

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-096547
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. Jonah Unit
3a. Address Route #3 Box 3630, Myton UT 84052		8. Lease Name and Well No. Jonah Federal X-11-9-16
3b. Phone No. (include area code) (435) 646-3721		9. API Well No. 43-013-34082
4. Location of Well (Report location clearly and in accordance with any State requirements. *) At surface SW/SW 1031' FSL 438' FWL At proposed prod. zone 260' FSL 1170' FWL		10. Field and Pool, or Exploratory Monument Butte
14. Distance in miles and direction from nearest town or post office* Approximatley 15.7 miles south of Myton, Utah		11. Sec., T., R., M., or Blk. and Survey or Area Sec. 11, T9S R16E
15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any) Approx. 1170' f/ise, 3810' f/unit	16. No. of Acres in lease 600.00	17. Spacing Unit dedicated to this well 20 Acres
18. Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft. Approx. 1512'	19. Proposed Depth 6095'	20. BLM/BIA Bond No. on file WYB000493
21. Elevations (Show whether DF, KDB, RT, GL, etc.) 5665' GL	22. Approximate date work will start* 4th Quarter 2008	23. Estimated duration Approximately seven (7) days from spud to rig release.

24. Attachments

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

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

25. Signature 	Name (Printed/Typed) Mandie Crozier	Date 8/27/08
Title Regulatory Specialist		
Approved by (Signature) 	Name (Printed/Typed)	Date 09-17-08
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)

Surf

577310X  
4432478Y  
40.040878  
-110.093794

BHL  
577537X  
4432246Y  
40.038768  
-110.091164

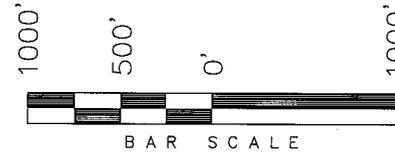
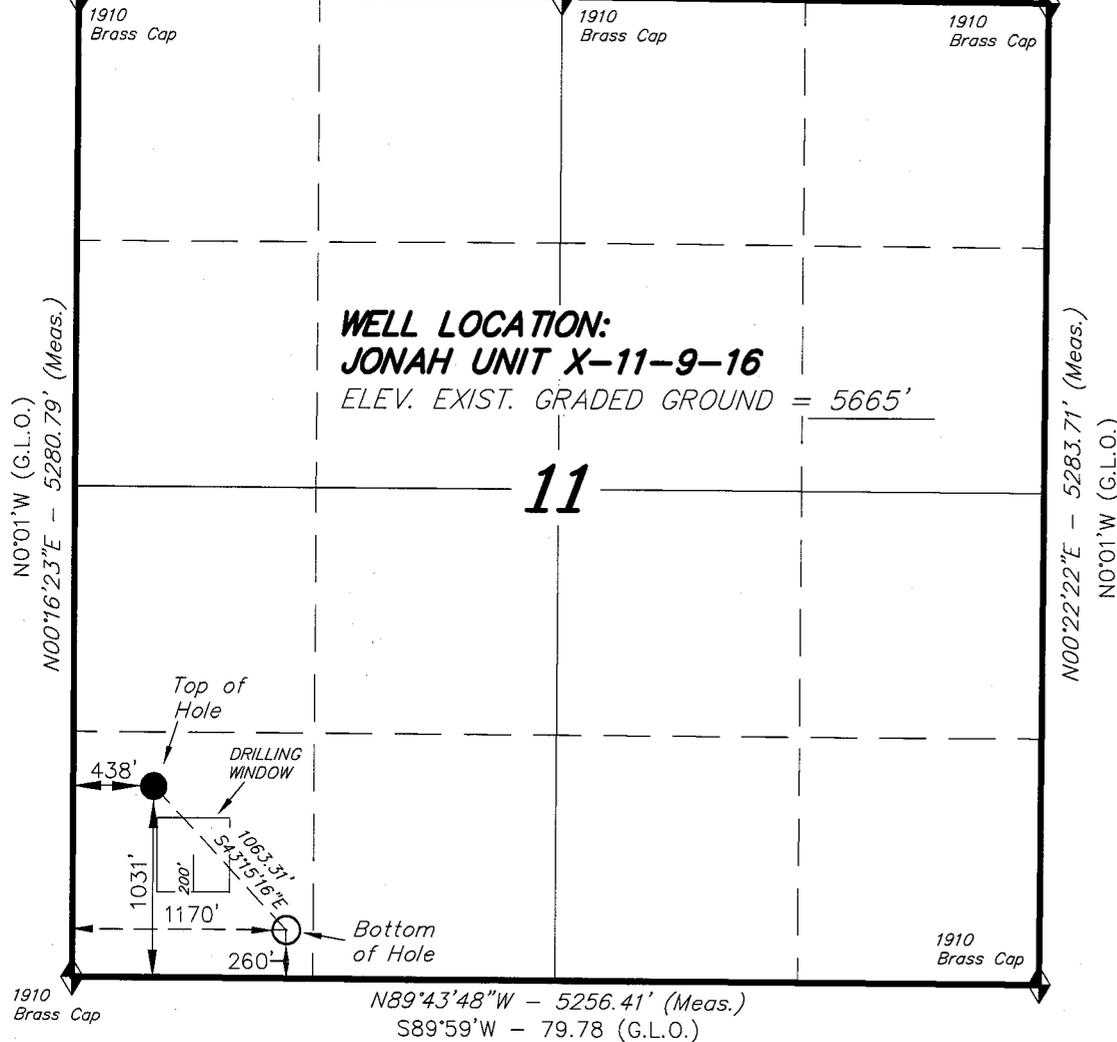
RECEIVED  
SEP 08 2008  
DIV. OF OIL, GAS & MINING

# T9S, R16E, S.L.B.&M.

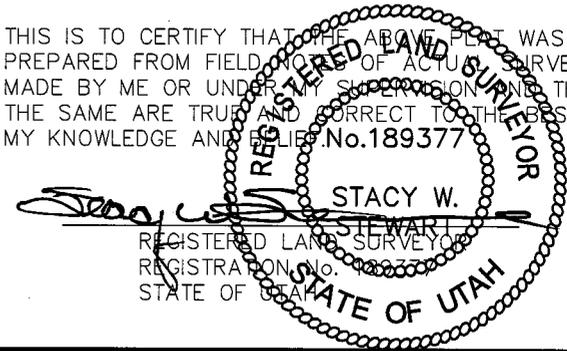
NEWFIELD PRODUCTION COMPANY

2625.56' (Measured) S89°56'W - 79.80 (G.L.O.)  
 S89°56'W G.L.O. (Basis of Bearings) N89°27'31"W - 2640.12' (Meas.)

WELL LOCATION, JONAH UNIT X-11-9-16,  
 LOCATED AS SHOWN IN THE SW 1/4 SW  
 1/4 OF SECTION 11, T9S, R16E, S.L.B.&M.  
 DUCHESNE COUNTY, UTAH.



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



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

DATE SURVEYED: 05-21-08	SURVEYED BY: C.M.
DATE DRAWN: 06-05-08	DRAWN BY: F.T.M.
REVISED: 07-07-08 F.T.M.	SCALE: 1" = 1000'

◆ = SECTION CORNERS LOCATED

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

**JONAH UNIT X-11-9-16**  
 (Surface Location) NAD 83  
 LATITUDE = 40° 02' 27.33"  
 LONGITUDE = 110° 05' 39.97"

**NEWFIELD PRODUCTION COMPANY  
JONAH FEDERAL X-11-9-16  
AT SURFACE: SW/SW SECTION 11, T9S, R16E  
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' – 1507'
Green River	1507'
Wasatch	6095'

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

Green River Formation 1507' – 6095' - 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  
JONAH FEDERAL X-11-9-16  
AT SURFACE: SW/SW SECTION 11, T9S, R16E  
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 Jonah Federal X-11-9-16 located in the SW 1/4 SW 1/4 Section 11, T9S, R16E, Duchesne County, Utah:

Proceed southwesterly out of Myton, Utah along Highway 40 - 1.4 miles  $\pm$  to the junction of this highway and UT State Hwy 53; proceed southeasterly - 10.0 miles  $\pm$  to it's junction with an existing dirt road to the southwest; proceed southwesterly - 4.1 miles  $\pm$  to it's junction with an existing road to the south; proceed southerly - 0.2 miles  $\pm$  to it's junction with the beginning of the access road to the existing Mon. Fed. 14-11J-9-16 well loaction.

**2. PLANNED ACCESS ROAD**

There is no proposed access road for this location. The proposed well will be drilled directionally off of the existing Mon. Fed. 14-11J-9-16 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 Mon. Fed. 14-11J-9-16 well pad. There will be a pumping unit and a short flow line added to the tank battery for the proposed Jonah Federal X-11-9-16. All permanent surface equipment will be painted Carlsbad Canyon.

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

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

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

Johnson Water District  
Water Right: 43-7478

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 Jonah Federal X-11-9-16 will be drilled off of the existing Mon. Fed. 14-11J-9-16 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**

**Water Disposal**

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

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

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

None for the proposed Jonah Federal X-11-9-16.

**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

**Details of the On-Site Inspection**

The proposed Jonah Federal X-11-9-16 was on-sited on 7/16/08. The following were present; Kevan Stevens (Newfield Production ), Michael Cutler (Bureau of Land Management), Brandon McDonald (Bureau of Land Management ), and James Herford (Bureau of Land Management). Weather conditions were clear and ground cover was 100% open.

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

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

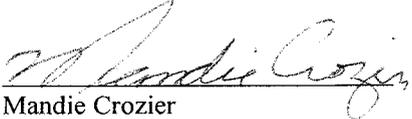
Certification

Please be advised that NEWFIELD PRODUCTION COMPANY is considered to be the operator of well #X-11-9-16 SW/SW Section 11, Township 9S, Range 16E: Lease UTU-096547 Duchesne County, Utah: and is responsible under the terms and conditions of the lease for the operations conducted upon the leased lands. Bond coverage is provided by, Federal Bond #WYB000493.

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

8/27/08

Date



Mandie Crozier  
Regulatory Specialist  
Newfield Production Company



**Scientific Drilling**  
Rocky Mountain Operations

Project: Duchesne County, UT NAD83 UTC  
Site: Jonah Unit  
Well: Jonah Unit X-11-9-16  
Wellbore: OH  
Design: Plan #1

New World Exploration Co.

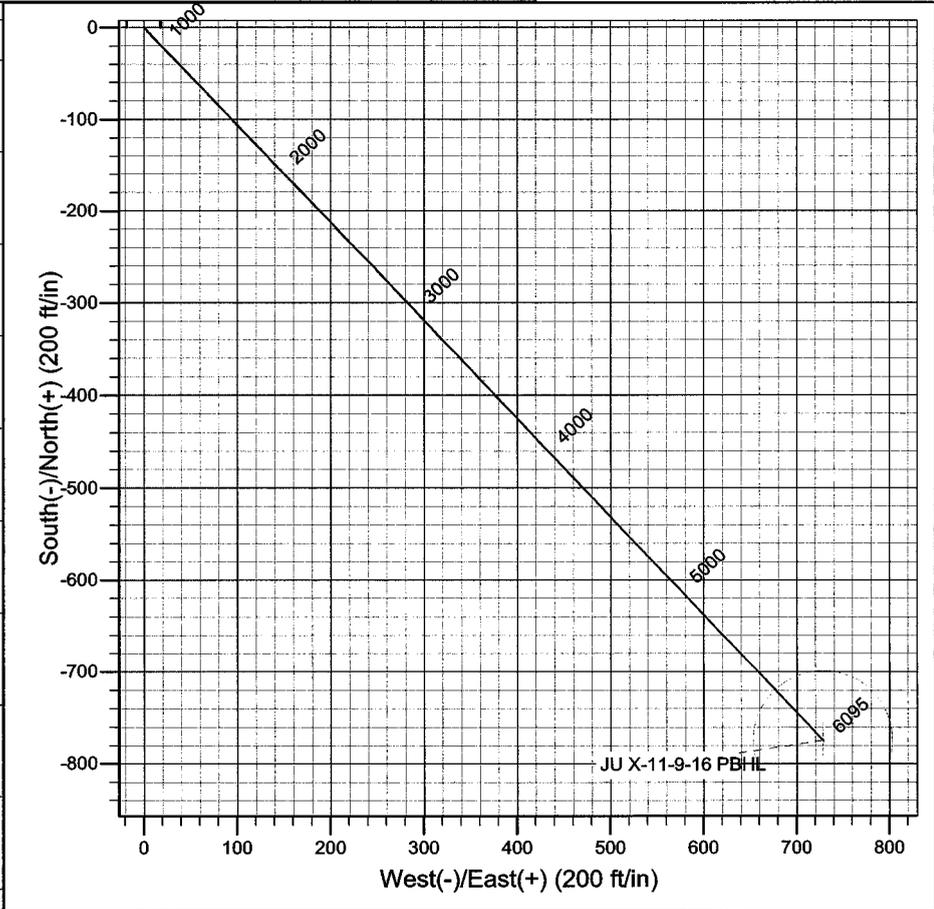
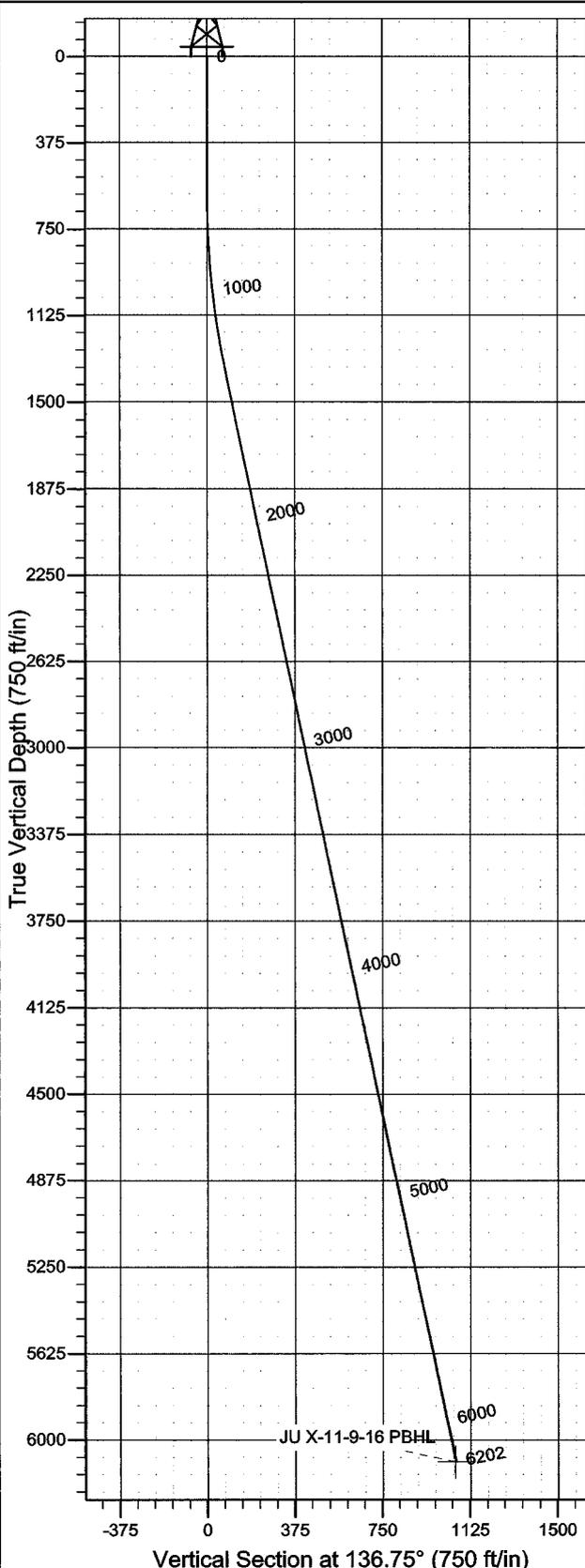


Azimuths to True North  
Magnetic North: 11.68°

Magnetic Field  
Strength: 52575.2snT  
Dip Angle: 65.87°  
Date: 2008/07/18  
Model: IGRF2005-10

WELL DETAILS: Jonah Unit X-11-9-16

GL 5665' & RKB 12' @ 5677.00ft 5665.00  
+N/-S    +E/-W    Northing    Easting    Latitude    Longitude  
0.00    0.00    7186736.95    2033919.08    40° 2' 27.330 N    110° 5' 39.970 W



Plan: Plan #1 (Jonah Unit X-11-9-16/OH)  
Created By: Julie Cruse    Date: 2008-07-18  
PROJECT DETAILS: Duchesne County, UT NAD83 UTC  
Geodetic System: US State Plane 1983  
Datum: North American Datum 1983  
Ellipsoid: GRS 1980  
Zone: Utah Central Zone  
Location:  
System Datum: Mean Sea Level  
Local North: True

SECTION DETAILS

MD	Inc	Azi	TVD	+N/-S	+E/-W	DLeg	TFace	VSec	Target
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
600.00	0.00	0.00	600.00	0.00	0.00	0.00	0.00	0.00	
1384.96	11.77	136.75	1379.45	-58.54	55.07	1.50	136.75	80.37	
6201.87	11.77	136.75	6095.00	-774.48	728.56	0.00	0.001063.31		JU X-11-9-16 PBHL

# **Newfield Exploration Co.**

**Duchesne County, UT NAD83 UTC**

**Jonah Unit**

**Jonah Unit X-11-9-16**

**OH**

**Plan: Plan #1**

## **Standard Planning Report**

**18 July, 2008**

# Scientific Drilling

## Planning Report

**Database:** EDM 2003.16 Multi-User Db  
**Company:** Newfield Exploration Co.  
**Project:** Duchesne County, UT NAD83 UTC  
**Site:** Jonah Unit  
**Well:** Jonah Unit X-11-9-16  
**Wellbore:** OH  
**Design:** Plan #1

**Local Co-ordinate Reference:** Well Jonah Unit X-11-9-16  
**TVD Reference:** GL 5665' & RKB 12' @ 5677.00ft  
**MD Reference:** GL 5665' & RKB 12' @ 5677.00ft  
**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>	Jonah Unit,				
<b>Site Position:</b>		<b>Northing:</b>	7,195,384.71 ft	<b>Latitude:</b>	40° 3' 51.060 N
<b>From:</b>	Lat/Long	<b>Easting:</b>	2,044,880.81 ft	<b>Longitude:</b>	110° 3' 17.240 W
<b>Position Uncertainty:</b>	0.00 ft	<b>Slot Radius:</b>	in	<b>Grid Convergence:</b>	0.93 °

<b>Well</b>	Jonah Unit X-11-9-16, 1031' FSL 438' FWL Sec 11 T9S R16E					
<b>Well Position</b>	<b>+N/-S</b>	0.00 ft	<b>Northing:</b>	7,186,736.95 ft	<b>Latitude:</b>	40° 2' 27.330 N
	<b>+E/-W</b>	0.00 ft	<b>Easting:</b>	2,033,919.08 ft	<b>Longitude:</b>	110° 5' 39.970 W
<b>Position Uncertainty</b>		0.00 ft	<b>Wellhead Elevation:</b>	ft	<b>Ground Level:</b>	5,665.00 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	2008/07/18	(°) 11.68	(°) 65.87	(nT) 52,575

<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	136.75	

Plan Sections										
Measured Depth	Inclination	Azimuth	Vertical Depth	+N/-S	+E/-W	Dogleg Rate	Build Rate	Turn Rate	TFO	Target
(ft)	(°)	(°)	(ft)	(ft)	(ft)	(°/100ft)	(°/100ft)	(°/100ft)	(°)	
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	
1,384.96	11.77	136.75	1,379.45	-58.54	55.07	1.50	1.50	0.00	136.75	
6,201.87	11.77	136.75	6,095.00	-774.48	728.56	0.00	0.00	0.00	0.00	JU X-11-9-16 PBHL

# Scientific Drilling

## Planning Report

**Database:** EDM 2003.16 Multi-User Db  
**Company:** Newfield Exploration Co.  
**Project:** Duchesne County, UT NAD83 UTC  
**Site:** Jonah Unit  
**Well:** Jonah Unit X-11-9-16  
**Wellbore:** OH  
**Design:** Plan #1

**Local Co-ordinate Reference:** Well Jonah Unit X-11-9-16  
**TVD Reference:** GL 5665' & RKB 12' @ 5677.00ft  
**MD Reference:** GL 5665' & RKB 12' @ 5677.00ft  
**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	136.75	699.99	-0.95	0.90	1.31	1.50	1.50	0.00
800.00	3.00	136.75	799.91	-3.81	3.59	5.23	1.50	1.50	0.00
900.00	4.50	136.75	899.69	-8.58	8.07	11.77	1.50	1.50	0.00
1,000.00	6.00	136.75	999.27	-15.24	14.34	20.92	1.50	1.50	0.00
1,100.00	7.50	136.75	1,098.57	-23.80	22.39	32.68	1.50	1.50	0.00
1,200.00	9.00	136.75	1,197.54	-34.25	32.22	47.03	1.50	1.50	0.00
1,300.00	10.50	136.75	1,296.09	-46.59	43.83	63.96	1.50	1.50	0.00
1,384.96	11.77	136.75	1,379.45	-58.54	55.07	80.37	1.50	1.50	0.00
1,400.00	11.77	136.75	1,394.17	-60.78	57.17	83.44	0.00	0.00	0.00
1,500.00	11.77	136.75	1,492.07	-75.64	71.15	103.85	0.00	0.00	0.00
1,600.00	11.77	136.75	1,589.96	-90.50	85.14	124.25	0.00	0.00	0.00
1,700.00	11.77	136.75	1,687.86	-105.37	99.12	144.66	0.00	0.00	0.00
1,800.00	11.77	136.75	1,785.75	-120.23	113.10	165.07	0.00	0.00	0.00
1,900.00	11.77	136.75	1,883.65	-135.09	127.08	185.47	0.00	0.00	0.00
2,000.00	11.77	136.75	1,981.55	-149.95	141.06	205.88	0.00	0.00	0.00
2,100.00	11.77	136.75	2,079.44	-164.82	155.05	226.28	0.00	0.00	0.00
2,200.00	11.77	136.75	2,177.34	-179.68	169.03	246.69	0.00	0.00	0.00
2,300.00	11.77	136.75	2,275.23	-194.54	183.01	267.09	0.00	0.00	0.00
2,400.00	11.77	136.75	2,373.13	-209.41	196.99	287.50	0.00	0.00	0.00
2,500.00	11.77	136.75	2,471.02	-224.27	210.97	307.91	0.00	0.00	0.00
2,600.00	11.77	136.75	2,568.92	-239.13	224.95	328.31	0.00	0.00	0.00
2,700.00	11.77	136.75	2,666.82	-254.00	238.94	348.72	0.00	0.00	0.00
2,800.00	11.77	136.75	2,764.71	-268.86	252.92	369.12	0.00	0.00	0.00
2,900.00	11.77	136.75	2,862.61	-283.72	266.90	389.53	0.00	0.00	0.00
3,000.00	11.77	136.75	2,960.50	-298.59	280.88	409.94	0.00	0.00	0.00
3,100.00	11.77	136.75	3,058.40	-313.45	294.86	430.34	0.00	0.00	0.00
3,200.00	11.77	136.75	3,156.30	-328.31	308.85	450.75	0.00	0.00	0.00
3,300.00	11.77	136.75	3,254.19	-343.18	322.83	471.15	0.00	0.00	0.00
3,400.00	11.77	136.75	3,352.09	-358.04	336.81	491.56	0.00	0.00	0.00
3,500.00	11.77	136.75	3,449.98	-372.90	350.79	511.97	0.00	0.00	0.00
3,600.00	11.77	136.75	3,547.88	-387.76	364.77	532.37	0.00	0.00	0.00
3,700.00	11.77	136.75	3,645.77	-402.63	378.75	552.78	0.00	0.00	0.00
3,800.00	11.77	136.75	3,743.67	-417.49	392.74	573.18	0.00	0.00	0.00
3,900.00	11.77	136.75	3,841.57	-432.35	406.72	593.59	0.00	0.00	0.00
4,000.00	11.77	136.75	3,939.46	-447.22	420.70	614.00	0.00	0.00	0.00
4,100.00	11.77	136.75	4,037.36	-462.08	434.68	634.40	0.00	0.00	0.00
4,200.00	11.77	136.75	4,135.25	-476.94	448.66	654.81	0.00	0.00	0.00
4,300.00	11.77	136.75	4,233.15	-491.81	462.65	675.21	0.00	0.00	0.00
4,400.00	11.77	136.75	4,331.05	-506.67	476.63	695.62	0.00	0.00	0.00
4,500.00	11.77	136.75	4,428.94	-521.53	490.61	716.03	0.00	0.00	0.00
4,600.00	11.77	136.75	4,526.84	-536.40	504.59	736.43	0.00	0.00	0.00
4,700.00	11.77	136.75	4,624.73	-551.26	518.57	756.84	0.00	0.00	0.00
4,800.00	11.77	136.75	4,722.63	-566.12	532.55	777.24	0.00	0.00	0.00
4,900.00	11.77	136.75	4,820.52	-580.99	546.54	797.65	0.00	0.00	0.00
5,000.00	11.77	136.75	4,918.42	-595.85	560.52	818.06	0.00	0.00	0.00
5,100.00	11.77	136.75	5,016.32	-610.71	574.50	838.46	0.00	0.00	0.00
5,200.00	11.77	136.75	5,114.21	-625.58	588.48	858.87	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:** Jonah Unit  
**Well:** Jonah Unit X-11-9-16  
**Wellbore:** OH  
**Design:** Plan #1

**Local Co-ordinate Reference:** Well Jonah Unit X-11-9-16  
**TVD Reference:** GL 5665' & RKB 12' @ 5677.00ft  
**MD Reference:** GL 5665' & RKB 12' @ 5677.00ft  
**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	11.77	136.75	5,212.11	-640.44	602.46	879.27	0.00	0.00	0.00
5,400.00	11.77	136.75	5,310.00	-655.30	616.45	899.68	0.00	0.00	0.00
5,500.00	11.77	136.75	5,407.90	-670.16	630.43	920.09	0.00	0.00	0.00
5,600.00	11.77	136.75	5,505.80	-685.03	644.41	940.49	0.00	0.00	0.00
5,700.00	11.77	136.75	5,603.69	-699.89	658.39	960.90	0.00	0.00	0.00
5,800.00	11.77	136.75	5,701.59	-714.75	672.37	981.30	0.00	0.00	0.00
5,900.00	11.77	136.75	5,799.48	-729.62	686.36	1,001.71	0.00	0.00	0.00
6,000.00	11.77	136.75	5,897.38	-744.48	700.34	1,022.12	0.00	0.00	0.00
6,100.00	11.77	136.75	5,995.27	-759.34	714.32	1,042.52	0.00	0.00	0.00
6,200.00	11.77	136.75	6,093.17	-774.21	728.30	1,062.93	0.00	0.00	0.00
6,201.87	11.77	136.75	6,095.00	-774.48	728.56	1,063.31	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
JU X-11-9-16 PBHL - plan hits target center - Circle (radius 75.00)	0.00	0.00	6,095.00	-774.48	728.56	7,185,974.01	2,034,659.72	40° 2' 19.675 N	110° 5' 30.602 W

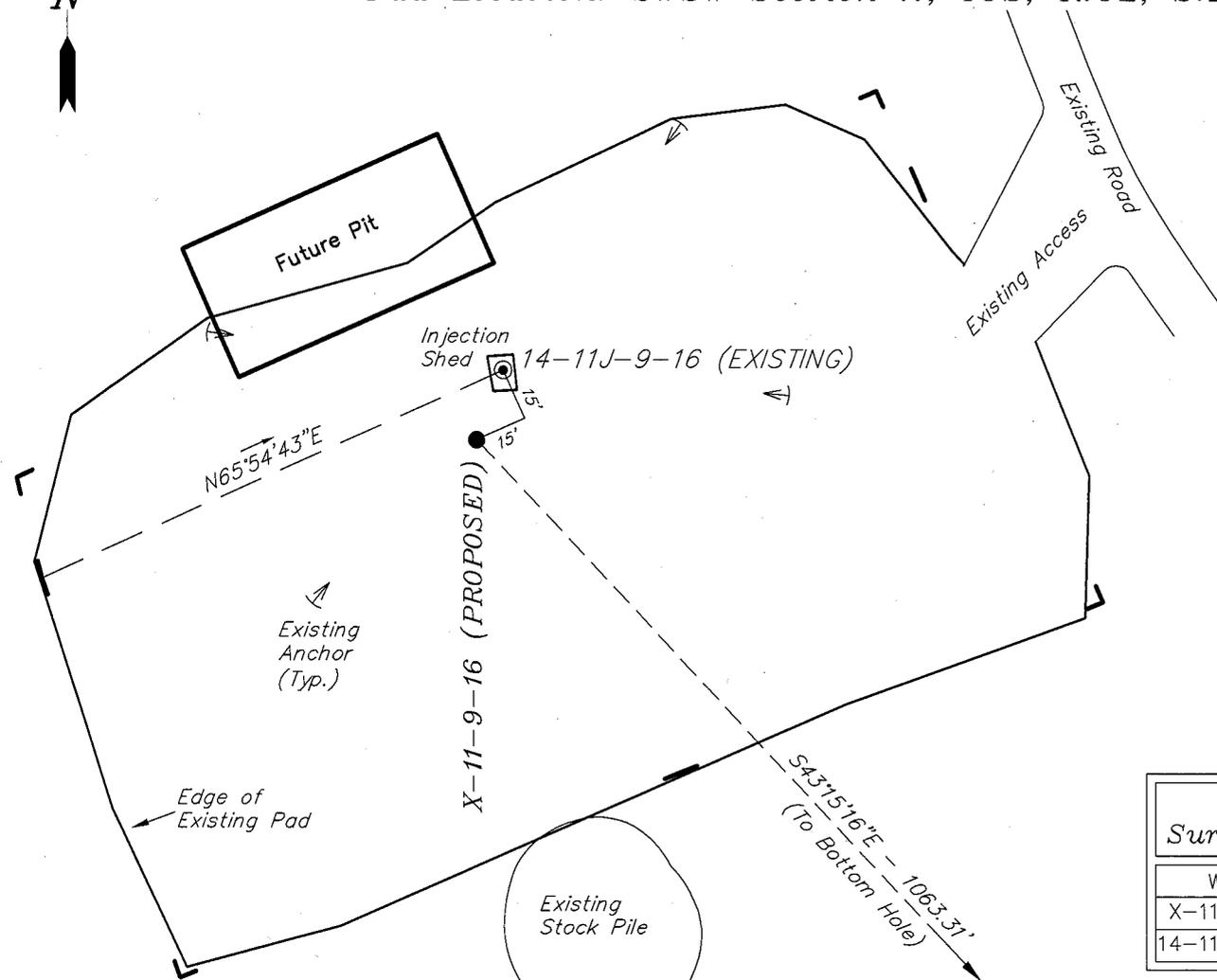
# NEWFIELD PRODUCTION COMPANY

## WELL PAD INTERFERENCE PLAT

JONAH UNIT X-11-9-16 (Proposed Well)

JONAH UNIT 14-11J-9-16 (Existing Well)

Pad Location: SWSW Section 11, T9S, R16E, S.L.B.&M.



### TOP HOLE FOOTAGES

X-11-9-16 (PROPOSED)  
1031' FSL & 438' FWL

### BOTTOM HOLE FOOTAGES

X-11-9-16 (PROPOSED)  
260' FSL & 1170' FWL

### Note:

Bearings are based on GLO Information.

### RELATIVE COORDINATES From top hole to bottom hole

WELL	NORTH	EAST
X-11-9-16	-774'	729'

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

WELL	LATITUDE	LONGITUDE
X-11-9-16	40° 02' 27.33"	110° 05' 39.97"
14-11J-9-16	40° 02' 27.53"	110° 05' 39.88"

SURVEYED BY: C.M.	DATE SURVEYED: 05-21-08
DRAWN BY: F.T.M.	DATE DRAWN: 06-05-08
SCALE: 1" = 50'	REVISED: F.T.M. 07-07-08

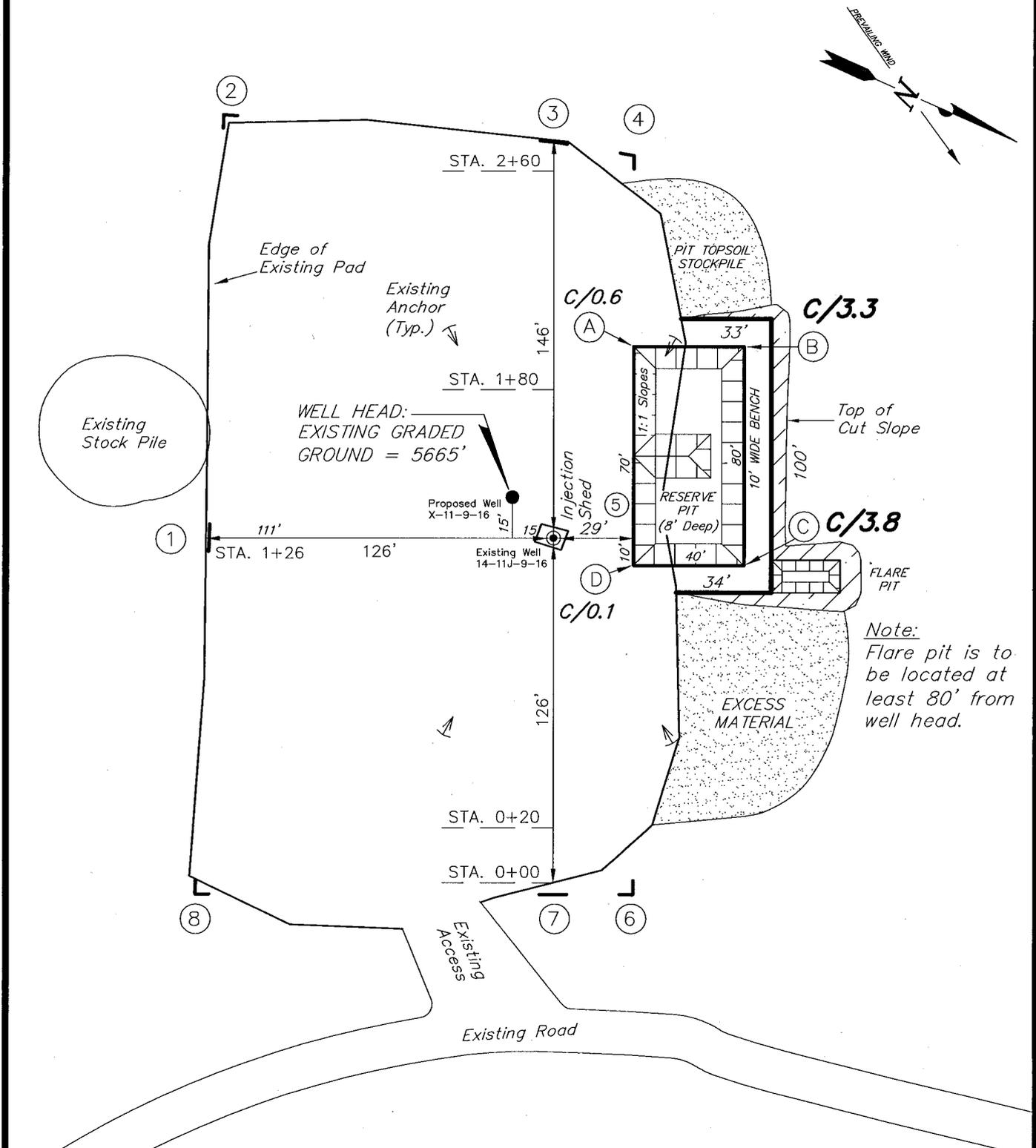
**Tri State** (435) 781-2501  
Land Surveying, Inc.  
180 NORTH VERNAL AVE. VERNAL, UTAH 84078

# NEWFIELD PRODUCTION COMPANY

JONAH UNIT X-11-9-16 (Proposed Well)

JONAH UNIT 14-11J-9-16 (Existing Well)

Pad Location: SWSW Section 11, T9S, R16E, S.L.B.&M.



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

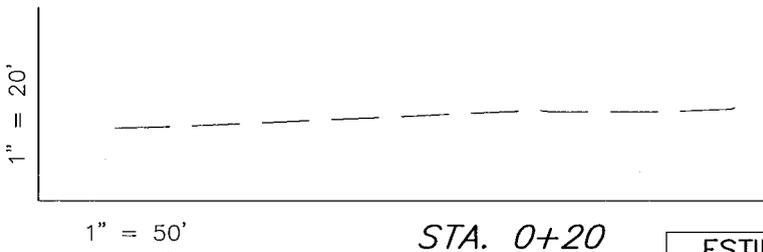
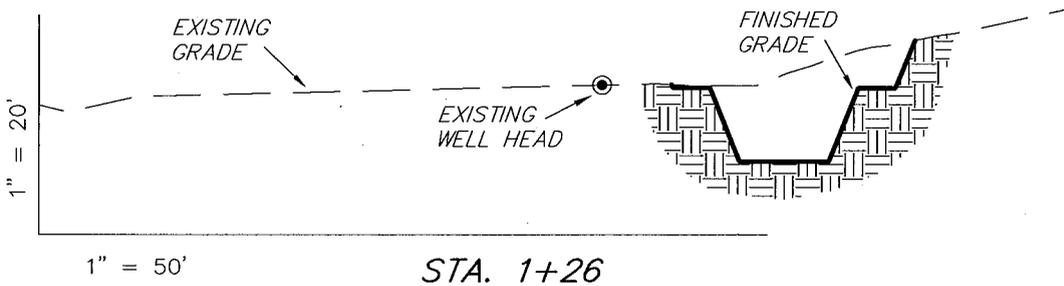
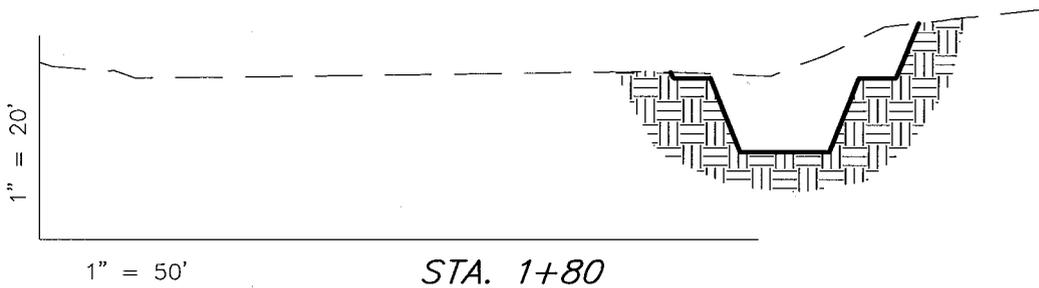
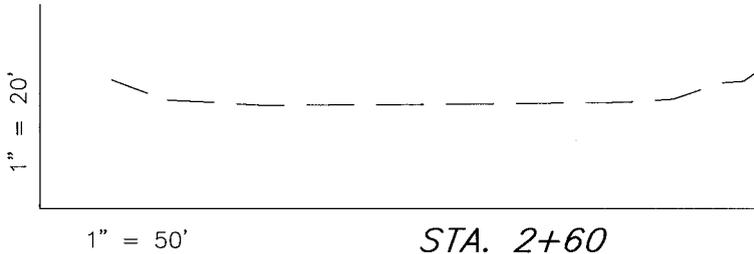
SURVEYED BY: C.M.	DATE SURVEYED: 05-21-08	<p style="font-size: small;">(435) 781-2501 180 NORTH VERNAL AVE. VERNAL, UTAH 84078</p>
DRAWN BY: F.T.M.	DATE DRAWN: 06-05-08	
SCALE: 1" = 50'	REVISED: F.T.M. 07-07-08	

# NEWFIELD PRODUCTION COMPANY

## CROSS SECTIONS

JONAH UNIT X-11-9-16 (Proposed Well)

JONAH UNIT 14-11J-9-16 (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	600	0	Topsoil is not included in Pad Cut	600
PIT	640	0		640
TOTALS	1,240	0	140	1,240

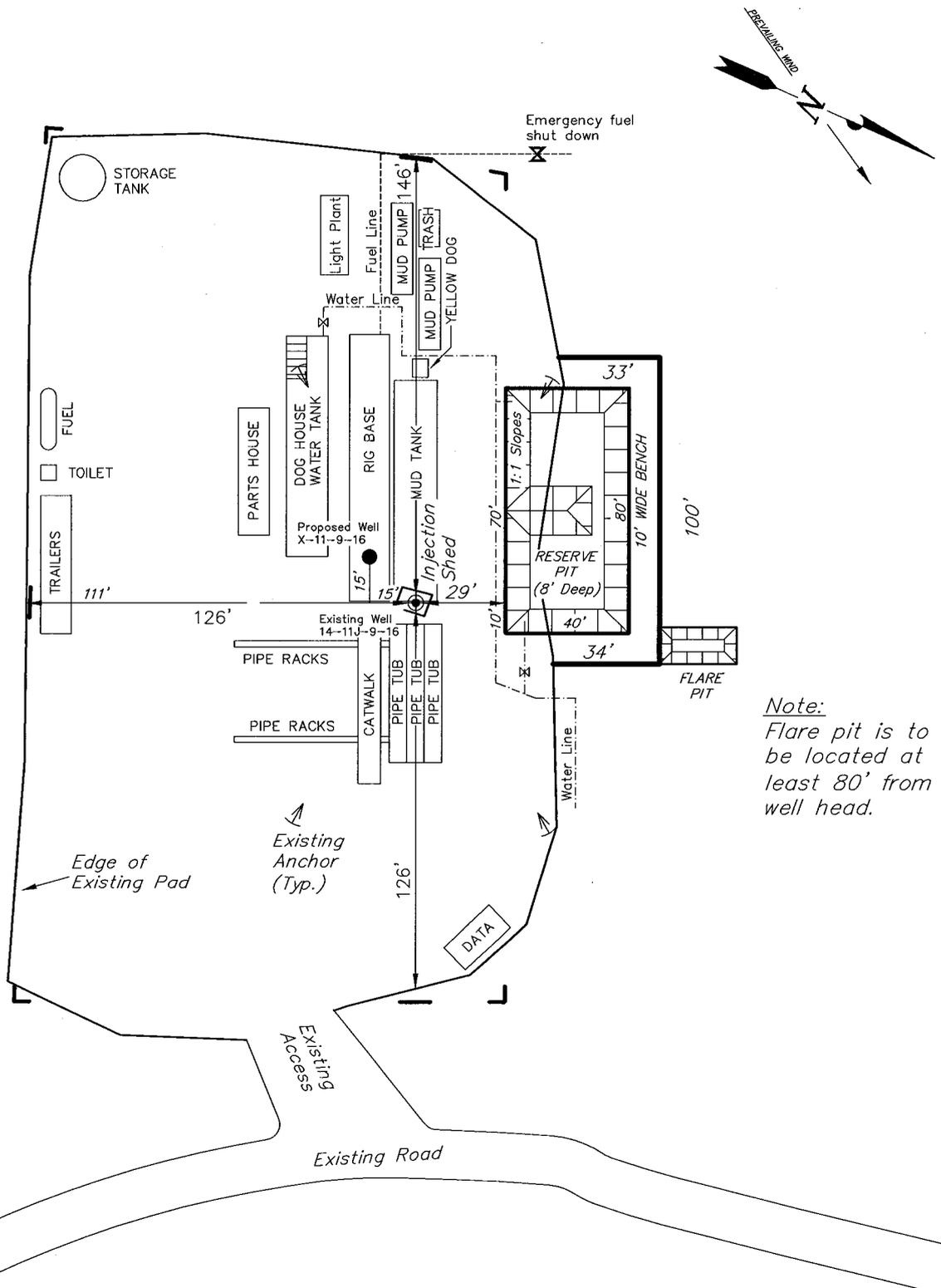
SURVEYED BY: C.M.	DATE SURVEYED: 05-21-08
DRAWN BY: F.T.M.	DATE DRAWN: 06-05-08
SCALE: 1" = 50'	REVISED: F.T.M. 07-07-08

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

# NEWFIELD PRODUCTION COMPANY

## TYPICAL RIG LAYOUT

JONAH UNIT X-11-9-16 (Proposed Well)  
 JONAH UNIT 14-11J-9-16 (Existing Well)



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

SURVEYED BY: C.M.	DATE SURVEYED: 05-21-08
DRAWN BY: F.T.M.	DATE DRAWN: 06-05-08
SCALE: 1" = 50'	REVISED: F.T.M. 07-07-08

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

# ewfield Production Comp<sup>7</sup> Proposed Site Facility Diagram

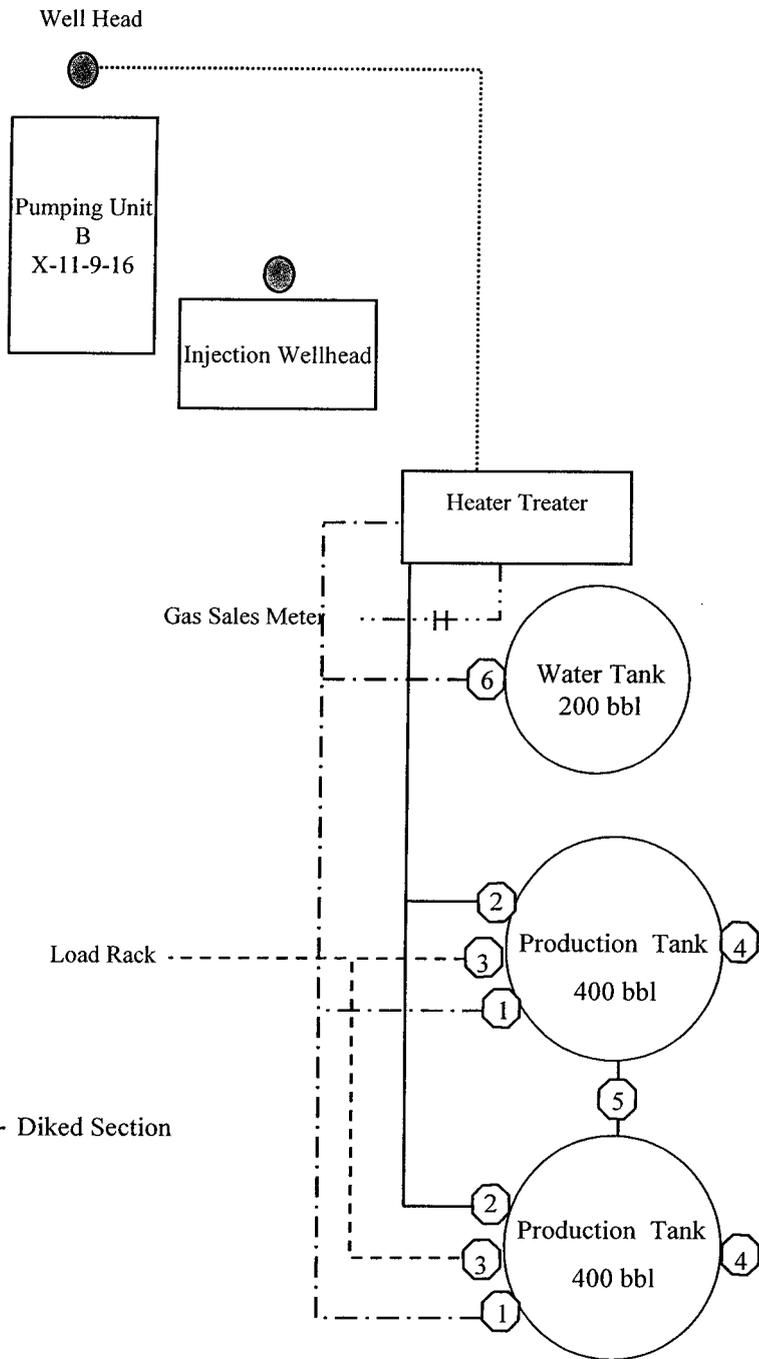
Jonah Federal X-11-9-16

From the 14-11J-9-16 Location

SW/SW Sec. 11 T9S, R16E

Duchesne County, Utah

UTU-096547



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:

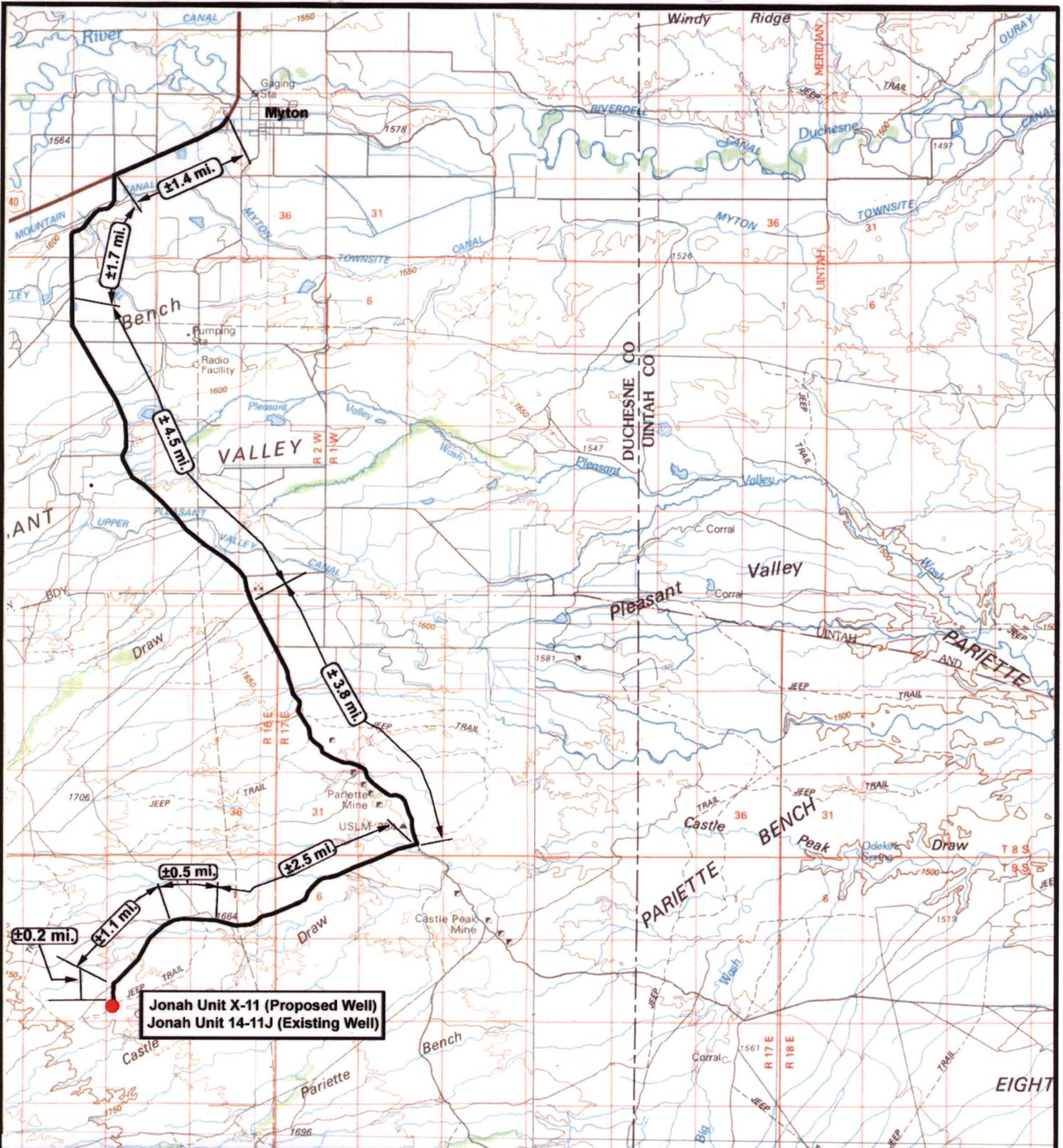
- 1) Valves 1, 2, 4, 5, and 6 sealed closed
- 2) Valve 3 open

### Draining Phase:

- 1) Valves 1 and 6 open

### Legend

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



**Jonah Unit X-11 (Proposed Well)**  
**Jonah Unit 14-11J (Existing Well)**



**NEWFIELD**  
 Exploration Company

**Jonah Unit X-11-9-16 (Proposed Well)**  
**Jonah Unit 14-11J-9-16 (Existing Well)**  
 Pad Location: SWSW SEC. 11, T9S, R16E, 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: JAS  
 DATE: 06-18-2008

**Legend**

Existing Road

TOPOGRAPHIC MAP  
**"A"**



**Jonah Unit X-11 (Proposed Well)**  
**Jonah Unit 14-11J (Existing Well)**



**NEWFIELD**  
 Exploration Company

**Jonah Unit X-11-9-16 (Proposed Well)**  
**Jonah Unit 14-11J-9-16 (Existing Well)**  
 Pad Location SWSW SEC. 11, T9S, R16E, S.L.B.&M.



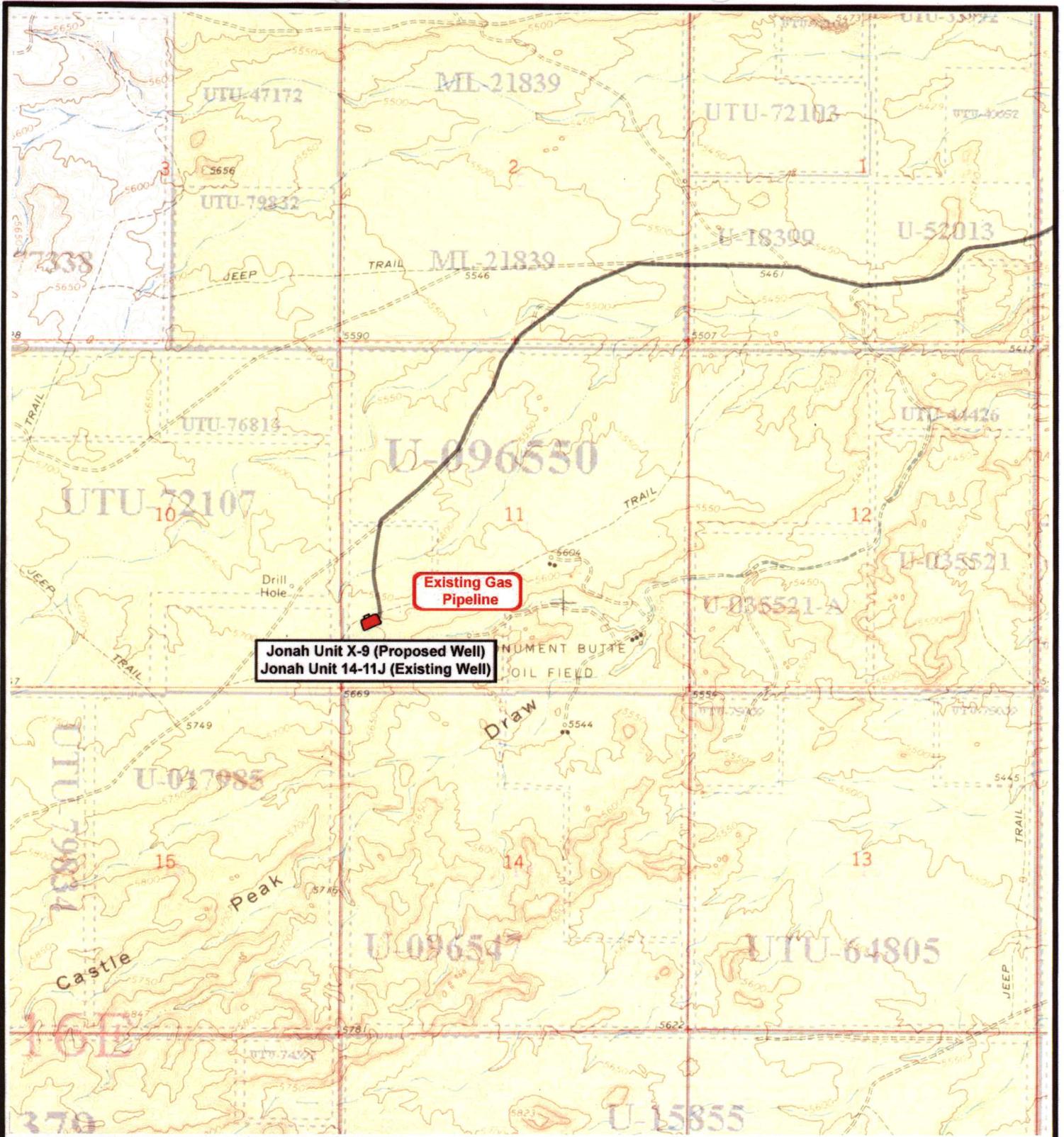

*Tri-State*  
 Land Surveying Inc.  
 (435) 781-2501  
 180 North Vernal Ave. Vernal, Utah 84078

SCALE: 1" = 2,000'  
 DRAWN BY: JAS  
 DATE: 06-18-2008

**Legend**

 Existing Road

TOPOGRAPHIC MAP  
**"B"**



 **NEWFIELD**  
Exploration Company

**Jonah Unit X-11-9-16 (Proposed Well)**  
**Jonah Unit 14-11J-9-16 (Existing Well)**  
Pad Location SWSW SEC. 11, T9S, R16E, S.L.B.&M.



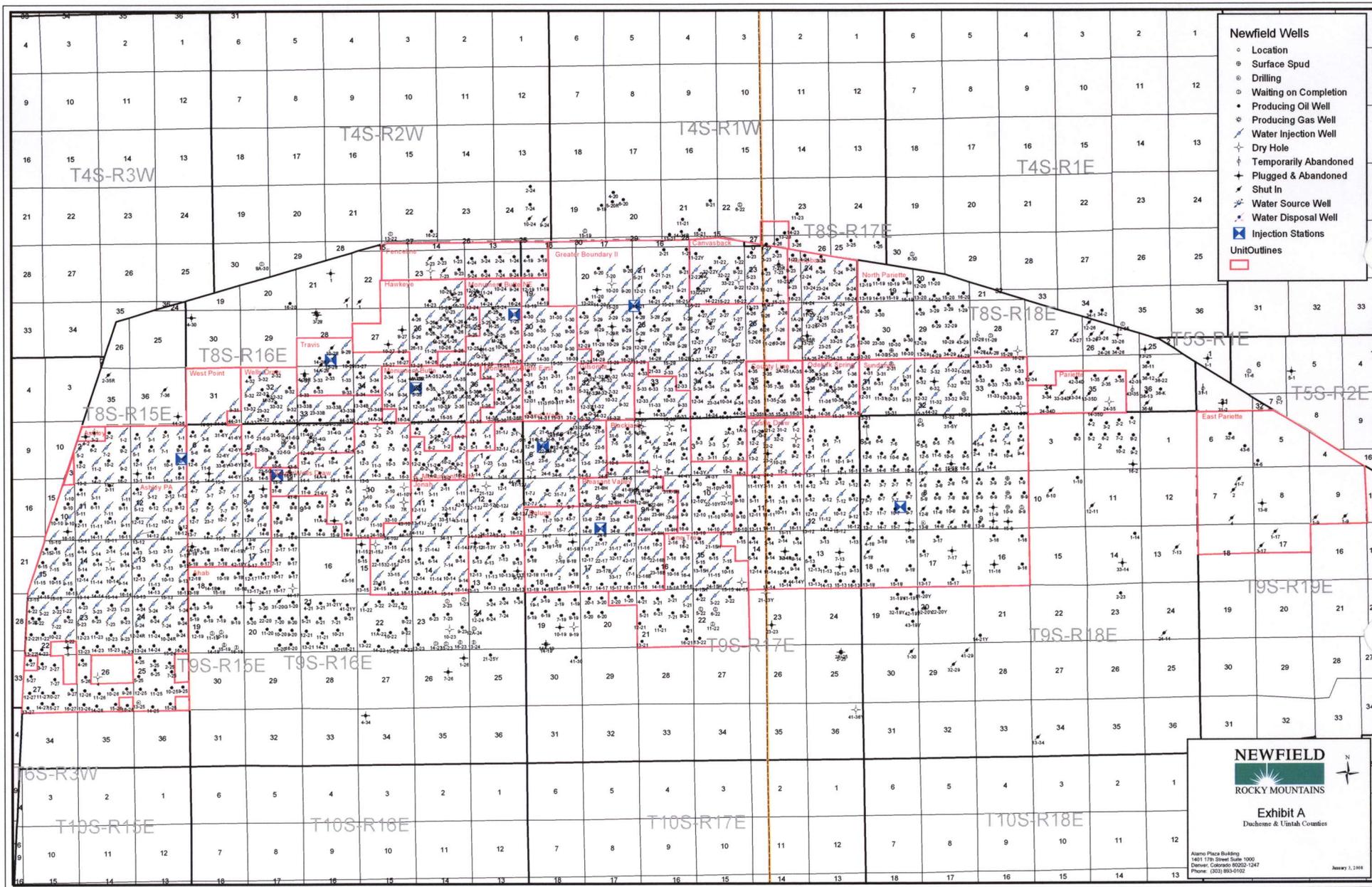
  
**Tri-State**  
Land Surveying Inc.  
(435) 781-2501  
180 North Vernal Ave. Vernal, Utah 84078

SCALE: 1" = 2,000'  
DRAWN BY: JAS  
DATE: 06-18-2008

**Legend**

 Roads

TOPOGRAPHIC MAP  
**"C"**



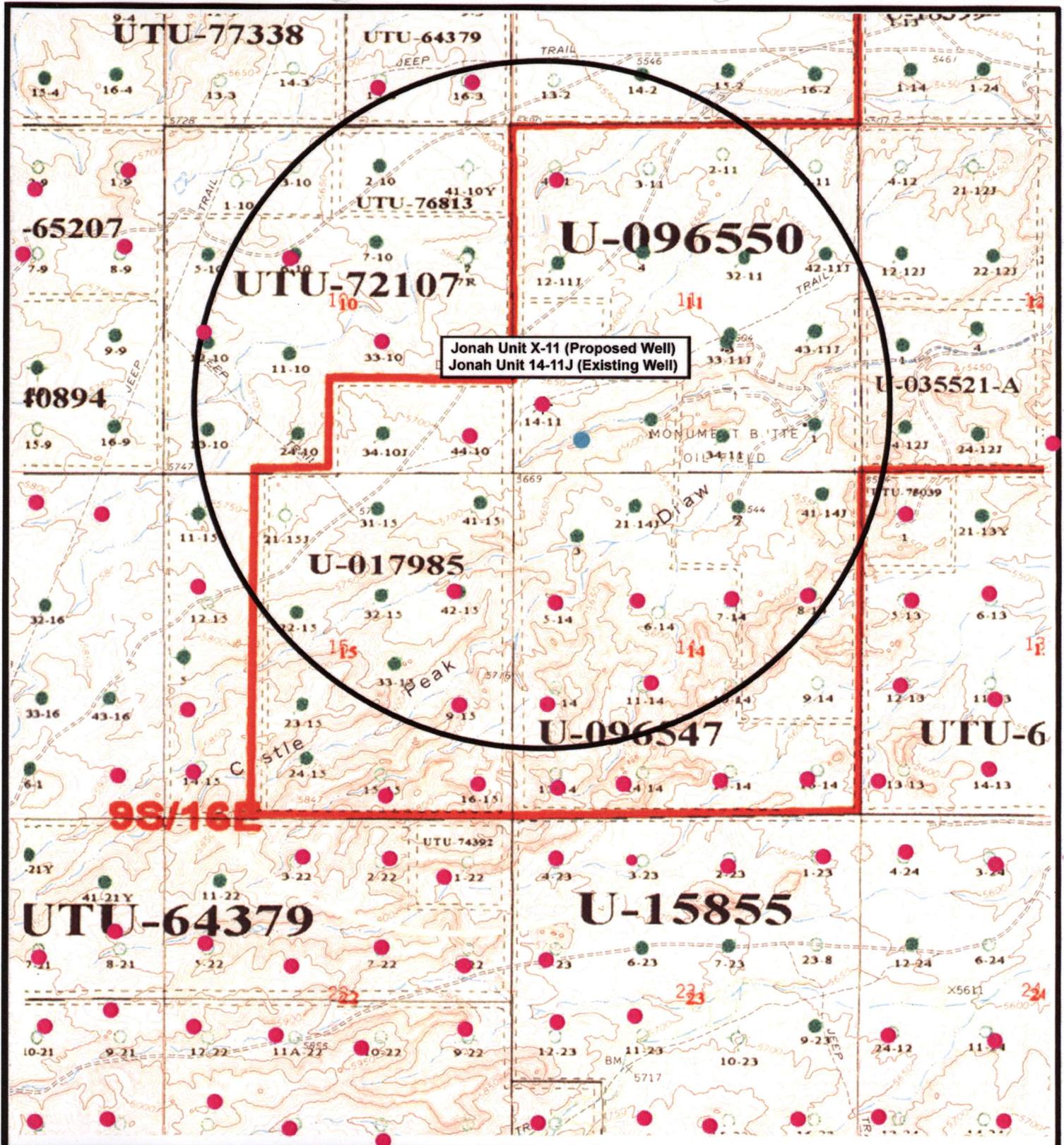
- Newfield Wells**
- Location
  - Surface Spud
  - Drilling
  - Waiting on Completion
  - Producing Oil Well
  - Producing Gas Well
  - ⚡ Water Injection Well
  - ⚡ Dry Hole
  - ⊕ Temporarily Abandoned
  - ⊕ Plugged & Abandoned
  - ⊕ Shut In
  - ⚡ Water Source Well
  - ⚡ Water Disposal Well
  - ⊕ Injection 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) 955-0102

January 7, 2008



Jonah Unit X-11 (Proposed Well)  
 Jonah Unit 14-11J (Existing Well)

9S/16E



**NEWFIELD**  
Exploration Company

---

**Jonah Unit X-11-9-16 (Proposed Well)**  
**Jonah Unit 14-11J-9-16 (Existing Well)**  
 Pad Location SWSW SEC. 11, T9S, R16E, 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: JAS  
 DATE: 06-18-2008

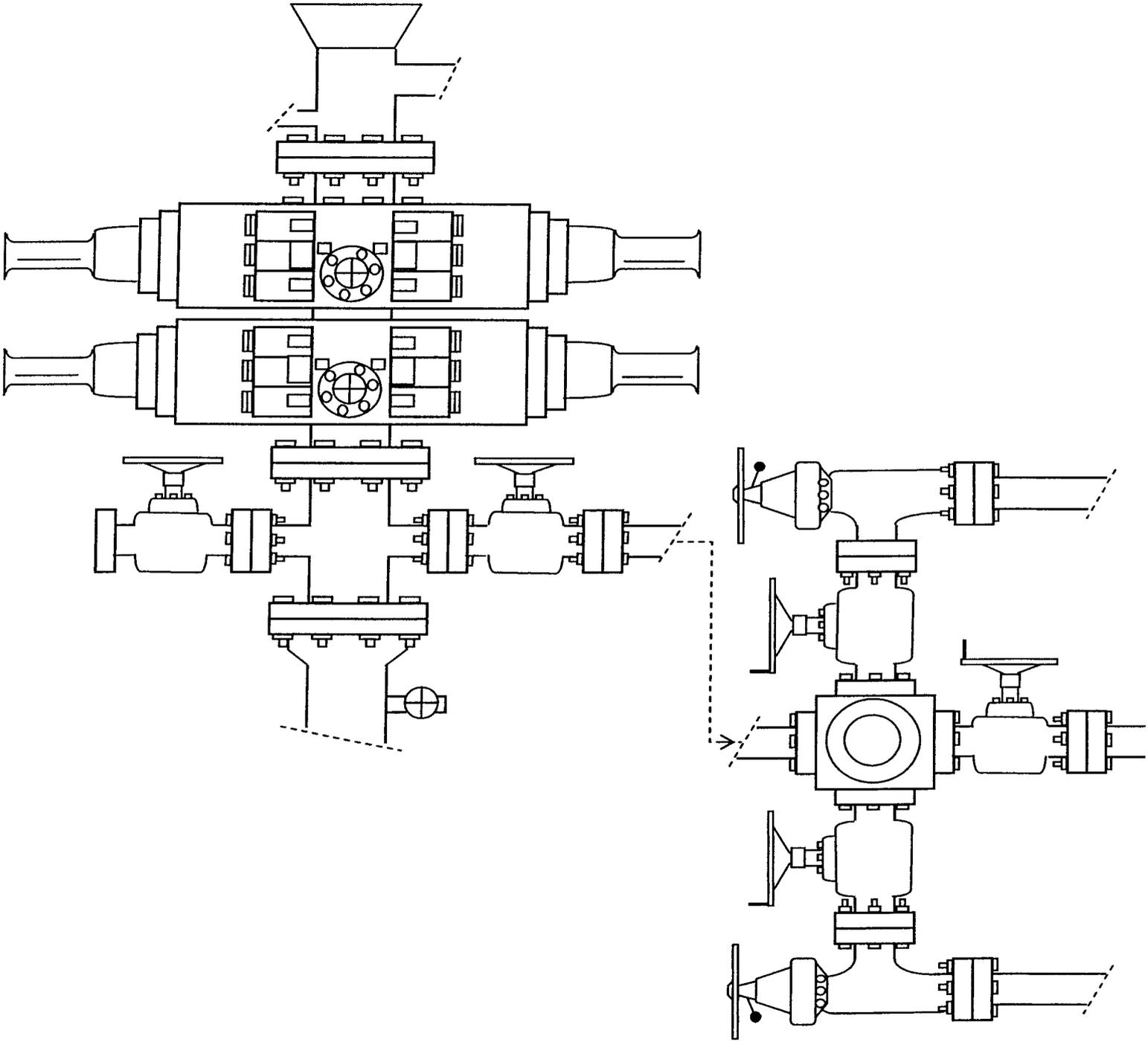
**Legend**

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

---

**Exhibit "B"**

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



**EXHIBIT C**

**WORKSHEET  
APPLICATION FOR PERMIT TO DRILL**

APD RECEIVED: 09/08/2008

API NO. ASSIGNED: 43-013-34082

WELL NAME: JONAH FED X-11-9-16  
 OPERATOR: NEWFIELD PRODUCTION ( N2695 )  
 CONTACT: MANDIE CROZIER

PHONE NUMBER: 435-646-3721

PROPOSED LOCATION:

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

SWSW 11 090S 160E  
 SURFACE: 1031 FSL 0438 FWL  
 BOTTOM: 0260 FSL 1170 FWL  
 COUNTY: DUCHESNE  
 LATITUDE: 40.04088 LONGITUDE: -110.0938  
 UTM SURF EASTINGS: 577310 NORTHINGS: 4432478  
 FIELD NAME: MONUMENT BUTTE ( 105 )

LEASE TYPE: 1 - Federal  
 LEASE NUMBER: UTU-096547  
 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. 43-7478 )
- RDCC Review (Y/N)  
(Date: \_\_\_\_\_ )
- Fee Surf Agreement (Y/N)
- Intent to Commingle (Y/N)

LOCATION AND SITING:

- R649-2-3.
- Unit: JONAH (GRRV)
- R649-3-2. General
- Siting: 460 From Qtr/Qtr & 920' Between Wells
- R649-3-3. Exception
- Drilling Unit
- Board Cause No: 228-2
- Eff Date: 7-16-1993
- Siting: Does not Susceind for Siting
- R649-3-11. Directional Drill

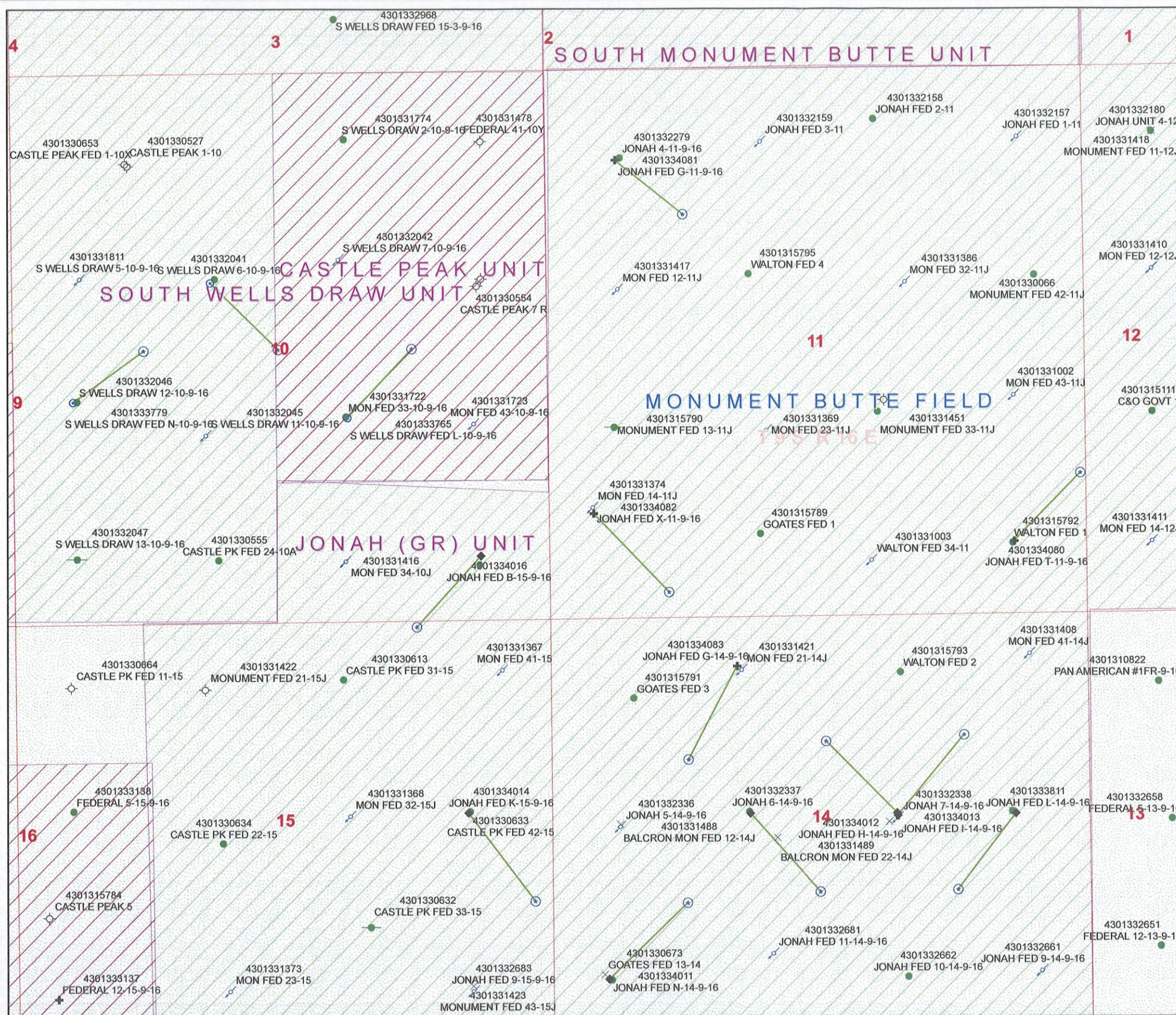
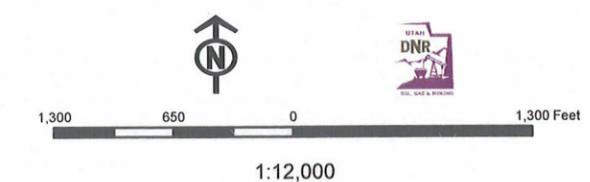
COMMENTS: See Separate file

STIPULATIONS: 1 Federal (Operator)

**API Number: 4301334082**  
**Well Name: JONAH FED X-11-9-16**  
**Township 09.0 S Range 16.0 E Section 11**  
**Meridian: SLBM**  
**Operator: NEWFIELD PRODUCTION COMPANY**

Map Prepared:  
 Map Produced by Diana Mason

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





September 4, 2008

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

RE: Directional Drilling  
**Jonah Federal X-11-9-16**  
Jonah Unit  
UTU-72086A  
Surface Hole: T9S R16E, Section 11: SWSW  
1031' FSL 438' FWL  
Bottom Hole: T9S R16E, Section 11  
260' FSL 1170' FWL  
Duchesne County, Utah

Dear Ms. Mason;

Pursuant to the filing of Newfield Production Company's ("NPC") Application for Permit to Drill dated August 27, 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 Jonah Unit UTU-72086A. Newfield certifies that it is the Jonah Unit Operator and all lands within 460 feet of the entire directional well bore are within the Jonah Unit.

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

NPC hereby requests our application for permit to drill be granted pursuant to R649-3-11. If you have any questions or require further information, please do not hesitate to contact the undersigned at 303-382-4444 or by email at [reveland@newfield.com](mailto:reveland@newfield.com). Your consideration of this matter is greatly appreciated.

Sincerely,

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

Roxann Eveland  
Land Associate

RECEIVED

SEP 08 2008

DIV. OF OIL, GAS & MINING

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

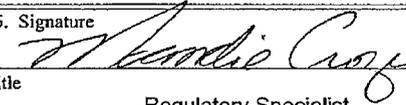
APPLICATION FOR PERMIT TO DRILL OR REENTER

1a. Type of Work: <input checked="" type="checkbox"/> DRILL <input type="checkbox"/> REENTER		5. Lease Serial No. UTU-096547
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. Jonah Unit
3a. Address Route #3 Box 3630, Myton UT 84052		8. Lease Name and Well No. Jonah Federal X-11-9-16
3b. Phone No. (include area code) (435) 646-3721		9. API Well No.
4. Location of Well (Report location clearly and in accordance with any State requirements. *) At surface SWSW 1031' FSL 438' FWL At proposed prod. zone 260' FSL 1170' FWL		10. Field and Pool, or Exploratory Monument Butte
14. Distance in miles and direction from nearest town or post office* Approximatley 15.7 miles south of Myton, Utah		11. Sec., T., R., M., or Blk. and Survey or Area Sec. 11, T9S R16E
15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any) Approx. 1170' f/ise, 3810' f/unit	16. No. of Acres in lease 600.00	17. Spacing Unit dedicated to this well 20 Acres
18. Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft. Approx. 1512'	19. Proposed Depth 6095'	20. BLM/BIA Bond No. on file WYB000493
21. Elevations (Show whether DF, KDB, RT, GL, etc.) 5665' GL	22. Approximate date work will start* 4th Quarter 2008	23. Estimated duration Approximately seven (7) days from spud to rig release.

24. Attachments

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

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

25. Signature 	Name (Printed/Typed) Mandie Crozier	Date 8/27/08
Title Regulatory Specialist		
Approved by (Signature)	Name (Printed/Typed)	Date
Title	Office	

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

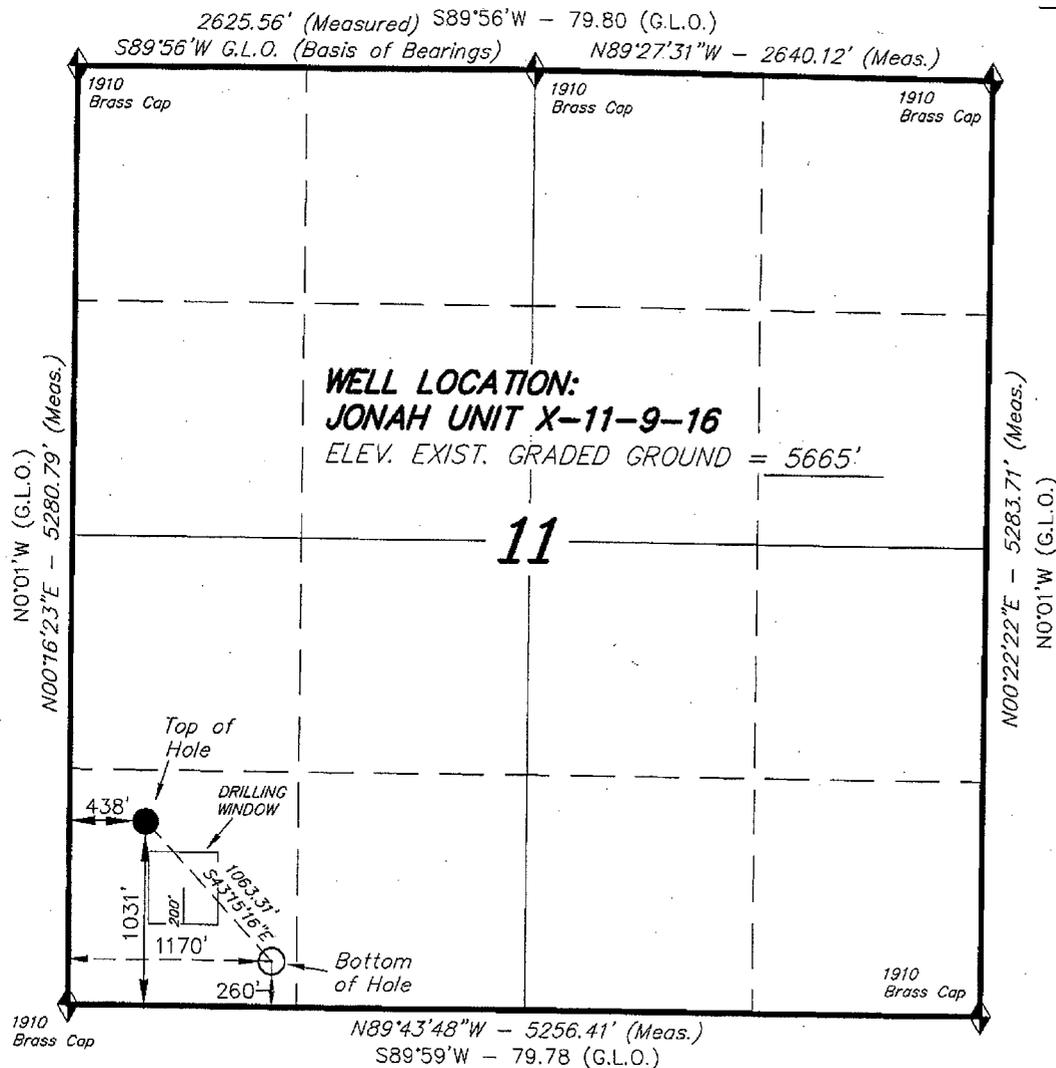
Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

\*(Instructions on reverse)

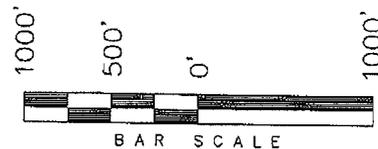
RECEIVED  
SEP 08 2008  
DIV. OF OIL, GAS & MINING

# T9S, R16E, S.L.B.&M.

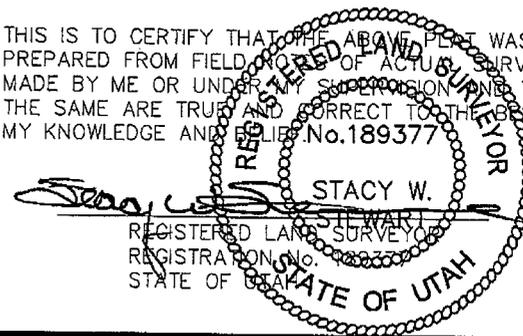
## NEWFIELD PRODUCTION COMPANY



WELL LOCATION, JONAH UNIT X-11-9-16,  
 LOCATED AS SHOWN IN THE SW 1/4 SW  
 1/4 OF SECTION 11, T9S, R16E, S.L.B.&M.  
 DUCHESNE COUNTY, UTAH.



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



◆ = SECTION CORNERS LOCATED

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

JONAH UNIT X-11-9-16  
 (Surface Location) NAD 83  
 LATITUDE = 40° 02' 27.33"  
 LONGITUDE = 110° 05' 39.97"

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

DATE SURVEYED: 05-21-08	SURVEYED BY: C.M.
DATE DRAWN: 06-05-08	DRAWN BY: F.T.M.
REVISED: 07-07-08 F.T.M.	SCALE: 1" = 1000'

# United States Department of the Interior

## BUREAU OF LAND MANAGEMENT

Utah State Office  
P.O. Box 45155  
Salt Lake City, Utah 84145-0155

IN REPLY REFER TO:  
3160  
(UT-922)

September 16, 2008

### Memorandum

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

API #	WELL NAME	LOCATION
(Proposed PZ Green River)		
43-013-34080	Jonah Fed T-11-9-16 Sec 11 T09S R16E 0709 FSL 0725 FEL BHL Sec 11 T09S R16E 1355 FSL 0065 FEL	
43-013-34081	Jonah Fed G-11-9-16 Sec 11 T09S R16E 0851 FNL 0706 FWL BHL Sec 11 T09S R16E 1380 FNL 1365 FWL	
43-013-34082	Jonah Fed X-11-9-16 Sec 11 T09S R16E 1031 FSL 0438 FWL BHL Sec 11 T09S R16E 0260 FSL 1170 FWL	
43-013-34083	Jonah Fed G-14-9-16 Sec 14 T09S R16E 0457 FNL 1827 FWL BHL Sec 14 T09S R16E 1350 FNL 1345 FWL	

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

/s/ Michael L. Coulthard

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



JON M. HUNTSMAN, JR.  
Governor

GARY R. HERBERT  
Lieutenant Governor

# State of Utah

## DEPARTMENT OF NATURAL RESOURCES

MICHAEL R. STYLER  
Executive Director

### Division of Oil, Gas and Mining

JOHN R. BAZA  
Division Director

September 17, 2008

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

Re: Jonah Federal X-11-9-16 Well, Surface Location 1031' FSL, 438' FWL, SW SW, Sec. 11, T. 9 South, R. 16 East, Bottom Location 260' FSL, 1170' FWL, SW SW, Sec. 11, T. 9 South, R. 16 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 43-013-34082.

Sincerely,

Gil Hunt  
Associate Director

pab  
Enclosures

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

**Operator:** Newfield Production Company

**Well Name & Number** Jonah Federal X-11-9-16

**API Number:** 43-013-34082

**Lease:** UTU-096547

**Surface Location:** SW SW      **Sec.** 11      **T.** 9 South      **R.** 16 East

**Bottom Location:** SW SW      **Sec.** 11      **T.** 9 South      **R.** 16 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.

<b>STATE OF UTAH</b> DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING	<b>FORM 9</b>  <b>5. LEASE DESIGNATION AND SERIAL NUMBER:</b> UTU-096547
<b>SUNDRY NOTICES AND REPORTS ON WELLS</b>  Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.	<b>6. IF INDIAN, ALLOTTEE OR TRIBE NAME:</b>  <b>7. UNIT or CA AGREEMENT NAME:</b> JONAH (GRRV)
<b>1. TYPE OF WELL</b> Oil Well	<b>8. WELL NAME and NUMBER:</b> JONAH FED X-11-9-16
<b>2. NAME OF OPERATOR:</b> NEWFIELD PRODUCTION COMPANY	<b>9. API NUMBER:</b> 43013340820000
<b>3. ADDRESS OF OPERATOR:</b> Rt 3 Box 3630 , Myton, UT, 84052	<b>PHONE NUMBER:</b> 435 646-4825 Ext
<b>4. LOCATION OF WELL</b> <b>FOOTAGES AT SURFACE:</b> 1031 FSL 0438 FWL <b>QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:</b> Qtr/Qtr: SWSW Section: 11 Township: 09.0S Range: 16.0E Meridian: S	<b>9. FIELD and POOL or WILDCAT:</b> MONUMENT BUTTE  <b>COUNTY:</b> DUCHESNE  <b>STATE:</b> UTAH

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

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

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

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

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

Date: August 31, 2009

By: 

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



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

- State of Utah
- Department of Natural Resources

Electronic Permitting System - Sundry Notices

**Request for Permit Extension Validation Well Number 43013340820000**

**API:** 43013340820000

**Well Name:** JONAH FED X-11-9-16

**Location:** 1031 FSL 0438 FWL QTR SWSW SEC 11 TWP 090S RNG 160E MER S

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

**Date Original Permit Issued:** 9/17/2008

The undersigned as owner with legal rights to drill on the property as permitted above, hereby verifies that the information as submitted in the previously approved application to drill, remains valid and does not require revision. Following is a checklist of some items related to the application, which should be verified.

- If located on private land, has the ownership changed, if so, has the surface agreement been updated?  Yes  No
- Have any wells been drilled in the vicinity of the proposed well which would affect the spacing or siting requirements for this location?  Yes  No
- Has there been any unit or other agreements put in place that could affect the permitting or operation of this proposed well?  Yes  No
- Have there been any changes to the access route including ownership, or rightof- way, which could affect the proposed location?  Yes  No
- Has the approved source of water for drilling changed?  Yes  No
- Have there been any physical changes to the surface location or access route which will require a change in plans from what was discussed at the onsite evaluation?  Yes  No
- Is bonding still in place, which covers this proposed well?  Yes  No

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

**Signature:** Mandie Crozier

**Date:** 8/31/2009

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

**Date:** August 31, 2009

**By:**

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

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

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

5. Lease Serial No.  
UTU-096547

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

6. If Indian, Allottee or Tribe Name

2. Name of Operator  
NEWFIELD EXPLORATION COMPANY

7. Unit or CA Agreement Name and No.  
GMBU

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

8. Lease Name and Well No.  
JONAH X-11-9-16

4. Location of Well (Report location clearly and in accordance with Federal requirements)\*  
At surface 1031' FSL & 438' FWL (SW/SW) SEC. 11, T9S, R16E (UTU-096547)

9. API Well No.  
43-013-34082

per HSM  
review

10. Field and Pool or Exploratory  
MONUMENT BUTTE

At top prod. interval reported below 443' FSL & 998' FWL (SW/SW) SEC. 11, T9S, R16E (UTU-096547)

11. Sec., T., R., M., on Block and  
Survey or Area SEC. 11, T9S, R16E

At total depth 135' FSL & 1279' FWL (SW/SW) SEC. 11, T9S, R16E (UTU-096547)

12. County or Parish 13. State  
DUCHESNE UT

14. Date Spudded 01/26/2010 15. Date T.D. Reached 02/10/2010 16. Date Completed 02/25/2010  
 D & A  Ready to Prod.

17. Elevations (DF, RKB, RT, GL)\*  
5665' GL 5677' KB

18. Total Depth: MD 6190' TVD 6050' 19. Plug Back T.D.: MD 6161' TVD 6014'

20. Depth Bridge Plug Set: MD TVD

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

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

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

Hole Size	Size/Grade	Wt. (#/ft.)	Top (MD)	Bottom (MD)	Stage Cementer Depth	No. of Sks. & Type of Cement	Slurry Vol. (BBL)	Cement Top*	Amount Pulled
12-1/4"	8-5/8" J-55	24#	0	320'		160 CLASS G			
7-7/8"	5-1/2" J-55	15.5#	0	6182'		275 PRIMLITE		84'	
						400 50/50 POZ			

24. Tubing Record

Size	Depth Set (MD)	Packer Depth (MD)	Size	Depth Set (MD)	Packer Depth (MD)	Size	Depth Set (MD)	Packer Depth (MD)
2-7/8"	EOT@ 6068'	TA @ 6001'						

25. Producing Intervals

Formation	Top	Bottom	Perforated Interval	Size	No. Holes	Perf. Status
A) Green River			6032-6036' - CP5	.36"	3	12
B) Green River			5661-5733'-CP.5 CP1&CP2	.36"	3	30
C) Green River			5262-5272' - A3	.36"	3	30
D) Green River			4922-5033'-D3, B.5 & B1	.36"	3	54

26. Perforation Record 4216

Depth Interval	Amount and Type of Material
6032-6036'	Frac w/ 9446#'s 20/40 sand in 70 bbls of Lightning 17 fluid. (CP5)
5661-5733'	Frac w/ 41029#'s 20/40 sand in 200 bbls of Lightning 17 fluid. (CP.5, CP1, & CP2)
5262-5272'	Frac w/ 35272#'s 20/40 sand in 172 bbls of Lightning 17 fluid. (A3)
4922-5033'	Frac w/ 29462#'s 20/40 sand in 184 bbls of Lightning 17 fluid. (D3, B.5 & B1)

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

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
2-26-10	3-12-10	24	→	85	0	52			2-1/2" x 1-3/4" x 17' x 24' RHAC Pump
Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas/Oil Ratio	Well Status	
			→					PRODUCING	

28a. Production - Interval B

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

RECEIVED

APR 14 2010

\*(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	3734' 3950'
				GARDEN GULCH 2 POINT 3	4062' 4318'
				X MRKR Y MRKR	4598' 4634'
				DOUGALS CREEK MRK BI CARBONATE MRK	4757' 4995'
				B LIMESTON MRK CASTLE PEAK	5120' 5614'
				BASAL CARBONATE	6074'

32. Additional remarks (include plugging procedure):

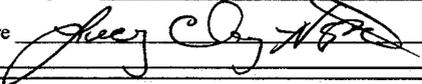
Stage 5: Green River Formation (GB4) 4216-4231' .36" 3/18 Frac w/ 21788#'s of 20/40 sand in 131 bbls of Lightning 17 fluid

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: Drilling Daily Activity

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

Name (please print) Lucy Chavez-Naupoto Title Administrative Assistant

Signature  Date 03/31/2009

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 EXPLORATION**

**USGS Myton SW (UT)**

**SECTION 11**

**X-11-9-16**

**Wellbore #1**

**Design: Wellbore #1**

## **Standard Survey Report**

**11 February, 2010**



# HATHAWAYBURNHAM

## Survey Report

<b>Company:</b>	NEWFIELD EXPLORATION	<b>Local Co-ordinate Reference:</b>	Well X-11-9-16
<b>Project:</b>	USGS Myton SW (UT)	<b>TVD Reference:</b>	WELL @ 5677.0ft (NEWFIELD RIG)
<b>Site:</b>	SECTION 11	<b>MD Reference:</b>	WELL @ 5677.0ft (NEWFIELD RIG)
<b>Well:</b>	X-11-9-16	<b>North Reference:</b>	True
<b>Wellbore:</b>	Wellbore #1	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Design:</b>	Wellbore #1	<b>Database:</b>	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 11				
<b>Site Position:</b>		<b>Northing:</b>	7,188,670.03ft	<b>Latitude:</b>	40° 2' 46.225 N
<b>From:</b>	Lat/Long	<b>Easting:</b>	2,036,157.78ft	<b>Longitude:</b>	110° 5' 10.739 W
<b>Position Uncertainty:</b>	0.0 ft	<b>Spot Radius:</b>	"	<b>Grid Convergence:</b>	0.91 °

<b>Well</b>	X-11-9-16, SHL: LAT 40 02 27.33, LONG -110 05 39.97					
<b>Well Position</b>	<b>+N/-S</b>	0.0 ft	<b>Northing:</b>	7,186,722.56 ft	<b>Latitude:</b>	40° 2' 27.330 N
	<b>+E/-W</b>	0.0 ft	<b>Easting:</b>	2,033,915.01 ft	<b>Longitude:</b>	110° 5' 39.970 W
<b>Position Uncertainty</b>		0.0 ft	<b>Wellhead Elevation:</b>	5,677.0 ft	<b>Ground Level:</b>	5,665.0 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	12/31/2009	11.50	65.83	52,438

<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	136.75	

<b>Survey Program</b>	Date 2/11/2010				
<b>From (ft)</b>	<b>To (ft)</b>	<b>Survey (Wellbore)</b>	<b>Tool Name</b>	<b>Description</b>	
423.0	6,195.0	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
423.0	1.78	138.99	422.9	-5.0	4.3	6.6	0.42	0.42	0.00
454.0	1.74	142.63	453.9	-5.7	4.9	7.5	0.38	-0.13	11.74
484.0	1.85	137.78	483.9	-6.4	5.5	8.5	0.62	0.37	-16.17
514.0	1.78	139.20	513.9	-7.1	6.1	9.4	0.28	-0.23	4.73
545.0	2.11	138.83	544.9	-7.9	6.8	10.5	1.07	1.06	-1.19
575.0	2.24	137.80	574.8	-8.8	7.6	11.6	0.45	0.43	-3.43
606.0	2.40	140.52	605.8	-9.7	8.4	12.8	0.63	0.52	8.77
637.0	2.30	138.00	636.8	-10.7	9.2	14.1	0.46	-0.32	-8.13
668.0	2.57	134.46	667.8	-11.6	10.2	15.4	1.00	0.87	-11.42
698.0	2.92	131.25	697.7	-12.6	11.2	16.9	1.27	1.17	-10.70
728.0	3.08	129.45	727.7	-13.6	12.4	18.4	0.62	0.53	-6.00
759.0	3.16	131.31	758.6	-14.7	13.7	20.1	0.42	0.26	6.00



HATHAWAYBURNHAM

Survey Report

Company: NEWFIELD EXPLORATION  
 Project: USGS Myton SW (UT)  
 Site: SECTION 11  
 Well: X-11-9-16  
 Wellbore: Wellbore #1  
 Design: Wellbore #1

Local Co-ordinate Reference: Well X-11-9-16  
 TVD Reference: WELL @ 5677.0ft (NEWFIELD RIG)  
 MD Reference: WELL @ 5677.0ft (NEWFIELD RIG)  
 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)
789.0	3.23	131.43	788.6	-15.8	14.9	21.8	0.23	0.23	0.40
820.0	3.21	134.52	819.6	-17.0	16.2	23.5	0.56	-0.06	9.97
851.0	2.92	140.24	850.5	-18.2	17.3	25.2	1.36	-0.94	18.45
882.0	3.20	144.40	881.5	-19.5	18.4	26.8	1.15	0.90	13.42
913.0	3.67	143.89	912.4	-21.0	19.4	28.6	1.52	1.52	-1.65
945.0	4.04	139.78	944.3	-22.7	20.8	30.8	1.44	1.16	-12.84
977.0	4.57	138.19	976.2	-24.5	22.3	33.2	1.70	1.66	-4.97
1,009.0	4.99	138.00	1,008.1	-26.5	24.1	35.9	1.31	1.31	-0.59
1,041.0	5.30	138.50	1,040.0	-28.7	26.0	38.7	0.98	0.97	1.56
1,072.0	5.73	139.21	1,070.9	-30.9	28.0	41.7	1.40	1.39	2.29
1,103.0	6.11	138.66	1,101.7	-33.3	30.1	44.9	1.24	1.23	-1.77
1,135.0	6.61	138.02	1,133.5	-36.0	32.5	48.4	1.58	1.56	-2.00
1,167.0	7.12	137.65	1,165.3	-38.8	35.0	52.3	1.60	1.59	-1.16
1,198.0	7.50	138.90	1,196.0	-41.7	37.6	56.2	1.33	1.23	4.03
1,229.0	7.93	139.53	1,226.7	-44.9	40.4	60.4	1.41	1.39	2.03
1,262.0	8.50	139.90	1,259.4	-48.5	43.4	65.1	1.73	1.73	1.12
1,294.0	9.18	139.97	1,291.0	-52.3	46.6	70.0	2.13	2.13	0.22
1,324.0	9.78	139.05	1,320.6	-56.0	49.8	74.9	2.06	2.00	-3.07
1,357.0	10.39	137.78	1,353.1	-60.3	53.6	80.7	1.97	1.85	-3.85
1,388.0	11.03	136.85	1,383.6	-64.6	57.5	86.5	2.14	2.06	-3.00
1,420.0	11.76	136.88	1,414.9	-69.2	61.9	92.8	2.28	2.28	0.09
1,451.0	12.39	136.02	1,445.2	-73.9	66.3	99.3	2.11	2.03	-2.77
1,483.0	13.08	136.16	1,476.5	-79.0	71.2	106.3	2.16	2.16	0.44
1,515.0	13.67	135.03	1,507.6	-84.3	76.4	113.7	2.02	1.84	-3.53
1,546.0	14.35	133.98	1,537.7	-89.5	81.8	121.2	2.34	2.19	-3.39
1,578.0	15.01	133.12	1,568.6	-95.1	87.6	129.3	2.17	2.06	-2.69
1,673.0	14.96	131.03	1,660.4	-111.6	105.9	153.8	0.57	-0.05	-2.20
1,768.0	15.10	133.82	1,752.1	-128.2	124.0	178.3	0.78	0.15	2.94
1,863.0	15.29	138.39	1,843.8	-146.1	141.3	203.2	1.28	0.20	4.81
1,958.0	13.82	135.36	1,935.8	-163.5	157.6	227.1	1.74	-1.55	-3.19
2,054.0	14.46	137.56	2,028.9	-180.6	173.7	250.5	0.87	0.67	2.29
2,149.0	15.16	135.60	2,120.7	-198.2	190.4	274.8	0.91	0.74	-2.06
2,245.0	15.41	134.30	2,213.3	-216.1	208.3	300.1	0.44	0.26	-1.35
2,339.0	14.85	133.32	2,304.1	-233.0	226.0	324.6	0.65	-0.60	-1.04
2,434.0	14.37	134.89	2,396.0	-249.7	243.2	348.5	0.65	-0.51	1.65
2,529.0	13.36	136.77	2,488.2	-266.0	259.1	371.3	1.16	-1.06	1.98
2,624.0	12.52	137.04	2,580.8	-281.6	273.6	392.6	0.89	-0.88	0.28
2,719.0	12.94	136.15	2,673.5	-296.8	288.0	413.5	0.49	0.44	-0.94
2,814.0	15.23	138.52	2,765.6	-313.8	303.7	436.6	2.49	2.41	2.49
2,909.0	15.40	140.33	2,857.2	-332.9	320.0	461.7	0.53	0.18	1.91
3,004.0	15.10	140.02	2,948.9	-352.0	336.0	486.6	0.33	-0.32	-0.33
3,100.0	16.15	135.05	3,041.3	-371.1	353.5	512.5	1.77	1.09	-5.18
3,194.0	15.78	133.56	3,131.7	-389.1	372.0	538.3	0.59	-0.39	-1.59
3,289.0	17.07	135.11	3,222.8	-407.9	391.2	565.1	1.43	1.36	1.63
3,384.0	17.12	138.17	3,313.6	-428.2	410.3	593.0	0.95	0.05	3.22
3,479.0	16.50	137.58	3,404.6	-448.6	428.7	620.5	0.68	-0.65	-0.62
3,574.0	15.47	137.04	3,495.9	-467.8	446.5	646.7	1.10	-1.08	-0.57
3,670.0	14.66	134.96	3,588.6	-485.8	463.8	671.6	1.01	-0.84	-2.17
3,765.0	14.52	136.11	3,680.5	-502.9	480.6	695.5	0.34	-0.15	1.21
3,860.0	13.49	135.87	3,772.7	-519.4	496.5	718.5	1.09	-1.08	-0.25
3,955.0	13.82	137.12	3,865.0	-535.7	512.0	741.0	0.47	0.35	1.32
4,049.0	14.39	138.02	3,956.2	-552.6	527.4	763.9	0.65	0.61	0.96
4,145.0	14.83	138.08	4,049.1	-570.6	543.6	788.1	0.46	0.46	0.06
4,240.0	14.00	136.19	4,141.1	-587.9	559.7	811.7	1.00	-0.87	-1.99



**HATHAWAYBURNHAM**

**Survey Report**

**Company:** NEWFIELD EXPLORATION  
**Project:** USGS Myton SW (UT)  
**Site:** SECTION 11  
**Well:** X-11-9-16  
**Wellbore:** Wellbore #1  
**Design:** Wellbore #1

**Local Co-ordinate Reference:** Well X-11-9-16  
**TVD Reference:** WELL @ 5677.0ft (NEWFIELD RIG)  
**MD Reference:** WELL @ 5677.0ft (NEWFIELD RIG)  
**North Reference:** True  
**Survey Calculation Method:** Minimum Curvature  
**Database:** EDM 2003.21 Single User Db

**Survey**

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
4,335.0	13.29	134.79	4,233.4	-603.9	575.4	834.1	0.82	-0.75	-1.47
4,430.0	13.45	137.36	4,325.8	-619.7	590.6	856.1	0.65	0.17	2.71
4,526.0	14.66	136.61	4,419.0	-636.8	606.5	879.4	1.27	1.26	-0.78
4,620.0	13.80	135.40	4,510.1	-653.4	622.6	902.5	0.97	-0.91	-1.29
4,715.0	13.23	135.80	4,602.5	-669.3	638.1	924.7	0.61	-0.60	0.42
4,811.0	12.77	138.37	4,696.0	-685.1	652.8	946.3	0.77	-0.48	2.68
4,906.0	12.42	139.45	4,788.7	-700.7	666.4	967.0	0.44	-0.37	1.14
5,001.0	12.52	141.64	4,881.5	-716.5	679.5	987.4	0.51	0.11	2.31
5,096.0	12.59	140.26	4,974.2	-732.5	692.5	1,008.0	0.32	0.07	-1.45
5,191.0	12.55	141.78	5,066.9	-748.6	705.5	1,028.7	0.35	-0.04	1.60
5,286.0	13.25	134.57	5,159.5	-764.4	719.6	1,049.8	1.85	0.74	-7.59
5,381.0	12.04	134.66	5,252.2	-779.0	734.4	1,070.6	1.27	-1.27	0.09
5,476.0	12.48	137.36	5,345.1	-793.5	748.4	1,090.8	0.76	0.46	2.84
5,571.0	12.72	134.83	5,437.8	-808.4	762.8	1,111.5	0.63	0.25	-2.66
5,666.0	13.27	135.12	5,530.3	-823.5	777.9	1,132.8	0.58	0.58	0.31
5,761.0	13.80	135.27	5,622.7	-839.3	793.6	1,155.1	0.56	0.56	0.16
5,856.0	12.25	140.20	5,715.3	-855.1	808.0	1,176.4	2.01	-1.63	5.19
5,951.0	10.28	141.51	5,808.4	-869.5	819.7	1,195.0	2.09	-2.07	1.38
6,046.0	8.46	142.08	5,902.1	-881.6	829.3	1,210.4	1.92	-1.92	0.60
6,141.0	6.75	143.03	5,996.3	-891.6	837.0	1,222.9	1.80	-1.80	1.00
6,195.0	5.78	143.57	6,050.0	-896.3	840.5	1,228.7	1.80	-1.80	1.00

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

# NEWFIELD



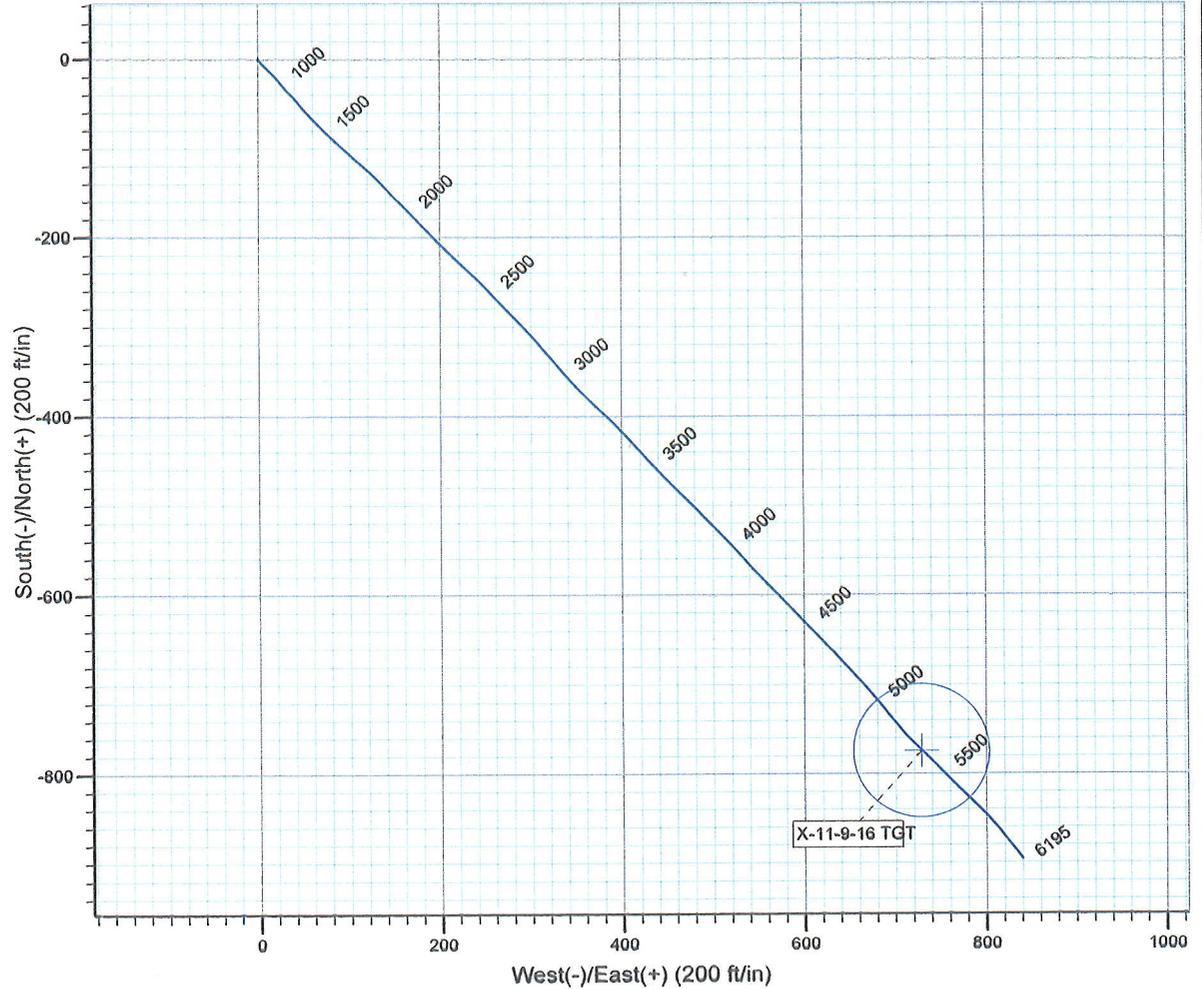
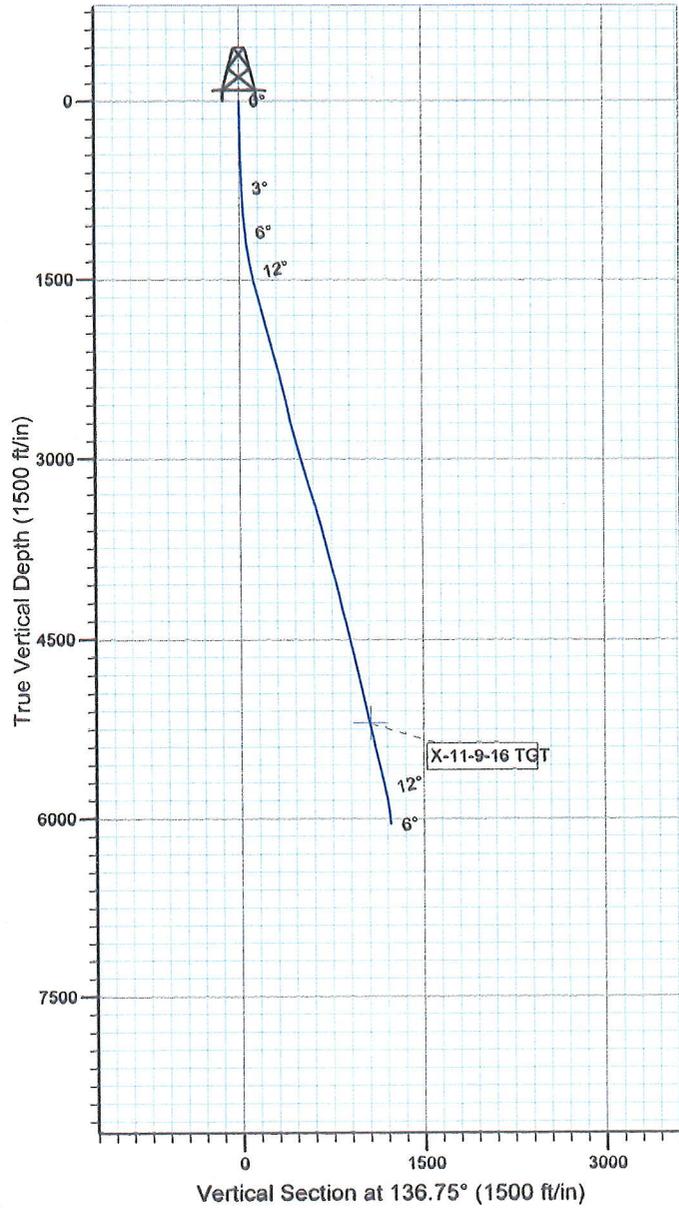
Project: USGS Myton SW (UT)  
Site: SECTION 11  
Well: X-11-9-16  
Wellbore: Wellbore #1  
SURVEY: Wellbore #1

FINAL SURVEY REPORT



Azimuths to True North  
Magnetic North: 11.50°

Magnetic Field  
Strength: 52437.8snT  
Dip Angle: 65.83°  
Date: 12/31/2009  
Model: IGRF200510



Design: Wellbore #1 (X-11-9-16/Wellbore #1)

Created By: *Tom Hudson* Date: 7:13, February 11 2010  
THIS SURVEY IS CORRECT TO THE BEST OF MY KNOWLEDGE  
AND IS SUPPORTED BY ACTUAL FIELD DATA.

**Daily Activity Report**

Format For Sundry

**JONAH X-11-9-16****12/1/2009 To 4/28/2010****JONAH X-11-9-16****Waiting on Cement****Date:** 1/25/2010

Ross #29 at 320. Days Since Spud - On 1/28/10 BJ Cemented 8 5/8" casing W/ 160 sks. Class G + 2% CaCl +.25#/sk CelloFlake mixed @ 15.8 - Run 7jts 8 5/8" Casing ( Guide Shoe, shoe joint, baffle plate, 6jts ) Set @ 319.85' - Ross Rig # 29 Spud the Jonah Fed. X-11-9-16 on 1/26/10 @ 9:00 AM Drilled 320' of 12 1/4" hole - ppg With 1.17 yield Returned 5bbls cement to pit

**Daily Cost:** \$0**Cumulative Cost:** \$46,007**JONAH X-11-9-16****Drill 7 7/8" hole with fresh water****Date:** 2/5/2010

NDSI #2 at 354. 1 Days Since Spud - a wash out in the pipe ram door, had to get a rental stack. - Pick up BHA as follows Smith MSI 616 7 7/8" PDC Bit, and dog sub, 6.5" hunting MM, 1X 30.29' monel, - 1X 4.25 Gap Sub, 1X 2.17 Antenna Sub, 1X 29.59 monel, and 7X 4.5" HWDP. Tag Cement @ 280' - Pick Up kelly and gain Circulation ( Smith MSI 616 7 7/8" PDC Bit, and dog sub, - Drill 7 7/8" hole F/ 280'-354' W/ 12,000 lbs WOB, 130 Total RPM, 390 GPM 50 fph avg ROP - of 2,000 PSI for ten minutes. Test surface casing to 1,500 PSI for 30 minutes. All tested good. Had - Nipple up Rental BOP - Wait on Rental BOP, Pipe Ram Door had a wash out would not Test - On 2/4/10 MIRU set equipment W/ Marcus Lidell Trucking - Rig Up B/C QuickTest. Test Kelly, Safety Valve, Pipe Rams, Blind Rams, and Choke to a high pressure

**Daily Cost:** \$0**Cumulative Cost:** \$82,719**JONAH X-11-9-16****Drill 7 7/8" hole with fresh water****Date:** 2/6/2010

NDSI #2 at 2298. 2 Days Since Spud - Replace Swivel packing - Drill 7 7/8" hole from 354-721 W/ 18,000lbs WOB 135 TRPM, 395 GPM, 139fph avg ROP - Rig Service Function test BOP Check and grease Crown and Blocks Check Crown-O-Matic Check BOP - Drill 7 7/8" hole from 721-904 W/ 18,000lbs WOB 135 TRPM, 395 GPM, 139fph avg ROP - Drill 7 7/8" hole from 904-2298 W/ 18,000lbs WOB 135 TRPM, 395 GPM, 139fph avg ROP

**Daily Cost:** \$0**Cumulative Cost:** \$102,193**JONAH X-11-9-16****Drill 7 7/8" hole with fresh water****Date:** 2/7/2010

NDSI #2 at 3597. 3 Days Since Spud - Rig Service Function test BOP Check and grease Crown and Blocks Check Crown-O-Matic Check BOP - Drill 7 7/8" hole from 2868'- 3597' W/ 25,000lbs WOB 135 TRPM, 395 GPM, 118 fph avg ROP - Repair Kelly Spinners - Drill 7 7/8" hole from 2710'-2868' W/ 25,000lbs WOB 135 TRPM, 395 GPM, 118 fph avg ROP - Drill 7 7/8" hole from 2298'-2710' W/ 25,000lbs WOB 135 TRPM, 395 GPM, 118 fph avg ROP

**Daily Cost:** \$0**Cumulative Cost:** \$138,927**JONAH X-11-9-16****Drill 7 7/8" hole with fresh water**

**Date:** 2/8/2010

NDSI #2 at 4643. 4 Days Since Spud - Rig Service Function test BOP Check and grease Crown and Blocks Check Crown-O-Matic Check BOP - Drill 7 7/8" hole from 3597'-3914' W/ 25,000lbs WOB 135 TRPM, 395 GPM,97 fph avg ROP - Drill 7 7/8" hole from 3914'-4643' W/ 25,000lbs WOB 135 TRPM, 395 GPM,97 fph avg ROP

**Daily Cost:** \$0**Cumulative Cost:** \$158,016**JONAH X-11-9-16****Drill 7 7/8" hole with fresh water****Date:** 2/9/2010

NDSI #2 at 5435. 5 Days Since Spud - No H2s Reported Last 24 Hrs - Well Flowing 4 gal/Min @ 5023' - Well Flowing 3 gal/min @ 5403' - Drill 7 7/8" Hole From 4959' To 5435', WOB 20,000 lbs RPM 107,GPM 344 , 29 fph Avg ROP - Rig Service, Check Crown-A-Matic,Function Test Bop - Boiler 21 Hrs. - Drill 7 7/8" Hole From 4643' To 4959' WOB 20,000 lbs,RPM 107,GPM 344,42 fph Avg Rop

**Daily Cost:** \$0**Cumulative Cost:** \$184,490**JONAH X-11-9-16****Wait on Completion****Date:** 2/10/2010

NDSI #2 at 6190. 7 Days Since Spud - Released Rig @ 12:30 AM On 2/11/10 - Clean Mud Tanks - Nipple Down Bop's Set 5 1/2" Slips With 88,000# Tension. - Notify BLM & State By E-mail on 2/10/10 With Estimated TD @ 1:00 AM And 13:00 PM Running Casing - Bumped Plug To 2175 psi - 0.5%EC-1+.25#CF+.05#SF+.3SMS+FP-6L) Displaced With 146.7 bbls. Returned 32 bbls of Cement To Pit. - + 3% KCL+5#CSE+0.5#CF+2#KOL+.5SMS+FP+SF) Pump Tail Cement @ 14.4 ppg & 1.24 yield ( 50:50:2 +3% KCL+ - R/U BJ Services Test Lines To 3943 PSI. Pump 275 sk Lead Cement Mixed @ 11.0 ppg & 3.54 Yield ( PLII - Circ Hole With Rig Pump. R/U BJ Services Hardlines - Transferred 4 Jts To South Wells Draw Federal S-4-9-16 - R/U Marcus Liddell Casing Crew Run 152 jts.5.5", J-55,15.5#,LT&C,Shoe @ 6182' Top Float Collar@6161' - R/U B&C Quick Test. Test 5 1/2" Pipe Rams To 2,000# psi Tested OK - TD To 3,000' ( Loggers TD 6179' ) - R/U Phoenix Surveys Log Well With DISGL/SP/GR Suite: TD To Surface Casing DSN/DSL/GR/CAL Suite Log - LDDP & BHA. ( Brake Kelly For Inspection ) - BOP Drill Hands @ Stations 1 min. - Boiler 24 Hrs. - Well Flowing 4.5 Gal/Min @ TD - No H2s Reported Last 24 Hrs. - LDDP - LDDP To 4,000' Spot 260 bbls 10# Brine - Circ Hole For Laydown & Logs. Well Flowing 4.5 gal/min @ TD - Drill 7 7/8" Hole From 5656'To 6190'. TD. WOB 20,000 lbs, ROP 107, GPM 344, 48.5 fph Avg ROP - Rig Service. Function Test Bop's,Grease Crown & Blocks - Drill 7 7/8" Hole From 5435' To 5656'. WOB 20,000 lbs,RPM 107,GPM 344,29.5 fph avg rop - Released Rig @ 12:30 AM On 2/11/10 - Clean Mud Tanks - Nipple Down Bop's Set 5 1/2" Slips With 88,000# Tension. - Notify BLM & State By E-mail on 2/10/10 With Estimated TD @ 1:00 AM And 13:00 PM Running Casing - Bumped Plug To 2175 psi - 0.5%EC-1+.25#CF+.05#SF+.3SMS+FP-6L) Displaced With 146.7 bbls. Returned 32 bbls of Cement To Pit. - + 3% KCL+5#CSE+0.5#CF+2#KOL+.5SMS+FP+SF) Pump Tail Cement @ 14.4 ppg & 1.24 yield ( 50:50:2 +3% KCL+ - R/U BJ Services Test Lines To 3943 PSI. Pump 275 sk Lead Cement Mixed @ 11.0 ppg & 3.54 Yield ( PLII - Circ Hole With Rig Pump. R/U BJ Services Hardlines - Transferred 4 Jts To South Wells Draw Federal S-4-9-16 - R/U Marcus Liddell Casing Crew Run 152 jts.5.5", J-55,15.5#,LT&C,Shoe @ 6182' Top Float Collar@6161' - R/U B&C Quick Test. Test 5 1/2" Pipe Rams To 2,000# psi Tested OK - TD To 3,000' ( Loggers TD 6179' ) - R/U Phoenix Surveys Log Well With DISGL/SP/GR Suite: TD To Surface Casing DSN/DSL/GR/CAL Suite Log - LDDP & BHA. ( Brake Kelly For Inspection ) - BOP Drill Hands @ Stations 1 min. - Boiler 24 Hrs. - Well Flowing 4.5 Gal/Min @ TD - No H2s Reported Last 24 Hrs. - LDDP - LDDP To 4,000' Spot 260 bbls 10# Brine - Circ Hole For Laydown & Logs. Well Flowing 4.5 gal/min @ TD - Drill 7 7/8" Hole From 5656'To 6190'. TD. WOB 20,000 lbs, ROP 107, GPM 344, 48.5 fph Avg ROP - Rig Service. Function Test Bop's,Grease Crown & Blocks - Drill 7 7/8" Hole From 5435' To 5656'. WOB 20,000

lbs,RPM 107,GPM 344,29.5 fph avg rop **Finalized**

**Daily Cost:** \$0

**Cumulative Cost:** \$350,370

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**Pertinent Files: Go to File List**