

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL OR REENTER

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

1a. Type of Work: <input checked="" type="checkbox"/> DRILL <input type="checkbox"/> REENTER		5. Lease Serial No. UTU-66184
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. Ashley PA AB
3a. Address Route #3 Box 3630, Myton UT 84052		8. Lease Name and Well No. Ashley Federal L-15-9-15
3b. Phone No. (include area code) (435) 646-3721		9. API Well No. 43-013-33962
4. Location of Well (Report location clearly and in accordance with any State requirements. *) At surface NE/SE 1973' FSL 717' FEL At proposed prod. zone 2650' FNL 1335' FEL		10. Field and Pool, or Exploratory Monument Butte
14. Distance in miles and direction from nearest town or post office* Approximatley 15.4 miles southwest of Myton, Utah		11. Sec., T., R., M., or Blk. and Survey or Area Sec. 15, T9S R15E
15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any) Approx. 2625' f/ise, 2625' f/unit	16. No. of Acres in lease 1,360.57	12. County or Parish Duchesne
17. Spacing Unit dedicated to this well 20 Acres	13. State UT	
18. Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft. Approx. 1275'	19. Proposed Depth 6340'	20. BLM/BIA Bond No. on file WYB000493
21. Elevations (Show whether DF, KDB, RT, GL, etc.) 6331' GL	22. Approximate date work will start* 3rd 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 4/11/08
Title Regulatory Specialist		
Approved by (Signature) 	Name (Printed/Typed) BRADLEY G. HILL	Date 04-29-08
Title Office	ENVIRONMENTAL MANAGER	

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

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

\*(Instructions on reverse)

Surf  
567351X  
4431078Y  
40.02912  
-110.21066

BHL  
5671484  
4431274Y  
40.03092  
-110.21302

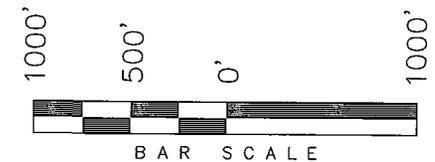
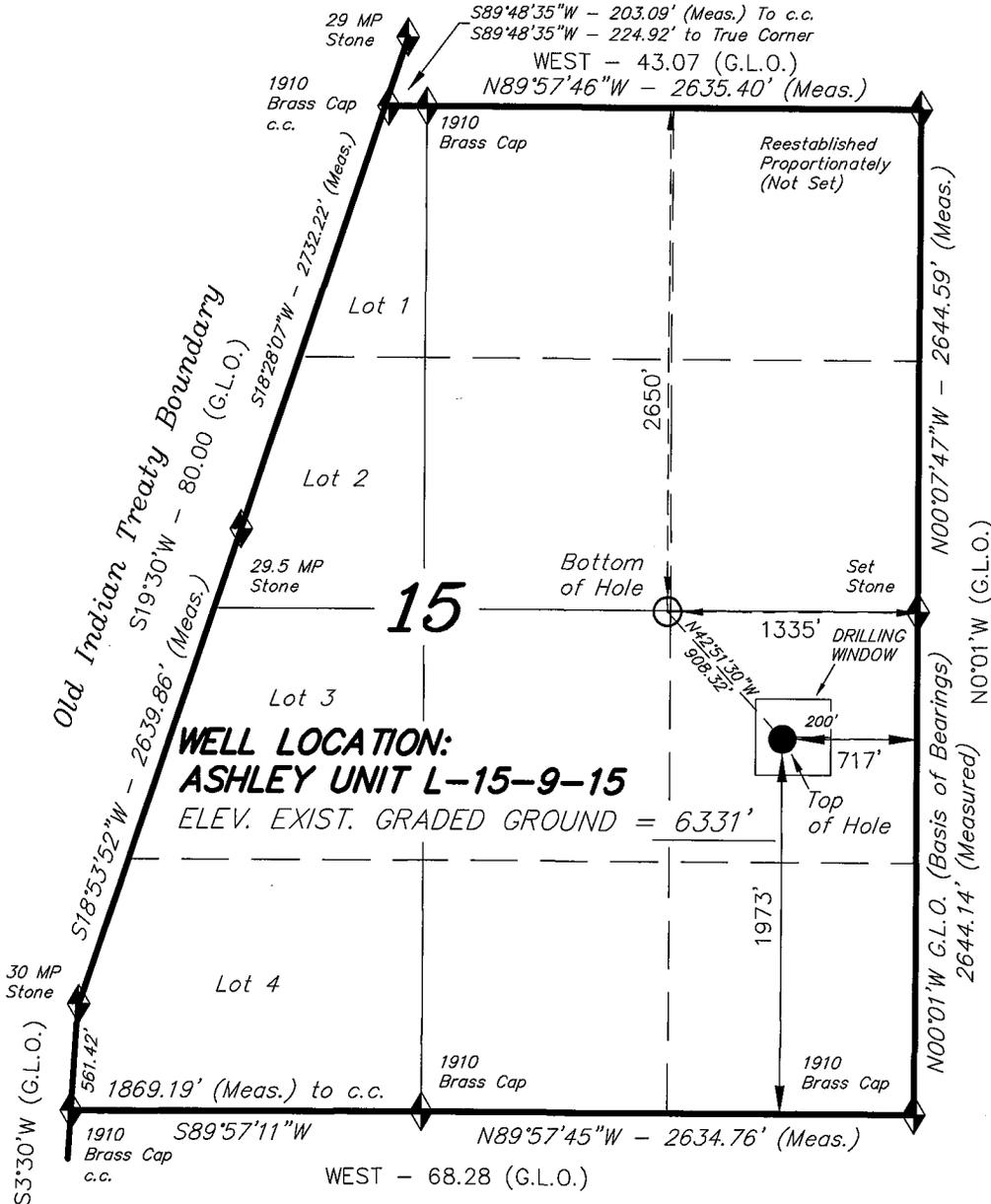
Federal Approval of this  
Action is Necessary

RECEIVED  
APR 21 2008  
DIV. OF OIL, GAS & MINING

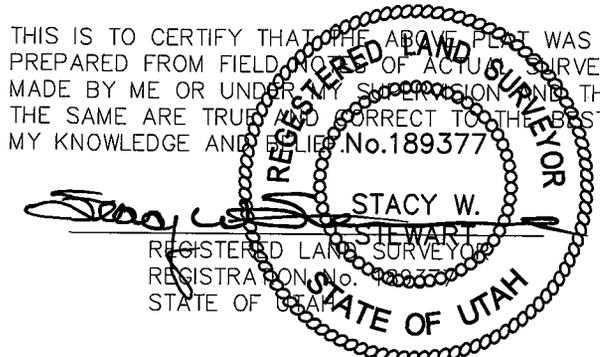
# T9S, R15E, S.L.B.&M.

## NEWFIELD PRODUCTION COMPANY

WELL LOCATION, ASHLEY UNIT L-15-9-15,  
 LOCATED AS SHOWN IN THE NE 1/4 SE 1/4  
 OF SECTION 15, T9S, R15E, S.L.B.&M.  
 DUCHESNE COUNTY, UTAH.



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



◆ = SECTION CORNERS LOCATED

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

**ASHLEY UNIT L-15-9-15**  
 (Surface Location) NAD 83  
 LATITUDE = 40° 01' 44.62"  
 LONGITUDE = 110° 12' 41.01"

<b>TRI STATE LAND SURVEYING &amp; CONSULTING</b>	
180 NORTH VERNAL AVE. - VERNAL, UTAH 84078 (435) 781-2501	
DATE SURVEYED: 02-01-08	SURVEYED BY: C.M.
DATE DRAWN: 02-08-08	DRAWN BY: F.T.M.
REVISED:	SCALE: 1" = 1000'

NEWFIELD PRODUCTION COMPANY  
ASHLEY FEDERAL L-15-9-15  
AT SURFACE: NE/SE SECTION 15, T9S, R15E  
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' – 2998'
Green River	2998'
Wasatch	6340'

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

Green River Formation 2998' – 6340' - 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  
AHSLEY FEDERAL L-15-9-15  
AT SURFACE: NE/SE SECTION 15, T9S, R15E  
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 Ashley Federal L-15-9-15 located in the NE 1/4 SE 1/4 Section 15, T9S, R15E, 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 southwesterly - 12.6 miles  $\pm$  to it's junction with an existing road to the southwest; proceed southwesterly - 1.3 miles  $\pm$  to it's junction with the beginning of the access road to the existing Ashley Federal 9-15-9-15 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 Ashley Federal 9-15-9-15 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 Ashley Federal 9-15-9-15 well pad. There will be a pumping unit and a short flow line added to the tank battery for the proposed Ashley Federal L-15-9-15. All permanent surface equipment will be painted Olive Black.

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 Ashley Federal L-15-9-15 will be drilled off of the existing Ashley Federal 9-15-9-15 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 310' of disturbed area be granted in Lease UTU-66184 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 310' of proposed water injection pipeline is attached. MOAC Report #01-163, 5/23/02. Paleontological Resource Survey prepared by, Wade E. Miller, 6/7/03. See attached report cover pages, **Exhibit "D"**.

**Water Disposal**

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

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

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

None for the proposed Ashley Federal L-15-9-15

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

**Details of the On-Site Inspection**

The proposed Ashley Federal L-15-9-15 was on-sited on 3/26/08. The following were present; Dave Allred (Newfield Production), Kevan Stevens (Newfield Production ), Michael Cutler (Bureau of Land Management), Brandon McDonald (Bureau of Land Management )and James Herford (Bureau of Land Management). Weather conditions were clear and ground cover was 100% open.

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

Representative

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

Certification

Please be advised that NEWFIELD PRODUCTION COMPANY is considered to be the operator of well #L-15-9-15 NE/SE Section 15, Township 9S, Range 15E: Lease UTU-66184 Duchesne County, Utah: and is responsible under the terms and conditions of the lease for the operations conducted upon the leased lands. Bond coverage is provided by, Federal Bond #WYB000493.

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

4/11/08  
Date

  
Mandie Crozier  
Regulatory Specialist  
Newfield Production Company

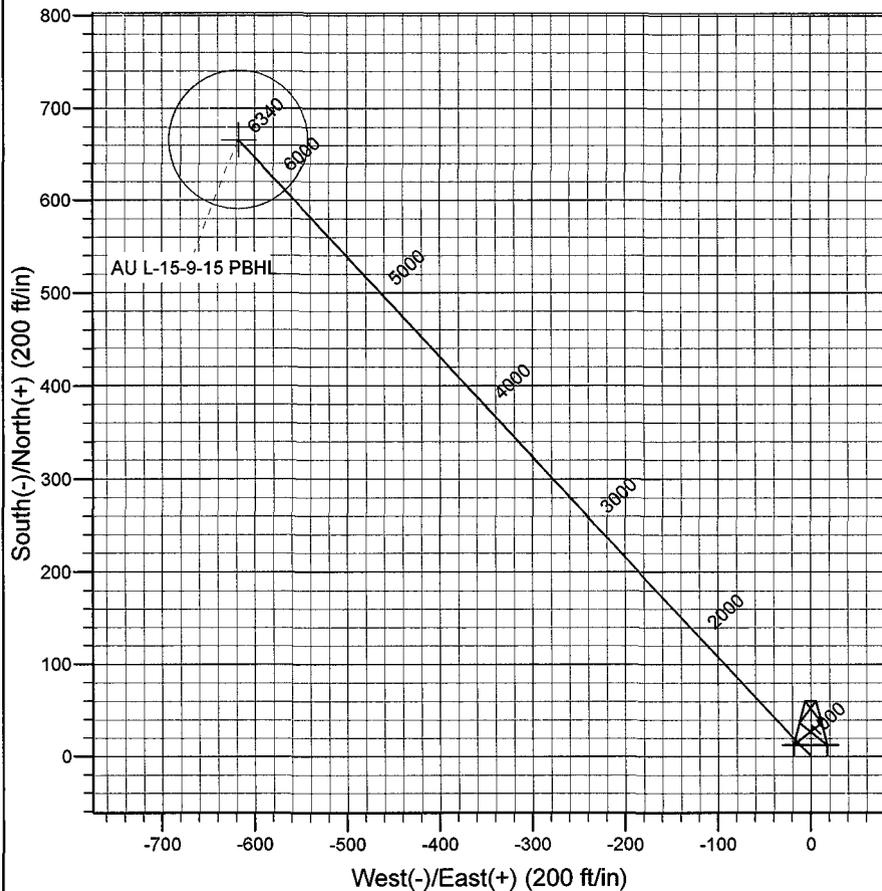
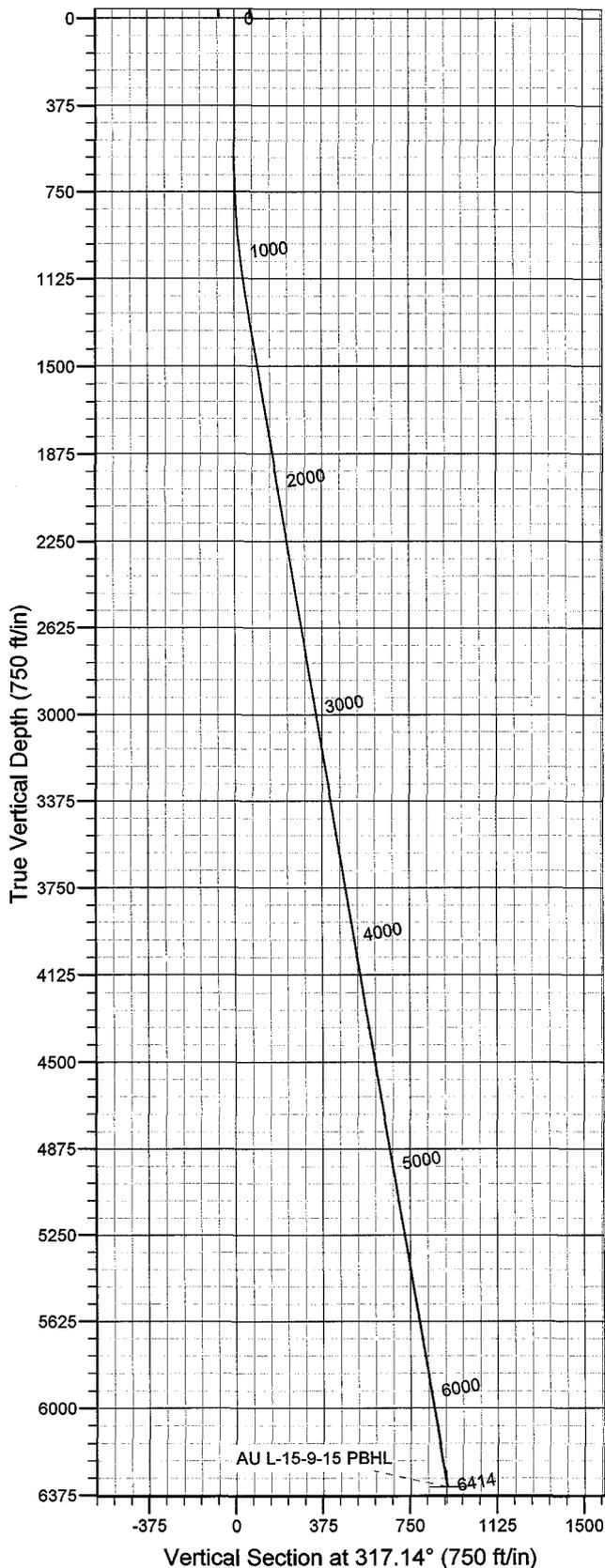


Azimuths to True North  
 Magnetic North: 11.77°

Magnetic Field  
 Strength: 52574.0snT  
 Dip Angle: 65.84°  
 Date: 2008-04-02  
 Model: IGRF2005-10

WELL DETAILS: Ashley Unit L-15-9-15

GL 6331' & RKB 12' @ 6343.00ft 6331.00  
 +N/-S 0.00 +E/-W 0.00 Northing 7181922.79 Easting 2001241.04 Latitude 40° 1' 44.620 N Longitude 110° 12' 41.010 W



Plan: Plan #1 (Ashley Unit L-15-9-15/OH)  
 Created By: Julie Cruse Date: 2008-04-02  
 PROJECT DETAILS: Duchesne County, UT NAD83 UTC  
 Geodetic System: US State Plane 1983  
 Datum: North American Datum 1983  
 Ellipsoid: GRS 1980  
 Zone: Utah Central Zone  
 Location:  
 System Datum: Mean Sea Level  
 Local North: True North

SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	DLeg	TFace	VSec	Target
1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2	600.00	0.00	0.00	600.00	0.00	0.00	0.00	0.00	0.00	
3	1233.98	9.51	317.14	1231.07	38.48	-35.71	1.50	317.14	52.49	
4	6414.09	9.51	317.14	6340.00	665.81	-617.85	0.00	0.00	908.32	AU L-15-9-15 PBHL

# **Newfield Exploration Co.**

**Duchesne County, UT NAD83 UTC**

**Ashley Unit**

**Ashley Unit L-15-9-15**

**OH**

**Plan: Plan #1**

## **Standard Planning Report**

**02 April, 2008**

# Scientific Drilling

## Planning Report

**Database:** EDM 2003.16 Multi-User Db  
**Company:** Newfield Exploration Co.  
**Project:** Duchesne County, UT NAD83 UTC  
**Site:** Ashley Unit  
**Well:** Ashley Unit L-15-9-15  
**Wellbore:** OH  
**Design:** Plan #1

**Local Co-ordinate Reference:** Well Ashley Unit L-15-9-15  
**TVD Reference:** GL 6331' & RKB 12' @ 6343.00ft  
**MD Reference:** GL 6331' & RKB 12' @ 6343.00ft  
**North Reference:** True  
**Survey Calculation Method:** Minimum Curvature

<b>Project</b>	Duchesne County, UT NAD83 UTC		
<b>Map System:</b>	US State Plane 1983	<b>System Datum:</b>	Mean Sea Level
<b>Geo Datum:</b>	North American Datum 1983		
<b>Map Zone:</b>	Utah Central Zone		

<b>Site</b>	Ashley Unit,				
<b>Site Position:</b>		<b>Northing:</b>	7,194,005.61 ft	<b>Latitude:</b>	40° 3' 42.510 N
<b>From:</b>	Lat/Long	<b>Easting:</b>	2,011,719.22 ft	<b>Longitude:</b>	110° 10' 24.010 W
<b>Position Uncertainty:</b>	0.00 ft	<b>Slot Radius:</b>	in	<b>Grid Convergence:</b>	0.85 °

<b>Well</b>	Ashley Unit L-15-9-15, 1973' FSL 717' FEL Sec 15 T9S R15E					
<b>Well Position</b>	<b>+N/-S</b>	0.00 ft	<b>Northing:</b>	7,181,922.79 ft	<b>Latitude:</b>	40° 1' 44.620 N
	<b>+E/-W</b>	0.00 ft	<b>Easting:</b>	2,001,241.04 ft	<b>Longitude:</b>	110° 12' 41.010 W
<b>Position Uncertainty</b>		0.00 ft	<b>Wellhead Elevation:</b>	ft	<b>Ground Level:</b>	6,331.00 ft

<b>Wellbore</b>	OH				
<b>Magnetics</b>	<b>Model Name</b>	<b>Sample Date</b>	<b>Declination</b>	<b>Dip Angle</b>	<b>Field Strength</b>
	IGRF2005-10	2008-04-02	(°) 11.77	(°) 65.84	(nT) 52,574

<b>Design</b>	Plan #1				
<b>Audit Notes:</b>					
<b>Version:</b>	<b>Phase:</b>	PLAN	<b>Tie On Depth:</b>	0.00	
<b>Vertical Section:</b>	<b>Depth From (TVD)</b>	<b>+N/-S</b>	<b>+E/-W</b>	<b>Direction</b>	
	(ft)	(ft)	(ft)	(°)	
	0.00	0.00	0.00	317.14	

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	
1,233.98	9.51	317.14	1,231.07	38.48	-35.71	1.50	1.50	0.00	317.14	
6,414.09	9.51	317.14	6,340.00	665.81	-617.85	0.00	0.00	0.00	0.00	AU L-15-9-15 PBHL

# Scientific Drilling

## Planning Report

**Database:** EDM 2003.16 Multi-User Db  
**Company:** Newfield Exploration Co.  
**Project:** Duchesne County, UT NAD83 UTC  
**Site:** Ashley Unit  
**Well:** Ashley Unit L-15-9-15  
**Wellbore:** OH  
**Design:** Plan #1

**Local Co-ordinate Reference:** Well Ashley Unit L-15-9-15  
**TVD Reference:** GL 6331' & RKB 12' @ 6343.00ft  
**MD Reference:** GL 6331' & RKB 12' @ 6343.00ft  
**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	317.14	699.99	0.96	-0.89	1.31	1.50	1.50	0.00
800.00	3.00	317.14	799.91	3.84	-3.56	5.23	1.50	1.50	0.00
900.00	4.50	317.14	899.69	8.63	-8.01	11.77	1.50	1.50	0.00
1,000.00	6.00	317.14	999.27	15.34	-14.23	20.92	1.50	1.50	0.00
1,100.00	7.50	317.14	1,098.57	23.95	-22.23	32.68	1.50	1.50	0.00
1,200.00	9.00	317.14	1,197.54	34.47	-31.99	47.03	1.50	1.50	0.00
1,233.98	9.51	317.14	1,231.07	38.48	-35.71	52.49	1.50	1.50	0.00
1,300.00	9.51	317.14	1,296.19	46.47	-43.12	63.40	0.00	0.00	0.00
1,400.00	9.51	317.14	1,394.81	58.58	-54.36	79.92	0.00	0.00	0.00
1,500.00	9.51	317.14	1,493.44	70.69	-65.60	96.44	0.00	0.00	0.00
1,600.00	9.51	317.14	1,592.06	82.80	-76.84	112.96	0.00	0.00	0.00
1,700.00	9.51	317.14	1,690.69	94.91	-88.08	129.49	0.00	0.00	0.00
1,800.00	9.51	317.14	1,789.31	107.03	-99.31	146.01	0.00	0.00	0.00
1,900.00	9.51	317.14	1,887.94	119.14	-110.55	162.53	0.00	0.00	0.00
2,000.00	9.51	317.14	1,986.57	131.25	-121.79	179.05	0.00	0.00	0.00
2,100.00	9.51	317.14	2,085.19	143.36	-133.03	195.57	0.00	0.00	0.00
2,200.00	9.51	317.14	2,183.82	155.47	-144.27	212.09	0.00	0.00	0.00
2,300.00	9.51	317.14	2,282.44	167.58	-155.51	228.61	0.00	0.00	0.00
2,400.00	9.51	317.14	2,381.07	179.69	-166.74	245.13	0.00	0.00	0.00
2,500.00	9.51	317.14	2,479.70	191.80	-177.98	261.66	0.00	0.00	0.00
2,600.00	9.51	317.14	2,578.32	203.91	-189.22	278.18	0.00	0.00	0.00
2,700.00	9.51	317.14	2,676.95	216.02	-200.46	294.70	0.00	0.00	0.00
2,800.00	9.51	317.14	2,775.57	228.13	-211.70	311.22	0.00	0.00	0.00
2,900.00	9.51	317.14	2,874.20	240.24	-222.93	327.74	0.00	0.00	0.00
3,000.00	9.51	317.14	2,972.82	252.35	-234.17	344.26	0.00	0.00	0.00
3,100.00	9.51	317.14	3,071.45	264.46	-245.41	360.78	0.00	0.00	0.00
3,200.00	9.51	317.14	3,170.08	276.57	-256.65	377.31	0.00	0.00	0.00
3,300.00	9.51	317.14	3,268.70	288.68	-267.89	393.83	0.00	0.00	0.00
3,400.00	9.51	317.14	3,367.33	300.79	-279.12	410.35	0.00	0.00	0.00
3,500.00	9.51	317.14	3,465.95	312.90	-290.36	426.87	0.00	0.00	0.00
3,600.00	9.51	317.14	3,564.58	325.01	-301.60	443.39	0.00	0.00	0.00
3,700.00	9.51	317.14	3,663.20	337.12	-312.84	459.91	0.00	0.00	0.00
3,800.00	9.51	317.14	3,761.83	349.24	-324.08	476.43	0.00	0.00	0.00
3,900.00	9.51	317.14	3,860.46	361.35	-335.31	492.96	0.00	0.00	0.00
4,000.00	9.51	317.14	3,959.08	373.46	-346.55	509.48	0.00	0.00	0.00
4,100.00	9.51	317.14	4,057.71	385.57	-357.79	526.00	0.00	0.00	0.00
4,200.00	9.51	317.14	4,156.33	397.68	-369.03	542.52	0.00	0.00	0.00
4,300.00	9.51	317.14	4,254.96	409.79	-380.27	559.04	0.00	0.00	0.00
4,400.00	9.51	317.14	4,353.58	421.90	-391.50	575.56	0.00	0.00	0.00
4,500.00	9.51	317.14	4,452.21	434.01	-402.74	592.08	0.00	0.00	0.00
4,600.00	9.51	317.14	4,550.84	446.12	-413.98	608.61	0.00	0.00	0.00
4,700.00	9.51	317.14	4,649.46	458.23	-425.22	625.13	0.00	0.00	0.00
4,800.00	9.51	317.14	4,748.09	470.34	-436.46	641.65	0.00	0.00	0.00
4,900.00	9.51	317.14	4,846.71	482.45	-447.69	658.17	0.00	0.00	0.00
5,000.00	9.51	317.14	4,945.34	494.56	-458.93	674.69	0.00	0.00	0.00
5,100.00	9.51	317.14	5,043.97	506.67	-470.17	691.21	0.00	0.00	0.00
5,200.00	9.51	317.14	5,142.59	518.78	-481.41	707.73	0.00	0.00	0.00

# Scientific Drilling

## Planning Report

**Database:** EDM 2003.16 Multi-User Db  
**Company:** Newfield Exploration Co.  
**Project:** Duchesne County, UT NAD83 UTC  
**Site:** Ashley Unit  
**Well:** Ashley Unit L-15-9-15  
**Wellbore:** OH  
**Design:** Plan #1

**Local Co-ordinate Reference:** Well Ashley Unit L-15-9-15  
**TVD Reference:** GL 6331' & RKB 12' @ 6343.00ft  
**MD Reference:** GL 6331' & RKB 12' @ 6343.00ft  
**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	9.51	317.14	5,241.22	530.89	-492.65	724.26	0.00	0.00	0.00
5,400.00	9.51	317.14	5,339.84	543.00	-503.88	740.78	0.00	0.00	0.00
5,500.00	9.51	317.14	5,438.47	555.11	-515.12	757.30	0.00	0.00	0.00
5,600.00	9.51	317.14	5,537.09	567.22	-526.36	773.82	0.00	0.00	0.00
5,700.00	9.51	317.14	5,635.72	579.33	-537.60	790.34	0.00	0.00	0.00
5,800.00	9.51	317.14	5,734.35	591.45	-548.84	806.86	0.00	0.00	0.00
5,900.00	9.51	317.14	5,832.97	603.56	-560.07	823.38	0.00	0.00	0.00
6,000.00	9.51	317.14	5,931.60	615.67	-571.31	839.91	0.00	0.00	0.00
6,100.00	9.51	317.14	6,030.22	627.78	-582.55	856.43	0.00	0.00	0.00
6,200.00	9.51	317.14	6,128.85	639.89	-593.79	872.95	0.00	0.00	0.00
6,300.00	9.51	317.14	6,227.47	652.00	-605.03	889.47	0.00	0.00	0.00
6,400.00	9.51	317.14	6,326.10	664.11	-616.26	905.99	0.00	0.00	0.00
6,414.09	9.51	317.14	6,340.00	665.81	-617.85	908.32	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
AU L-15-9-15 PBHL - plan hits target center - Circle (radius 75.00)	0.00	0.00	6,340.00	665.81	-617.85	7,182,579.64	2,000,613.66	40° 1' 51.200 N	110° 12' 48.953 W

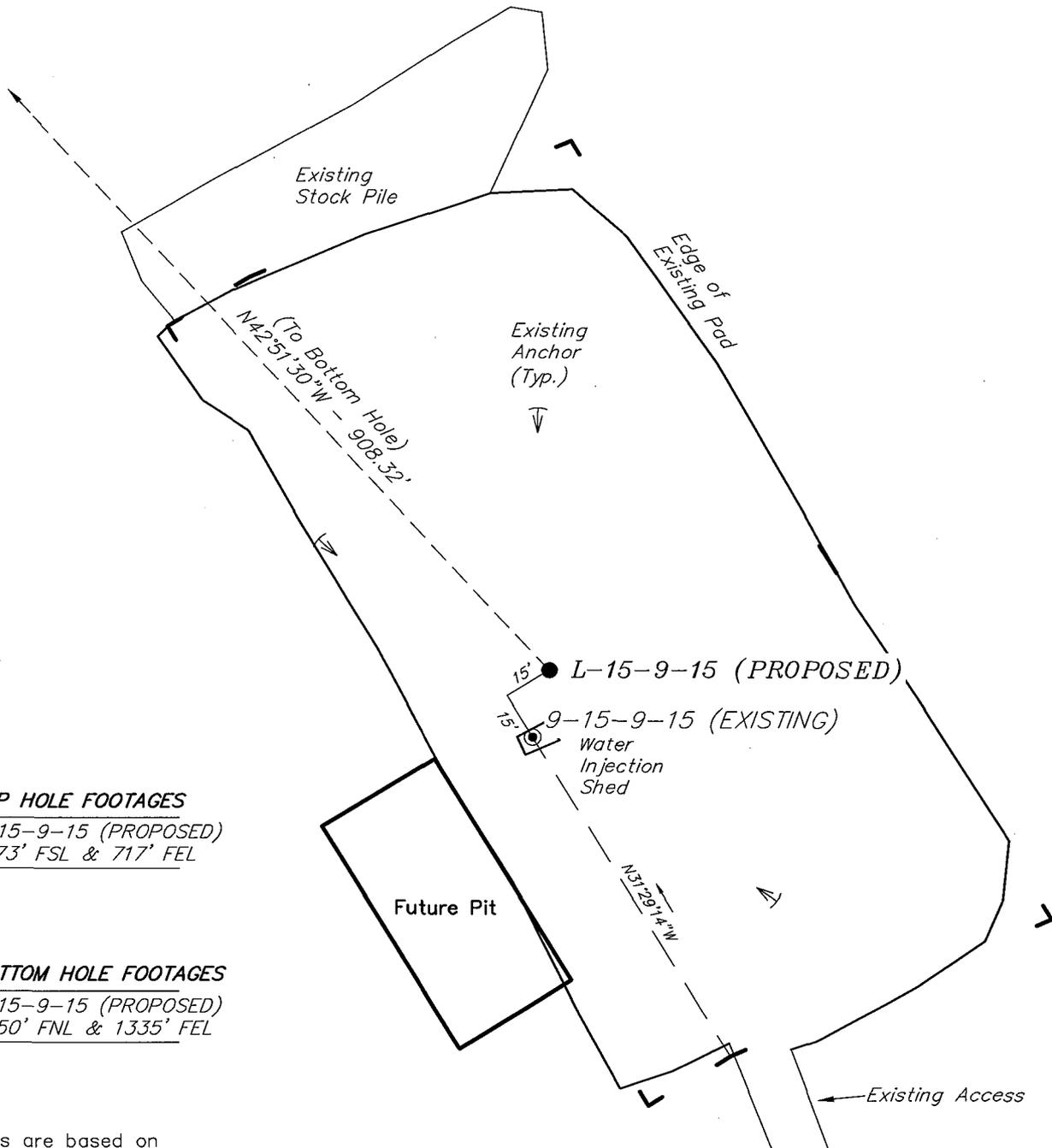
# NEWFIELD PRODUCTION COMPANY

## WELL PAD INTERFERENCE PLAT

ASHLEY UNIT L-15-9-15 (Proposed Well)

ASHLEY UNIT 9-15-9-15 (Existing Well)

Pad Location: NESE Section 15, T9S, R15E, S.L.B.&M.



**TOP HOLE FOOTAGES**

L-15-9-15 (PROPOSED)  
1973' FSL & 717' FEL

**BOTTOM HOLE FOOTAGES**

L-15-9-15 (PROPOSED)  
2650' FNL & 1335' FEL

**Note:**

Bearings are based on GLO Information.

RELATIVE COORDINATES From top hole to bottom hole		
WELL	NORTH	EAST
L-15-9-15	666'	-618'

LATITUDE & LONGITUDE Surface position of Wells (NAD 83)		
WELL	LATITUDE	LONGITUDE
L-15-9-15	40° 01' 44.62"	110° 12' 41.01"
9-15-9-15	40° 01' 44.42"	110° 12' 41.07"

SURVEYED BY: C.M.	DATE SURVEYED: 02-01-08
DRAWN BY: L.C.S.	DATE DRAWN: 02-08-08
SCALE: 1" = 50'	REVISED:

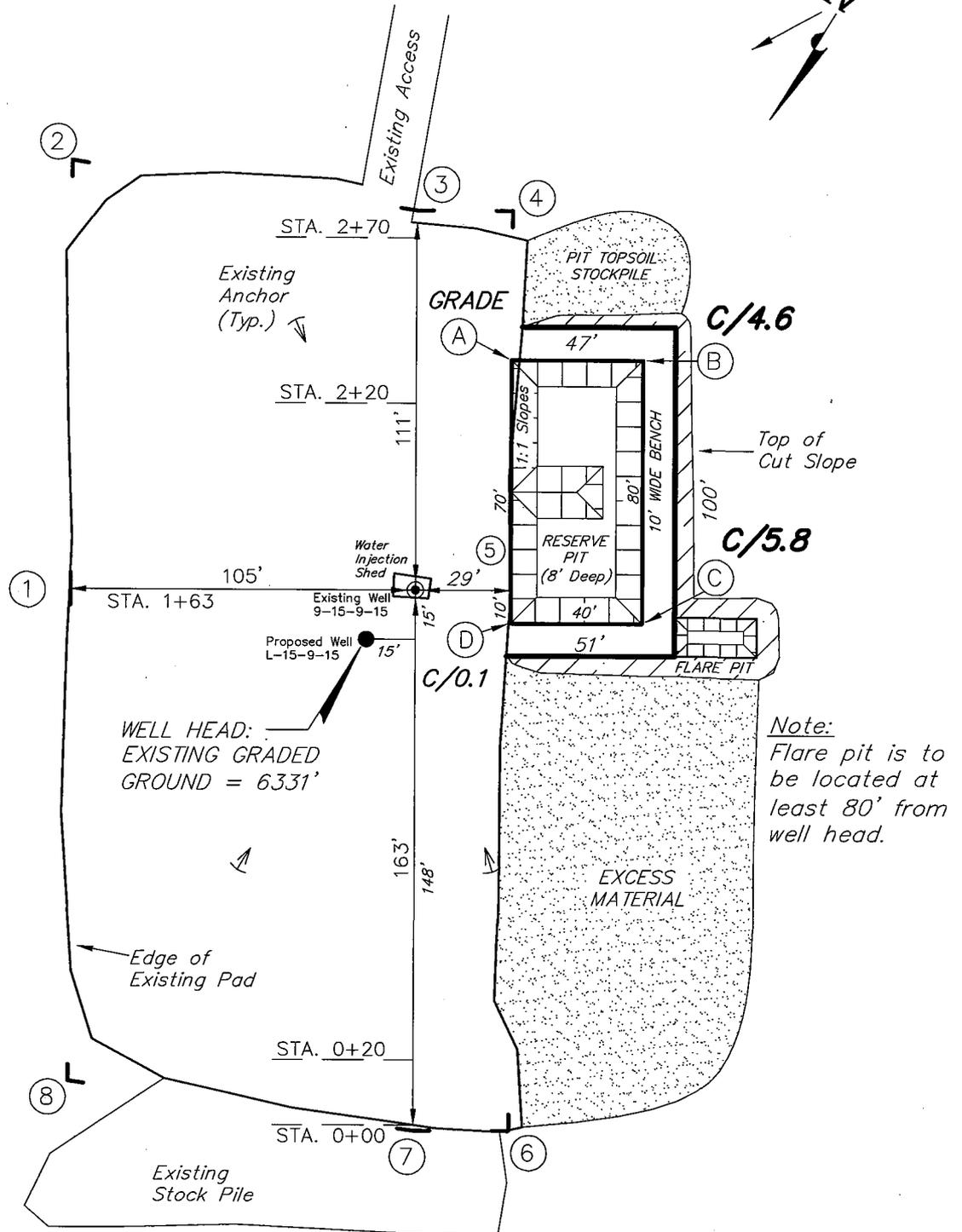
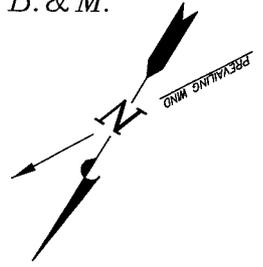
**Tri State** (435) 781-2501  
 Land Surveying, Inc.  
 180 NORTH VERNAL AVE. VERNAL, UTAH 84078

# NEWFIELD PRODUCTION COMPANY

ASHLEY UNIT L-15-9-15 (Proposed Well)

ASHLEY UNIT 9-15-9-15 (Existing Well)

Pad Location: NESE Section 15, T9S, R15E, S.L.B.&M.



SURVEYED BY: C.M.	DATE SURVEYED: 02-01-08
DRAWN BY: F.T.M.	DATE DRAWN: 02-14-08
SCALE: 1" = 50'	REVISED:

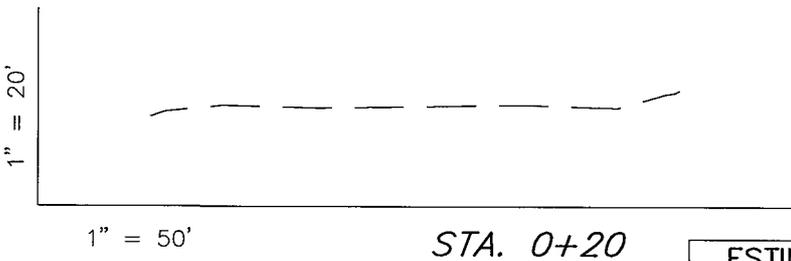
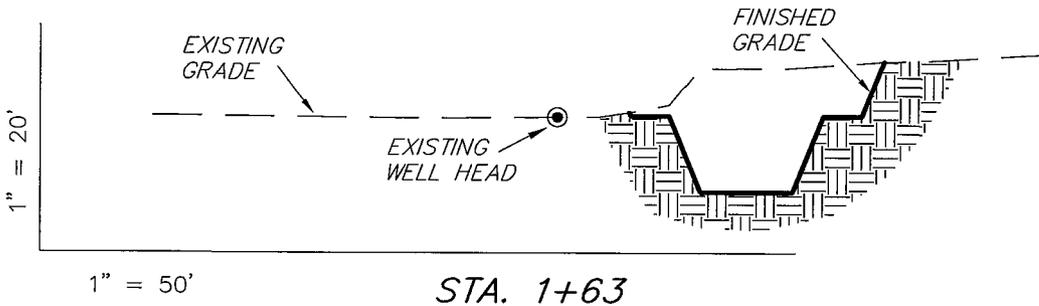
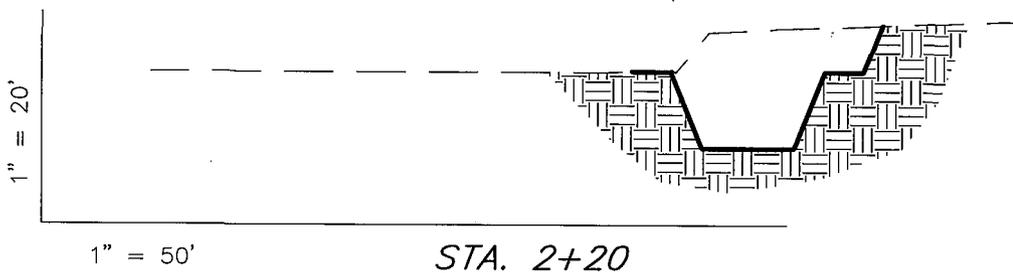
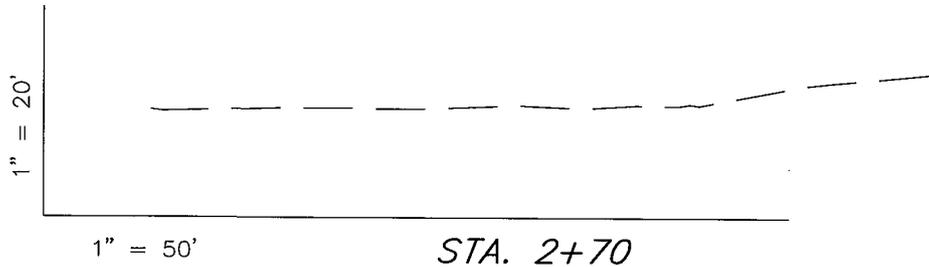
**Tri State** (435) 781-2501  
 Land Surveying, Inc.  
 180 NORTH VERNAL AVE. VERNAL, UTAH 84078

# NEWFIELD PRODUCTION COMPANY

## CROSS SECTIONS

ASHLEY UNIT L-15-9-15 (Proposed Well)

ASHLEY UNIT 9-15-9-15 (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	1,020	0	Topsoil is not included in Pad Cut	1,020
PIT	640	0		640
TOTALS	1,660	0	140	1,660

SURVEYED BY: C.M.	DATE SURVEYED: 02-01-08
DRAWN BY: F.T.M.	DATE DRAWN: 02-14-08
SCALE: 1" = 50'	REVISED:

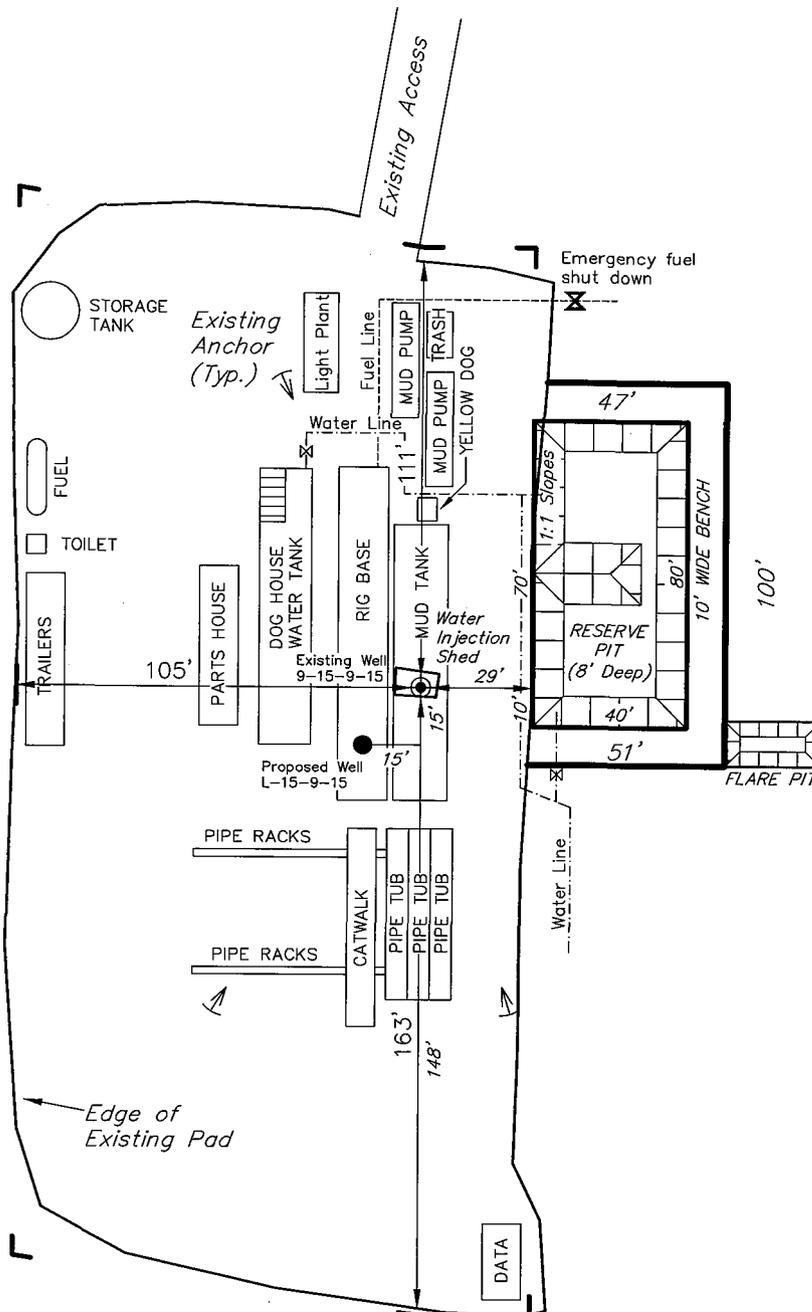
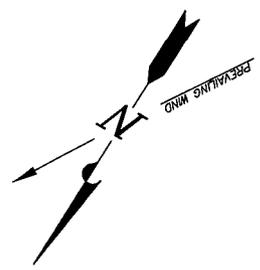
**Tri State** (435) 781-2501  
Land Surveying, Inc.  
180 NORTH VERNAL AVE. VERNAL, UTAH 84078

# NEWFIELD PRODUCTION COMPANY

## TYPICAL RIG LAYOUT

ASHLEY UNIT L-15-9-15 (Proposed Well)

ASHLEY UNIT 9-15-9-15 (Existing Well)



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

SURVEYED BY: C.M.	DATE SURVEYED: 02-01-08
DRAWN BY: F.T.M.	DATE DRAWN: 02-14-08
SCALE: 1" = 50'	REVISED:

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

# Newfield Production Company Proposed Site Facility Diagram

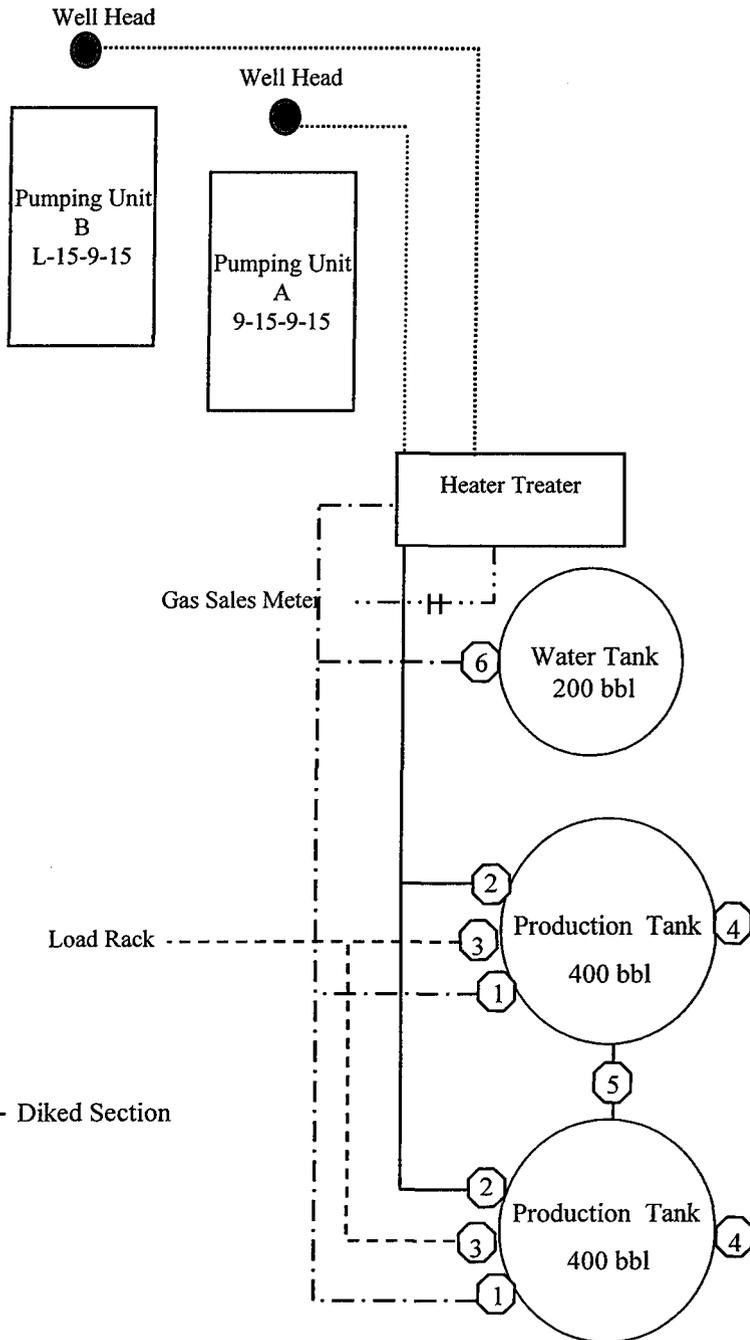
Ashley Federal L-15-9-15

From the 9-15-9-15 Location

NE/SE Sec. 15 T9S, R15E

Duchesne County, Utah

UTU-66184



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:

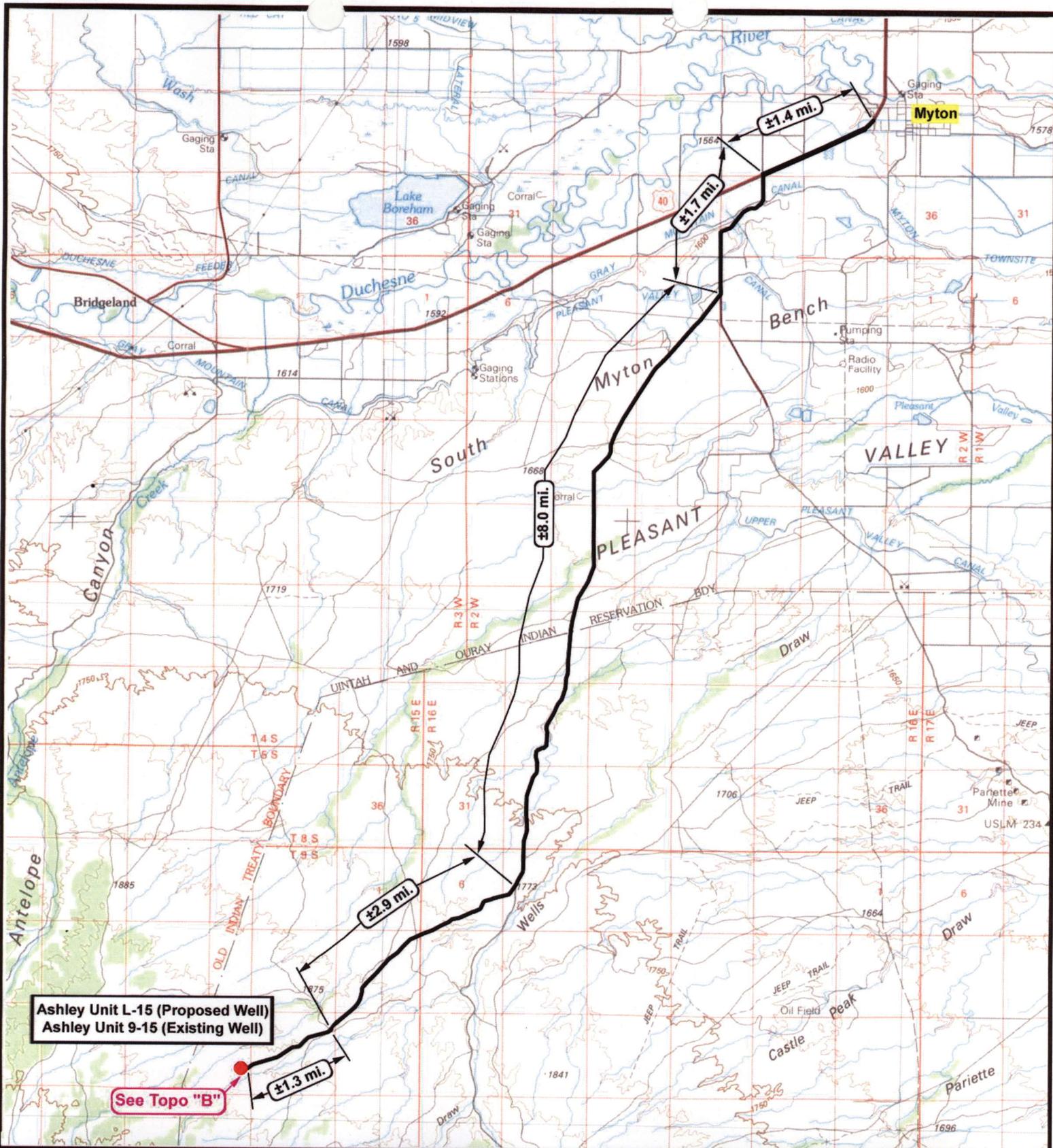
- 1) Valves 1, 2, 4, 5, and 6 sealed closed
- 2) Valve 3 open

### Draining Phase:

- 1) Valves 1 and 6 open

### Legend

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



**Ashley Unit L-15 (Proposed Well)**  
**Ashley Unit 9-15 (Existing Well)**

See Topo "B"

**NEWFIELD**  
 Exploration Company

**Ashley Unit L-15-9-15 (Proposed Location)**  
**Ashley Unit 9-15-9-15 (Existing Location)**  
 Pad Location NESE SEC. 15, T9S, R15E, S.L.B.&M.



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

SCALE: 1 = 100,000  
 DRAWN BY: mw  
 DATE: 02-07-2008

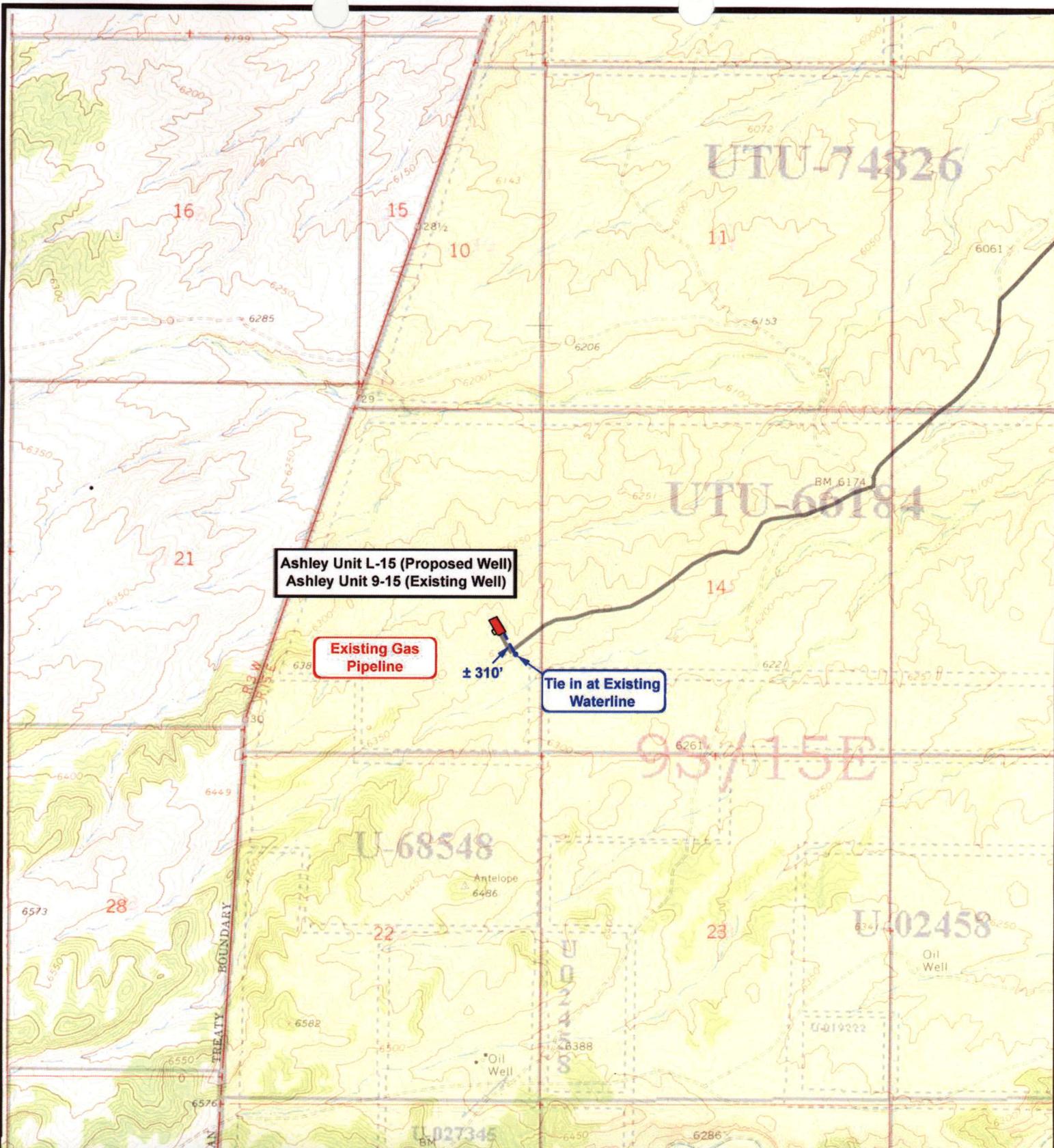
**Legend**

Existing Road

TOPOGRAPHIC MAP

**"A"**





**Ashley Unit L-15-9-15 (Proposed Location)**  
**Ashley Unit 9-15-9-15 (Existing Location)**  
 Pad Location NESE SEC. 15, T9S, R15E, S.L.B.&M.



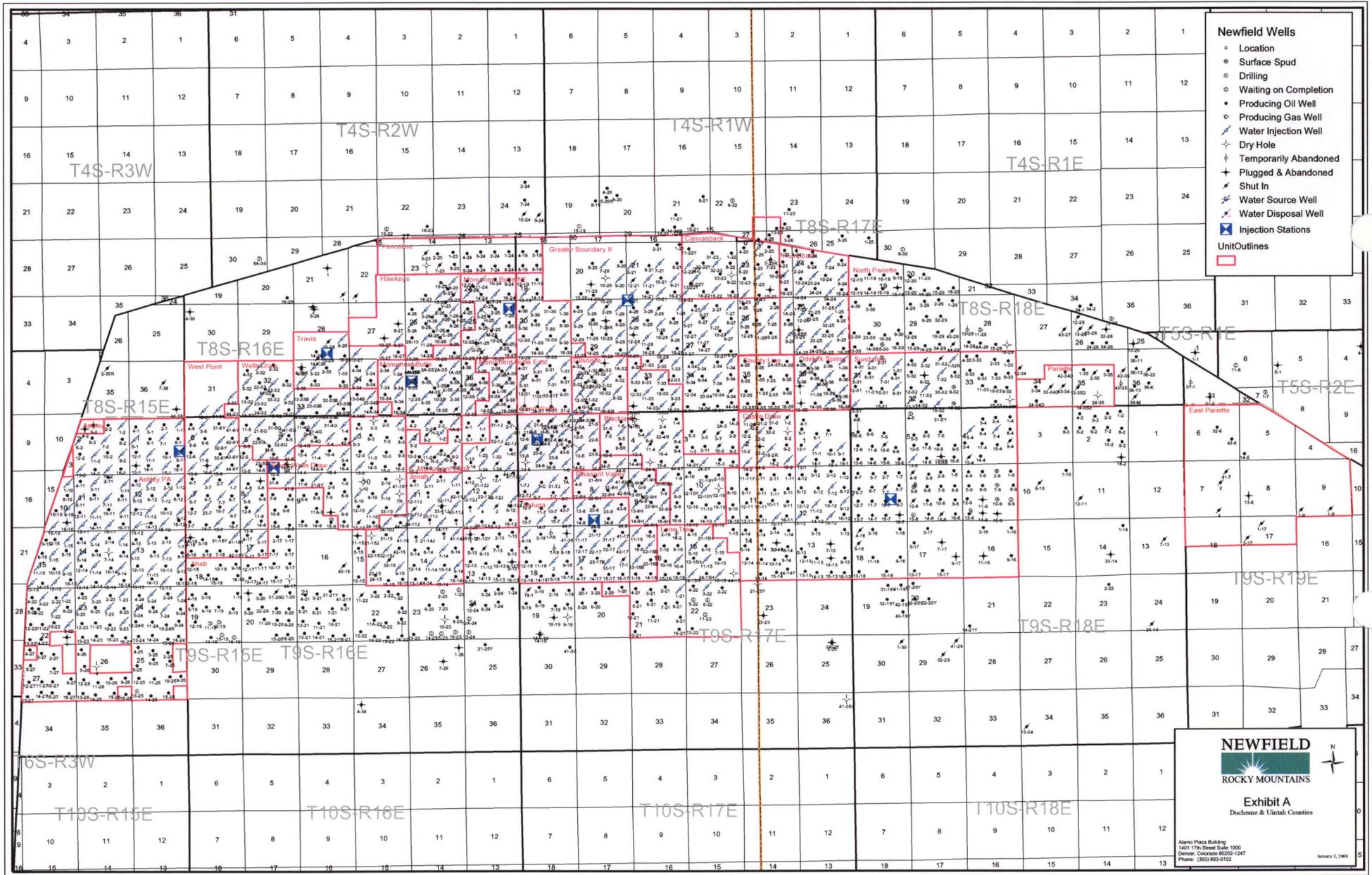
*Tri-State*  
 Land Surveying Inc.  
 (435) 781-2501  
 180 North Vernal Ave. Vernal, Utah 84078

SCALE: 1" = 2,000'  
 DRAWN BY: mw  
 DATE: 02-07-2008

**Legend**

- Roads
- Proposed Water Line

TOPOGRAPHIC MAP  
**"C"**



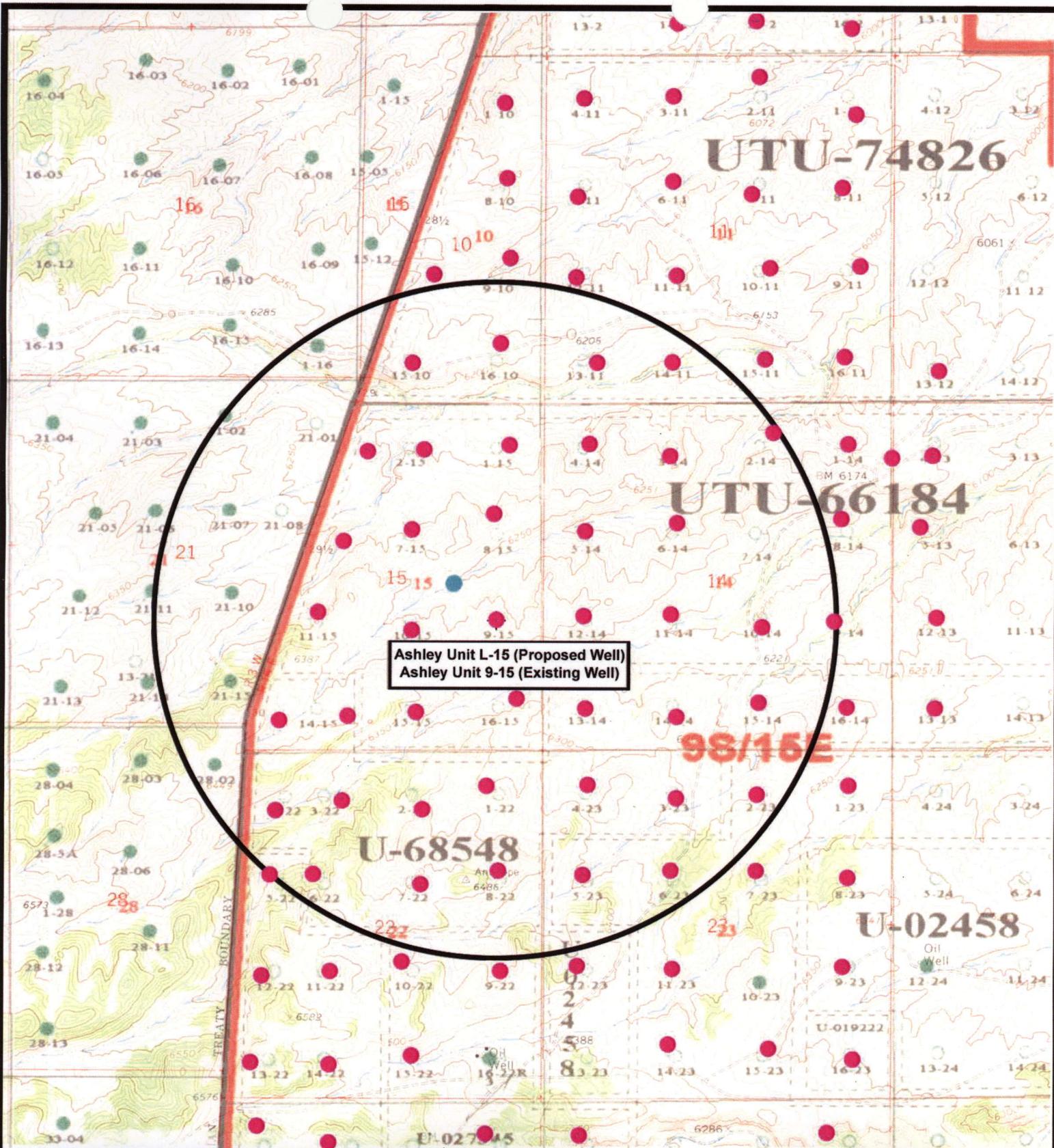
- Newfield Wells**
- Location
  - Surface Spud
  - Drilling
  - Waiting on Completion
  - Producing Oil Well
  - Producing Gas Well
  - Water Injection Well
  - Dry Hole
  - Temporarily Abandoned
  - Plugged & Abandoned
  - Shut In
  - Water Source Well
  - Water Disposal Well
  - Injection Stations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

**NEWFIELD**  
 ROCKY MOUNTAINS

Exhibit A  
 Duchesne & Uintah Counties

Alamo Plaza Building  
 1401 17th Street Suite 1000  
 Denver, Colorado 80202-1247  
 Phone: (303) 853-0102

January 9, 2008



Ashley Unit L-15 (Proposed Well)  
 Ashley Unit 9-15 (Existing Well)



**NEWFIELD**  
 Exploration Company

**Ashley Unit L-15-9-15 (Proposed Location)**  
**Ashley Unit 9-15-9-15 (Existing Location)**  
 Pad Location NESE SEC. 15, T9S, R15E, S.L.B.&M.



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

SCALE: 1" = 2,000'  
 DRAWN BY: mw  
 DATE: 02-07-2008

**Legend**

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

**Exhibit "B"**

# 2-M SYSTEM

Blowout Prevention Equipment Systems

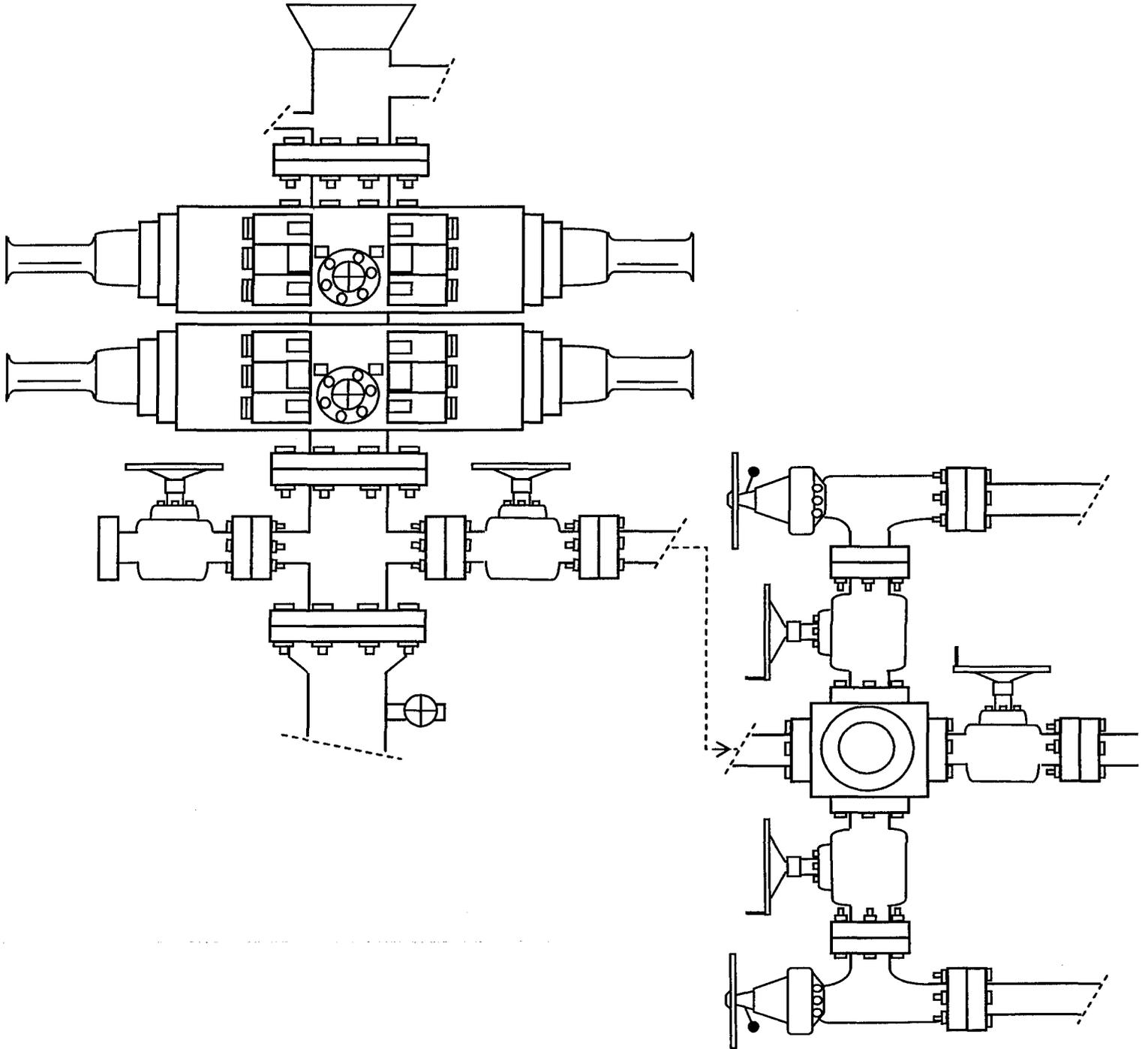


EXHIBIT C

Exhibit "D"  
1 of 2

**CULTURAL RESOURCE INVENTORY OF  
INLAND RESOURCES' 1750 ACRE ASHLEY UNIT, IN  
TOWNSHIP 9S, RANGE 15E, SECTIONS 13, 14, AND 15,  
DUCHESNE COUNTY, UTAH**

**Anne Raney  
and  
Keith Montgomery**

**Prepared For:**

**Bureau of Land Management  
Vernal Field Office  
Vernal, Utah**

**Prepared Under Contract With:**

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

**Prepared By:**

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

**MOAC Report No. 01-163**

**May 23, 2002**

**United States Department of Interior (FLPMA)  
Permit No. 02-UT-60122**

**State of Utah Antiquities Project (Survey)  
Permit No. U-02-MQ-0235b**

**INLAND RESOURCES, INC.**

**PALEONTOLOGICAL FIELD SURVEY OF PROPOSED  
PRODUCTION DEVELOPMENT AREAS,  
DUCHESNE COUNTY, UTAH**

(South half Section 13, south half Section 14, south half Section 15,  
entire Sections 22, 23, 24, T 9 S, R 15 E; Section 5 minus SW &  
SE 1/4, SE 1/4, and existing well site at NW 1/4, NE 1/4, T 9 S, R 18 E)

**REPORT OF SURVEY**

Prepared for:

**Inland Resources, Inc.**

Prepared by:

Wade E. Miller  
Consulting Paleontologist  
June 7, 2003

**WORKSHEET  
APPLICATION FOR PERMIT TO DRILL**

APD RECEIVED: 04/21/2008

API NO. ASSIGNED: 43-013-33962

WELL NAME: ASHLEY FED L-15-9-15  
 OPERATOR: NEWFIELD PRODUCTION ( N2695 )  
 CONTACT: MANDIE CROZIER

PHONE NUMBER: 435-646-3721

PROPOSED LOCATION:

NESE 15 090S 150E  
 SURFACE: 1973 FSL 0717 FEL  
 BOTTOM: 2650 FNL 1335 FEL  
 COUNTY: DUCHESNE  
 LATITUDE: 40.02912 LONGITUDE: -110.2107  
 UTM SURF EASTINGS: 567351 NORTHINGS: 4431078  
 FIELD NAME: MONUMENT BUTTE ( 105 )

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

LEASE TYPE: 1 - Federal  
 LEASE NUMBER: UTU-66184  
 SURFACE OWNER: 1 - Federal

PROPOSED FORMATION: GRRV  
 COALBED METHANE WELL? NO

RECEIVED AND/OR REVIEWED:

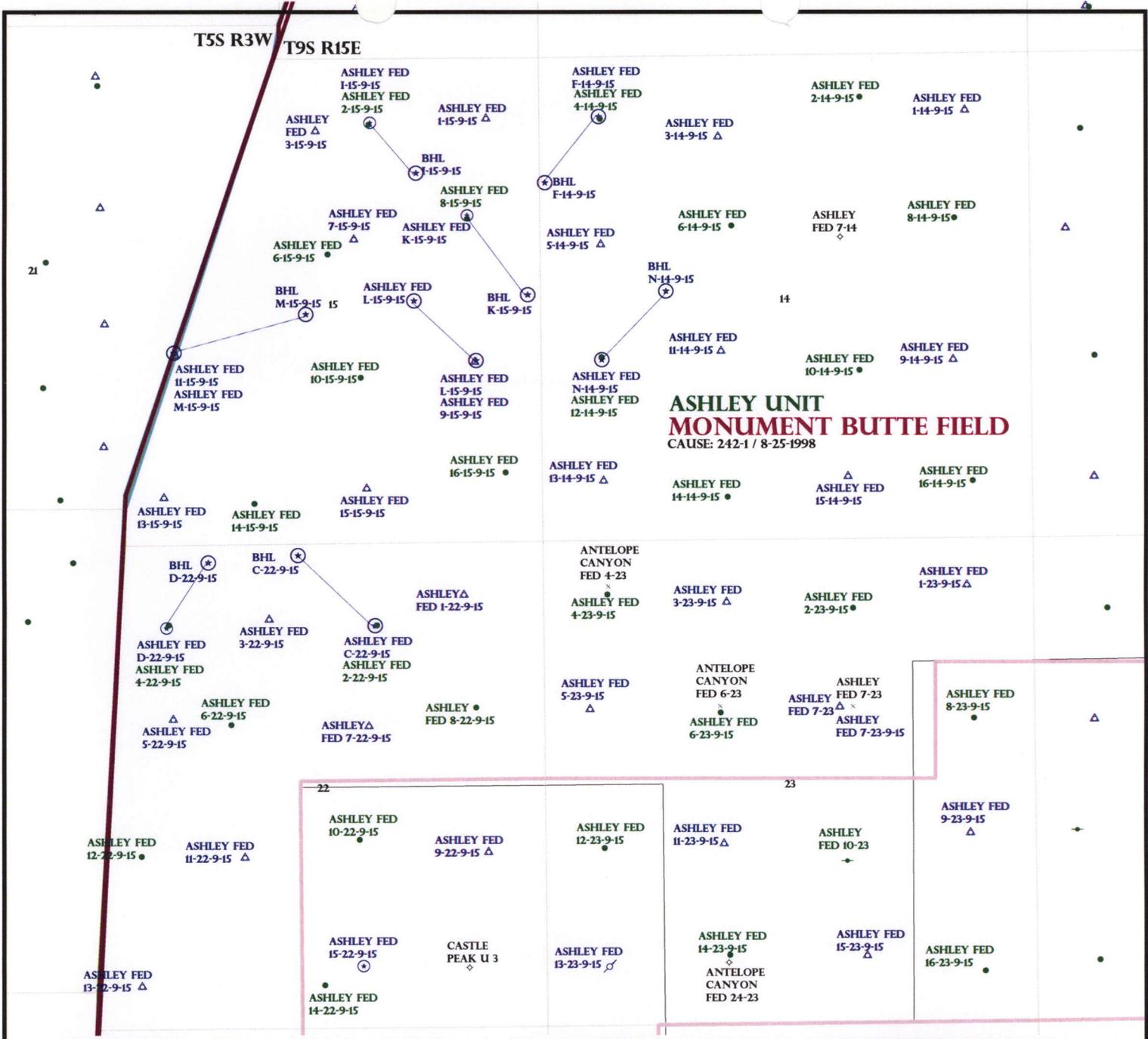
- Plat
- Bond: Fed[1] Ind[] Sta[] Fee[]  
(No. WYB000493 )
- Potash (Y/N)
- Oil Shale 190-5 (B) or 190-3 or 190-13
- Water Permit  
(No. 43-10136 )
- RDCC Review (Y/N)  
(Date: \_\_\_\_\_ )
- Fee Surf Agreement (Y/N)
- Intent to Commingle (Y/N)

LOCATION AND SITING:

- R649-2-3.
- Unit: ASHLEY
- R649-3-2. General  
Siting: 460 From Qtr/Qtr & 920' Between Wells
- R649-3-3. Exception
- Drilling Unit  
Board Cause No: 242-1  
Eff Date: 8-25-1998  
Siting: Subsands General Siting
- R649-3-11. Directional Drill

COMMENTS: Sup. Separate file

STIPULATIONS: 1 - Federal Approval



**ASHLEY UNIT  
MONUMENT BUTTE FIELD**  
CAUSE: 242-1 / 8-25-1998

OPERATOR: NEWFIELD PROD CO (N2695)  
 SEC: 14,15,22 T.9S R. 15E  
 FIELD: MONUMENT BUTTE (105)  
 COUNTY: DUCHESNE  
 CAUSE: 242-1 / 8-25-1998

**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



PREPARED BY: DIANA MASON  
 DATE: 23-APRIL-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)

April 23, 2008

Memorandum

To: Assistant District Manager Minerals, Vernal District  
From: Michael Coulthard, Petroleum Engineer  
Subject: 2008 Plan of Development Ashley 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 Ashley Unit, Duchesne County, Utah.

API#	WELL NAME	LOCATION
(Proposed PZ Green River)		
43-013-33959	Ashley Fed F-14-9-15	Sec 14 T09S R15E 0646 FNL 0656 FWL BHL Sec 14 T09S R15E 1360 FNL 0065 FWL
43-013-33960	Ashley Fed N-14-9-15	Sec 14 T09S R15E 1986 FSL 0656 FWL BHL Sec 14 T09S R15E 2560 FNL 1360 FWL
43-013-33961	Ashley Fed M-15-9-15	Sec 15 T09S R15E 2107 FSL 0552 FWL BHL Sec 15 T09S R15E 2474 FSL 2545 FEL
43-013-33962	Ashley Fed L-15-9-15	Sec 15 T09S R15E 1973 FSL 0717 FEL BHL Sec 15 T09S R15E 2650 FNL 1335 FEL
43-013-33963	Ashley Fed C-22-9-15	Sec 22 T09S R15E 0919 FNL 1801 FEL BHL Sec 22 T09S R15E 0155 FNL 2630 FEL

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

/s/ Michael L. Coulthard



April 24, 2008

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

RE: Directional Drilling  
**Ashley Federal L-15-9-15**  
Ashley Unit  
UTU-73520X  
Surface Hole: T9S R15E, Section 15: NESE  
1973' FSL 717' FEL  
Bottom Hole: T9S R15E, Section 15  
2650' FNL 1335' FEL  
Duchesne County, Utah

Dear Ms. Mason;

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

The surface hole location and bottom hole location of this well are both within the boundaries of the Ashley Federal Unit UTU-73520X. Newfield certifies that it is the Ashley Unit Operator and all lands within 460 feet of the entire directional well bore are within the Ashley 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  
APR 28 2008  
DIV. OF OIL, GAS & MINING

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL OR REENTER

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

5. Lease Serial No.  
UTU-66184

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

7. If Unit or CA Agreement, Name and No.  
Ashley PA AB

8. Lease Name and Well No.  
Ashley Federal L-15-9-15

9. API Well No.

10. Field and Pool, or Exploratory  
Monument Butte

11. Sec., T., R., M., or Blk. and Survey or Area  
Sec. 15, T9S R15E

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 NE/SE 1973' FSL 717' FEL  
At proposed prod. zone 2650' FNL 1335' FEL

14. Distance in miles and direction from nearest town or post office\*  
Approximatley 15.4 miles southwest of Myton, Utah

15. Distance from proposed\* location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any) Approx. 2625' f/lse, 2625' f/unit

16. No. of Acres in lease  
1,360.57

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. 1275'

19. Proposed Depth  
6340'

20. BLM/BIA Bond No. on file  
WYB000493

21. Elevations (Show whether DF, KDB, RT, GL, etc.)  
6331' GL

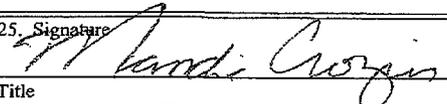
22. Approximate date work will start\*  
3rd Quarter 2008

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: 4/11/08

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.

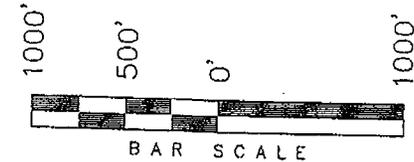
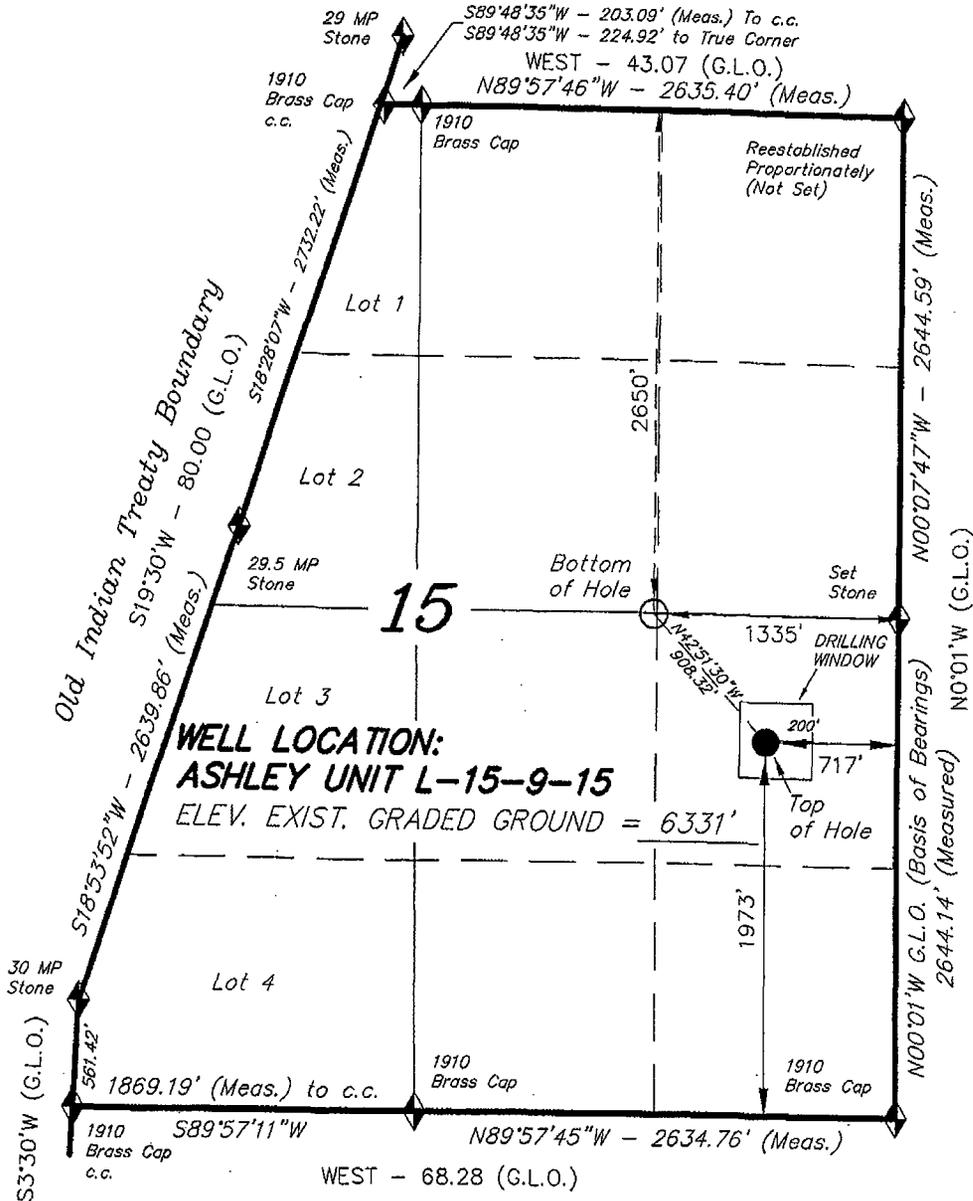
\*(Instructions on reverse)

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APR 28 2008  
DIV. OF OIL, GAS & MINING

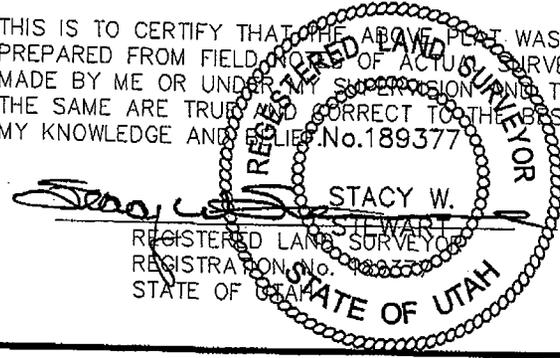
T9S, R15E, S.L.B.&M.

NEWFIELD PRODUCTION COMPANY

WELL LOCATION, ASHLEY UNIT L-15-9-15,  
 LOCATED AS SHOWN IN THE NE 1/4 SE 1/4  
 OF SECTION 15, T9S, R15E, 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



◆ = SECTION CORNERS LOCATED

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

ASHLEY UNIT L-15-9-15  
 (Surface Location) NAD 83  
 LATITUDE = 40° 01' 44.62"  
 LONGITUDE = 110° 12' 41.01"

<b>TRI STATE LAND SURVEYING &amp; CONSULTING</b> 180 NORTH VERNAL AVE. - VERNAL, UTAH 84078 (435) 781-2501	
DATE SURVEYED: 02-01-08	SURVEYED BY: C.M.
DATE DRAWN: 02-08-08	DRAWN BY: F.T.M.
REVISED:	SCALE: 1" = 1000'



JON M. HUNTSMAN, JR.  
Governor

GARY R. HERBERT  
Lieutenant Governor

**State of Utah**  
DEPARTMENT OF NATURAL RESOURCES

MICHAEL R. STYLER  
Executive Director

**Division of Oil, Gas and Mining**

JOHN R. BAZA  
Division Director

April 29, 2008

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

Re: Ashley Federal L-15-9-15 Well, Surface Location 1973' FSL, 717' FEL, NE SE, Sec. 15, T. 9 South, R. 15 East, Bottom Location 2650' FNL, 1335' FEL, NE SE, Sec. 15, T. 9 South, R. 15 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 43-013-33962.

Sincerely,

Gil Hunt  
Associate Director

pab  
Enclosures

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

**Operator:** \_\_\_\_\_ Newfield Production Company  
**Well Name & Number** \_\_\_\_\_ Ashley Federal L-15-9-15  
**API Number:** \_\_\_\_\_ 43-013-33962  
**Lease:** \_\_\_\_\_ UTU-66184

**Surface Location:** NE SE      **Sec. 15**      **T. 9 South**      **R. 15 East**  
**Bottom Location:** NE SE      **Sec. 15**      **T. 9 South**      **R. 15 East**

### Conditions of Approval

#### 1. General

Compliance with the requirements of Utah Admin. R. 649-1 *et seq.*, the Oil and Gas Conservation General Rules, and the applicable terms and provisions of the approved Application for permit to drill.

#### 2. Notification Requirements

Notify the Division within 24 hours of spudding the well.

- Contact Carol Daniels at (801) 538-5284

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

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

#### 3. Reporting Requirements

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

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

5. In accordance with Utah Admin. R.649-3-11, Directional Drilling, the operator shall submit a complete angular deviation and directional survey report to the Division within 30 days following completion of the well.

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Form 3160-3  
 (September 2001)

UNITED STATES  
 DEPARTMENT OF THE INTERIOR  
 BUREAU OF LAND MANAGEMENT

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

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-66184
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. Ashley PA AB
3a. Address Route #3 Box 3630, Myton UT 84052		8. Lease Name and Well No. Ashley Federal L-15-9-15
3b. Phone No. (include area code) (435) 646-3721		9. API Well No. 43-013-33962
4. Location of Well (Report location clearly and in accordance with any State requirements. *) At surface NE/SE 1973' FSL 717' FEL At proposed prod. zone 2650' FNL 1335' FEL NWSE		10. Field and Pool, or Exploratory Monument Butte
14. Distance in miles and direction from nearest town or post office* Approximatley 15.4 miles southwest of Myton, Utah		11. Sec., T., R., M., or Blk. and Survey or Area Sec. 15, T9S R15E
15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any) Approx. 2625' f/ise, 2625' f/unit	16. No. of Acres in lease 1,360.57	12. County or Parish Duchesne
18. Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft. Approx. 1275'	17. Spacing Unit dedicated to this well 20 Acres	13. State UT
19. Proposed Depth 6340'	20. BLM/BIA Bond No. on file WYB000493	
21. Elevations (Show whether DF, KDB, RT, GL, etc.) 6331' GL	22. Approximate date work will start* 3rd Quarter 2008	23. Estimated duration Approximately seven (7) days from spud to rig release.

24. Attachments

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

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

25. Signature <i>Mandi Crozier</i>	Name (Printed/Typed) Mandie Crozier	Date 4/11/08
Title Regulatory Specialist		
Approved by (Signature) <i>Jerry Kenczka</i>	Name (Printed/Typed) JERRY KENCZKA	Date FEB 05 2009
Title Assistant Field Manager Lands & Mineral Resources		
Office VERNAL FIELD OFFICE		

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

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

\*(Instructions on reverse)

NOTICE OF APPROVAL

RECEIVED

FEB 10 2009

DIV. OF OIL, GAS & MINING

UDOGM

NOS 2/29/08  
 08PP0523A

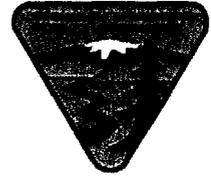


**UNITED STATES DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT  
VERNAL FIELD OFFICE**

170 South 500 East

VERNAL, UT 84078

(435) 781-4400



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

<b>Company:</b>	<b>Newfield Production Company</b>	<b>Location:</b>	<b>NESE, Sec. 15, T9S, R15E (S) NWSE, Sec. 15, T9S, R15E(B)</b>
<b>Well No:</b>	<b>Ashley Federal L-15-9-15</b>	<b>Lease No:</b>	<b>UTU-66184</b>
<b>API No:</b>	<b>43-013-33962</b>	<b>Agreement:</b>	<b>Ashley Unit</b>

<b>Title</b>	<b>Name</b>	<b>Office Phone Number</b>	<b>Cell Phone Number</b>
Petroleum Engineer:	Matt Baker	(435) 781-4490	(435) 828-4470
Petroleum Engineer:	Michael Lee	(435) 781-4432	(435) 828-7875
Petroleum Engineer:	Ryan Angus	(435) 781-4430	(435) 828-7368
Supervisory Petroleum Technician:	Jamie Sparger	(435) 781-4502	(435) 828-3913
Supervisory NRS:	Karl Wright	(435) 781-4484	
NRS/Enviro Scientist:	Holly Villa	(435) 781-4404	(435) 828-3544
NRS/Enviro Scientist:	James Hereford	(435) 781-3412	(435) 828-3546
NRS/Enviro Scientist:	Chuck Macdonald	(435) 781-4441	(435) 828-7481
NRS/Enviro Scientist:	Dan Emmett	(435) 781-3414	(435) 828-4029
NRS/Enviro Scientist:	Paul Percival	(435) 781-4493	(435) 828-7381
NRS/Enviro Scientist:	Anna Figueroa	(435) 781-3407	(435) 828-3548
NRS/Enviro Scientist:	Verlyn Pindell	(435) 781-3402	(435) 828-3547
NRS/Enviro Scientist:	Nathan Packer	(435) 781-3405	(435) 828-3545
NRS/Enviro Scientist:	David Gordon	(435) 781-4424	
NRS/Enviro Scientist:	Christine Cimiluca	(435) 781-4475	
NRS/Enviro Scientist:	Lori Ford	(435) 781-4406	

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

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

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

**NOTIFICATION REQUIREMENTS**

Location Construction (Notify Environmental Scientist)	- Forty-Eight (48) hours prior to construction of location and access roads.
Location Completion (Notify Environmental Scientist)	- Prior to moving on the drilling rig.
Spud Notice (Notify Petroleum Engineer)	- Twenty-Four (24) hours prior to spudding the well.
Casing String & Cementing (Notify Supv. Petroleum Tech.)	- Twenty-Four (24) hours prior to running casing and cementing all casing strings.
BOP & Related Equipment Tests (Notify Supv. Petroleum Tech.)	- Twenty-Four (24) hours prior to initiating pressure tests.
First Production Notice (Notify Petroleum Engineer)	- Within Five (5) business days after new well begins or production resumes after well has been off production for more than ninety (90) days.

### **SURFACE USE PROGRAM CONDITIONS OF APPROVAL (COAs)**

- If there is an active Gilsonite mining operation within 2 miles of the well location, operator shall notify the Gilsonite operator at least 48 hours prior to any blasting during construction.
- If paleontological materials are uncovered during construction, the operator is to immediately stop work and contact the Authorized Officer (AO). A determination will be made by the AO as to what mitigation may be necessary for the discovered paleontologic material before construction can continue.

#### **SITE SPECIFIC COAs:**

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, an Interim/Final Surface Reclamation Plan for surface disturbance on well pads, access roads, and pipelines. At a minimum, this will include the reshaping of the pad to the original contour to the extent possible; the re-spreading of the top soil up to the rig anchor points; and, the area reseeded using appropriate reclamation methods. The AO will provide written approval or concurrence within 30 calendar days of receipt.

#### **Raptors**

Areas where surface disturbance will take place have been identified as habitat for ferruginous hawks and golden eagles. Two inactive ferruginous hawk nests located within Township 9 South, Range 15 East lie within 0.5 mile southeast of the proposed well Ashley Federal K-15-9-15, three more ferruginous hawk nests are located within 0.5 mile of Ashley Federal R-15-9-15, and one ferruginous hawk nest is located within 0.5 mile of Ashley D-22-9-15. In order to minimize disturbance to ferruginous hawk nesting, Newfield has agreed to engage in no surface activities, construction, drilling, or completion operations from March 1 to August 1.

Additional nests are located within 0.5 mile of wells Ashley Federal P-12-9-15, N-14-9-15, D-22-9-15, and L-15-9-15, but due to the advanced state of deterioration of the nests, no timing stipulations will be applied.

Newfield will prevent adverse impacts to active raptor nests during the breeding season by adhering to the temporal and spatial limitations. If new construction or surface-disturbing activities are scheduled during the breeding season for raptors, a BLM approved biologist acceptable to the BLM will conduct a presence/absence survey using scientifically accepted survey protocols. Construction and drilling activities will not occur within 0.5 mile of an active nest. If the nests are determined to be inactive, then this applicant committed measure can be waived by the authorized officer.

#### **Interim and Final Reclamation**

Reclamation Immediately upon well completion, the location and surrounding area will be cleared of all unused tubing, equipment, debris, materials, and trash. Any hydrocarbons in the pit will be removed in accordance with 43 CFR 3162.7-1. The reserve pit and the portion of the well not needed for production facilities/operations will be recontoured to the approximate natural contours. The reserve pit will be reclaimed within 120 days from the date of well completion, or as soon as environmental conditions

allow. The stockpiled pit topsoil will then be spread over the pit area. Seeding shall be implemented in the fall only, between August 15 and December 15. The seed shall be drilled wherever possible. If the seed is aerially broadcasted, then the seed shall be covered immediately (crimped into the topsoil with a bulldozer or other heavy equipment). *Forage Kochia shall be applied to the surface and not covered.* If initial seeding is not successful, reseeding may be required.

**Interim and Final Seed mix for well K-15-9-15:**

Common name	Latin name	lbs/acre	Recommended seed planting depth
Siberian Wheatgrass	<i>Agropyron fragile</i>	1.0	¼ - ½"
Squirrel tail	<i>Elymus elymoides</i>	3.0	½"
Shadscale saltbush	<i>Atriplex confertifolia</i>	0.50	½"
Four-wing saltbush	<i>Atriplex canescens</i>	0.50	½"
Scarlet globemallow	<i>Sphaeralcea coccinea</i>	0.10	⅛ - ¼"
Gardner Saltbush	<i>Atriplex gardneri</i>	0.5	½"

**Interim and Final Seed for wells P-12-9-15, I-15-9-15, D-22-9-15, I-1-9-15.**

Common name	Latin name	lbs/acre	Recommended seed planting depth
Squirrel tail	<i>Elymus elymoides</i>	5.0	½"
Shadscale saltbush	<i>Atriplex confertifolia</i>	0.50	½"
Forage Kochia	<i>Kochia prostrate</i>	0.25	½"
Gardner Saltbush	<i>Atriplex gardneri</i>	0.5	½"
Crested Wheatgrass	<i>Agropyron cristatum</i>	5.0	½"

**Interim and Final Seed mix for wells: R-15-9-15, H-15-9-15, N-14-9-15, W-1-9-15, Q-15-9-15, L-15-9-15**

Common name	Latin name	lbs/acre	Recommended seed planting depth
Squirrel tail	<i>Elymus elymoides</i>	6.0	½"
Shadscale saltbush	<i>Atriplex confertifolia</i>	1.0	½"
Forage Kochia	<i>Kochia prostrate</i>	0.2	½"
Gardner Saltbush	<i>Atriplex gardneri</i>	1.0	½"
Scarlet Globemallow	<i>Sphaeralcea coccinea</i>	0.2	½"
Fourwing Saltbush	<i>Atriplex canescens</i>	1.0	½"
Siberian Wheatgrass	<i>Agropyron fragile</i>	2.0	½"

- All pounds are pure live seed.
- All seed and mulch will be certified weed free.

- Rates are set for drill seeding; double rate if broadcasting.
- Reseeding may be required if initial seeding is not successful.

**Final reclamation:**

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

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

**SITE SPECIFIC DOWNHOLE COAs:**

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

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

**DRILLING/COMPLETION/PRODUCING OPERATING STANDARDS**

- The spud date and time shall be reported orally to Vernal Field Office within 24 hours of spudding.
- Notify Vernal Field Office Supervisory Petroleum Engineering Technician at least 24 hours in advance of casing cementing operations and BOPE & casing pressure tests.
- All requirements listed in Onshore Order #2 III. E. Special Drilling Operations are applicable for air drilling of surface hole.
- Blowout prevention equipment (BOPE) shall remain in use until the well is completed or abandoned. Closing unit controls shall remain unobstructed and readily accessible at all times. Choke manifolds shall be located outside of the rig substructure.
- All BOPE components shall be inspected daily and those inspections shall be recorded in the daily drilling report. Components shall be operated and tested as required by Onshore Oil & Gas Order No. 2 to insure good mechanical working order. All BOPE pressure tests shall be performed by a test pump with a chart recorder and **NOT** by the rig pumps. Test shall be reported in the driller's log.
- BOP drills shall be initially conducted by each drilling crew within 24 hours of drilling out from under the surface casing and weekly thereafter as specified in Onshore Oil & Gas Order No. 2.
- Casing pressure tests are required before drilling out from under all casing strings set and cemented in place.
- No aggressive/fresh hard-banded drill pipe shall be used within casing.
- **Cement baskets shall not be run on surface casing.**

- The operator must report all shows of water or water-bearing sands to the BLM. If flowing water is encountered it must be sampled, analyzed, and a copy of the analyses submitted to the BLM Vernal Field Office.
- The operator must report encounters of all non oil & gas mineral resources (such as Gilsonite, tar sands, oil shale, trona, etc.) to the Vernal Field Office, in writing, within 5 working days of each encounter. Each report shall include the well name/number, well location, date and depth (from KB or GL) of encounter, vertical footage of the encounter and, the name of the person making the report (along with a telephone number) should the BLM need to obtain additional information.
- A complete set of angular deviation and directional surveys of a directional well will be submitted to the Vernal BLM office engineer within 30 days of the completion of the well.
- While actively drilling, chronologic drilling progress reports shall be filed directly with the BLM, Vernal Field Office on a weekly basis in sundry, letter format or e-mail to the Petroleum Engineers until the well is completed.
- A cement bond log (CBL) will be run from the production casing shoe to the top of cement and shall be utilized to determine the bond quality for the production casing. Submit a field copy of the CBL to this office.
- **Please submit an electronic copy of all other logs run on this well in LAS format to UT\_VN\_Welllogs@BLM.gov. This submission will supersede the requirement for submittal of paper logs to the BLM.**
- There shall be no deviation from the proposed drilling, completion, and/or workover program as approved. Safe drilling and operating practices must be observed. Any changes in operation must have prior approval from the BLM Vernal Field Office.

## **OPERATING REQUIREMENT REMINDERS:**

- All wells, whether drilling, producing, suspended, or abandoned, shall be identified in accordance with 43 CFR 3162.6. There shall be a sign or marker with the name of the operator, lease serial number, well number, and surveyed description of the well.
- In accordance with 43 CFR 3162.4-3, this well shall be reported on the "Monthly Report of Operations" (Oil and Gas Operations Report ((OGOR)) starting with the month in which operations commence and continue each month until the well is physically plugged and abandoned. This report shall be filed in duplicate, directly with the Minerals Management Service, P.O. Box 17110, Denver, Colorado 80217-0110, or call 1-800-525-7922 (303) 231-3650 for reporting information.
- Should the well be successfully completed for production, the BLM Vernal Field office must be notified when it is placed in a producing status. Such notification will be by written communication and must be received in this office by not later than the fifth business day following the date on which the well is placed on production. The notification shall provide, as a minimum, the following informational items:
  - Operator name, address, and telephone number.
  - Well name and number.
  - Well location ( $\frac{1}{4}$ / $\frac{1}{4}$ , Sec., Twn, Rng, and P.M.).
  - Date well was placed in a producing status (date of first production for which royalty will be paid).
  - The nature of the well's production, (i.e., crude oil, or crude oil and casing head gas, or natural gas and entrained liquid hydrocarbons).
  - The Federal or Indian lease prefix and number on which the well is located; otherwise the non-Federal or non-Indian land category, i.e., State or private.
  - Unit agreement and/or participating area name and number, if applicable.
  - Communitization agreement number, if applicable.
- Any venting or flaring of gas shall be done in accordance with Notice to Lessees (NTL) 4A and needs prior approval from the BLM Vernal Field Office.
- All undesirable events (fires, accidents, blowouts, spills, discharges) as specified in NTL 3A will be reported to the BLM, Vernal Field Office. Major events, as defined in NTL3A, shall be reported verbally within 24 hours, followed by a written report within 15 days. "Other than Major Events" will be reported in writing within 15 days. "Minor Events" will be reported on the Monthly Report of Operations and Production.

- Whether the well is completed as a dry hole or as a producer, "Well Completion and Recompletion Report and Log" (BLM Form 3160-4) shall be submitted not later than 30 days after completion of the well or after completion of operations being performed, in accordance with 43 CFR 3162.4-1. Two copies of all logs run, core descriptions, and all other surveys or data obtained and compiled during the drilling, workover, and/or completion operations, shall be filed on BLM Form 3160-4. Submit with the well completion report a geologic report including, at a minimum, formation tops, and a summary and conclusions. Also include deviation surveys, sample descriptions, strip logs, core data, drill stem test data, and results of production tests if performed. Samples (cuttings, fluid, and/or gas) shall be submitted only when requested by the BLM, Vernal Field Office.
- All off-lease storage, off-lease measurement, or commingling on-lease or off-lease, shall have prior written approval from the BLM Vernal Field Office.
- Oil and gas meters shall be calibrated in place prior to any deliveries. The BLM Vernal Field Office Petroleum Engineers will be provided with a date and time for the initial meter calibration and all future meter proving schedules. A copy of the meter calibration reports shall be submitted to the BLM Vernal Field Office. All measurement facilities will conform to the API standards for liquid hydrocarbons and the AGA standards for natural gas measurement. All measurement points shall be identified as the point of sale or allocation for royalty purposes.
- A schematic facilities diagram as required by Onshore Oil & Gas Order No. 3 shall be submitted to the BLM Vernal Field Office within 30 days of installation or first production, whichever occurs first. All site security regulations as specified in Onshore Oil & Gas Order No. 3 shall be adhered to. All product lines entering and leaving hydrocarbon storage tanks will be effectively sealed in accordance with Onshore Oil & Gas Order No. 3.
- Any additional construction, reconstruction, or alterations of facilities, including roads, gathering lines, batteries, etc., which will result in the disturbance of new ground, shall require the filing of a suitable plan and need prior approval of the BLM Vernal Field Office. Emergency approval may be obtained orally, but such approval does not waive the written report requirement.
- No location shall be constructed or moved, no well shall be plugged, and no drilling or workover equipment shall be removed from a well to be placed in a suspended status without prior approval of the BLM Vernal Field Office. If operations are to be suspended for more than 30 days, prior approval of the BLM Vernal Field Office shall be obtained and notification given before resumption of operations.
- Pursuant to Onshore Oil & Gas Order No. 7, this is authorization for pit disposal of water produced from this well for a period of 90 days from the date of initial production. A permanent disposal method must be approved by this office and in operation prior to the end of this 90-day period. In order to meet this deadline, an application for the proposed permanent disposal method shall be submitted along with any necessary water analyses, as soon as possible, but no later than 45 days after the date of first production. Any method of disposal which has not been approved prior to the end of the authorized 90-day period will be considered as an Incident of Noncompliance and will be grounds for issuing a shut-in order until an acceptable manner for disposing of said water is provided and approved by this office.

- Unless the plugging is to take place immediately upon receipt of oral approval, the Field Office Petroleum Engineers must be notified at least 24 hours in advance of the plugging of the well, in order that a representative may witness plugging operations. If a well is suspended or abandoned, all pits must be fenced immediately until they are backfilled. The "Subsequent Report of Abandonment" (Form BLM 3160-5) must be submitted within 30 days after the actual plugging of the well bore, showing location of plugs, amount of cement in each, and amount of casing left in hole, and the current status of the surface restoration.

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

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

**SUNDRY NOTICES AND REPORTS ON WELLS**

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

5. Lease Designation and Serial No.  
**UTU-66184**

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

7. If Unit or CA, Agreement Designation  
**ASHLEY (GR RVR)**

8. Well Name and No.  
**ASHLEY FEDERAL L-15-9-15**

9. API Well No.  
**43-013-33962**

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

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

**SUBMIT IN TRIPLICATE**

1. Type of Well  
 Oil Well     Gas Well     Other

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

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

4. Location of Well (Footage, Sec., T., R., m., or Survey Description)  
**1973 FSL 717 FEL NE/SE Section 15, T9S R15E**

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

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

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

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

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

Approved by the  
Utah Division of  
Oil, Gas and Mining

COPY SENT TO OPERATOR

Date: 4.7.2009

Initials: KS

Date: 04-06-09  
By: [Signature]

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APR 02 2009  
DIV. OF OIL, GAS & MINING

14. I hereby certify that the foregoing is true and correct  
Signed Mandie Crozier Title Regulatory Specialist Date 3/30/2009  
Mandie Crozier

CC: UTAH DOGM

(This space for Federal or State office use)

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

Conditions of approval, if any:

CC: Utah DOGM



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

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

**API:** 43-013-33962  
**Well Name:** Ashley Federal L-15-9-15  
**Location:** NE/SE Section 15, T9S R15E  
**Company Permit Issued to:** Newfield Production Company  
**Date Original Permit Issued:** 4/29/2008

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

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

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

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

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

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

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

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

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

M. Cordie Cozys  
Signature

3/30/2009  
Date

Title: Regulatory Specialist

Representing: Newfield Production Company

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**APR 02 2009**  
DIV. OF OIL, GAS & MINING

spud  
BLM - Vernal Field Office - Notification Form

Operator Newfield Exploration Rig Name/# NDSI Rig #  
2 Submitted By Don Bastian Phone  
Number 435-823-6012  
Well Name/Number Ashley Federal L-15-9-15  
Qtr/Qtr NE/SE Section 15 Township 9S Range 15E  
Lease Serial Number UTU-  
66184  
API Number 43-013-33962

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

Date/Time 5/15/09 9:00 AM  PM

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

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

Date/Time 5/15/09 4:00 AM  PM

BOPE

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

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







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

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

OPERATOR ACCT. NO. **N2695**

ACTION CODE	CURRENT ENTITY NO.	NEW ENTITY NO.	API NUMBER	WELL NAME	WELL LOCATION					SPUD DATE	EFFECTIVE DATE
					QQ	SC	TP	RG	COUNTY		
B	99999	12419 ✓	4301333962	ASHLEY FEDERAL L-15-9-15	NESE	15	9S	15E	DUCHESNE	5/15/2009	6/08/09
WELL 1 COMMENTS: <i>GRRV</i> <i>BHL = NESE</i>											
A	99999	17319	4301333452	FEDERAL 1-30-9-16	NENE	30	9S	16E	DUCHESNE	5/28/2009	6/08/09
WELL 2 COMMENTS: <i>GRRV</i>											
A	99999	17320	4301333425	FEDERAL 3-29-9-16	NENW	29	9S	16E	DUCHESNE	5/19/2009	6/08/09
WELL 3 COMMENTS: <i>GRRV</i>											
B	99999	12276 ✓	4301334153	WELLS DRAW FEDERAL H-4-9-16	NWNE	4	9S	16E	DUCHESNE	6/3/2009	6/08/09
WELL 4 COMMENTS: <i>GRRV</i> <i>BHL = NWNE</i>											
WELL 5 COMMENTS:											
WELL 5 COMMENTS:											

ACTION CODES (See instructions on back of form)

- A - 1 new entity for new well (single well only)
- B - well to existing entity (group or unit well)
- C - from one existing entity to another existing entity
- D - well from one existing entity to a new entity
- E - other (explain in comments section)

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

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**JUN 03 2009**  
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*[Signature]*  
 Signature \_\_\_\_\_ Jentri Park  
 Production Clerk \_\_\_\_\_  
 Date **06/03/09**

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

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

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

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

1. Type of Well  
 Oil Well    Gas Well    Other

2. Name of Operator  
 NEWFIELD PRODUCTION COMPANY

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

3b. Phone    (include area code)  
                   435.646.3721

4. Location of Well    (Footage, Sec., T., R., M., or Survey Description)  
                           NESE Section 15 T9S R15E

5. Lease Serial No.  
 USA UTU-66184

6. If Indian, Allottee or Tribe Name.

7. If Unit or CA/Agreement, Name and/or  
 ASHLEY PA AB

8. Well Name and No.  
 ASHLEY FEDERAL L-15-9-15

9. API Well No.  
 4301333962

10. Field and Pool, or Exploratory Area  
 MONUMENT BUTTE

11. County or Parish, State  
 UINTAH, UT

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

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

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

On 6/2/09 MIRU NDSI Rig # 2. Set all equipment. Pressure test Kelly, TIW, Choke manifold, & Bop's to 2,000 psi. Test 8.625 csgn to 1,500 psi. Vernal BLM field, & Roosevelt DOGM office was notified of test. PU BHA and tag cement @ 283'. Drill out cement & shoe. Drill a 7.875 hole with fresh water to a depth of 6223'. 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, 162 jt's of 5.5 J-55, 15.5# csgn. Set @ 6223.30'/ KB. Cement with 275 sks cement mixed @ 11.0 ppg & 3.43 yld. The 400 sks cement mixed @ 14.4 ppg & 1.24 yld. Returned 50 bbls of cement to reserve pit. Nipple down Bop's. Drop slips @ 86,000 #'s tension. Release rig @ 8:00 pm 6/7/09.

I hereby certify that the foregoing is true and correct (Printed/ Typed) Don Bastian	Title Drilling Foreman
Signature <i>Don Bastian</i>	Date 06/08/2009

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

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

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

(Instructions on page 2)

**RECEIVED**  
JUN 15 2009







## Daily Activity Report

Format For Sundry

**ASHLEY L-15-9-15**

**5/1/2009 To 9/30/2009**

**6/22/2009 Day: 1**

**Completion**

Rigless on 6/22/2009 - Run CBL & shoot first stage. - Install 5M frac head. NU 6" 5M Cameron BOP. RU H/O truck & pressure test casing, blind rams, frac head & casing valves to 4500 psi. RU Perforators LLC WLT w/ mast & run CBL under pressure. WLTD @ 6132' cement top @ 120'. Perforate stage #1. CP5 sds @ 6068-74' & 6054-57' w/ 3 1/8" slick guns (19 gram, .49" HE, 120°, 21.92" pen, EXP-3319-331 Titan) w/ 3 spf for total of 27 shots. 148 BWTR. SWIFN.

**Daily Cost:** \$0

**Cumulative Cost:** \$11,529

**6/29/2009 Day: 2**

**Completion**

Rigless on 6/29/2009 - MIRU Bj Services & PSI WL. Perforate & frac all 6 stages. Flowback well. SIWFN. - Stage #2 CP3 sds. RU PSI WLT, crane & lubricator. RIH w/ Weatherford 5 1/2" 6K composite flow through frac plug & 6' perf guns. Set plug @ 5970'. Perforate CP3 sds @ 5910- 16' w/ 3 1/8" Slick Guns w/ 3 spf for total of 24 shots. RU BJ Services. 1740 psi on well. Broke @ 3540 psi @ 3.3 BPM, ISIP @ 1865 psi, No 1 min or 4 min due to low psi. FG @ .75. Pumped 780 gal of 767W Techni-Hib. Frac CP3 sds w/ 14,780#'s of 20/40 sand in 303 bbls of Lightning 17 fluid. Treated w/ ave pressure of 2173 psi w/ ave rate of 15.1 BPM. Pumped 504 gals of 15% HCL acid in flush for stage 3. ISIP 1890 psi, 5 min @ 1700 psi, 10 min @ 1682 psi, 15 min @ 1663 psi. FG .76. Leave pressure on well. 976 BWTR. - Stage #3 CP1 sds. RU PSI WLT, crane & lubricator. RIH w/ Weatherford 5 1/2" 6K composite flow through frac plug, 6' & 4' perf guns. Set plug @ 5850'. Perforate CP1 sds @ 5800- 5806', 5786- 90' w/ 3 1/8" Slick Guns w/ 3 spf for total of 30 shots. RU BJ Services. 1665 psi on well. Broke @ 1711 psi @ 2 BPM, No ISIP, 1 min or 4 min due to low psi. Pumped 780 gal of 767W Techni-Hib. Frac CP1 sds w/ 75,614#'s of 20/40 sand in 633 bbls of Lightning 17 fluid. Treated w/ ave pressure of 2486 psi w/ ave rate of 26.5 BPM. Pumped 504 gals of 15% HCL acid in flush for stage 4. ISIP 1924 psi, 5 min @ 1831 psi, 10 min @ 1775 psi, 15 min @ 1740 psi. FG .77. Leave pressure on well. 1609 BWTR. - Stage #4 A3 sds. RU PSI WLT, crane & lubricator. RIH w/ Weatherford 5 1/2" 6K composite flow through frac plug & 10' perf guns. Set plug @ 5330'. Perforate A3 sds @ 5249- 59' w/ 3 1/8" Slick Guns w/ 3 spf for total of 30 shots. RU BJ Services. 1708 psi on well. Broke @ 2770 psi @ 3.3 BPM, No ISIP, 1 min or 4 min due to low psi. Pumped 780 gal of 767W Techni-Hib. Frac A3 sds w/ 80,634#'s of 20/40 sand in 649 bbls of Lightning 17 fluid. Treated w/ ave pressure of 2329 psi w/ ave rate of 26.9 BPM. Pumped 504 gals of 15% HCL acid in flush for stage 5. ISIP 2220 psi, 5 min @ 2043 psi, 10 min @ 1973 psi, 15 min @ 1897 psi. FG .86. Leave pressure on well. 2258 BWTR. - Stage #1 CP5 sds. RU BJ Services. 35 psi on well. Broke @ 3693 psi @ 2.6 BPM. ISIP @ 1415 psi, 1 min @ 1304 psi, 4 min @ 1207 psi. FG @ .67. Pumped 780 gal of 767W Techni-Hib. Frac CP5 sds w/ 55,729#'s of 20/40 sand in 525 bbls of Lightning 17 fluid. Treated w/ ave pressure of 2160 psi w/ ave rate of 25.8 BPM. Pumped 504 gals of 15% HCL acid in flush for stage 2. ISIP 1928 psi, 5 min @ 1820 psi, 10 min @ 1771 psi, 15 min @ 1743 psi. FG @ .76. Leave pressure on well. 673 BWTR. - Stage #5 B.5 sds. RU PSI WLT, crane & lubricator. RIH w/ Weatherford 5 1/2" 6K composite flow through frac plug & 5' perf guns. Set plug @ 5100'. Perforate B.5 sds @ 5034- 39' w/ 3 1/8" Slick Guns w/ 3 spf for total of 15 shots. RU BJ Services. 1666 psi on well. Broke @ 3460 psi @ 3.2 BPM, ISIP @ 1901 psi, 1 min 1857 psi, 4 min 1821 psi. FG @ .82. Pumped 780 gal of 767W Techni-Hib. Frac B.5 sds w/ 15,215#'s of 20/40 sand in 279 bbls of Lightning 17 fluid. Treated w/ ave pressure of 2245 psi w/ ave rate of 15.1 BPM. Pumped 504 gals of 15% HCL acid in flush for stage 6. ISIP 1982 psi, 5 min @ 1804 psi, 10 min @ 1769 psi, 15 min @ 1764 psi. FG .83. Leave pressure on well. 2537

BWTR. - Stage #6 D1 sds. RU PSI WLT, crane & lubricator. RIH w/ Weatherford 5 1/2" 6K composite flow through frac plug & 10' perf guns. Set plug @ 4910'. Perforate D1 sds @ 4822-32' w/ 3 1/8" Slick Guns w/ 3 spf for total of 30 shots. RU BJ Services. 1731 psi on well. Pressure up to 4200 psi, Would not breakdown. RU WL & dumpbail acid. RU BJ. 1582 psi on well. Broke @ 2662 psi @ 3.3 BPM, ISIP @ 1603 psi, No 1 min or 4 min due to low psi. FG @ .77. Pumped 780 gal of 767W Techni-Hib. Frac D1 sds w/ 91,098#'s of 20/40 sand in 703 bbls of Lightning 17 fluid. Treated w/ ave pressure of 2074 psi w/ ave rate of 24.9 BPM. ISIP 2037 psi, 5 min @ 1984 psi, 10 min @ 1918 psi, 15 min @ 1891 psi. FG .86. Begin immediate flowback on 20/64 choke @ 3 BPM. Flowed for 7 hrs, 1 1/2 hrs into flowback choke kept plugging off w/ rubber chunks. Some thing got stuck in csg valve (Unable to blow obstruction out of csg vavle). Flowed well @ a rate of about 15 BPM for 40 min. RU valve & stab onto csg valve to shut in well. RU flowback on other csg valve. Continue to flowback well @ 3 BPM. Recovered estimated 1551 BTF (50 % of frac fluid). Turned to oil & gas. SIWFN w/ 1689 BWTR. Pressure built up to 380 psi in 20 min.

**Daily Cost:** \$0

**Cumulative Cost:** \$165,653

### 7/1/2009 Day: 4

### Completion

WWS #3 on 7/1/2009 - Drlg plugs & swab. - MIRUSU. Open well w/ 0 psi on casing. RD Cameron BOP's & frac head. RU Schafer BOP's & production tbg head. PU 4-3/4" used Chomp mill b& x-over sub. Tally pickup & TIH w/ new J-55, 2-7/8", 6.5#, 152 jts to leave EOT @ 4701'. SIFN. - MIRUSU. Open well w/ 0 psi on casing. RD Cameron BOP's & frac head. RU Schafer BOP's & production tbg head. PU 4-3/4" used Chomp mill b& x-over sub. Tally pickup & TIH w/ new J-55, 2-7/8", 6.5#, 152 jts to leave EOT @ 4701'. SIFN. - Open well w/ 0 psi on casing. Continue PU tbg & TIH to tag kill plug @ 4800'. RU tanks, pump & swivel. Drlg out plug in 20 min. TIH w/ tbg to tag plug @ 4910'. Drlg out plug #1. TIH w/ tbg to tag plug @ 5150'. Drlg out plug #2. TIH w/ tbg to tag plug @ 5330'. Drlg out plug #3. TIH w/ tbg to tag plug @ 5850'. Drlg out plug #4. TIH w/ tbg to tag plug @ 5970'. Drlg out plug #5 in 22 min. TIH w/ tbg to tag fill @ 6052'. C/O to PBDT @ 6170'. RD swivel. LD 2 jts tbg to leave EOT @ 6111'. RU swab. Made 5 runs to rec'd 65 bbls. FFL was 500'. Gained 240 bbls today. SIFN. - Open well w/ 0 psi on casing. Continue PU tbg & TIH to tag kill plug @ 4800'. RU tanks, pump & swivel. Drlg out plug in 20 min. TIH w/ tbg to tag plug @ 4910'. Drlg out plug #1. TIH w/ tbg to tag plug @ 5150'. Drlg out plug #2. TIH w/ tbg to tag plug @ 5330'. Drlg out plug #3. TIH w/ tbg to tag plug @ 5850'. Drlg out plug #4. TIH w/ tbg to tag plug @ 5970'. Drlg out plug #5 in 22 min. TIH w/ tbg to tag fill @ 6052'. C/O to PBDT @ 6170'. RD swivel. LD 2 jts tbg to leave EOT @ 6111'. RU swab. Made 5 runs to rec'd 65 bbls. FFL was 500'. Gained 240 bbls today. SIFN.

**Daily Cost:** \$0

**Cumulative Cost:** \$182,349

### 7/2/2009 Day: 5

### Completion

WWS #3 on 7/2/2009 - Put well on pump. - Open well w/ 150 psi on casing. RU swab & made 4 runs to rec'd 45 bbls fluid. FFL was 400', last run showed trace of oil w/ no sand. RD swab. TIH w/ tbg to tag no new sand. TOOH w/ tbg. LD Mill & x-over sub. TIH w/ NC, 1 jt tbg, SN, 1 jt tbg, TA new Central Hydraulic w/ 45,000# shear, 195 jts tbg. RD BOP's. Set TA @ 6026' w/ 18,000#'s tension w/ SN @ 6060' & EOT @ 6092'. Flush tbg w/ 60 bbls water. Pickup & prime pump. TIH w/ 2-1/2" x 1-1/2" x 17' x 24' new Central Hydraulic RHAC pump w/ 222"SL, 4- 1-1/2" weight rods, 237- 7/8" guided (8 per) rods, 2', 8' x 7/8" pony rod, 1-1/2" x 30' polish rod. Space pump. Test tbg & pump to 800 psi. RD MOSU POP @ 5:00PM w/ 144"SL @ 45 spm w/ 1404 bbls EWTR. Final Report. **Finalized**

**Daily Cost:** \$0

**Cumulative Cost:** \$234,595

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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: \_\_\_\_\_

2. Name of Operator  
NEWFIELD EXPLORATION COMPANY

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

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

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

At surface 1973' FSL & 717' FEL (NE/SE) SEC. 15, T9S, R15E

At top prod. interval reported below

At total depth 6223' 2529 FNL 1451 FEL SWNE S-15 T9S R15E

14. Date Spudded  
05/15/2009

15. Date T.D. Reached  
06/07/2009

16. Date Completed 07/02/2009  
 D & A  Ready to Prod.

17. Elevations (DF, RKB, RT, GL)\*  
6331' GL 6343' KB

18. Total Depth: MD 6233' 6223  
TVD 6115'

19. Plug Back T.D.: MD 62956' 190  
TVD 6062

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#		325'		160 CLASS G			
7-7/8"	5-1/2" J-55	15.5#		6223'		277 PRIMLITE		120'	
						401 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@ 6092'	TA @ 6026'						

25. Producing Intervals

Formation	Top	Bottom	Perforated Interval	Size	No. Holes	Perf. Status
A) GREEN RIVER			(CP5)6068-74,6054-57	.49"	3	27
B) GREEN RIVER			(CP3) 5910-5916'	.49"	3	24
C) GREEN RIVER			(CP1) SEE BELOW	.49"	3	30
D) GREEN RIVER			(A3) 5249-5259'	.49"	3	30

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

Depth Interval	Amount and Type of Material
5858-5864'	Frac CP5 sds w/ 55,729#'s of 20/40 sand in 525 bbls of Lightning 17 fluid.
5910-5916'	Frac CP3 sds w/ 14,780#'s of 20/40 sand in 303 bbls of Lightning 17 fluid.
5786-5806'	Frac CP1 sds w/ 75,614#'s of 20/40 sand in 633 bbls of Lightning 17 fluid.
5249-5259'	Frac A3 sds w/ 80,634#'s of 20/40 sand in 649 bbls of Lightning 17 fluid.

28. Production - Interval A

Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
07/02/09	07/13/09	24	→	20	10	36			2-1/2" x 1-1/2" x 17' x 24' new Central Hydraulic RHAC pump w/ 222"SL
Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas/Oil Ratio	Well Status	PRODUCING
			→						

28a. Production - Interval B

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

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

28b. Production - Interval C

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

28c. Production - Interval D

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

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

USED FOR FUEL

30. Summary of Porous Zones (Include Aquifers):

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

31. Formation (Log) Markers

GEOLOGICAL MARKERS

Formation	Top	Bottom	Descriptions, Contents, etc.	Name	Top
					Meas. Depth
				GARDEN GULCH MRK GARDEN GULCH 1	3767' 3982'
				GARDEN GULCH 2 POINT 3	4095' 4348'
				X MRKR Y MRKR	4630' 4666'
				DOUGALS CREEK MRK BI CARBONATE MRK	4776' 5027'
				B LIMESTON MRK CASTLE PEAK	5128' 5710'
				BASAL CARBONATE TOTAL DEPTH (LOGGERS)	6154' 6220'

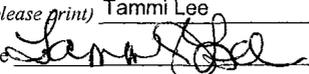
32. Additional remarks (include plugging procedure):

STAGE #3: Perforate CP1 sds @ 5800- 5806', 5786- 90' w/ 3 1/8" Slick Guns w/ 3 spf for total of 30 shots.  
 STAGE #5: Perforate B.5 sds @ 5034- 39' w/ 3 1/8" Slick Guns w/ 3 spf for total of 15 shots. Frac B.5 sds w/ 15,215#s of 20/40 sand in 279 bbls of Lightning 17 fluid.  
 STAGE #6: Perforate D1 sds @ 4822- 32' w/ 3 1/8" Slick Guns w/ 3 spf for total of 30 shots. Frac D1 sds w/ 91,098#s of 20/40 sand in 703 bbls of Lightning 17 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  Date 08/18/2009

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

# NEWFIELD



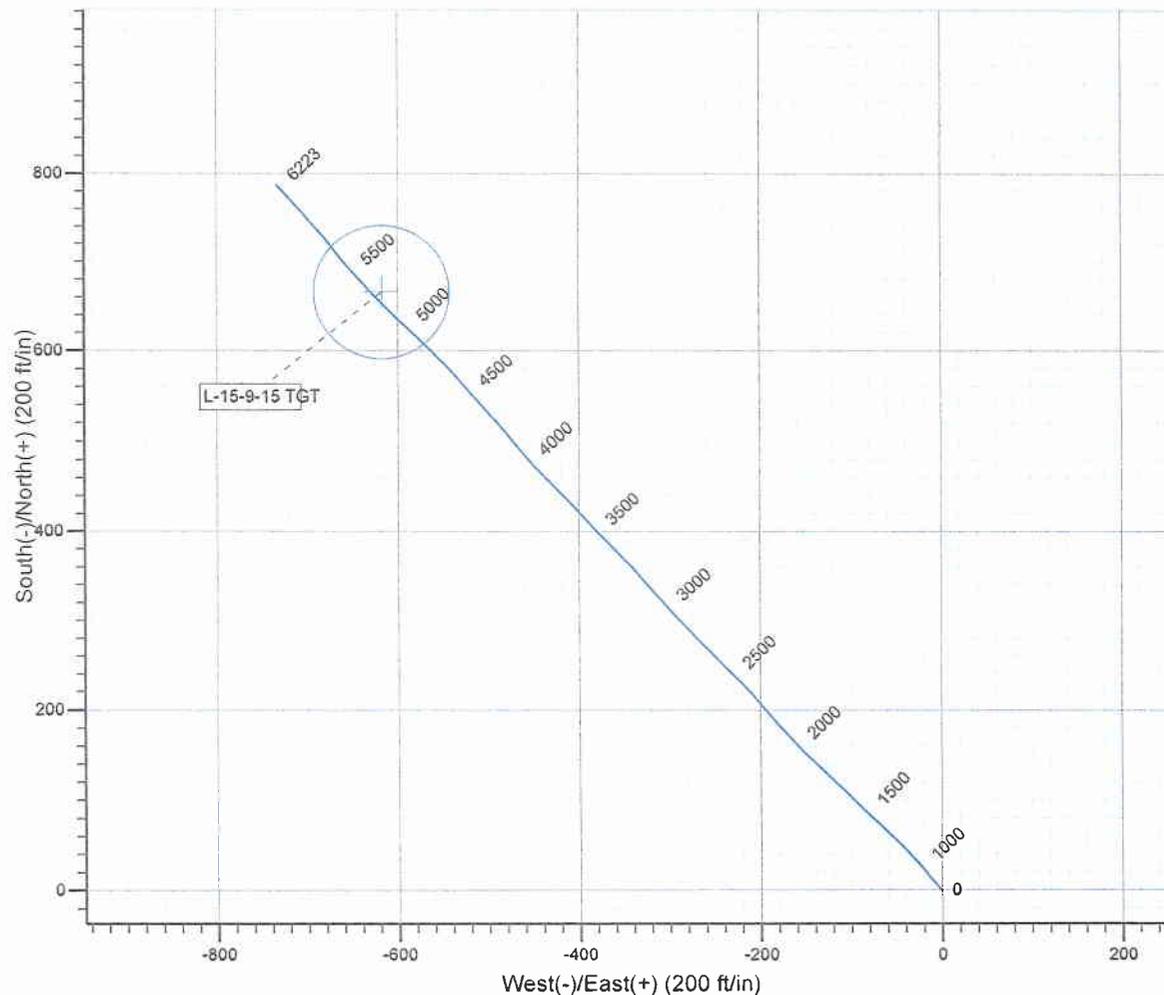
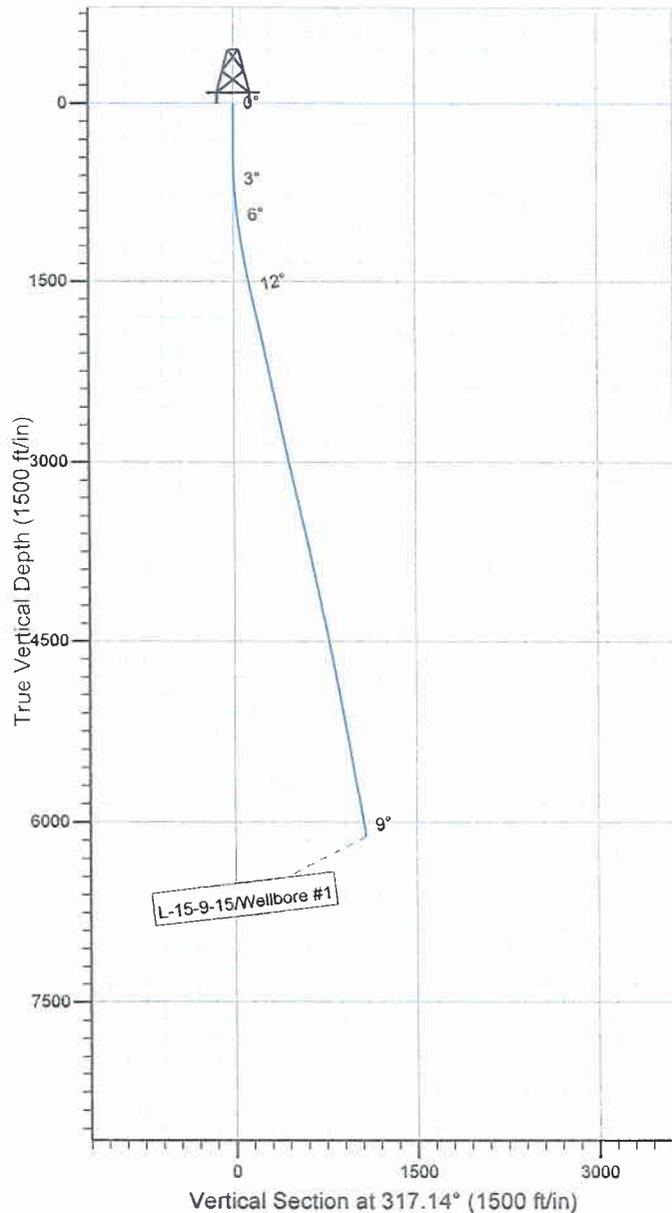
Project: USGS Myton SW (UT)  
 Site: SECTION 15 T9S, R15E  
 Well: L-15-9-15  
 Wellbore: Wellbore #1  
 SURVEY: Wellbore #1

FINAL SURVEY REPORT



Azimuths to True North  
 Magnetic North: 11.63°

Magnetic Field  
 Strength: 52471.3snT  
 Dip Angle: 65.81°  
 Date: 2009/05/05  
 Model: IGRF200510



Design: Wellbore #1 (L-15-9-15/Wellbore #1)

Created By: *Jim Hudson* Date: 8:47, June 16 2009

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

**NEWFIELD**



# **NEWFIELD EXPLORATION**

**USGS Myton SW (UT)  
SECTION 15 T9S, R15E  
L-15-9-15**

**Wellbore #1**

**Design: Wellbore #1**

## **Standard Survey Report**

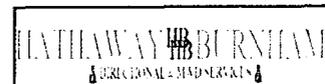
**16 June, 2009**





# HATHAWAY BURNHAM

## Survey Report



**Company:** NEWFIELD EXPLORATION  
**Project:** USGS Myton SW (UT)  
**Site:** SECTION 15 T9S, R15E  
**Well:** L-15-9-15  
**Wellbore:** Wellbore #1  
**Design:** Wellbore #1

**Local Co-ordinate Reference:** Well L-15-9-15  
**TVD Reference:** L-15-9-15 @ 6343.0ft (NDSI #2)  
**MD Reference:** L-15-9-15 @ 6343.0ft (NDSI #2)  
**North Reference:** True  
**Survey Calculation Method:** Minimum Curvature  
**Database:** EDM 2003.21 Single User Db

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

<b>Site</b>	SECTION 15 T9S, R15E, SEC 15 T9S, R15E		
<b>Site Position:</b>		<b>Northing:</b>	7,182,500.00 ft
<b>From:</b>	Map	<b>Easting:</b>	1,999,400.00 ft
<b>Position Uncertainty:</b>	0.0 ft	<b>Slot Radius:</b>	"
		<b>Latitude:</b>	40° 1' 50.727 N
		<b>Longitude:</b>	110° 13' 4.516 W
		<b>Grid Convergence:</b>	0.82 °

<b>Well</b>	L-15-9-15, SHL LAT: 40 01 44.62, LONG: -110 12 41.01		
<b>Well Position</b>	<b>+N/-S</b>	0.0 ft	<b>Northing:</b> 7,181,908.42 ft
	<b>+E/-W</b>	0.0 ft	<b>Easting:</b> 2,001,237.04 ft
<b>Position Uncertainty</b>	0.0 ft	<b>Wellhead Elevation:</b>	ft
		<b>Latitude:</b>	40° 1' 44.620 N
		<b>Longitude:</b>	110° 12' 41.010 W
		<b>Ground Level:</b>	0.0 ft

<b>Wellbore</b>	Wellbore #1				
<b>Magnetics</b>	<b>Model Name</b>	<b>Sample Date</b>	<b>Declination (°)</b>	<b>Dip Angle (°)</b>	<b>Field Strength (nT)</b>
	IGRF200510	2009/05/05	11.63	65.81	52,471

<b>Design</b>	Wellbore #1			
<b>Audit Notes:</b>				
<b>Version:</b>	1.0	<b>Phase:</b>	ACTUAL	<b>Tie On Depth:</b> 0.0
<b>Vertical Section:</b>	<b>Depth From (TVD) (ft)</b>	<b>+N/-S (ft)</b>	<b>+E/-W (ft)</b>	<b>Direction (°)</b>
	0.0	0.0	0.0	317.14

<b>Survey Program</b>	Date 2009/06/16			
<b>From (ft)</b>	<b>To (ft)</b>	<b>Survey (Wellbore)</b>	<b>Tool Name</b>	<b>Description</b>
358.0	6,223.0	Survey #1 (Wellbore #1)	MWD	MWD - Standard

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.00	0.00	0.00
358.0	0.31	169.06	358.0	-1.0	0.2	-0.8	0.09	0.09	0.00
388.0	0.20	222.06	388.0	-1.1	0.2	-0.9	0.83	-0.37	176.67
419.0	0.24	279.45	419.0	-1.1	0.1	-0.8	0.69	0.13	185.13
450.0	0.48	298.22	450.0	-1.0	-0.1	-0.7	0.85	0.77	60.55
480.0	0.97	306.57	480.0	-0.8	-0.4	-0.3	1.67	1.63	27.83
511.0	1.27	319.77	511.0	-0.4	-0.9	0.3	1.27	0.97	42.58
541.0	1.98	317.82	541.0	0.2	-1.4	1.1	2.37	2.37	-6.50
572.0	2.48	318.91	572.0	1.1	-2.2	2.4	1.62	1.61	3.52
602.0	3.01	320.39	601.9	2.2	-3.2	3.8	1.78	1.77	4.93
633.0	3.23	320.83	632.9	3.5	-4.2	5.5	0.71	0.71	1.42
664.0	3.60	319.42	663.8	5.0	-5.4	7.3	1.22	1.19	-4.55
694.0	3.82	320.28	693.8	6.4	-6.7	9.3	0.76	0.73	2.87



Company: NEWFIELD EXPLORATION  
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 Design: Wellbore #1

Local Co-ordinate Reference: Well L-15-9-15  
 TVD Reference: L-15-9-15 @ 6343.0ft (NDSI #2)  
 MD Reference: L-15-9-15 @ 6343.0ft (NDSI #2)  
 North Reference: True  
 Survey Calculation Method: Minimum Curvature  
 Database: EDM 2003.21 Single User Db

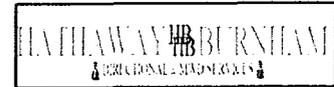
Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
725.0	4.39	321.40	724.7	8.2	-8.1	11.5	1.86	1.84	3.61
755.0	4.59	319.27	754.6	10.0	-9.6	13.8	0.87	0.67	-7.10
786.0	5.01	321.14	785.5	12.0	-11.2	16.4	1.45	1.35	6.03
817.0	5.32	320.68	816.3	14.1	-13.0	19.2	1.01	1.00	-1.48
847.0	5.58	321.84	846.2	16.4	-14.8	22.0	0.94	0.87	3.87
878.0	5.73	319.77	877.1	18.7	-16.7	25.1	0.82	0.48	-6.68
910.0	5.95	322.83	908.9	21.3	-18.7	28.3	1.19	0.69	9.56
941.0	6.13	321.53	939.7	23.8	-20.7	31.6	0.73	0.58	-4.19
973.0	6.55	318.81	971.5	26.5	-23.0	35.1	1.61	1.31	-8.50
1,005.0	6.97	317.42	1,003.3	29.4	-25.5	38.9	1.41	1.31	-4.34
1,037.0	7.34	316.68	1,035.1	32.3	-28.2	42.9	1.19	1.16	-2.31
1,068.0	7.70	316.94	1,065.8	35.2	-31.0	46.9	1.17	1.16	0.84
1,100.0	8.04	317.62	1,097.5	38.4	-34.0	51.3	1.10	1.06	2.13
1,131.0	8.37	316.61	1,128.2	41.7	-37.0	55.7	1.16	1.06	-3.26
1,163.0	8.79	317.97	1,159.8	45.2	-40.2	60.5	1.46	1.31	4.25
1,195.0	9.25	316.83	1,191.4	48.9	-43.6	65.5	1.54	1.44	-3.56
1,226.0	9.78	314.61	1,222.0	52.6	-47.2	70.6	2.08	1.71	-7.16
1,258.0	9.95	314.08	1,253.5	56.4	-51.1	76.1	0.60	0.53	-1.66
1,290.0	10.17	312.96	1,285.0	60.2	-55.2	81.7	0.92	0.69	-3.50
1,321.0	10.33	313.53	1,315.5	64.0	-59.2	87.2	0.61	0.52	1.84
1,353.0	10.59	313.78	1,347.0	68.0	-63.4	93.0	0.82	0.81	0.78
1,385.0	10.96	312.63	1,378.4	72.1	-67.8	99.0	1.34	1.16	-3.59
1,417.0	11.21	313.20	1,409.8	76.3	-72.3	105.1	0.85	0.78	1.78
1,448.0	11.36	312.85	1,440.2	80.4	-76.7	111.1	0.53	0.48	-1.13
1,480.0	11.58	312.70	1,471.6	84.8	-81.4	117.5	0.69	0.69	-0.47
1,512.0	11.93	314.33	1,502.9	89.3	-86.1	124.0	1.51	1.09	5.09
1,544.0	12.15	314.70	1,534.2	93.9	-90.8	130.7	0.73	0.69	1.16
1,575.0	12.26	314.98	1,564.5	98.6	-95.5	137.2	0.40	0.35	0.90
1,607.0	12.59	315.03	1,595.8	103.4	-100.4	144.1	1.03	1.03	0.16
1,639.0	12.71	315.55	1,627.0	108.4	-105.3	151.1	0.52	0.38	1.63
1,670.0	12.63	314.61	1,657.2	113.2	-110.1	157.9	0.71	-0.26	-3.03
1,765.0	12.39	313.42	1,750.0	127.5	-124.9	178.4	0.37	-0.25	-1.25
1,860.0	12.50	313.62	1,842.8	141.6	-139.7	198.9	0.12	0.12	0.21
1,955.0	12.92	316.04	1,935.4	156.4	-154.6	219.7	0.71	0.44	2.55
2,051.0	12.28	316.70	2,029.1	171.5	-169.0	240.7	0.68	-0.67	0.69
2,146.0	11.71	319.16	2,122.0	186.2	-182.2	260.4	0.81	-0.60	2.59
2,240.0	11.89	320.26	2,214.1	200.8	-194.7	279.6	0.31	0.19	1.17
2,336.0	11.95	318.76	2,308.0	215.9	-207.5	299.4	0.33	0.06	-1.56
2,431.0	12.61	315.23	2,400.8	230.7	-221.3	319.6	1.05	0.69	-3.72
2,526.0	12.44	315.58	2,493.6	245.3	-235.8	340.2	0.20	-0.18	0.37
2,621.0	11.97	316.07	2,586.4	259.7	-249.8	360.3	0.51	-0.49	0.52
2,716.0	11.76	314.85	2,679.4	273.7	-263.5	379.8	0.34	-0.22	-1.28
2,811.0	11.84	317.16	2,772.4	287.6	-277.0	399.2	0.50	0.08	2.43
2,906.0	12.79	317.82	2,865.2	302.6	-290.7	419.5	1.01	1.00	0.69
3,001.0	12.94	317.56	2,957.8	318.2	-304.9	440.7	0.17	0.16	-0.27
3,097.0	13.05	319.16	3,051.3	334.3	-319.2	462.2	0.39	0.11	1.67
3,192.0	12.49	319.04	3,144.0	350.2	-333.0	483.2	0.59	-0.59	-0.13
3,286.0	13.97	315.51	3,235.5	366.0	-347.6	504.7	1.79	1.57	-3.76
3,382.0	13.95	315.95	3,328.7	382.6	-363.8	527.9	0.11	-0.02	0.46
3,477.0	13.69	316.43	3,420.9	398.9	-379.5	550.6	0.30	-0.27	0.51
3,572.0	13.21	318.59	3,513.3	415.2	-394.4	572.7	0.73	-0.51	2.27
3,666.0	12.74	316.19	3,604.9	430.8	-408.7	593.8	0.76	-0.50	-2.55
3,762.0	12.41	315.20	3,698.6	445.7	-423.3	614.6	0.41	-0.34	-1.03
3,857.0	11.65	315.27	3,791.5	459.8	-437.2	634.4	0.80	-0.80	0.07



# HATHAWAY BURNHAM

## Survey Report



**Company:** NEWFIELD EXPLORATION  
**Project:** USGS Myton SW (UT)  
**Site:** SECTION 15 T9S, R15E  
**Well:** L-15-9-15  
**Wellbore:** Wellbore #1  
**Design:** Wellbore #1

**Local Co-ordinate Reference:** Well L-15-9-15  
**TVD Reference:** L-15-9-15 @ 6343.0ft (NDSI #2)  
**MD Reference:** L-15-9-15 @ 6343.0ft (NDSI #2)  
**North Reference:** True  
**Survey Calculation Method:** Minimum Curvature  
**Database:** EDM 2003.21 Single User Db

### Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
3,952.0	11.73	318.48	3,884.5	473.8	-450.4	653.7	0.69	0.08	3.38
4,047.0	11.98	318.48	3,977.5	488.4	-463.3	673.2	0.26	0.26	0.00
4,142.0	12.30	319.40	4,070.4	503.5	-476.4	693.2	0.39	0.34	0.97
4,237.0	11.80	319.05	4,163.3	518.5	-489.4	713.0	0.53	-0.53	-0.37
4,332.0	11.38	317.95	4,256.4	532.8	-502.0	732.1	0.50	-0.44	-1.16
4,428.0	10.83	318.70	4,350.6	546.6	-514.3	750.5	0.59	-0.57	0.78
4,523.0	10.63	318.74	4,443.9	559.9	-526.0	768.2	0.21	-0.21	0.04
4,618.0	11.40	318.72	4,537.1	573.6	-538.0	786.4	0.81	0.81	-0.02
4,713.0	11.40	316.00	4,630.3	587.4	-550.7	805.1	0.57	0.00	-2.86
4,808.0	11.49	313.16	4,723.4	600.6	-564.1	824.0	0.60	0.09	-2.99
4,903.0	11.54	315.23	4,816.5	613.8	-577.7	842.9	0.44	0.05	2.18
4,998.0	11.03	313.75	4,909.6	626.8	-591.0	861.5	0.62	-0.54	-1.56
5,092.0	10.90	313.53	5,001.9	639.2	-603.9	879.3	0.15	-0.14	-0.23
5,188.0	10.61	315.29	5,096.2	651.7	-616.7	897.2	0.46	-0.30	1.83
5,283.0	10.90	318.72	5,189.6	664.7	-628.8	914.9	0.74	0.31	3.61
5,292.1	10.80	318.54	5,198.5	666.0	-629.9	916.6	1.20	-1.14	-1.94
<b>L-15-9-15 TGT</b>									
5,378.0	9.82	316.70	5,283.0	677.3	-640.3	932.0	1.20	-1.14	-2.15
5,473.0	9.45	320.24	5,376.7	689.2	-650.8	947.9	0.74	-0.39	3.73
5,568.0	9.01	317.84	5,470.4	700.7	-660.8	963.1	0.62	-0.46	-2.53
5,663.0	10.52	324.74	5,564.1	713.3	-670.8	979.2	2.01	1.59	7.26
5,758.0	10.17	320.06	5,657.5	726.8	-681.2	996.1	0.96	-0.37	-4.93
5,853.0	10.88	319.12	5,750.9	740.1	-692.4	1,013.5	0.77	0.75	-0.99
5,948.0	11.06	319.50	5,844.2	753.8	-704.2	1,031.5	0.20	0.19	0.40
6,044.0	10.48	319.44	5,938.5	767.4	-715.9	1,049.5	0.60	-0.60	-0.06
6,163.0	8.09	316.46	6,055.9	781.7	-728.7	1,068.7	2.05	-2.01	-2.50
6,223.0	6.88	316.46	6,115.4	787.4	-734.1	1,076.5	2.02	-2.02	0.00

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

H      HEADER            INFORMATION -----  
H      COMPANY           :            NEWFIELD EXPLORATION  
H      FIELD             :            USGS     Myton     SW        (UT)  
H      SITE              :            SECTION           15 T9S,     R15E  
H      WELL              :            L-15-9-15  
H      WELLPATH:       Wellbore     #1  
H      DEPTHUNT:       ft  
H      SURVDATE:        6/16/2009  
H      DECLINATION   CORR.  
H      =                            10.8 TO        GRIDH-----

H      WELL            INFORMATION  
H      WELL            EW            MAP       :            2001237  
H      WELL            NS            MAP       :            7181908  
H      DATUM            ELEVN       :            6343  
H      VSECT            ANGLE       :            317.14  
H      VSECT            NORTH       :            0  
H      VSECT            EAST        :            0

H-----  
H      SURVEY            TYPE            INFORMATION  
H                        358 -            6223 SURVEY    #1            :            MWD  
H-----

H	SURVEY	LIST	INFORMATION					
MD	INC	AZI	TVD	NS	EW	VS	DLS	
	0	0	0	0	0	0	0	
	358	0.31	169.06	358	-0.95	0.18	-0.82	0.09
	388	0.2	222.06	388	-1.07	0.16	-0.9	0.83
	419	0.24	279.45	419	-1.1	0.06	-0.85	0.69
	450	0.48	298.22	450	-1.03	-0.11	-0.67	0.85
	480	0.97	306.57	479.99	-0.82	-0.43	-0.31	1.67
	511	1.27	319.77	510.99	-0.4	-0.86	0.29	1.27
	541	1.98	317.82	540.98	0.24	-1.42	1.15	2.37
	572	2.48	318.91	571.95	1.14	-2.23	2.35	1.62
	602	3.01	320.39	601.92	2.24	-3.15	3.79	1.78
	633	3.23	320.83	632.87	3.54	-4.22	5.47	0.71
	664	3.6	319.42	663.82	4.96	-5.41	7.31	1.22
	694	3.82	320.28	693.75	6.44	-6.66	9.25	0.76
	725	4.39	321.4	724.67	8.16	-8.06	11.47	1.86
	755	4.59	319.27	754.58	9.97	-9.56	13.81	0.87
	786	5.01	321.14	785.47	11.97	-11.22	16.4	1.45
	817	5.32	320.68	816.35	14.13	-12.98	19.19	1.01
	847	5.58	321.84	846.21	16.35	-14.76	22.03	0.94
	878	5.73	319.77	877.06	18.72	-16.69	25.08	0.82
	910	5.95	322.83	908.9	21.26	-18.73	28.32	1.19
	941	6.13	321.53	939.72	23.84	-20.73	31.57	0.73
	973	6.55	318.81	971.53	26.55	-22.99	35.1	1.61
	1005	6.97	317.42	1003.31	29.35	-25.51	38.87	1.41
	1037	7.34	316.68	1035.06	32.27	-28.22	42.85	1.19

1068	7.7	316.94	1065.79	35.23	-31	46.91	1.17
1100	8.04	317.62	1097.49	38.45	-33.97	51.29	1.1
1131	8.37	316.61	1128.17	41.69	-36.98	55.71	1.16
1163	8.79	317.97	1159.81	45.2	-40.22	60.49	1.46
1195	9.25	316.83	1191.42	48.89	-43.62	65.5	1.54
1226	9.78	314.61	1221.99	52.55	-47.2	70.63	2.08
1258	9.95	314.08	1253.52	56.39	-51.12	76.1	0.6
1290	10.17	312.96	1285.02	60.23	-55.17	81.68	0.92
1321	10.33	313.53	1315.53	64.01	-59.19	87.18	0.61
1353	10.59	313.78	1347	68.02	-63.39	92.98	0.82
1385	10.96	312.63	1378.43	72.12	-67.75	98.95	1.34
1417	11.21	313.2	1409.84	76.31	-72.26	105.09	0.85
1448	11.36	312.85	1440.24	80.45	-76.69	111.14	0.53
1480	11.58	312.7	1471.6	84.77	-81.36	117.48	0.69
1512	11.93	314.33	1502.93	89.26	-86.09	123.99	1.51
1544	12.15	314.7	1534.22	93.94	-90.85	130.66	0.73
1575	12.26	314.98	1564.52	98.56	-95.5	137.2	0.4
1607	12.59	315.03	1595.77	103.43	-100.36	144.08	1.03
1639	12.71	315.55	1627	108.41	-105.29	151.09	0.52
1670	12.63	314.61	1657.24	113.22	-110.1	157.88	0.71
1765	12.39	313.42	1749.99	127.52	-124.89	178.43	0.37
1860	12.5	313.62	1842.75	141.62	-139.74	198.86	0.12
1955	12.92	316.04	1935.43	156.36	-154.55	219.74	0.71
2051	12.28	316.7	2029.11	171.51	-169	240.68	0.68
2146	11.71	319.16	2122.04	186.16	-182.24	260.42	0.81
2240	11.89	320.26	2214.05	200.82	-194.67	279.62	0.31
2336	11.95	318.76	2307.98	215.9	-207.54	299.43	0.33
2431	12.61	315.23	2400.81	230.66	-221.33	319.63	1.05
2526	12.44	315.58	2493.55	245.33	-235.79	340.22	0.2
2621	11.97	316.07	2586.4	259.73	-249.79	360.3	0.51
2716	11.76	314.85	2679.37	273.66	-263.49	379.82	0.34
2811	11.84	317.16	2772.37	287.63	-276.98	399.24	0.5
2906	12.79	317.82	2865.18	302.57	-290.67	419.5	1.01
3001	12.94	317.56	2957.79	318.21	-304.9	440.65	0.17
3097	13.05	319.16	3051.34	334.34	-319.25	462.23	0.39
3192	12.49	319.04	3143.99	350.21	-332.99	483.22	0.59
3286	13.97	315.51	3235.49	365.99	-347.61	504.72	1.79
3382	13.95	315.95	3328.65	382.57	-363.78	527.87	0.11
3477	13.69	316.43	3420.9	398.94	-379.49	550.56	0.3
3572	13.21	318.59	3513.3	415.23	-394.41	572.66	0.73
3666	12.74	316.19	3604.9	430.77	-408.69	593.76	0.76
3762	12.41	315.2	3698.6	445.72	-423.29	614.65	0.41
3857	11.65	315.27	3791.51	459.78	-437.23	634.44	0.8
3952	11.73	318.48	3884.54	473.83	-450.39	653.68	0.69
4047	11.98	318.48	3977.51	488.44	-463.32	673.19	0.26
4142	12.3	319.4	4070.39	503.5	-476.44	693.16	0.39
4237	11.8	319.05	4163.3	518.52	-489.39	712.98	0.53

4332	11.38	317.95	4256.36	532.82	-502.04	732.06	0.5
4428	10.83	318.7	4350.56	546.63	-514.33	750.54	0.59
4523	10.63	318.74	4443.9	559.92	-526	768.22	0.21
4618	11.4	318.72	4537.15	573.56	-537.98	786.37	0.81
4713	11.4	316	4630.28	587.37	-550.69	805.14	0.57
4808	11.49	313.16	4723.39	600.6	-564.12	823.97	0.6
4903	11.54	315.23	4816.48	613.82	-577.71	842.9	0.44
4998	11.03	313.75	4909.64	626.85	-590.97	861.47	0.62
5092	10.9	313.53	5001.92	639.19	-603.91	879.32	0.15
5188	10.61	315.29	5096.24	651.72	-616.71	897.21	0.46
5283	10.9	318.72	5189.57	664.69	-628.78	914.93	0.74
5378	9.82	316.7	5283.02	677.33	-640.27	932.01	1.2
5473	9.45	320.24	5376.68	689.22	-650.81	947.9	0.74
5568	9.01	317.84	5470.45	700.73	-660.79	963.13	0.62
5663	10.52	324.74	5564.07	713.33	-670.79	979.16	2.01
5758	10.17	320.06	5657.53	726.84	-681.18	996.13	0.96
5853	10.88	319.12	5750.93	740.05	-692.44	1013.47	0.77
5948	11.06	319.5	5844.2	753.76	-704.22	1031.54	0.2
6044	10.48	319.44	5938.5	767.39	-715.88	1049.46	0.6
6163	8.09	316.46	6055.94	781.69	-728.69	1068.65	2.05
6223	6.88	316.46	6115.43	787.35	-734.07	1076.47	2.02