.00	12.05	31.48	4,523.64	640.97	392.48	751.59	0.00	0.00	0.00
4,700.00	12.05	31.48	4,621.44	658.78	403.38	772.47	0.00	0.00	0.00
4,800.00	12.05	31.48	4,719.23	676.58	414.29	793.34	0.00	0.00	0.00
4,900.00	12.05	31.48	4,817.03	694.39	425.19	814.22	0.00	0.00	0.00
5,000.00	12.05	31.48	4,914.82	712.19	436.09	835.10	0.00	0.00	0.00
5,100.00	12.05	31.48	5,012.62	730.00	446.99	855.98	0.00	0.00	0.00
5,200.00	12.05	31.48	5,110.42	747.81	457.90	876.86	0.00	0.00	0.00

# Scientific Drilling

## Planning Report

**Database:** EDM 2003.16 Multi-User Db  
**Company:** Newfield Exploration Co.  
**Project:** Duchesne County, UTNAD83 UTC  
**Site:** Blackjack  
**Well:** Blackjack Q-10-9-17  
**Wellbore:** OH  
**Design:** Plan #1

**Local Co-ordinate Reference:** Well Blackjack Q-10-9-17  
**TVD Reference:** GL 5209' & RKB 12' @ 5221.00ft (NDSI 2)  
**MD Reference:** GL 5209' & RKB 12' @ 5221.00ft (NDSI 2)  
**North Reference:** True  
**Survey Calculation Method:** Minimum Curvature

### Planned Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
5,300.00	12.05	31.48	5,208.21	765.61	468.80	897.74	0.00	0.00	0.00
5,400.00	12.05	31.48	5,306.01	783.42	479.70	918.62	0.00	0.00	0.00
5,500.00	12.05	31.48	5,403.81	801.22	490.61	939.50	0.00	0.00	0.00
5,600.00	12.05	31.48	5,501.60	819.03	501.51	960.37	0.00	0.00	0.00
5,700.00	12.05	31.48	5,599.40	836.83	512.41	981.25	0.00	0.00	0.00
5,800.00	12.05	31.48	5,697.19	854.64	523.31	1,002.13	0.00	0.00	0.00
5,900.00	12.05	31.48	5,794.99	872.45	534.22	1,023.01	0.00	0.00	0.00
5,946.02	12.05	31.48	5,840.00	880.64	539.24	1,032.62	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
BJ Q-10-9-17 PBHL - plan hits target center - Circle (radius 75.00)	0.00	0.00	5,840.00	880.64	539.24	7,187,389.81	2,060,985.30	40° 2' 29.433 N	109° 59' 51.846 W

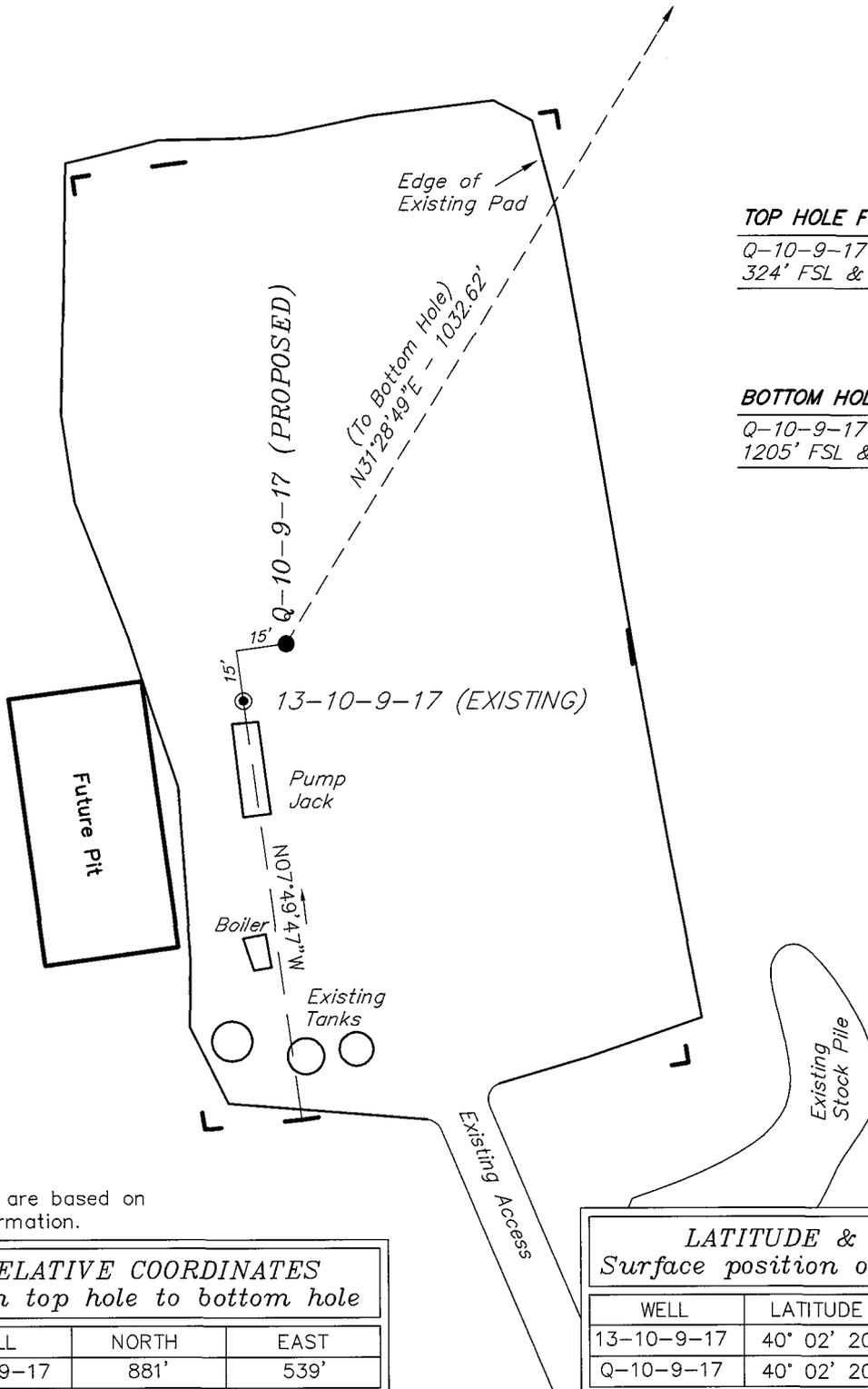
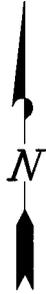
# NEWFIELD PRODUCTION COMPANY

## WELL PAD INTERFERENCE PLAT

**BLACKJACK Q-10-9-17 (Proposed Well)**

**BLACKJACK 13-10-9-17 (Existing Well)**

Pad Location: SWSW Section 10, T9S, R17E, S.L.B.&M.



### TOP HOLE FOOTAGES

Q-10-9-17 (PROPOSED)  
324' FSL & 705' FWL

### BOTTOM HOLE FOOTAGES

Q-10-9-17 (PROPOSED)  
1205' FSL & 1245' FWL

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

RELATIVE COORDINATES From top hole to bottom hole		
WELL	NORTH	EAST
Q-10-9-17	881'	539'

LATITUDE & LONGITUDE Surface position of Wells (NAD 83)		
WELL	LATITUDE	LONGITUDE
13-10-9-17	40° 02' 20.56"	109° 59' 58.95"
Q-10-9-17	40° 02' 20.73"	109° 59' 58.78"

SURVEYED BY: T.H.	DATE SURVEYED: 11-27-07
DRAWN BY: F.T.M.	DATE DRAWN: 12-11-07
SCALE: 1" = 50'	REVISED: L.C.S. 02-08-08

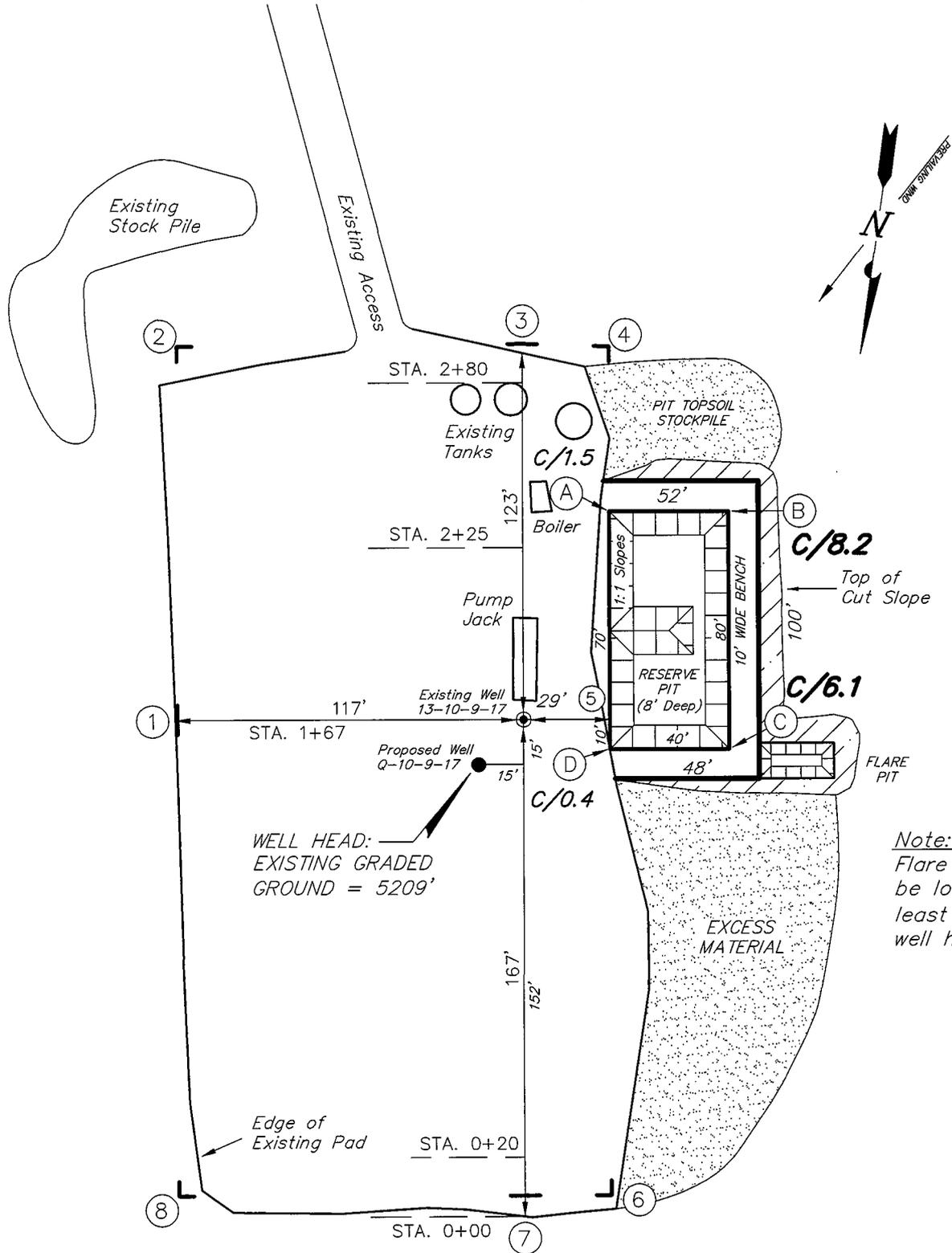
**Tri State** (435) 781-2501  
Land Surveying, Inc.  
180 NORTH VERNAL AVE. VERNAL, UTAH 84078

# NEWFIELD PRODUCTION COMPANY

**BLACKJACK Q-10-9-17 (Proposed Well)**

**BLACKJACK 13-10-9-17 (Existing Well)**

Pad Location: SWSW Section 10, T9S, R17E, S.L.B.&M.



WELL HEAD:  
EXISTING GRADED  
GROUND = 5209'

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

SURVEYED BY: T.H.	DATE SURVEYED: 11-27-07
DRAWN BY: F.T.M.	DATE DRAWN: 12-11-07
SCALE: 1" = 50'	REVISED:

(435) 781-2501

**Tri State**  
Land Surveying, Inc.

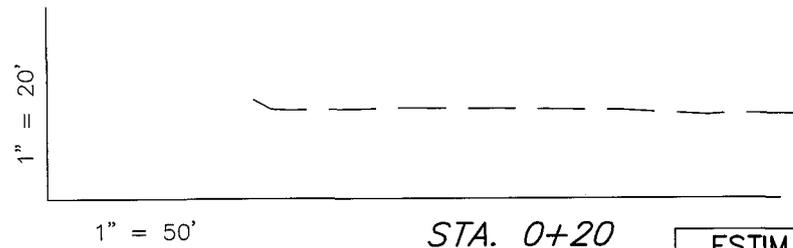
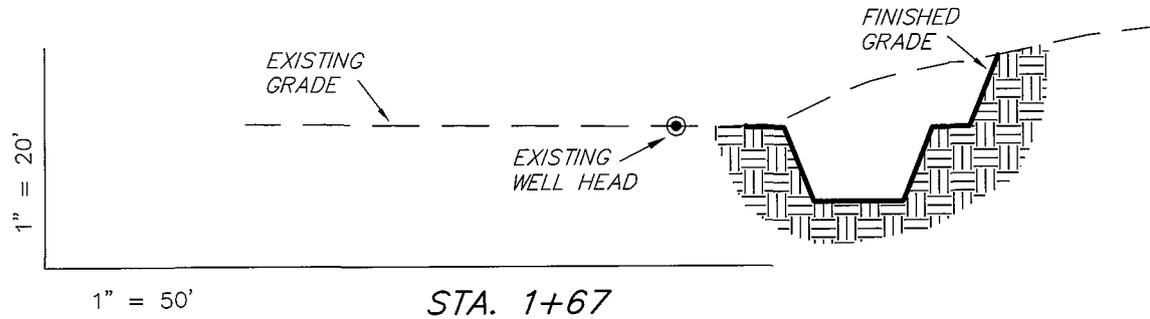
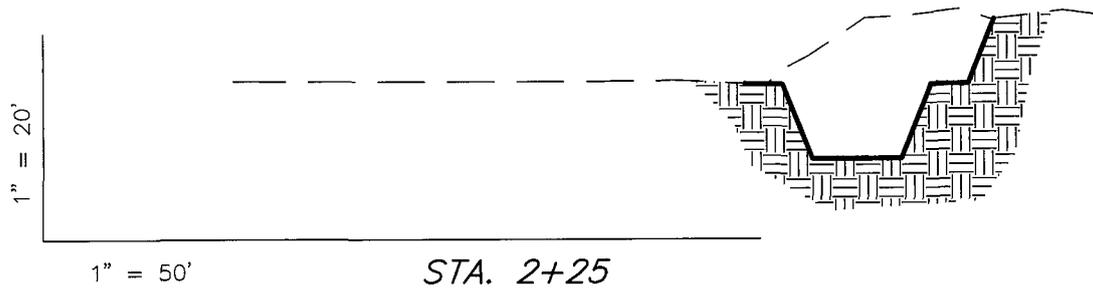
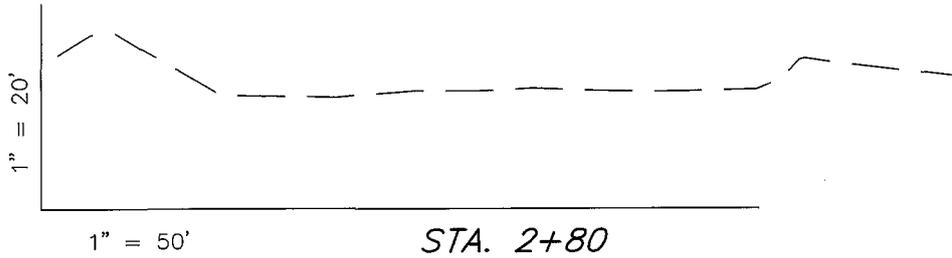
180 NORTH VERNAL AVE. VERNAL, UTAH 84078

# NEWFIELD PRODUCTION COMPANY

## CROSS SECTIONS

BLACKJACK Q-10-9-17 (Proposed Well)

BLACKJACK 13-10-9-17 (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	1,280	0	Topsoil is not included in Pad Cut	1,280
PIT	640	0		640
TOTALS	1,920	0	150	1,920

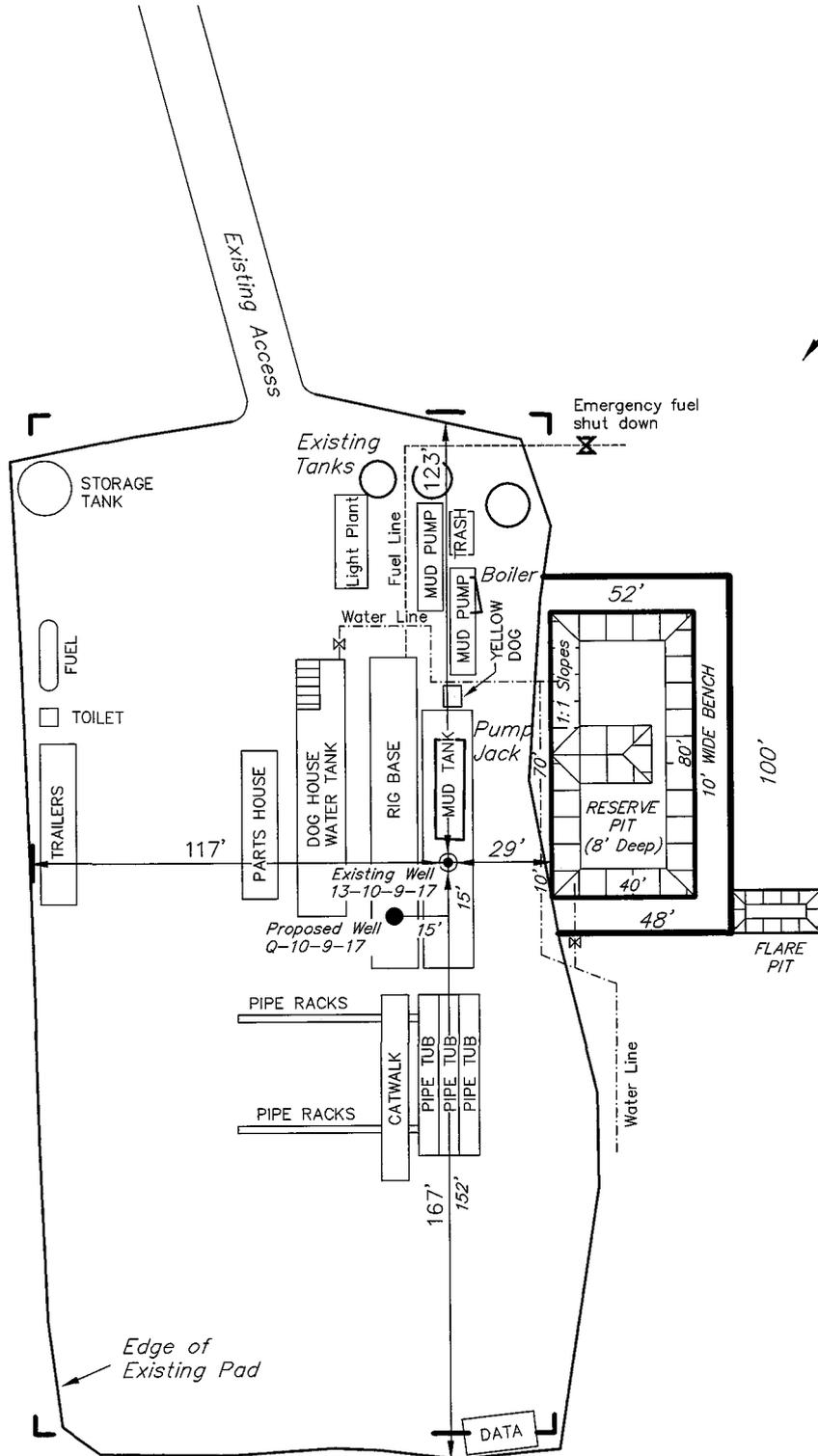
SURVEYED BY: T.H.	DATE SURVEYED: 11-27-07
DRAWN BY: F.T.M.	DATE DRAWN: 12-11-07
SCALE: 1" = 50'	REVISED:

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

# NEWFIELD PRODUCTION COMPANY

## TYPICAL RIG LAYOUT

BLACKJACK Q-10-9-17 (Proposed Well)  
 BLACKJACK 13-10-9-17 (Existing Well)



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

SURVEYED BY: T.H.	DATE SURVEYED: 11-27-07
DRAWN BY: F.T.M.	DATE DRAWN: 12-11-07
SCALE: 1" = 50'	REVISED:

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

# Newfield Production Company Proposed Site Facility Diagram

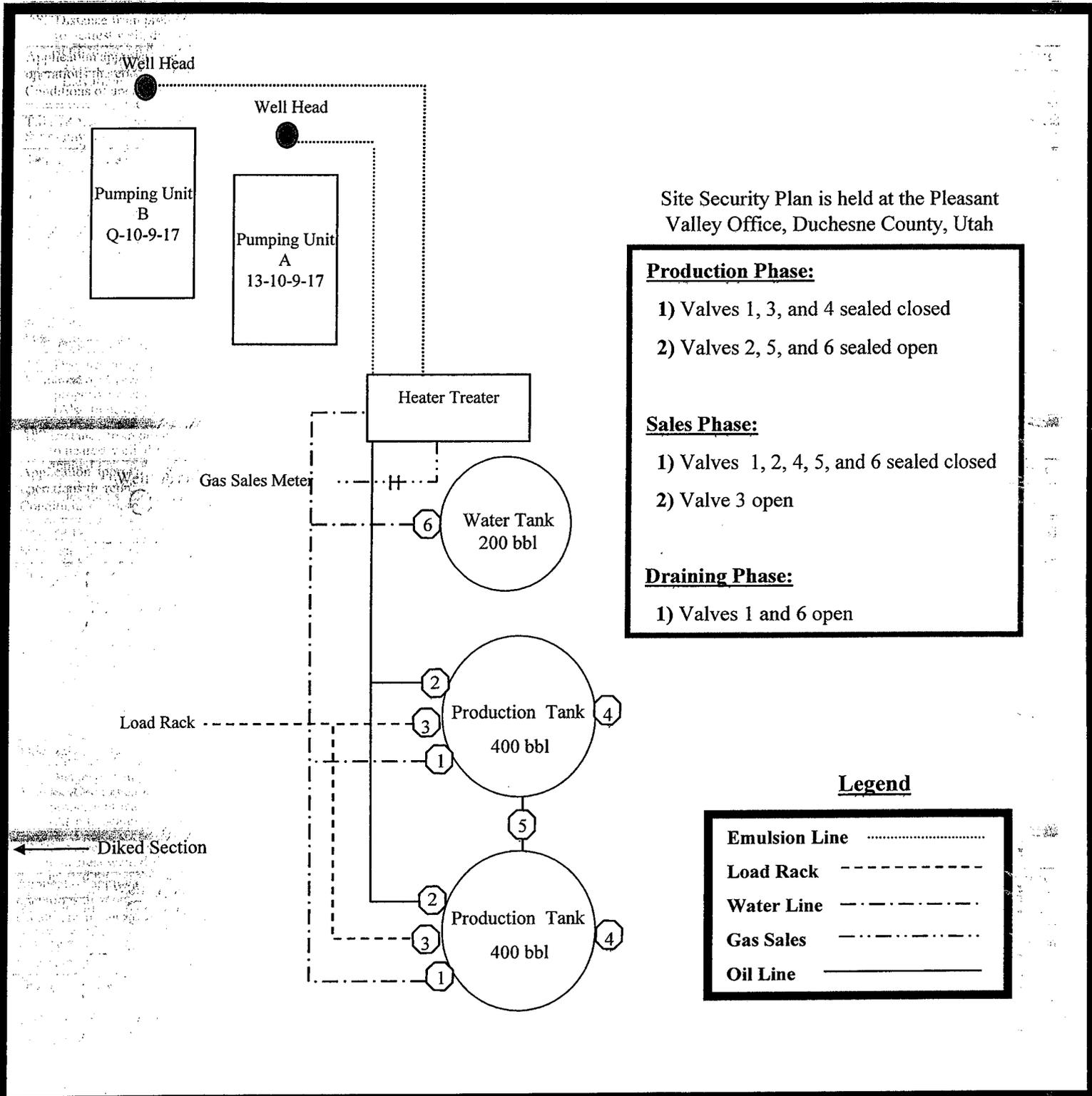
Blackjack Federal Q-10-9-17

From the 13-10-9-17 Location

SW/SW Sec. 10 T9S, R17E

Duchesne County, Utah

UTU-70821



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:**

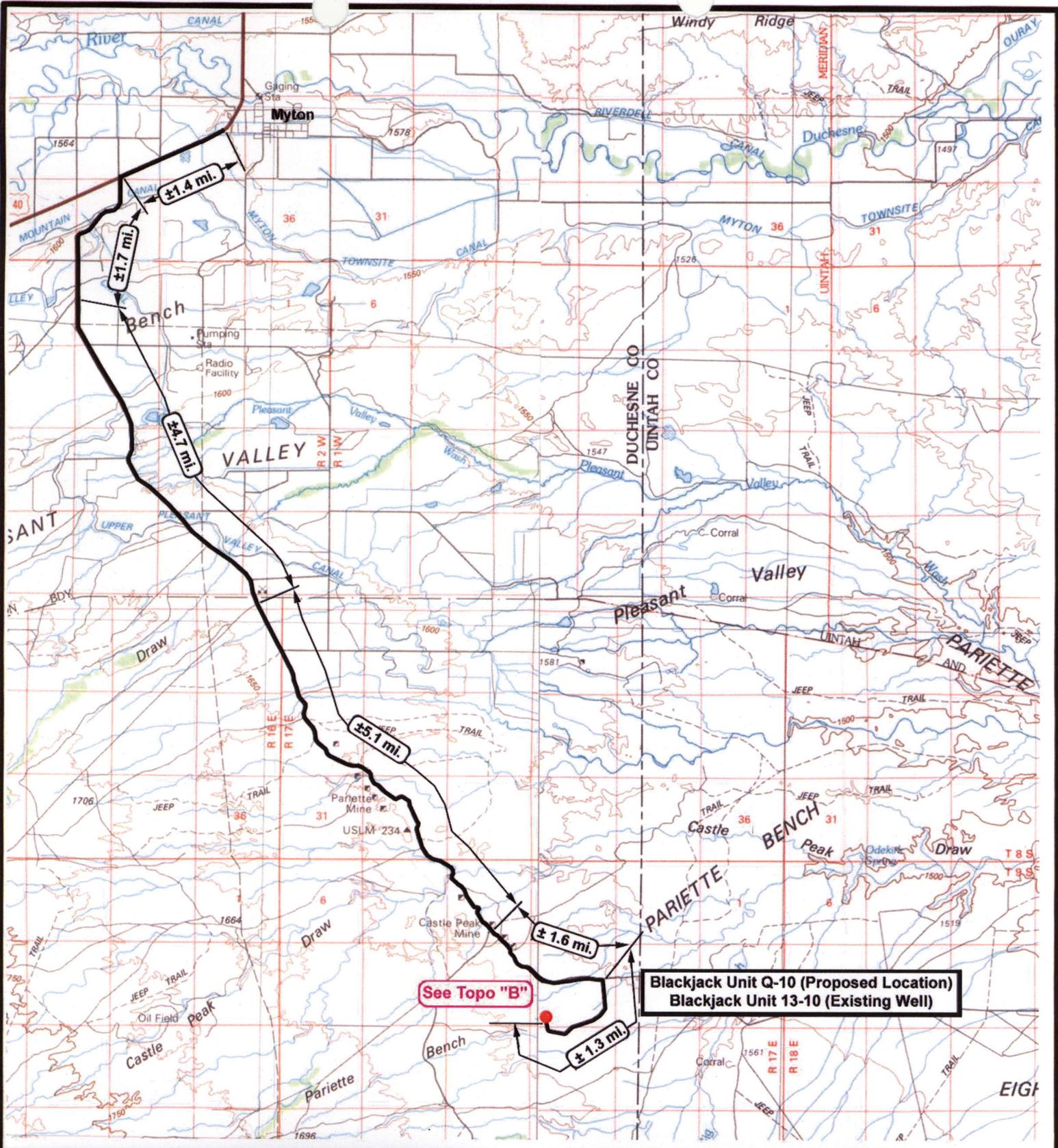
- 1) Valves 1, 2, 4, 5, and 6 sealed closed
- 2) Valve 3 open

**Draining Phase:**

- 1) Valves 1 and 6 open

**Legend**

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



**Blackjack Unit Q-10 (Proposed Location)**  
**Blackjack Unit 13-10 (Existing Well)**

See Topo "B"

**NEWFIELD**  
 Exploration Company

**Blackjack Unit Q-10-9-17 (Proposed Well)**  
**Blackjack Unit 13-10-9-17 (Existing Well)**  
 Pad Location SWSW SEC. 10, T9S, R17E, S.L.B.&M.



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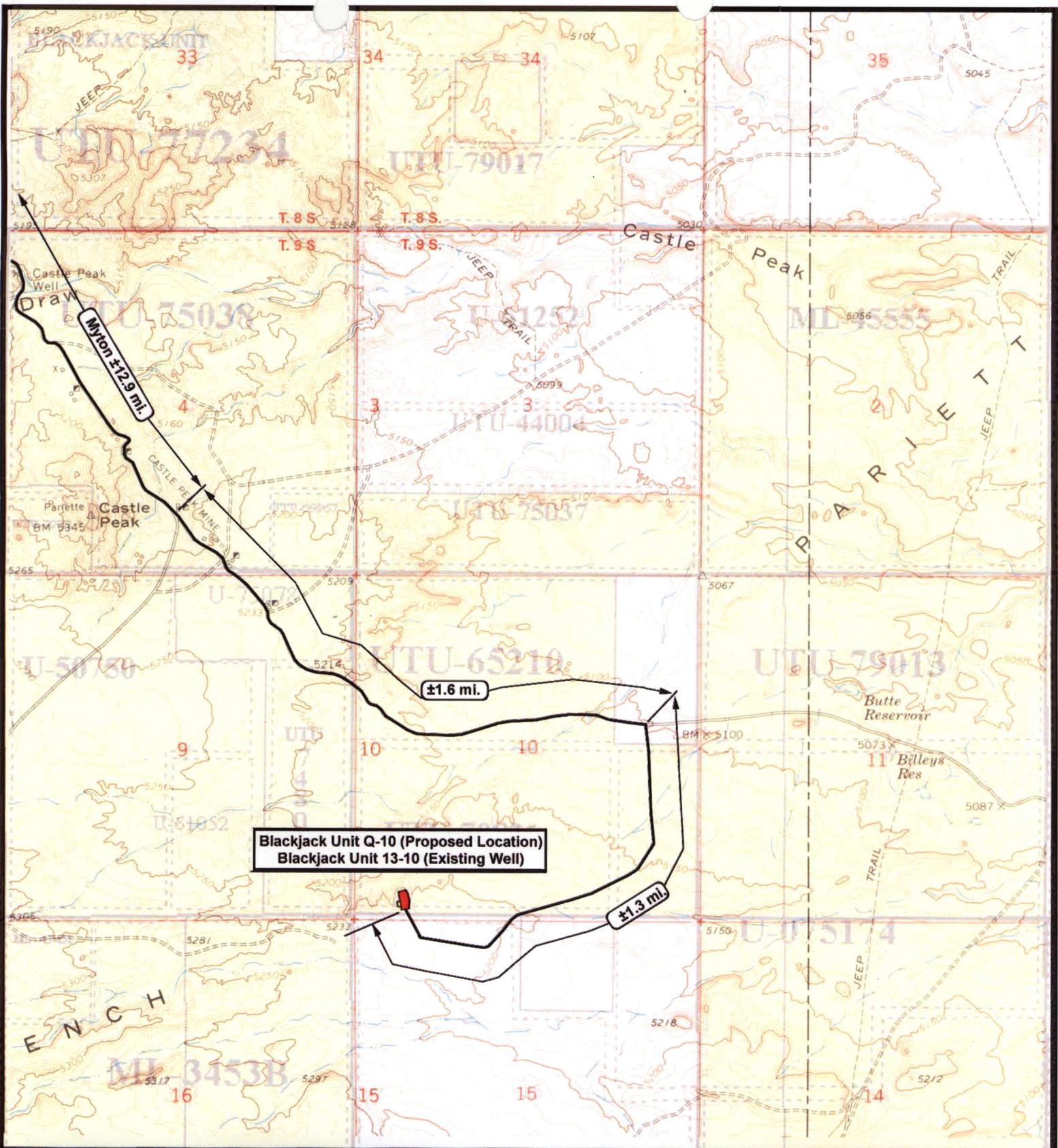
SCALE: 1 = 100,000  
 DRAWN BY: nc  
 DATE: 12-12-2007

**Legend**

Existing Road

TOPOGRAPHIC MAP

**"A"**



**Blackjack Unit Q-10 (Proposed Location)**  
**Blackjack Unit 13-10 (Existing Well)**



**NEWFIELD**  
Exploration Company

**Blackjack Unit Q-10-9-17 (Proposed Location)**  
**Blackjack Unit 13-10-9-17 (Existing Location)**  
 Pad Location SWSW SEC. 10, T9S, R17E, S.L.B.&M.




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

SCALE: 1" = 2,000'  
 DRAWN BY: nc  
 DATE: 12-13-2007

**Legend**

Existing Road

TOPOGRAPHIC MAP

**"B"**



**Blackjack Unit Q-10 (Proposed Location)**  
**Blackjack Unit 13-10 (Existing Well)**

**Existing Gas Pipeline**

± 200'

**Tie into Existing Waterline**

± 1,380'



**NEWFIELD**  
Exploration Company

---

**Blackjack Unit Q-10-9-17 (Proposed Location)**  
**Blackjack Unit 13-10-9-17 (Existing Location)**  
 Pad Location SWSW SEC. 10, T9S, R17E, S.L.B.&M.




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

---

SCALE: 1" = 2,000'  
 DRAWN BY: nc  
 DATE: 12-13-2007

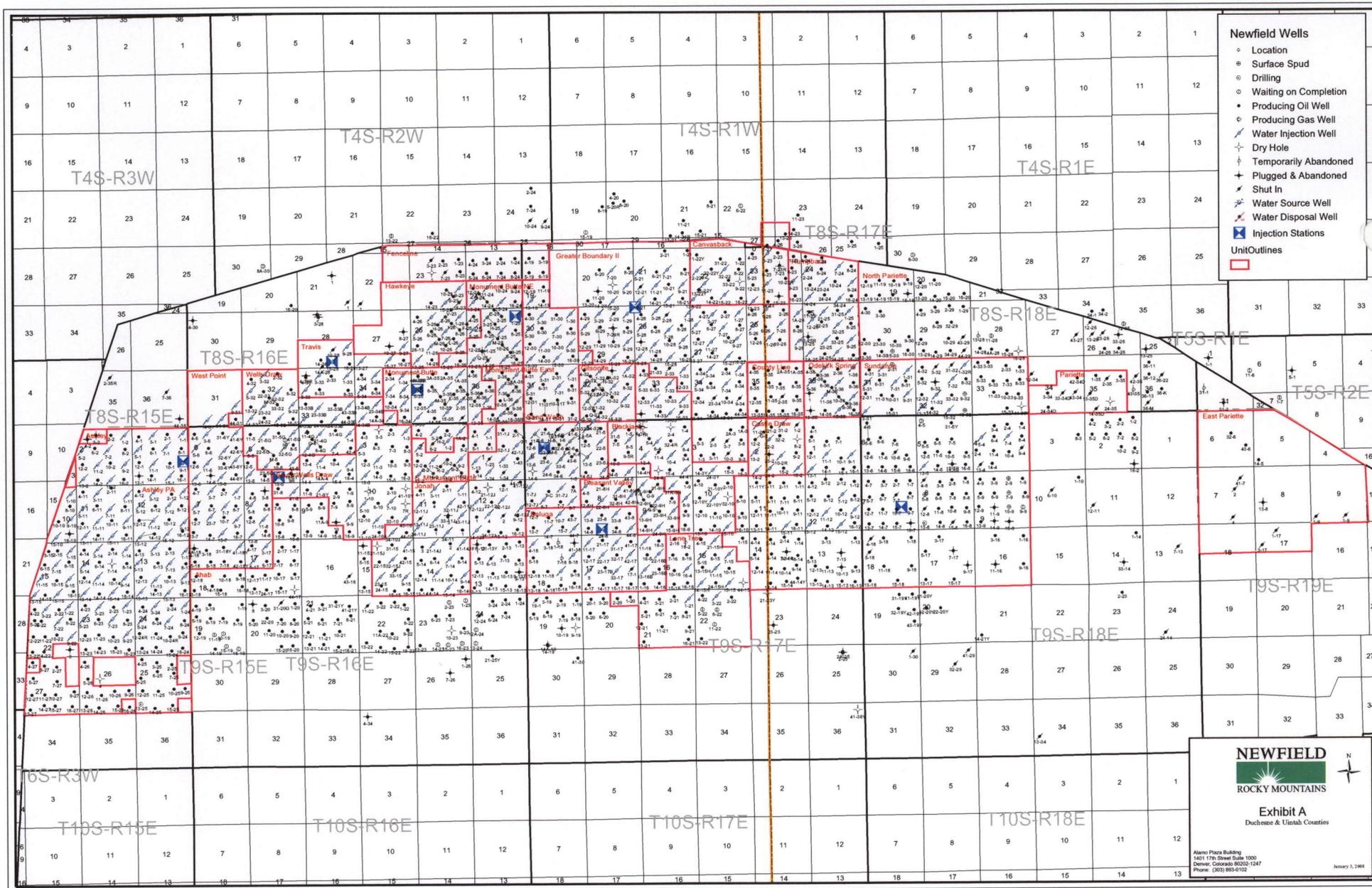
**Legend**

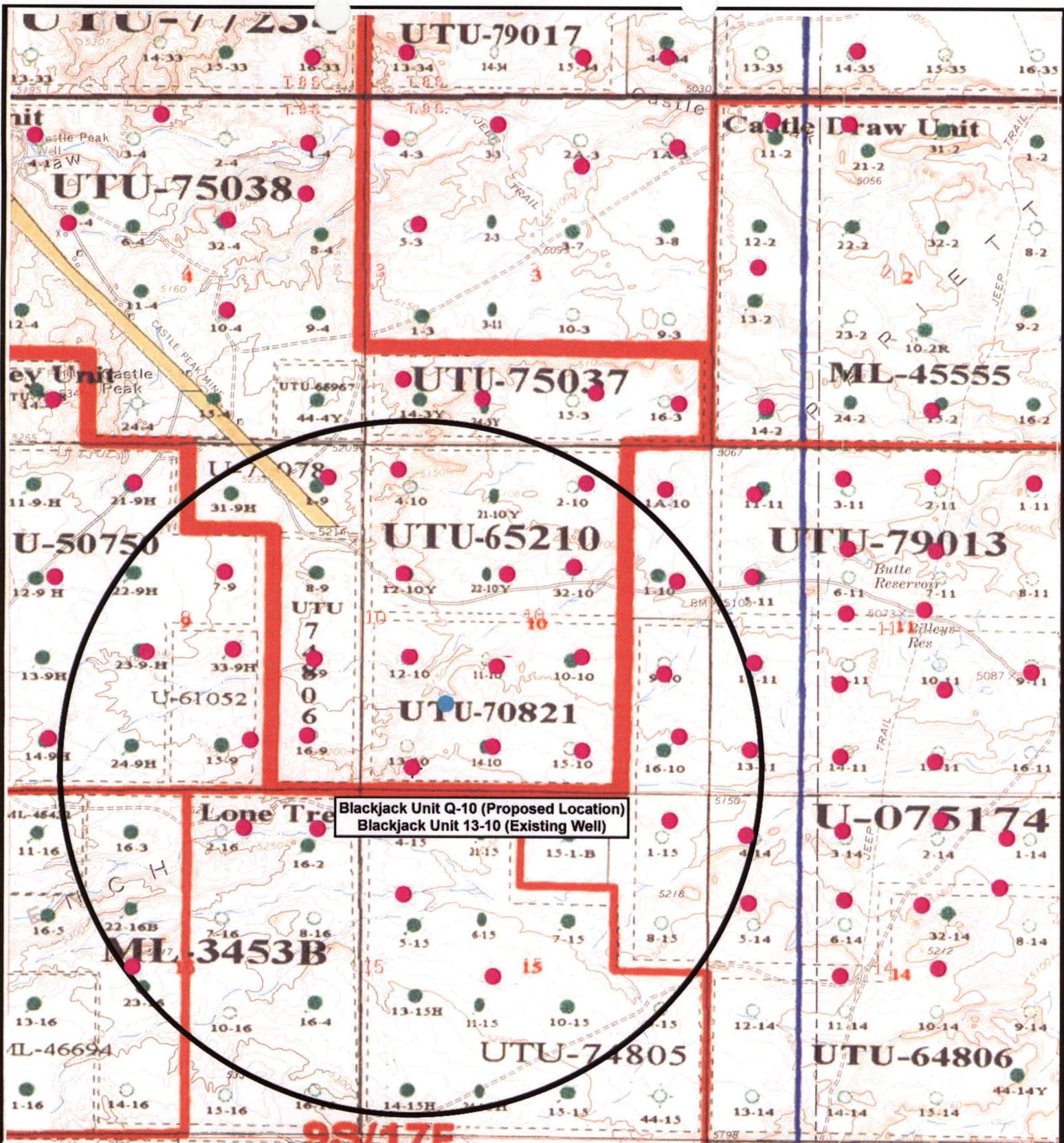
-  Existing Road
-  Proposed Waterline

---

TOPOGRAPHIC MAP

"C"





Blackjack Unit Q-10 (Proposed Location)  
 Blackjack Unit 13-10 (Existing Well)

**NEWFIELD**  
 Exploration Company

**Blackjack Unit Q-10-9-17 (Proposed Location)**  
**Blackjack Unit 13-10-9-17 (Existing Location)**  
 Pad Location SWSW SEC. 10, T9S, R17E, S.L.B.&M.

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

SCALE: 1" = 2,000'  
 DRAWN BY: nc  
 DATE: 12-13-2007

**Legend**

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

**Exhibit "B"**

# 2-M SYSTEM

Blowout Prevention Equipment Systems

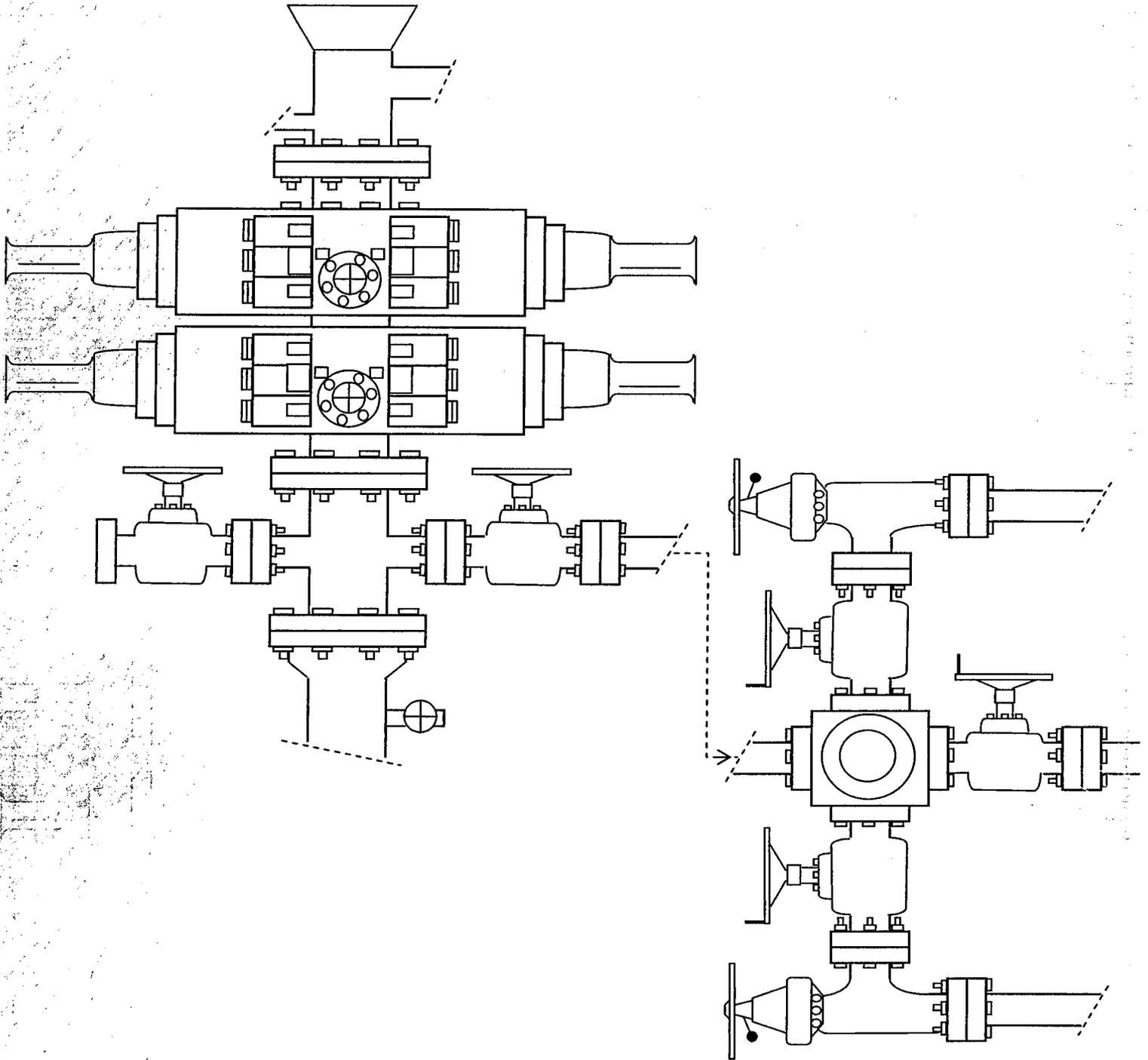


EXHIBIT C

**WORKSHEET  
APPLICATION FOR PERMIT TO DRILL**

APD RECEIVED: 03/06/2008

API NO. ASSIGNED: 43-013-33917

WELL NAME: BLACKJACK FED Q-10-9-17  
 OPERATOR: NEWFIELD PRODUCTION ( N2695 )  
 CONTACT: MANDIE CROZIER

PHONE NUMBER: 435-646-3721

PROPOSED LOCATION:

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

SWSW 10 090S 170E  
 SURFACE: 0324 FSL 0705 FWL  
 BOTTOM: 1205 FSL 1245 FWL  
 COUNTY: DUCHESNE  
 LATITUDE: 40.03918 LONGITUDE: -109.9990  
 UTM SURF EASTINGS: 585401 NORTHINGS: 4432376  
 FIELD NAME: MONUMENT BUTTE ( 105 )

LEASE TYPE: 1 - Federal  
 LEASE NUMBER: UTU-70821  
 SURFACE OWNER: 1 - Federal

PROPOSED FORMATION: GRRV  
 COALBED METHANE WELL? NO

RECEIVED AND/OR REVIEWED:

- Plat
- Bond: Fed[i] Ind[ ] Sta[ ] Fee[ ]  
(No. WYB000493 )
- N Potash (Y/N)
- N Oil Shale 190-5 (B) or 190-3 or 190-13
- Water Permit  
(No. 43-10136 )
- N RDCC Review (Y/N)  
(Date: \_\_\_\_\_ )
- NA Fee Surf Agreement (Y/N)
- NA 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: 2342  
Eff Date: 12-22-1999  
Siting: Suspends General Siting
- R649-3-11. Directional Drill

COMMENTS: See Separate file

STIPULATIONS: 1- Federal Approval

T8S R17E

T9S R17E

GREATER BOUNDARY II UNIT

CAUSE: 225-4 / 9-22-2004

BLACKJACK  
4-1R-9-17

CASTLE  
DRAW  
3-4-9-17

CASTLE  
DRAW  
2-4-9-17

BLACKJACK  
FED 1-4-9-17

UTD FED  
3-2

GB FED  
1A-3-9-17

CASTLE  
DRAW  
5-4-9-17

CASTLE  
DRAW  
6-4-9-17

BLACKJACK  
FED L-4-9-17  
PAIUTE FED  
32-4R-9-17

CASTLE  
DRAW  
8-4-9-17

GB FED  
5-3-9-17

MONUMENT  
BUTTE 2-3

GB FED  
2A-3-9-17

UTD FED  
3-7  
PINEHURST  
FEDERAL 3-7

MONUMENT  
BUTTE FED 3-8  
PINEHURST  
FEDERAL 3-8

CASTLE  
DRAW  
12-4-9-17

CASTLE  
DRAW  
11-4-9-17

CASTLE  
DRAW  
10-4-9-17

BLACKJACK  
FED 10-4-9-17

CASTLE  
DRAW  
9-4-9-17

GB FED  
10-3-9-17

MONUMENT  
BUTTE FED 3-9

GB FED  
9-3-9-17

CAUSE: 234-2 / 12-22-1999  
BLACKJACK (GR) UNIT

MONUMENT BUTTE FIELD

BLACKJACK (GR) UNIT

FEDERAL  
14-4H

MAXUS  
FED 24-4

CASTLE  
DRAW  
15-4-9-17

FEDERAL  
44-4Y  
COTTON  
44-4

MON FED  
14-3-9-17Y

FEDERAL  
24-3Y

BLACKJACK  
FED 15-3-9-17

BLACKJACK  
FED 16-3-9-17

PLEASANT  
VLY FED  
Y-4-9-17

CAUSE: 234-1 / 8-24-1995

BHL  
L-4-9-17

BLACKJACK  
FED V-4-9-17

BLACKJACK  
FED 4-10-9-17

BLACKJACK  
FED F-10-9-17

BALCRON  
MON FED  
21-10-9-17Y

DUNCAN  
FED 3-10  
BLACKJACK  
FED 2-10-9-17

SUNDANCE  
FED 1-10-9-17

FEDERAL  
11-9-H

FEDERAL  
21-9H  
PLEASANT  
VLY FED  
G-9-9-17

MONUMENT  
BUTTE FED 9-2

CASTLE  
DRAW  
1-9-9-17

BHL  
F-10-9-17

BLACKJACK  
FED 1-10-9-17

BHL  
G-10-9-17

FEDERAL  
22-10Y  
DUNCAN  
FED 2-10

MON FED  
32-10-9-17Y

FEDERAL  
12-9-H  
PLEASANT  
VLY FED  
F-9-9-17

FEDERAL  
NGC 22-9-H

PLEASANT  
VLY FED  
M-9-9-17

CASTLE  
DRAW  
8-9-9-17

BHL  
O-10-9-17

BLACKJACK  
FED G-10-9-17

BALCRON MON  
FED 12-10-9-17Y

BLACKJACK  
FED 12-10-9-17

CASTLE  
DRAW  
10-10-9-17

FEDERAL  
13-9H

FED  
23-9-H  
PLEASANT  
VLY FED  
N-9-9-17

FEDERAL  
33-9H

BLACKJACK  
FED 9-9-9-17

BHL  
P-10-9-17

BLACKJACK  
FED 12-10-9-17

BLACKJACK  
FED 11-10-9-17

CASTLE  
DRAW  
10-10-9-17

FEDERAL  
8-10-9-17

FEDERAL  
14-9H  
PLEASANT  
VLY FED  
Q-9-9-17

NGC  
24-9H  
FED

PLEASANT  
VLY FED  
R-9-9-17

BLACKJACK  
FED 16-9-9-17

BHL  
Q-10-9-17

BLACKJACK  
FED 16-9-9-17

CASTLE  
DRAW  
USA 3-N10

BLACKJACK  
FED 15-10-9-17

CASTLE  
DRAW  
16-10-9-17

PLEASANT VALLEY (GR) UNIT

MON ST  
11-16-9-17B

SUE MORRIS  
16-3

LONE TREE  
U 2-16-9-17

STATE 16-2

S PLEASANT  
VALLEY FED 4-15-9-17

FED NGC  
21-15

FEDERAL  
15-1-B

FEDERAL  
1-15-9-17

CAUSE: 228-4 / 2-4-1996  
BELUGA (GR) UNIT

CAUSE: 228-5 / 8-26-1998  
LONE TREE (GR) UNIT

OPERATOR: NEWFIELD PROD CP (N2695)

SEC: 9,10 T.9S R.17E

FIELD: MONUMENT BUTTE (105)

COUNTY: DUCHESNE

CAUSE: 234-2 / 12-22-1999

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

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

- Wells Status
- GAS INJECTION
  - GAS STORAGE
  - LOCATION ABANDONED
  - NEW LOCATION
  - PLUGGED & ABANDONED
  - PRODUCING GAS
  - PRODUCING OIL
  - SHUT-IN GAS
  - SHUT-IN OIL
  - TEMP. ABANDONED
  - TEST WELL
  - WATER INJECTION
  - WATER SUPPLY
  - WATER DISPOSAL
  - DRILLING



OIL, GAS & MINING



PREPARED BY: DIANA MASON  
DATE: 06-MARCH-2008

# United States Department of the Interior

## BUREAU OF LAND MANAGEMENT

Utah State Office

P.O. Box 45155

Salt Lake City, Utah 84145-0155

IN REPLY REFER TO:

3160

(UT-922)

March 7, 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 wells are planned for calendar year 2008 within the Black Jack Unit, Duchesne County, Utah.

API#	WELL NAME	LOCATION
	(Proposed PZ Green River)	
43-013-33921	Blackjack Fed L-4-9-17	Sec 04 T09S R17E 1895 FNL 1998 FEL BHL Sec 04 T09S R17E 2605 FNL 1345 FEL
43-013-33918	Blackjack Fed P-10-9-17	Sec 09 T09S R17E 0765 FSL 0734 FEL BHL Sec 10 T09S R17E 1250 FSL 0100 FWL
43-013-33917	Blackjack Fed Q-10-9-17	Sec 10 T09S R17E 0324 FSL 0705 FWL BHL Sec 10 T09S R17E 1205 FSL 1245 FWL
43-013-33919	Blackjack Fed G-10-9-17	Sec 10 T09S R17E 1996 FNL 0634 FWL BHL Sec 10 T09S R17E 1220 FNL 1210 FWL
43-013-33920	Blackjack Fed F-10-9-17	Sec 10 T09S R17E 0427 FNL 0519 FWL BHL Sec 10 T09S R17E 1255 FNL 0040 FWL

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

/s/ Michael L. Coulthard



March 11, 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 Q-10-9-17**  
Blackjack Unit  
UTU-78560X  
Surface Hole: T9S R17E, Section 10: SW/4SW/4  
324' FSL 705' FWL  
At Target: T9S R17E, Section 10  
1205' FSL 1245' FWL  
Duchesne County, Utah

Dear Ms. Mason;

Pursuant to the filing of Newfield Production Company's ("NPC") Application for Permit to Drill dated February 29, 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 Federal 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

MAR 14 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.  
**UTU-70821**

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

7. If Unit or CA Agreement, Name and No.  
**Blackjack Unit**

8. Lease Name and Well No.  
**Blackjack Federal Q-10-9-17**

9. API Well No.

10. Field and Pool, or Exploratory  
**Monument Butte**

11. Sec., T., R., M., or Blk. and Survey or Area  
**Sec. 10, T9S R17E**

12. County or Parish  
**Duchesne**

13. State  
**UT**

1a. Type of Work:  DRILL  REENTER

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

2. Name of Operator  
**Newfield Production Company**

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

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

4. Location of Well (Report location clearly and in accordance with any State requirements. \*)  
At surface **SW/SW 324' FSL 705' FWL**  
At proposed prod. zone **1205' FSL 1245' FWL**

14. Distance in miles and direction from nearest town or post office\*  
**Approximately 15.8 miles southeast of Myton, Utah**

15. Distance from proposed\* location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any) **Approx. 1205' f/lease, 1205' f/unit**

16. No. of Acres in lease  
**240.00**

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. 1450'**

19. Proposed Depth  
**5840'**

20. BLM/BIA Bond No. on file  
**WYB000493**

21. Elevations (Show whether DF, KDB, RT, GL, etc.)  
**5209' GL**

22. Approximate date work will start\*  
**2nd Quarter 2008**

23. Estimated duration  
**Approximately seven (7) days from spud to rig release.**

24. Attachments

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

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

25. Signature  Name (Printed/Typed) **Mandie Crozier** Date **2/29/08**

Title **Regulatory Specialist**

Approved by (Signature) \_\_\_\_\_ Name (Printed/Typed) \_\_\_\_\_ Date \_\_\_\_\_

Title \_\_\_\_\_ Office \_\_\_\_\_

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

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

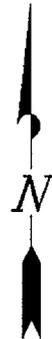
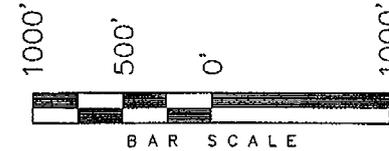
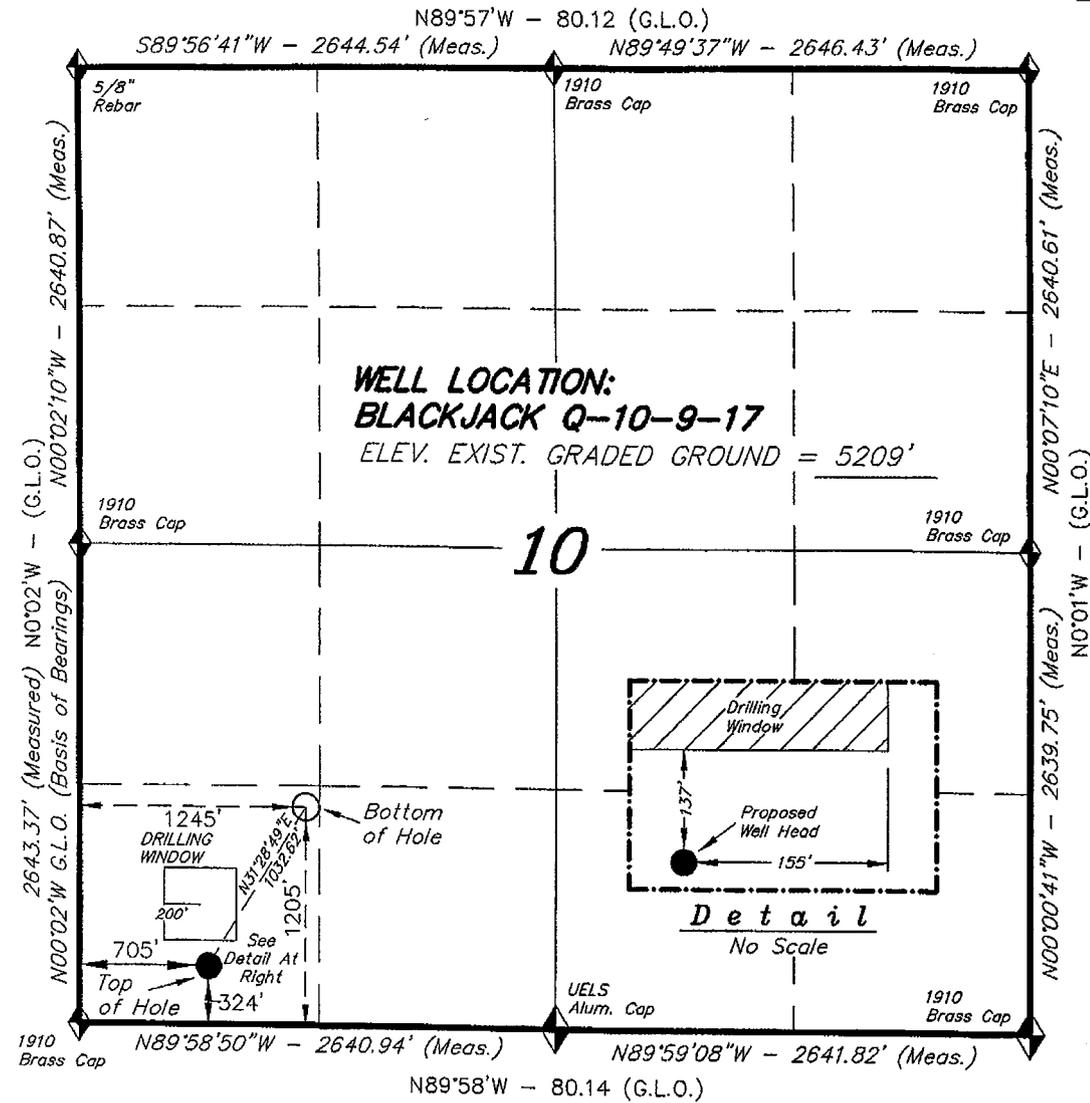
\*(Instructions on reverse)

**RECEIVED**  
**MAR 14 2008**  
**DIV. OF OIL, GAS & MINING**

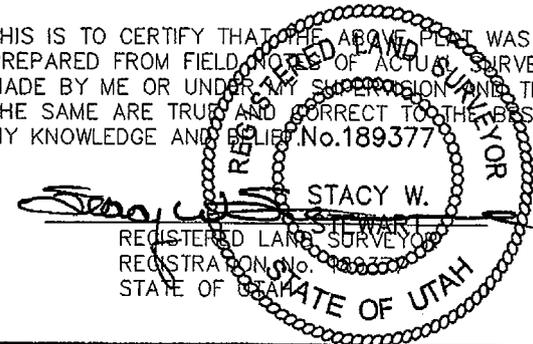
# T9S, R17E, S.L.B.&M.

## NEWFIELD PRODUCTION COMPANY

WELL LOCATION, BLACKJACK Q-10-9-17,  
 LOCATED AS SHOWN IN THE SW 1/4 SW  
 1/4 OF SECTION 10, T9S, 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 (PARIETTE DRAW SW)

**BLACKJACK Q-10-9-17**  
 (Surface Location) NAD 83  
 LATITUDE = 40° 02' 20.73"  
 LONGITUDE = 109° 59' 58.78"

<b>TRI STATE LAND SURVEYING &amp; CONSULTING</b> 180 NORTH VERNAL AVE. - VERNAL, UTAH 84078 (435) 781-2501	
DATE SURVEYED: 11-27-07	SURVEYED BY: T.H.
DATE DRAWN: 12-11-07	DRAWN BY: F.T.M.
REVISED: 02-08-08 L.C.S.	SCALE: 1" = 1000'



JON M. HUNTSMAN, JR.  
Governor

GARY R. HERBERT  
Lieutenant Governor

**State of Utah**  
DEPARTMENT OF NATURAL RESOURCES

MICHAEL R. STYLER  
Executive Director

**Division of Oil Gas and Mining**

JOHN R. BAZA  
Division Director

March 20, 2008

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

Re: Blackjack Federal Q-10-9-17 Well, Surface Location 324' FSL, 705' FWL, SW SW, Sec. 10, T. 9 South, R. 17 East, Bottom Location 1205' FSL, 1245' FWL, SW SW, Sec. 10, T. 9 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 43-013-33917.

Sincerely,

Gil Hunt  
Associate Director

pab  
Enclosures

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



400617

Form 3160-3  
(September 2001)

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

5. Lease Serial No.  
UTU-70821

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

1a. Type of Work:  DRILL  REENTER

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

7. If Unit or CA Agreement, Name and No.  
Blackjack Unit

2. Name of Operator  
Newfield Production Company

8. Lease Name and Well No.  
Blackjack Federal Q-10-9-17

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

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

9. API Well No.  
43 013 33917

10. Field and Pool, or Exploratory  
Monument Butte

4. Location of Well (Report location clearly and in accordance with any State requirements. \*)  
At surface SW/SW 324' FSL 705' FWL  
At proposed prod. zone 1205' FSL 1245' FWL

11. Sec., T., R., M., or Blk. and Survey or Area  
Sec. 10, T9S R17E

14. Distance in miles and direction from nearest town or post office\*  
Approximatley 15.8 miles southeast of Myton, Utah

12. County or Parish  
Duchesne

13. State  
UT

15. Distance from proposed\* location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any) Approx. 1205' f/lse, 1205' f/unit

16. No. of Acres in lease  
240.00

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. 1450'

19. Proposed Depth  
5840'

20. BLM/BIA Bond No. on file  
WYB000493

21. Elevations (Show whether DF, KDB, RT, GL, etc.)  
5209' GL

22. Approximate date work will start\*  
2nd Quarter 2008

23. Estimated duration  
Approximately seven (7) days from spud to rig release.

24. Attachments

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

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

25. Signature  
*Mandie Crozier*  
Title  
Regulatory Specialist

Name (Printed/Typed)  
Mandie Crozier

Date  
2/29/08

Approved by (Signature)  
*Frank Kowicka*  
Title  
Assistant Field Manager  
Lands & Mineral Resources

Name (Printed/Typed)  
FRANK KOWICKA

Date  
6-10-2008

Office  
VERNAL FIELD OFFICE

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

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

\*(Instructions on reverse)

NOTICE OF APPROVAL CONDITIONS OF APPROVAL ATTACHED

RECEIVED

JUN 16 2008

DIV. OF OIL, GAS & MINING

NOS 1-8-08  
08PP 03217



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

170 South 500 East

VERNAL, UT 84078

(435) 781-4400



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

**Company:** Newfield Production Company  
**Well No:** Blackjack Federal Q-10-9-17  
**API No:** 43-013-33917

**Location:** SESE, Sec 10, T9S, R17E  
**Lease No:** UTU-74806  
**Agreement:** Blackjack Unit

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

**Fax: (435) 781-3420**

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

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

**NOTIFICATION REQUIREMENTS**

Location Construction (Notify NRS/Enviro Scientist)	-	Forty-Eight (48) hours prior to construction of location and access roads.
Location Completion (Notify NRS/Enviro 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 Supervisory Petroleum Technician)	-	Twenty-Four (24) hours prior to running casing and cementing all casing strings
BOP & Related Equipment Tests (Notify Supervisory Petroleum Technician)	-	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)**

### **General Surface 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.

### **Specific Surface COAs**

#### Lease Notices from RMP:

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

#### Comments:

- GIS data shows the project area is within Mountain Plover nesting habitat. Because the proposed location is going to be directional drilled from an existing location and no new disturbance will be required, Mountain Plover timing restrictions were not applied.
- During the onsite it was evident that scattered complexes of White-tailed prairie dog colonies (Burrowing Owl nesting habitat) were in the area. Because the proposed location is going to be directional drilled from an existing location and no new disturbance will be required, Burrowing Owl timing restrictions were not applied.

#### Conditions of Approval:

- Avoid any ground disturbance inside cultural site area of 42DC936.
- All traffic related to this action will be restricted to approved routes. Cross-country vehicle travel will not be allowed.
- All pipelines (surface and buried) will be laid within one 50' wide construction ROW, on one side of the road, and will reduce down to a 30' wide permanent ROW on lease.
- No surface disturbance outside of APD proposal is authorized. If other disturbance is necessary, authorization will be proposed in a sundry notice (Form 3160-5) to BLM Authorized Officer. Sclerocactus spp. surveys may be required prior to new surface disturbing activities including pipelines (surface and buried).
- No vehicle travel, construction or routine maintenance activities shall be performed during periods when the soil is too wet to adequately support vehicles and/or construction equipment. If such equipment creates ruts in excess of three inches deep, the soil shall be deemed too wet to adequately support construction equipment.
- If additional erosion occurs during the life of this project, more culverts, low water crossings, berms, wing ditches or etc. will be needed to control the erosion.

- Low-water crossings will be appropriately constructed to avoid sedimentation of drainage ways and other water resources.
- Pipelines will be buried at all major drainage crossings.
- Prevent fill and stock piles from entering drainages.
- To insure impermeability, the reserve pit will be lined with a 16 ml or greater liner and felt prior to spudding.
- The liner is to be cut 5 feet below ground surface or at the level of the cuttings, whichever is deeper, and the excess liner material is to be disposed of at an authorized disposal site.
- When the reserve pit contains fluids or toxic substances, the operator must ensure animals do not ingest or become entrapped in pit fluids.
- Any hydrocarbons in the reserve pit will be removed immediately upon well completion; in accordance with 43 CFR 3162.7-1. Pits must be free of oil and other liquid and solid wastes prior to filling.
- Monument Butte SOP, Section 9.2 - Pit Fencing Minimum Standards - will be strictly adhered to. To include 9.2.2.3 - Corner posts will be cemented and/or braced in such a manner as to keep fence tight at all times.
- If Uinta Basin hookless cactus or other special status plants are found, construction will cease and the AO will be notified to determine the appropriate mitigation.
- Within 90 calendar days of the approval date for this Application for Permit to Drill (APD), the operator/lessee shall submit to the Authorized Officer (AO), on Sundry Notice Form 3160-5, a detailed Interim and Final Surface Reclamation Plan for surface disturbance on well pads, access roads, and pipelines. If Reclamation Plan is acceptable, the AO will provide written approval or concurrence within 30 calendar days of receipt.

Interim Reclamation:

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

Common name	Latin name	lbs/acre	Recommended seed planting depth
Squirreltail grass	<i>Elymus elymoides</i>	3.0	¼ - ½"
Siberian wheatgrass	<i>Agropyron fragile</i>	1.0	½"
Shadscale saltbush	<i>Atriplex confertifolia</i>	0.50	½"
Four-wing saltbush	<i>Atriplex canescens</i>	0.50	½"
Gardner's saltbush	<i>Atriplex gardneri</i>	0.50	½"
Scarlet globemallow	<i>Sphaeralcea coccinea</i>	0.10	⅛ - ¼"
Forage Kochia	<i>Kochia prostrates</i>	0.10	⅛ - ¼"

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

Final reclamation:

- Once the location is plugged and abandoned, the well location, access, and any disturbed areas shall be recontoured to natural topography, topsoil shall be respread, and the entire location shall be seeded following guidelines in the seed mix bullet statement above. Final seed mix: same as interim.
- Noxious and/or invasive weeds will be controlled along access roads, pipelines, well sites, and all other applicable facilities. Any noxious and/or invasive weeds outbreak, directly attributed to the activities of the Operator, will be the responsibility of the Operator to control. On BLM administered land, a Pesticide Use Proposal (PUP) must be submitted and approved prior to the application of herbicides, pesticides, or other possibly hazardous chemicals.
- Once the location is plugged and abandoned, it shall be recontoured to natural topology, topsoil shall be respread, and the entire location shall be seeded with a seed mix recommended by the AO (see above). Seed application will follow all guidelines in the final seed mix bullet statement above.
- The authorized officer may prohibit surface disturbing activities during severe winter conditions to minimize watershed damage. This limitation does not apply to operation and maintenance of producing wells.
- The authorized officer may prohibit surface disturbing activities during wet or muddy conditions to minimize watershed damage. This limitation does not apply to operation and maintenance of producing wells.
- All well facilities not regulated by OSHA will be painted Carlsbad Canyon.
- All boulders with a length or diameter greater than 3 feet, that are found showing at the surface, will be stockpiled for use during final reclamation.
- Notify the Authorized Officer 48 hours prior to surface disturbing activities.

## **DOWNHOLE CONDITIONS OF APPROVAL**

### **SITE SPECIFIC DOWNHOLE CONDITIONS OF APPROVAL**

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

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

### **DRILLING/COMPLETION/PRODUCING OPERATING STANDARDS**

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

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

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

## OPERATING REQUIREMENT REMINDERS:

- All wells, whether drilling, producing, suspended, or abandoned, shall be identified in accordance with 43 CFR 3162.6. There shall be a sign or marker with the name of the operator, lease serial number, well number, and surveyed description of the well.
- In accordance with 43 CFR 3162.4-3, this well shall be reported on the "Monthly Report of Operations" (Oil and Gas Operations Report ((OGOR)) starting with the month in which operations commence and continue each month until the well is physically plugged and abandoned. This report shall be filed in duplicate, directly with the Minerals Management Service, P.O. Box 17110, Denver, Colorado 80217-0110, or call 1-800-525-7922 (303) 231-3650 for reporting information.
- Should the well be successfully completed for production, the BLM Vernal Field office must be notified when it is placed in a producing status. Such notification will be by written communication and must be received in this office by not later than the fifth business day following the date on which the well is placed on production. The notification shall provide, as a minimum, the following informational items:
  - Operator name, address, and telephone number.
  - Well name and number.
  - Well location (¼¼, Sec., Twn, Rng, and P.M.).
  - Date well was placed in a producing status (date of first production for which royalty will be paid).
  - The nature of the well's production, (i.e., crude oil, or crude oil and casing head gas, or natural gas and entrained liquid hydrocarbons).
  - The Federal or Indian lease prefix and number on which the well is located; otherwise the non-Federal or non-Indian land category, i.e., State or private.
  - Unit agreement and/or participating area name and number, if applicable.
  - Communitization agreement number, if applicable.
- Any venting or flaring of gas shall be done in accordance with Notice to Lessees (NTL) 4A and needs prior approval from the BLM Vernal Field Office.
- All undesirable events (fires, accidents, blowouts, spills, discharges) as specified in NTL 3A will be reported to the BLM, Vernal Field Office. Major events, as defined in NTL3A, shall be reported verbally within 24 hours, followed by a written report within 15 days. "Other than Major Events" will be reported in writing within 15 days. "Minor Events" will be reported on the Monthly Report of Operations and Production.
- Whether the well is completed as a dry hole or as a producer, "Well Completion and Recompletion Report and Log" (BLM Form 3160-4) shall be submitted not later than 30 days after completion of the well or after completion of operations being performed, in accordance with 43 CFR 3162.4-1. Two copies of all logs run, core descriptions, and all other surveys or data obtained and compiled during the drilling, workover, and/or completion operations, shall be filed on BLM Form 3160-4. Submit with the well completion report a geologic report including, at a minimum, formation tops, and a summary and conclusions. Also include deviation surveys, sample descriptions, strip logs, core data, drill stem test data, and results of production tests if performed. Samples (cuttings, fluid,

and/or gas) shall be submitted only when requested by the BLM, Vernal Field Office.

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

# DIVISION OF OIL, GAS AND MINING

## **SPUDDING INFORMATION**

Name of Company: NEWFIELD PRODUCTION COMPANY

Well Name: BLACKJACK FED Q-10-9-18

Api No: 43-013-33917 Lease Type: FEDERAL

Section 10 Township 09S Range 17E County DUCHESNE

Drilling Contractor NDSI RIG # NS#1

## **SPUDDED:**

Date 09/12/08

Time 8:15 AM

How DRY

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

Reported by DON BASTIAN

Telephone # (435) 823-6012

Date 09/15//08 Signed CHD

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

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

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

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

1. Type of Well  
 Oil Well    Gas Well    Other

2. Name of Operator  
 NEWFIELD PRODUCTION COMPANY

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

3b. Phone    (include are code)  
                   435.646.3721

4. Location of Well    (Footage, Sec., T., R., M., or Survey Description)  
                           SWSW Section 10 T9S R17E

5. Lease Serial No.  
 USA UTU-70821

6. If Indian, Allottee or Tribe Name.

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

8. Well Name and No.  
 BLACKJACK FEDERAL Q-10-9-17

9. API Well No.  
 4301333917

10. Field and Pool, or Exploratory Area  
 MONUMENT BUTTE

11. County or Parish, State  
 DUCHESNE, UT

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

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

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

On 9/15/08 MIRU NDSI NS # 1. Spud well @ 8:15 am. Drill 315' of 12 1/4" hole with air mist. TIH W/ 7 Jt's 8 5/8" J-55 24 # csng. Set @ 314.86' KB. On 9/19/08 cement with 160 sks of class "G" w/ 3% CaCL2 + 1/4# sk Cello- Flake Mixed @ 15.8 ppg > 1.17 c/ sk yeild. Returned 8 bbls cement to pit. WOC.

I hereby certify that the foregoing is true and correct (Printed/ Typed) Jim Smith	Title Drilling Foreman
Signature 	Date 09/22/2008

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

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

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

(Instructions on page 2)

**RECEIVED**  
**SEP 24 2008**

**NEWFIELD PRODUCTION COMPANY - CASING & CEMENT REPORT**

8 5/8 CASING SET AT 314.86

LAST CASING 8 5/8" set @ 314.86  
 DATUM 12' KB  
 DATUM TO CUT OFF CASING \_\_\_\_\_  
 DATUM TO BRADENHEAD FLANGE \_\_\_\_\_  
 TD DRILLER 315 LOGGER \_\_\_\_\_  
 HOLE SIZE 12 1/4

OPERATOR Newfield Production Company  
 WELL BJ Fed Q-10-9-17  
 FIELD/PROSPECT Monument Butte  
 CONTRACTOR & RIG # NDSI NS #1

LOG OF CASING STRING:							
PIECES	OD	ITEM - MAKE - DESCRIPTION	WT / FT	GRD	THREAD	CONDT	LENGTH
		Shoe Joint ' 40.53'					
		WHI - 92 csg head			8rd	A	0.95
7	8 5/8"	Maverick ST&C csg	24#	J-55	8rd	A	303.01
		<b>GUIDE</b> shoe			8rd	A	0.9
CASING INVENTORY BAL.		FEET	JTS	TOTAL LENGTH OF STRING			304.86
TOTAL LENGTH OF STRING		304.86	7	LESS CUT OFF PIECE			2
LESS NON CSG. ITEMS		1.85		PLUS DATUM TO T/CUT OFF CSG			12
PLUS FULL JTS. LEFT OUT		0		CASING SET DEPTH			<b>314.86</b>
TOTAL		303.01	7	} COMPARE			
TOTAL CSG. DEL. (W/O THRDS)		303.01	7				
TIMING		1ST STAGE					
BEGIN RUN CSG.	Spud	9/15/2008	8:15 AM	GOOD CIRC THRU JOB	y		
CSG. IN HOLE		9/15/2008	4:45 PM	Bbls CMT CIRC TO SURFACE	7		
BEGIN CIRC		9/19/2008	10:22 AM	RECIPROCATED PIPE FOR	N/A		
BEGIN PUMP CMT		9/19/2008	10:35 AM				
BEGIN DSPL. CMT		9/19/2008	10:47 AM	BUMPED PLUG TO	470 PSI		
PLUG DOWN		9/19/2008	10:50 AM				
CEMENT USED		CEMENT COMPANY- <b>B. J.</b>					
STAGE	# SX	CEMENT TYPE & ADDITIVES					
1	160	Class "G" w/ 2% CaCL2 + 1/4#/sk Cello-Flake mixed @ 15.8 ppg 1.17 cf/sk yield					
CENTRALIZER & SCRATCHER PLACEMENT		SHOW MAKE & SPACING					
Centralizers - Middle first, top second & third for 3							

COMPANY REPRESENTATIVE Jim Smith DATE 9/19/2008

**RECEIVED**

**SEP 24 2008**

DIV. OF OIL, GAS & MINING

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

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

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

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

5. Lease Serial No.  
USA UTU-70821

6. If Indian, Allottee or Tribe Name.

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

8. Well Name and No.  
BLACKJACK FEDERAL Q-10-9-17

9. API Well No.  
4301333917

10. Field and Pool, or Exploratory Area  
MONUMENT BUTTE

11. County or Parish, State  
DUCHESNE, UT

1. Type of Well  
 Oil Well  Gas Well  Other

2. Name of Operator  
NEWFIELD PRODUCTION COMPANY

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

3b. Phone (include are code)  
435.646.3721

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)  
SWSW Section 10 T9S R17E

**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 checked="" type="checkbox"/> Subsequent Report	<input type="checkbox"/> Alter Casing	<input type="checkbox"/> Fracture Treat	<input type="checkbox"/> Reclamation
<input type="checkbox"/> Final Abandonment	<input type="checkbox"/> Casing Repair	<input type="checkbox"/> New Construction	<input type="checkbox"/> Recomplete
	<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
			<input type="checkbox"/> Water Shut-Off
			<input type="checkbox"/> Well Integrity
			<input checked="" type="checkbox"/> Other _____ Weekly Status Report

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

On 10/3/08 MIRU NDSI Rig # 1. Set all equipment. Pressure test Kelly, TIW, Choke manifold, & Bop's to 2,000 psi. Test 8.625 csgn to 1,500 psi. Vernal BLM field, & Roosevelt DOGM office was notified of test. PU BHA and tag cement @ 270'. Drill out cement & shoe. Drill a 7.875 hole with fresh water to a depth of 5994'. Lay down drill string & BHA. Open hole log w/ Dig/SP/GR log's TD to surface. PU & TIH with Guide shoe, shoe jt, float collar, 160 jt's of 5.5 J-55, 15.5# csgn. Set @ 5987' / KB. Cement with 300 sks cement mixed @ 11.0 ppg & 3.43 yld. Then 425 sks cement mixed @ 14.4 ppg & 1.24 yld. Returned 40 bbls of cement to reserve pit. Nipple down Bop's. Drop slips @ 120,000 #'s tension. Release rig @ 6:00 AM on 10/9/08.

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

Title  
Drilling Foreman

Date  
11/04/2008

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

Approved by .....

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

Title \_\_\_\_\_ Date \_\_\_\_\_  
Office \_\_\_\_\_

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

(Instructions on page 2)

**RECEIVED**  
**NOV 06 2008**  
DIV. OF OIL, GAS & MINING

5 1/2" CASING SET @ 5987.22

LAST CASING: 8-5/8" SET @ 314.86  
 DATUM (KB) 12  
 DATUM TO CUT OFF CASING 12  
 DATUM TO BRADENHEAD FLANGE 12  
 DRILLER TD 5994 LOGGER TD \_\_\_\_\_  
 HOLE SIZE 7-7/8" TOP FLOAT COLLAR @ #VALUE!  
 TOP SHORT JT @ #N/A

OPERATOR: Newfield Production Company  
 WELL: BJ Q-10-9-17  
 FIELD/PROSPECT: Monument Butte  
 CONTRACTOR & RIG #: NDSI # 1

**LOG OF CASING STRING:**

PIECES	OD	ITEM - MAKE - DESCRIPTION	WT / FT	GRD	THREAD	CONDT	LENGTH
1		Landing Jt	15.5#	J-55	8rd	A	14
159	5 1/2"	LT&C CASING	15.5#	J-55	8rd	A	5973.97
1	5 1/2"	FLOAT COLLAR	-	-	-	A	0.6
1	5 1/2"	LT&C CASING	15.5#	J-55	8rd	A	
1	5 1/2"	GUIDE SHOE					0.65

CASING INVENTORY BAL.	FEET	JTS
TOTAL LENGTH OF STRING	5989.22	160
LESS NON CSG. ITEMS	15.25	-
PLUS FULL JTS. LEFT OUT	259.55	7
TOTAL	6233.52	167
TOTAL CSG. DEL. (W/O THRDS)	6233.52	167

TOTAL LENGTH OF STRING	5989.22
(-) LANDING JT	14
(-) AMOUNT CUTOFF	0
(+) KB ELEVATION	12
CASING SET DEPTH	<b>5987.22</b>

COMPARE (SHOULD BE EQUAL)

CEMENT DATA	TIME	DATE
BEGIN RUN CSG.	10:30 PM	10/8/2008
CSG. IN HOLE	2:00 AM	10/9/2008
BEGIN CIRC	2:00 AM	10/9/2008
BEGIN PUMP CMT	4:03 AM	10/9/2008
BEGIN DSPL. CMT	4:58 AM	10/9/2008
PLUG DOWN	5:25 AM	10/9/2008

GOOD CIRC THRU JOB: Yes  
 Bbls CMT CIRC TO SURFACE: 40  
 RECIPROCATED PIPE: No  
 DID BACK PRES. VALVE HOLD ? Yes  
 BUMPED PLUG TO: 2400 PSI

**CEMENT USED**

CEMENT COMPANY:	BJ	
STAGE	# SX	CEMENT TYPE & ADDITIVES
1 (lead)	300	Premium Lite II cement + 0.05 lbs/sack Static Free + 3% bwow Potassium Chloride + 0.5 lbs/sack Cello Flake + 2 lbs/sack Kol Seal + 0.002 gps FP-6L + 10% bwoc Bentonite + 0.5% bwoc Sodium Metasilicate + 5 lbs/sack CSE-2 + 204.7% Fresh Water
2 (tail)	425	(50:50) Poz (Fly Ash): Class G Cement + 0.05 lbs/sack Static Free + 3% bwow Potassium Chloride + 0.5% bwoc EC-1 + 0.25 lbs/sack Cello Flake + 0.002 gps FP-6L + 2% bwoc Bentonite + 0.3% bwoc Sodium Metasilicate + 54.7% Fresh Water

**CENTRALIZER & SCRATCHER PLACEMENT (SHOW MAKE & SPACING)**

Centralizers - Middle first, top second & third. Then every third collar for a total of 20.

COMPANY REPRESENTATIVE Justin Crum

DATE 10/9/2008



## Daily Activity Report

Format For Sundry

**BLACKJACK Q-10-9-17****8/1/2008 To 12/30/2008****10/23/2008 Day: 1****Completion**

Rigless on 10/22/2008 - Instal 5K frac head. NU 6" 5K Cameron BOP. RU H/O truck & pressure test casing, blind rams, frac head, csg & casing valves to 4500 psi. RU Perforators LLC WLT w/ mast & run CBL under pressure. WLTD @ 5893' & cement top @ 58'. Perforate stage #1, CP5 sds @ 5814-22' w/ 3-1/8" Slick Guns (19 gram, .49"EH, 120°) w/ 4 spf for total of 32 shots. 141 bbls EWTR. SIFN.

**10/28/2008 Day: 2****Completion**

Rigless on 10/27/2008 - Day 2a, Stage #1 CP5 sds. RU BJ Services. 0 psi on well. Frac CP5 sds w/ 29,793#'s of 20/40 sand in 424 bbls of Lightning 17 fluid. Broke @ 3481 psi. Treated w/ ave pressure of 2212 psi w/ ave rate of 23.1 BPM. ISIP 1798 psi. Leave pressure on well. 565 BWTR. See day 2b. Day 2b, Stage #2 CP4 sds. RU Lone Wolf, llc WLT, crane & Lubricator. RIH w/ Weatherford 5-1/2" 6K composite flow through frac plug & 8' perf gun. Set plug @ 5730'. Perforate CP4 sds @ 5686-94' w/ 3-1/8" Slick Guns (.369"EH, 22.7 gram, 90°) w/ 4 spf for total of 32 shots. RU BJ Services. 1347 psi on well. Frac CP4 sds w/ 29,917#'s of 20/40 sand in 421 bbls of Lightning 17 fluid. Broke @ 3826 psi. Treated w/ ave pressure of 2229 psi w/ ave rate of 23.1 BPM. ISIP 1811 psi. Leave pressure on well. 986 BWTR. See day 2c. Day 2c, Stage #3 CP1/CP2 sds. RU Lone Wolf, llc WLT, crane & Lubricator. RIH w/ Weatherford 5-1/2" 6K composite flow through frac plug & 10', 22' perf guns. Set plug @ 5590'. Perforate CP2 sds @ 5552-62' & CP1 sds @ 5498-5520' w/ 3-1/8" Slick Guns (.369"EH, 22.7 gram, 90°) w/ 4 spf for total of 128 shots. RU BJ Services. 1468 psi on well. Frac CP1/CP2 sds w/ 71,170#'s of 20/40 sand in 592 bbls of Lightning 17 fluid. Broke @ 2290 psi. Treated w/ ave pressure of 2571 psi w/ ave rate of 24.7 BPM. ISIP 1571 psi. Leave pressure on well. 1578 BWTR. See day 2d. Day 2d, Stage #4 A1/A3 sds. RU Lone Wolf, llc WLT, crane & Lubricator. RIH w/ Weatherford 5-1/2" 6K composite flow through frac plug & 10', 8', 12' perf guns. Set plug @ 5250'. Perforate A3 sds @ 5132-42' & 5110-18' & A1 sds @ 5060-72' w/ 3-1/8" Slick Guns (.369"EH, 22.7 gram, 90°) w/ 4 spf for total of 120 shots. RU BJ Services. 1261 psi on well. Frac A1/A3 sds w/ 70,919#'s of 20/40 sand in 578 bbls of Lightning 17 fluid. Broke @ 3549 psi. Treated w/ ave pressure of 1574 psi w/ ave rate of 24.6 BPM. ISIP 1833 psi. Leave pressure on well. 2156 BWTR. See day 2e. Day 2e, Stage #5 C sds. RU Lone Wolf, llc WLT, crane & Lubricator. RIH w/ Weatherford 5-1/2" 6K composite flow through frac plug & 10' perf gun. Set plug @ 4880'. Perforate C sds @ 4790-4800' w/ 3-1/8" Slick Guns (.369"EH, 22.7 gram, 90°) w/ 4 spf for total of 40 shots. RU BJ Services. 1476 psi on well. Frac C sds w/ 40,708#'s of 20/40 sand in 404 bbls of Lightning 17 fluid. Broke @ 3648 psi. Treated w/ ave pressure of 2057 psi w/ ave rate of 23.2 BPM. ISIP 1947 psi. Leave pressure on well. 2560 BWTR. See day 2f. Day 2f, Stage #6 GB6 sds. RU Lone Wolf, llc WLT, crane & Lubricator. RIH w/ Weatherford 5-1/2" 6K composite flow through frac plug & 14' perf gun. Set plug @ 4300'. Perforate GB6 sds @ 4150-64' w/ 3-1/8" Slick Guns (.369"EH, 22.7 gram, 90°) w/ 4 spf for total of 56 shots. RU BJ Services. 1417 psi on well. Frac GB6 sds w/ 49,133#'s of 20/40 sand in 435 bbls of Lightning 17 fluid. Broke @ 4248 psi. Treated w/ ave pressure of 2039 psi w/ ave rate of 24.2 BPM. ISIP 2362 psi. Open well to pit for immediate flowback @ approx. 3 bpm. Well flowed for 7 hrs. died. Recovered 450 bbls water. SWIFN.

**10/29/2008 Day: 3****Completion**

Western #2 on 10/28/2008 - MIRU Western #2. Bleed off well. ND Cameron BOP & 5m frac head. NU 3m production head & Schaffer BOP. SWIFN.

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10/30/2008 Day: 4

Completion

Western #2 on 10/29/2008 - Bleed off well. RIH w/ 4 3/4" chomp bit, bit sub & new 2 7/8" tbg. from pipe rack (tallying & drifting). Tag CBP @ 4300'. RU powerswivel & pump. DU CBP in 24 min. Cont. RIH w/ tbg. Tag 4880'. DU CBP in 18 min. Cont. RIH w/ tbg. Tag sand @ 5235'. C/O to CBP @ 5250'. DU CBP in 19 min. Cont. RIH w/ tbg. Tag sand @ 5542'. C/O to CBP @ 5590'. DU CBP in 50 min. Cont. RIH tbg. Tag CBP @ 5730'. DU CBP in 20 min. Circulate well clean. SWIFN.

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10/31/2008 Day: 5

Completion

Western #2 on 10/30/2008 - Bleed off well. RIH w/ tbg. Tag sand @ 5824'. C/O to PBD @ 5950'. Circulate well clean. Pull up to 5875'. RIH w/ swab. SFL @ surface. Made 11 runs. Recovered 123 bbls water. Trace of oil. No show of sand. EFL @ 700'. RD swab. RIH w/ tbg. Tag sand @ 5947'. C/O to PBD @ 5950'. Circulate well clean. POOH w/ tbg. LD BHA. RIH w/ 2 7/8" notched collar, 1 jt 2 7/8" tbg., PSN, 1 jt 2 7/8" tbg., 5 1/2" TAC, 188 jts 2 7/8" tbg. ND BOP. Set TAC @ 5788' w/ 16,000# tension. NU wellhead. X-over for rods. Flush tbg. w/ 60 bbls water. SWIFN.

---

11/1/2008 Day: 6

Completion

Western #2 on 10/31/2008 - RIH w/ CDI 2 1/2" x 1 3/4" x 16' x 20' RHAC rod pump, 4- 1 1/2" weight bars, 228- 7/8" guided rods, 1- 2' x 7/8" pony sub, 1 1/2" x 26' polished rod. Seat pump. RU pumping unit. Stroke test to 800 psi. Good pump action. RD. Put well on production @ 11:30 a.m. 122" stroke length, 5 spm. Final Report.

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Pertinent Files: Go to File List

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

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

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

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

5. Lease Serial No.  
UTU-65210

2. Name of Operator  
NEWFIELD EXPLORATION COMPANY

6. If Indian, Allottee or Tribe Name  
NA

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

7. Unit or CA Agreement Name and No.  
BLACKJACK

4. Location of Well (Report location clearly and in accordance with Federal requirements)\*  
At surface 324' FSL & 705' FWL (SW/SW) SEC. 10, T9S, R17E

8. Lease Name and Well No.  
BLACKJACK FEDERAL Q-10-9-17

At top prod. interval reported below  
At total depth 5994' 1347' fsl 1347' fwl DER HSM review

9. AFI Well No.  
43-013-33917

10. Field and Pool or Exploratory  
MONUMENT BUTTE

11. Sec., T., R., M., on Block and  
Survey or Area SEC. 10, T9S, R17E

12. County or Parish DUCHESNE 13. State UT

14. Date Spudded 10/03/2008 15. Date T.D. Reached 10/08/2008 16. Date Completed 10/31/2008  D & A  Ready to Prod.

17. Elevations (DF, RKB, RT, GL)\*  
5209' GL 5221' KB

18. Total Depth: MD 5994' TVD 5952' 19. Plug Back T.D.: MD 5950' TVD 5808'

20. Depth Bridge Plug Set: MD TVD

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

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

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

Hole Size	Size/Grade	Wt. (#/ft.)	Top (MD)	Bottom (MD)	Stage Cementer Depth	No. of Sk. & Type of Cement	Slurry Vol. (BBL)	Cement Top*	Amount Pulled
12-1/4"	8-5/8" J-55	24#		315'		160 CLASS G		58'	
7-7/8"	5-1/2" J-55	15.5#		5987'		300 PRIMLITE 425 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@ 5854'	TA @ 5188'						

25. Producing Intervals

Formation	Top	Bottom	Perforated Interval	Size	No. Holes	Perf. Status
A) GRPV			(CP5) 5814-22'	.49"	4	32
B) per operator			(CP4) 5686-5694'	.49"	4	32
C)			(CP2) 5552-62'(CP1)5498-2	.49"	4	128
D)			(A3)5132-42,5110-18(A1)50	.49"	4	120

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

Depth Interval	Amount and Type of Material
5814-5822'	Frac w/ 29793# of 20/40 snd 424 bbls fluid
5686-5694'	Frac w/ 29917# 20/40 snd 421 bbls fluid
5498-5562'	Frac w/ 71170# 20/40 snd 592 bbls fluid
5060-5142'	Frac w/ 70919# 20/40 snd 578 bbls fluid

28. Production - Interval A

Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
10/31/08	11/06/08	24	→	30	27	35			2-1/2" x 1-3/4" x 16 x 20' RHAC Rod Pump
Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas/Oil Ratio	Well Status	
			→					PRODUCING	

28a. Production - Interval B

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

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NOV 25 2008

\*(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	3591' 3792'
				GARDEN GULCH 2 POINT 3	3909' 4188'
				X MRKR Y MRKR	4430' 4466'
				DOUGALS CREEK MRK BI CARBONATE MRK	4594' 4842'
				B LIMESTON MRK CASTLE PEAK	4967' 5449'
				BASAL CARBONATE TOTAL DEPTH (LOGGERS)	5890' 5989'

32. Additional remarks (include plugging procedure):

(C) 4790-4800' .49" 4/40 4790-4800' Frac w/ 40708#'s of 20/40 sand in 404 bbls of fluid  
 (GB6) 4150-4164' .49" 4/56 4150-4164' Frac w/ 49133#'s of 20/40 sand in 435 bbls of fluid

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

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

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

Name (please print) Tammi Lee      Title Production Clerk  
 Signature *Tammi Lee*      Date 11/15/2008

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 10**

**Q-10-9-17**

**Wellbore #1**

**Survey: Survey #1**

## **Standard Survey Report**

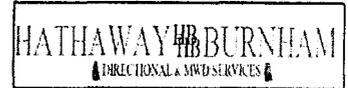
**19 November, 2008**

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



# Hathaway Burnham

## Survey Report



**Company:** NEWFIELD EXPLORATION  
**Project:** USGS Myton SW (UT)  
**Site:** SECTION 10  
**Well:** Q-10-9-17  
**Wellbore:** Wellbore #1  
**Design:** Wellbore #1

**Local Co-ordinate Reference:** Well Q-10-9-17  
**TVD Reference:** Q-10-9-17 @ 5221.00ft (RKB)  
**MD Reference:** Q-10-9-17 @ 5221.00ft (RKB)  
**North Reference:** True  
**Survey Calculation Method:** Minimum Curvature  
**Database:** EDM 2003.21 Single User Db

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

**Site** SECTION 10, SEC 10 TT9S, R17E

<b>Site Position:</b>		<b>Northing:</b>	7,188,895.00ft	<b>Latitude:</b>	40.045619
<b>From:</b>	Lat/Long	<b>Easting:</b>	2,062,318.00ft	<b>Longitude:</b>	-109.992869
<b>Position Uncertainty:</b>	0.00 ft	<b>Slot Radius:</b>	in	<b>Grid Convergence:</b>	0.97 °

**Well** Q-10-9-17, SHL, LAT: 40 02 20.73, LONG: 109 59 58.78

<b>Well Position</b>	<b>+N/-S</b>	0.00 ft	<b>Northing:</b>	7,186,485.87 ft	<b>Latitude:</b>	40.039092
	<b>+E/-W</b>	0.00 ft	<b>Easting:</b>	2,060,456.79 ft	<b>Longitude:</b>	-109.999661
<b>Position Uncertainty</b>		0.00 ft	<b>Wellhead Elevation:</b>	ft	<b>Ground Level:</b>	0.00 ft

**Wellbore** Wellbore #1

Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF200510	2008/07/30	11.64	65.88	52,588

**Design** Wellbore #1

**Audit Notes:**

<b>Version:</b>	1.0	<b>Phase:</b>	ACTUAL	<b>Tie On Depth:</b>	0.00
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<b>Vertical Section:</b>	<b>Depth From (TVD) (ft)</b>	<b>+N/-S (ft)</b>	<b>+E/-W (ft)</b>	<b>Direction (°)</b>
	0.00	0.00	0.00	32.10

**Survey Program** Date 2008/11/19

From (ft)	To (ft)	Survey (Wellbore)	Tool Name	Description
394.00	5,983.00	Survey #1 (Wellbore #1)	MWD	MWD - Standard

**Survey**

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
394.00	0.29	61.76	394.00	0.47	0.88	0.87	0.07	0.07	0.00
425.00	0.59	58.06	425.00	0.59	1.08	1.08	0.97	0.97	-11.94
456.00	0.97	52.50	455.99	0.84	1.43	1.47	1.25	1.23	-17.94
486.00	1.34	35.48	485.99	1.28	1.83	2.06	1.67	1.23	-56.73
517.00	1.82	26.38	516.98	2.01	2.26	2.91	1.74	1.55	-29.35
548.00	2.26	26.85	547.96	3.00	2.76	4.01	1.42	1.42	1.52
578.00	2.82	30.78	577.93	4.16	3.40	5.33	1.95	1.87	13.10
609.00	3.46	28.56	608.88	5.64	4.24	7.03	2.10	2.06	-7.16
640.00	4.09	26.03	639.81	7.45	5.17	9.06	2.10	2.03	-8.16
670.00	4.66	25.54	669.73	9.51	6.17	11.34	1.90	1.90	-1.63
701.00	5.30	23.51	700.61	11.96	7.28	14.00	2.14	2.06	-6.55
732.00	5.47	24.30	731.47	14.62	8.46	16.88	0.60	0.55	2.55



# Hathaway Burnham

## Survey Report



**Company:** NEWFIELD EXPLORATION  
**Project:** USGS Myton SW (UT)  
**Site:** SECTION 10  
**Well:** Q-10-9-17  
**Wellbore:** Wellbore #1  
**Design:** Wellbore #1

**Local Co-ordinate Reference:** Well Q-10-9-17  
**TVD Reference:** Q-10-9-17 @ 5221.00ft (RKB)  
**MD Reference:** Q-10-9-17 @ 5221.00ft (RKB)  
**North Reference:** True  
**Survey Calculation Method:** Minimum Curvature  
**Database:** EDM 2003.21 Single User Db

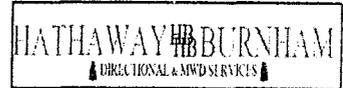
### Survey

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)
763.00	5.67	23.51	762.33	17.37	9.68	19.86	0.69	0.65	-2.55
793.00	6.24	22.14	792.16	20.24	10.88	22.93	1.96	1.90	-4.57
824.00	6.26	20.63	822.98	23.39	12.11	26.25	0.53	0.06	-4.87
855.00	6.31	18.75	853.79	26.58	13.26	29.56	0.68	0.16	-6.06
887.00	6.57	18.54	885.59	29.98	14.40	33.05	0.82	0.81	-0.66
918.00	7.14	19.64	916.37	33.48	15.62	36.66	1.89	1.84	3.55
949.00	7.54	21.97	947.12	37.18	17.02	40.54	1.61	1.29	7.52
980.00	8.10	22.58	977.83	41.08	18.62	44.70	1.83	1.81	1.97
1,011.00	8.28	22.12	1,008.51	45.17	20.30	49.05	0.62	0.58	-1.48
1,042.00	8.53	23.72	1,039.18	49.34	22.07	53.52	1.10	0.81	5.16
1,074.00	9.16	23.48	1,070.80	53.85	24.04	58.39	1.97	1.97	-0.75
1,104.00	9.54	22.58	1,100.40	58.33	25.94	63.20	1.36	1.27	-3.00
1,135.00	10.09	23.37	1,130.94	63.20	28.01	68.42	1.83	1.77	2.55
1,167.00	10.39	22.87	1,162.43	68.43	30.24	74.04	0.98	0.94	-1.56
1,198.00	10.48	21.95	1,192.92	73.62	32.38	79.57	0.61	0.29	-2.97
1,229.00	10.26	23.33	1,223.42	78.77	34.53	85.08	1.07	-0.71	4.45
1,260.00	10.57	24.10	1,253.90	83.90	36.78	90.62	1.10	1.00	2.48
1,292.00	10.77	26.23	1,285.35	89.26	39.30	96.50	1.38	0.62	6.66
1,323.00	10.96	27.13	1,315.80	94.48	41.93	102.32	0.82	0.61	2.90
1,354.00	10.63	26.40	1,346.25	99.67	44.54	108.10	1.15	-1.06	-2.35
1,385.00	10.61	26.60	1,376.72	104.78	47.09	113.79	0.14	-0.06	0.65
1,417.00	10.42	27.75	1,408.18	109.97	49.76	119.60	0.88	-0.59	3.59
1,448.00	10.50	27.37	1,438.66	114.96	52.36	125.21	0.34	0.26	-1.23
1,479.00	10.52	26.05	1,469.14	120.01	54.90	130.84	0.78	0.06	-4.26
1,510.00	10.48	27.48	1,499.62	125.06	57.45	136.47	0.85	-0.13	4.61
1,541.00	10.59	26.95	1,530.10	130.10	60.04	142.11	0.47	0.35	-1.71
1,635.00	12.50	27.02	1,622.20	146.86	68.57	160.85	2.03	2.03	0.07
1,729.00	13.93	34.10	1,713.71	165.30	79.54	182.29	2.29	1.52	7.53
1,822.00	12.70	33.41	1,804.21	183.10	91.45	203.70	1.33	-1.32	-0.74
1,916.00	13.95	35.50	1,895.68	200.95	103.72	225.34	1.42	1.33	2.22
2,010.00	14.06	32.29	1,986.88	219.83	116.40	248.07	0.83	0.12	-3.41
2,103.00	11.89	28.32	2,077.51	237.81	126.98	268.93	2.52	-2.33	-4.27
2,197.00	13.69	29.02	2,169.17	256.07	136.97	289.70	1.92	1.91	0.74
2,291.00	15.01	28.98	2,260.24	276.44	148.26	312.97	1.40	1.40	-0.04
2,384.00	12.90	27.11	2,350.49	296.22	158.83	335.34	2.32	-2.27	-2.01
2,478.00	14.61	28.78	2,441.79	315.95	169.32	357.63	1.87	1.82	1.78
2,571.00	13.71	28.82	2,531.96	335.89	180.28	380.34	0.97	-0.97	0.04
2,665.00	13.97	30.21	2,623.23	355.45	191.36	402.80	0.45	0.28	1.48
2,758.00	14.72	30.95	2,713.33	375.29	203.08	425.83	0.83	0.81	0.80
2,852.00	14.30	30.16	2,804.33	395.57	215.06	449.38	0.49	-0.45	-0.84
2,945.00	13.32	28.27	2,894.64	414.93	225.90	471.55	1.16	-1.05	-2.03
3,039.00	12.83	27.66	2,986.21	433.72	235.88	492.76	0.54	-0.52	-0.65
3,133.00	15.38	32.78	3,077.37	453.44	247.47	515.63	3.02	2.71	5.45
3,227.00	14.30	30.38	3,168.23	473.94	260.09	539.70	1.32	-1.15	-2.55
3,321.00	14.74	31.44	3,259.23	494.16	272.20	563.26	0.55	0.47	1.13
3,415.00	14.13	32.34	3,350.26	514.05	284.58	586.69	0.69	-0.65	0.96
3,508.00	13.58	32.10	3,440.56	532.90	296.45	608.96	0.59	-0.59	-0.26
3,602.00	12.88	30.49	3,532.06	551.27	307.63	630.47	0.84	-0.74	-1.71
3,696.00	12.57	31.57	3,623.75	569.01	318.30	651.17	0.42	-0.33	1.15
3,789.00	12.95	32.39	3,714.46	586.44	329.18	671.71	0.45	0.41	0.88
3,883.00	14.50	39.57	3,805.78	604.40	342.32	693.92	2.45	1.65	7.64
3,977.00	13.11	38.44	3,897.06	621.83	356.45	716.18	1.51	-1.48	-1.20
4,070.00	12.24	39.26	3,987.79	637.72	369.24	736.44	0.96	-0.94	0.88
4,164.00	12.57	35.48	4,079.60	653.77	381.49	756.54	0.93	0.35	-4.02



# Hathaway Burnham

## Survey Report



**Company:** NEWFIELD EXPLORATION  
**Project:** USGS Myton SW (UT)  
**Site:** SECTION 10  
**Well:** Q-10-9-17  
**Wellbore:** Wellbore #1  
**Design:** Wellbore #1

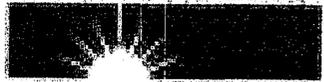
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**MD Reference:** Q-10-9-17 @ 5221.00ft (RKB)  
**North Reference:** True  
**Survey Calculation Method:** Minimum Curvature  
**Database:** EDM 2003.21 Single User Db

### Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
4,257.00	14.30	40.20	4,170.05	670.78	394.78	778.02	2.20	1.86	5.08
4,351.00	15.53	36.16	4,260.89	689.81	409.69	802.06	1.71	1.31	-4.30
4,445.00	14.96	35.50	4,351.58	709.85	424.17	826.73	0.63	-0.61	-0.70
4,539.00	14.17	36.16	4,442.56	729.01	438.00	850.32	0.86	-0.84	0.70
4,632.00	14.55	36.21	4,532.65	747.63	451.62	873.32	0.41	0.41	0.05
4,726.00	14.33	36.47	4,623.68	766.51	465.51	896.70	0.24	-0.23	0.28
4,820.00	15.58	28.91	4,714.50	786.92	478.53	920.91	2.46	1.33	-8.04
4,914.00	14.24	29.55	4,805.34	808.03	490.33	945.06	1.44	-1.43	0.68
5,007.00	14.59	34.14	4,895.41	827.67	502.55	968.19	1.28	0.38	4.94
5,101.00	14.30	33.52	4,986.44	847.15	515.60	991.63	0.35	-0.31	-0.66
5,194.00	15.10	36.12	5,076.40	866.51	529.09	1,015.20	1.11	0.86	2.80
5,221.16	14.62	36.49	5,102.65	872.13	533.21	1,022.15	1.79	-1.76	1.35
<b>Q-10-9-17 TGT</b>									
5,288.00	13.45	37.50	5,167.49	885.08	542.96	1,038.30	1.79	-1.75	1.51
5,382.00	14.06	33.39	5,258.80	903.28	555.90	1,060.60	1.23	0.65	-4.37
5,476.00	13.73	34.01	5,350.05	922.06	568.42	1,083.16	0.39	-0.35	0.66
5,570.00	15.25	31.20	5,441.06	941.89	581.07	1,106.67	1.78	1.62	-2.99
5,663.00	14.08	34.58	5,531.03	961.66	593.82	1,130.20	1.56	-1.26	3.63
5,757.00	14.44	35.37	5,622.13	980.64	607.10	1,153.33	0.44	0.38	0.84
5,851.00	14.55	38.29	5,713.14	999.46	621.20	1,176.77	0.79	0.12	3.11
5,983.00	13.03	43.81	5,841.34	1,023.22	641.78	1,207.83	1.52	-1.15	4.18

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

# NEWFIELD



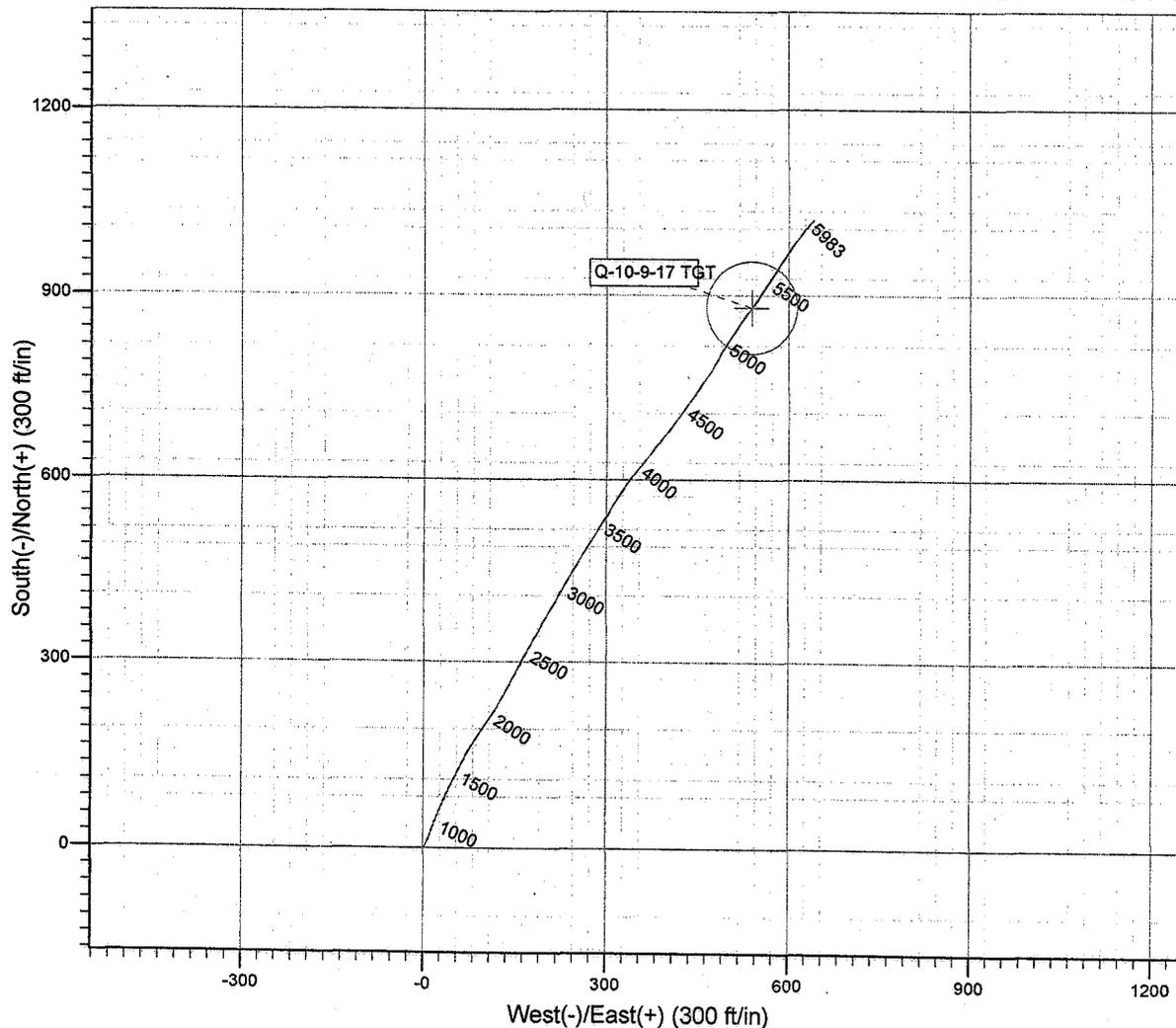
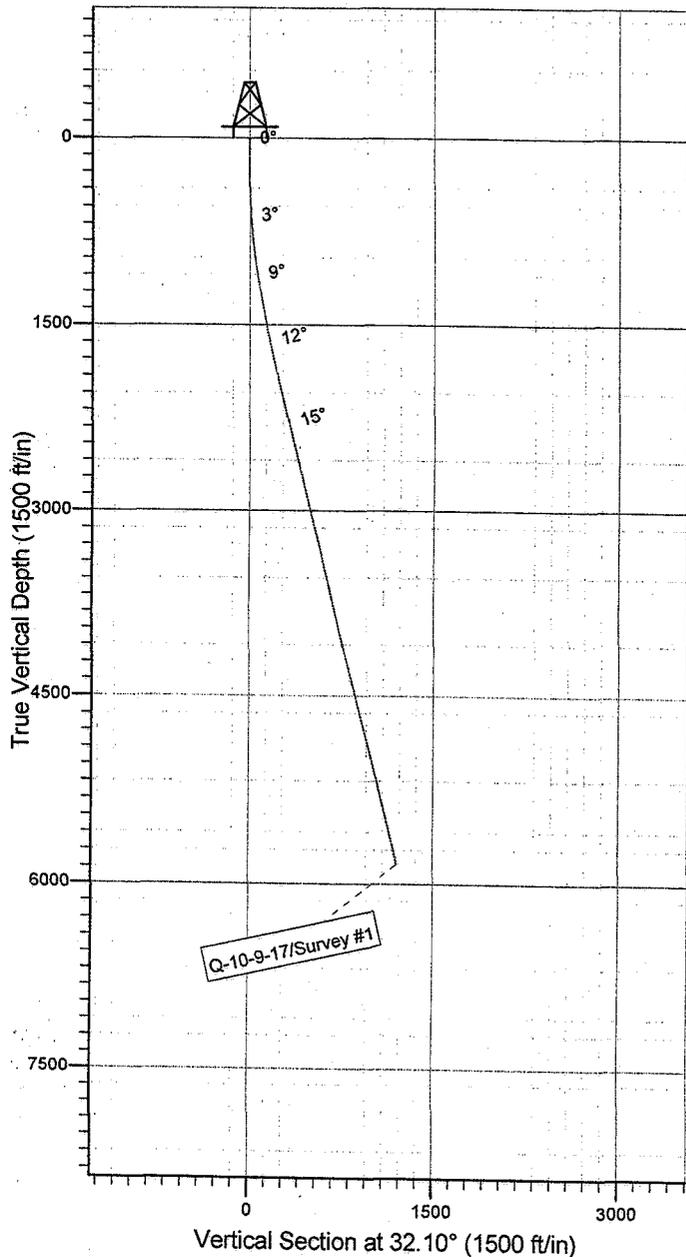
Project: USGS Myton SW (UT)  
Site: SECTION 10  
Well: Q-10-9-17  
SURVEY: Wellbore #1

FINAL SURVEY REPORT



Azimuths to True North  
Magnetic North: 11.64°

Magnetic Field  
Strength: 52588.4snT  
Dip Angle: 65.88°  
Date: 2008/07/30  
Model: IGRF200510



**HATHAWAY** **BURNHAM**  
DIRECTIONAL & MWD SERVICES

Survey: Survey #1 (Q-10-9-17/Wellbore #1)

Created By: *Jim Hudson* Date: 13:38, November 19 2008

THIS SURVEY IS CORRECT TO THE BEST OF MY  
KNOWLEDGE AND IS SUPPORTED BY ACTUAL FIELD  
DATA.

H        HEADER        INFORMATION -----  
 H        COMPANY        :            NEWFIELD EXPLORATION  
 H        FIELD         :            USGS        Myton    SW        (UT)  
 H        SITE         :            SECTION        10  
 H        WELL         :            Q-10-9-17  
 H        WELLPATH:   Wellbore        #1  
 H        DEPTHUNT:   ft  
 H        SURVDATE:        11/19/2008  
 H        DECLINATION CORR.  
 H        =                    10.68 TO        GRIDH-----

H        WELL        INFORMATION  
 H        WELL        EW            MAP        :            2060457  
 H        WELL        NS            MAP        :            7186486  
 H        DATUM        ELEVN        :            5221  
 H        VSECT        ANGLE        :            32.1  
 H        VSECT        NORTH        :            0  
 H        VSECT        EAST         :            0

H -----  
 H        SURVEY        TYPE            INFORMATION  
 H                    394 -            5983 SURVEY   #1        :        MWD  
 H -----

H	SURVEY	LIST						
MDS	INC	AZI	TVD	NS	EW	VS	DLS	
	0	0	0	0	0	0	0	0
	394	0.29	61.76	394	0.47	0.88	0.87	0.07
	425	0.59	58.06	425	0.59	1.08	1.08	0.97
	456	0.97	52.5	455.99	0.84	1.43	1.47	1.25
	486	1.34	35.48	485.99	1.28	1.83	2.06	1.67
	517	1.82	26.38	516.98	2.01	2.26	2.91	1.74
	548	2.26	26.85	547.96	3	2.76	4.01	1.42
	578	2.82	30.78	577.93	4.16	3.4	5.33	1.95
	609	3.46	28.56	608.88	5.64	4.24	7.03	2.1
	640	4.09	26.03	639.81	7.45	5.17	9.06	2.1
	670	4.66	25.54	669.73	9.51	6.17	11.34	1.9
	701	5.3	23.51	700.61	11.96	7.28	14	2.14
	732	5.47	24.3	731.47	14.62	8.46	16.88	0.6
	763	5.67	23.51	762.33	17.37	9.68	19.86	0.69
	793	6.24	22.14	792.16	20.24	10.88	22.93	1.96
	824	6.26	20.63	822.98	23.39	12.11	26.25	0.53
	855	6.31	18.75	853.79	26.58	13.26	29.56	0.68
	887	6.57	18.54	885.59	29.98	14.4	33.05	0.82
	918	7.14	19.64	916.37	33.48	15.62	36.66	1.89
	949	7.54	21.97	947.12	37.18	17.02	40.54	1.61
	980	8.1	22.58	977.83	41.08	18.62	44.7	1.83
	1011	8.28	22.12	1008.51	45.17	20.3	49.05	0.62
	1042	8.53	23.72	1039.18	49.34	22.07	53.52	1.1
	1074	9.16	23.48	1070.8	53.85	24.04	58.39	1.97

1104	9.54	22.58	1100.4	58.33	25.94	63.2	1.36
1135	10.09	23.37	1130.94	63.2	28.01	68.42	1.83
1167	10.39	22.87	1162.43	68.43	30.24	74.04	0.98
1198	10.48	21.95	1192.92	73.62	32.38	79.57	0.61
1229	10.26	23.33	1223.42	78.77	34.53	85.08	1.07
1260	10.57	24.1	1253.9	83.9	36.78	90.62	1.1
1292	10.77	26.23	1285.35	89.26	39.3	96.5	1.38
1323	10.96	27.13	1315.8	94.48	41.93	102.32	0.82
1354	10.63	26.4	1346.25	99.67	44.54	108.1	1.15
1385	10.61	26.6	1376.72	104.78	47.09	113.79	0.14
1417	10.42	27.75	1408.18	109.97	49.76	119.6	0.88
1448	10.5	27.37	1438.66	114.96	52.36	125.21	0.34
1479	10.52	26.05	1469.14	120.01	54.9	130.84	0.78
1510	10.48	27.48	1499.62	125.06	57.45	136.47	0.85
1541	10.59	26.95	1530.1	130.1	60.04	142.11	0.47
1635	12.5	27.02	1622.2	146.86	68.57	160.85	2.03
1729	13.93	34.1	1713.71	165.3	79.54	182.29	2.29
1822	12.7	33.41	1804.21	183.1	91.45	203.7	1.33
1916	13.95	35.5	1895.68	200.95	103.72	225.34	1.42
2010	14.06	32.29	1986.88	219.83	116.4	248.07	0.83
2103	11.89	28.32	2077.51	237.81	126.98	268.93	2.52
2197	13.69	29.02	2169.17	256.07	136.97	289.7	1.92
2291	15.01	28.98	2260.24	276.44	148.26	312.97	1.4
2384	12.9	27.11	2350.49	296.22	158.83	335.34	2.32
2478	14.61	28.78	2441.79	315.95	169.32	357.63	1.87
2571	13.71	28.82	2531.96	335.89	180.28	380.34	0.97
2665	13.97	30.21	2623.23	355.45	191.36	402.8	0.45
2758	14.72	30.95	2713.33	375.29	203.08	425.83	0.83
2852	14.3	30.16	2804.33	395.57	215.06	449.38	0.49
2945	13.32	28.27	2894.64	414.93	225.9	471.55	1.16
3039	12.83	27.66	2986.21	433.72	235.88	492.76	0.54
3133	15.38	32.78	3077.37	453.44	247.47	515.63	3.02
3227	14.3	30.38	3168.23	473.94	260.09	539.7	1.32
3321	14.74	31.44	3259.23	494.16	272.2	563.26	0.55
3415	14.13	32.34	3350.26	514.05	284.58	586.69	0.69
3508	13.58	32.1	3440.56	532.9	296.45	608.96	0.59
3602	12.88	30.49	3532.06	551.27	307.63	630.47	0.84
3696	12.57	31.57	3623.75	569.01	318.3	651.17	0.42
3789	12.95	32.39	3714.46	586.44	329.18	671.71	0.45
3883	14.5	39.57	3805.78	604.4	342.32	693.92	2.45
3977	13.11	38.44	3897.06	621.83	356.45	716.18	1.51
4070	12.24	39.26	3987.79	637.72	369.24	736.44	0.96
4164	12.57	35.48	4079.6	653.77	381.49	756.54	0.93
4257	14.3	40.2	4170.05	670.78	394.78	778.02	2.2
4351	15.53	36.16	4260.89	689.81	409.69	802.06	1.71
4445	14.96	35.5	4351.58	709.85	424.17	826.73	0.63
4539	14.17	36.16	4442.56	729.01	438	850.32	0.86

			TVD	N/S	E/W	VS	DLS
4632	14.55	36.21	4532.65	747.63	451.62	873.32	0.41
4726	14.33	36.47	4623.68	766.51	465.51	896.7	0.24
4820	15.58	28.91	4714.5	786.92	478.53	920.91	2.46
4914	14.24	29.55	4805.34	808.03	490.33	945.06	1.44
5007	14.59	34.14	4895.41	827.67	502.55	968.19	1.28
5101	14.3	33.52	4986.44	847.15	515.6	991.63	0.35
5194	15.1	36.12	5076.4	866.51	529.09	1015.2	1.11
5288	13.45	37.5	5167.49	885.08	542.96	1038.3	1.79
5382	14.06	33.39	5258.8	903.28	555.9	1060.6	1.23
5476	13.73	34.01	5350.05	922.06	568.42	1083.16	0.39
5570	15.25	31.2	5441.06	941.89	581.07	1106.67	1.78
5663	14.08	34.58	5531.03	961.66	593.82	1130.2	1.56
5757	14.44	35.37	5622.13	980.64	607.1	1153.33	0.44
5851	14.55	38.29	5713.14	999.46	621.2	1176.77	0.79
5983	13.03	43.81	5841.34	1023.22	641.78	1207.83	1.52