

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-40652
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 J-1-9-16
3b. Phone No. (include area code) (435) 646-3721		9. API Well No. 43-013-33571
4. Location of Well (Report location clearly and in accordance with any State requirements. *) At surface NE/NE 823' FNL 769' FEL At proposed prod. zone SE/NE 1323' FNL 0' FEL		10. Field and Pool, or Exploratory Monument Butte 105
14. Distance in miles and direction from nearest town or post office* Approximatley 14.6 miles southwest of Myton, Utah		11. Sec., T., R., M., or Blk. and Survey or Area Sec. 1, T9S R16E
15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any) Approx. 3' f/lse, 1323' f/unit	16. No. of Acres in lease 40.00	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. 1393'	19. Proposed Depth 6215'	20. BLM/BIA Bond No. on file UTB000192
21. Elevations (Show whether DF, KDB, RT, GL, etc.) 5351' GL	22. Approximate date work will start* 2nd Quarter 2007	23. Estimated duration Approximately seven (7) days from spud to rig release.

24. Attachments

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

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

25. Signature 	Name (Printed/Typed) Mandie Crozier	Date 2/28/07
Title Regulatory Specialist		
Approved by Signature 	Name (Printed/Typed) BRADLEY G. HILL	Date 03-12-07
Title ENVIRONMENTAL MANAGER	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

Federal Approval of this Action is Necessary

BHU

580132x

44351714

40.064882

-110.040351

5803654

44350114

40.06351

-110.05767

RECEIVED

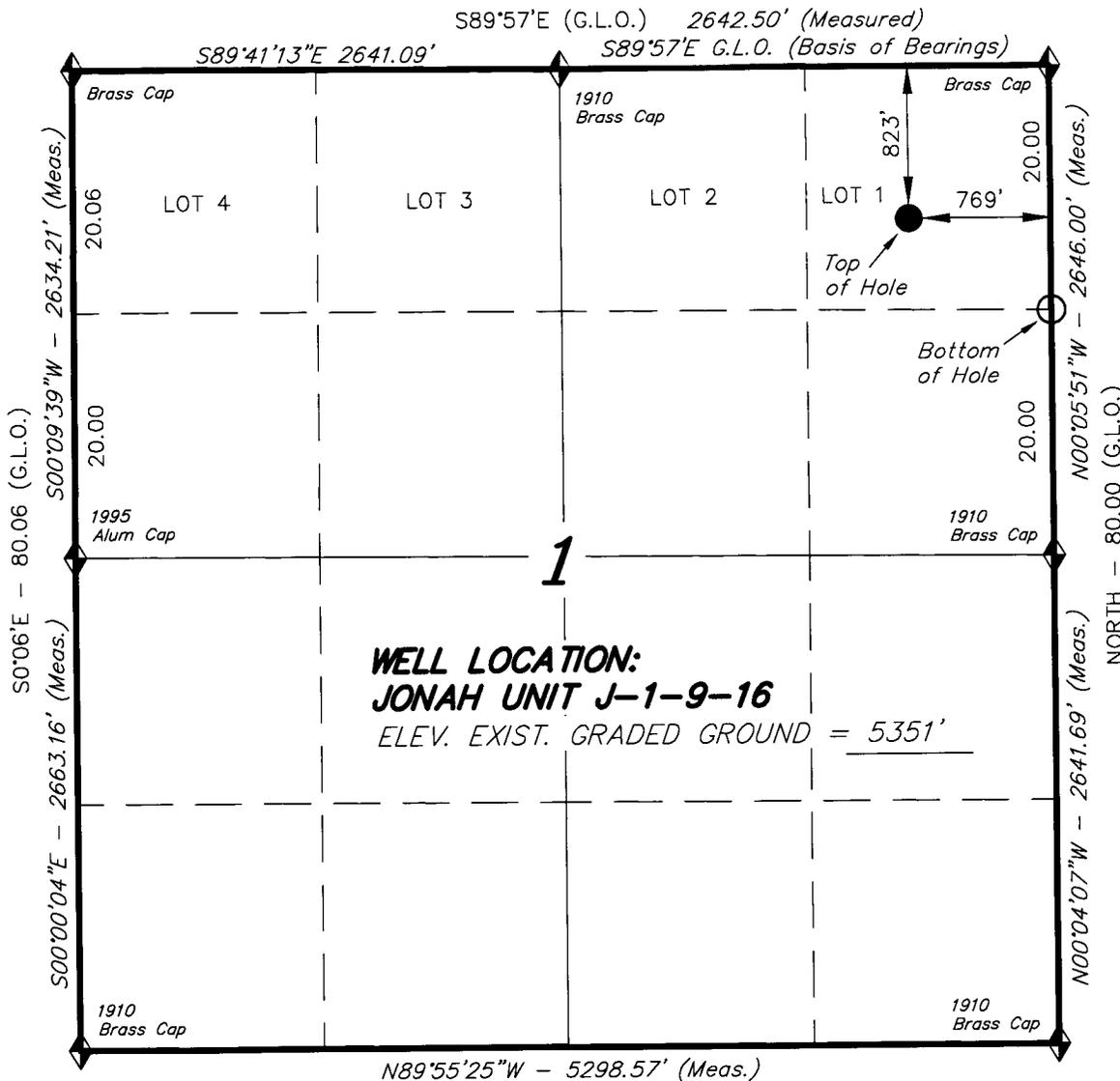
MAR 02 2007

DIV. OF OIL, GAS & MINING

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

## NEWFIELD PRODUCTION COMPANY

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

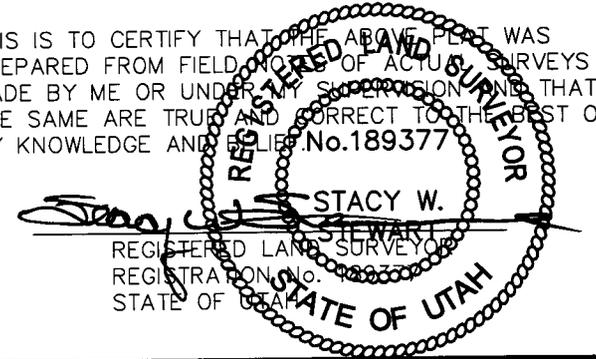


**Note:**

1. The bottom of hole (J-1-9-16 NW/NW) bears S56°59'13"E 918.33' from the Top of Hole.
2. The Bottom of hole footage are 1323' FNL & 0' FEL.

**WELL LOCATION:  
 JONAH UNIT J-1-9-16**  
 ELEV. EXIST. GRADED GROUND = 5351'

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



### TRI STATE LAND SURVEYING & CONSULTING

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

DATE SURVEYED: 11-19-06	SURVEYED BY: C.M.
DATE DRAWN: 11-20-06	DRAWN BY: F.T.M.
REVISED:	SCALE: 1" = 1000'

◆ = SECTION CORNERS LOCATED

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

**JONAH UNIT J-1-9-16**  
 (Surface Location) NAD 83  
 LATITUDE = 40° 03' 53.43"  
 LONGITUDE = 110° 03' 39.98"

**NEWFIELD PRODUCTION COMPANY  
JONAH FEDERAL #J-1-9-16  
AT SURFACE: NE/NE SECTION 1, 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' – 2260'
Green River	2260'
Wasatch	6215'

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

Green River Formation 2260' – 6215' - 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 #J-1-9-16  
AT SURFACE: NE/NE SECTION 1, 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 #J-1-9-16 located in the NE 1/4 NE 1/4 Section 1, T9S, R16E, Duchesne County, Utah:

Proceed southwesterly out of Myton, Utah along Highway 40 - 1.6 miles  $\pm$  to the junction of this highway and UT State Hwy 53; proceed southeasterly along Hwy 53 - 10.7 miles  $\pm$  to its junction with an existing dirt road to the southwest; proceed southwesterly - 1.7 miles  $\pm$  its junction with an existing road to the northwest; proceed northwesterly - 0.6 miles  $\pm$  to the existing Federal 2-1-9-16 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 Federal 2-1-9-16 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 Federal 2-1-9-16 well pad. There will be a pumping unit and a short flow line added to the tank battery for the proposed Jonah Federal J-1-9-16. 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**

Please refer to the Monument Butte Field SOP. See Exhibit "A".

**6. SOURCE OF CONSTRUCTION MATERIALS**

The proposed Jonah Federal J-1-9-16 will be drilled off of the existing Federal 2-1-9-16 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**

Newfield Production Company requests 1270' of disturbed area be granted in Lease UTU-33992, 590' of disturbed area be granted in Lease UTU-40652, and 5790' of disturbed area be granted in Lease UTU-020252 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.

**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**

**Mountain Plover:** If new construction or surface disturbing activities are scheduled to occur between May 1 and June 15, detailed surveys of the area within 0.5 mile of the proposed location and within 300 feet of proposed access routes must be conducted to detect the presence of mountain plovers. All surveys must be conducted in accordance with the survey protocols outlined in the most recent USFWS Survey Protocol. Surveys must be completed prior to initiating new construction or surface disturbing activities. No new construction or surface disturbing activities will be allowed between March 15 and August 15 within a 0.5 mile radius of any documented mountain plover nest site.

**Ferruginous Hawk:** Due to this proposed well location's proximity (less than 0.5 mile) to an existing inactive ferruginous hawk nest site, no new construction or surface disturbing activities will be allowed between March 1 and July 31. If the nest remains inactive on May 30<sup>th</sup> (based on a pre-construction survey by a qualified biologist), the operator may construct and drill the location after that date. If the nest site becomes active prior to May 30, no new construction or surface disturbing activities will be allowed within 0.5 mile of the nest until the nest becomes inactive for two full breeding seasons. In the event that this well becomes a producing well, it must be equipped with a multi-cylinder engine or hospital muffler to reduce noise levels.

**Reserve Pit Liner**

A 12 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)

Shadscale	<i>Atriplex Centertifolia</i>	3 lbs/acre
Galletta Grass	<i>Hilaria Jamesii</i>	6 lbs/acre

**Details of the On-Site Inspection**

The proposed Jonah Federal #J-1-9-16 was on-sited on 12/8/06. The following were present; Dave Allred (Newfeild Production), Kim Kettle (Newfeild Production), Chuck MacDonald (Bureau of Land Management), and Brandon McDonald (Bureau of Landmanagement). Weather conditions were clear and ground cover was 100% open.

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

Representative

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

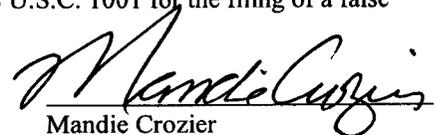
Certification

Please be advised that NEWFIELD PRODUCTION COMPANY is considered to be the operator of well #J-1-9-16 Section 1, Township 9S, Range 16E: Lease UTU-40652 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 US Specialty Insurance #B001832.

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

2/28/07

Date



Mandie Crozier  
Regulatory Specialist  
Newfield Production Company



**Scientific Drilling**  
Rocky Mountain Operations

Project: Duchesne County, UT  
Site: Jonah Unit J-1-9-16  
Well: Jonah Unit J-1-9-16  
Wellbore: OH  
Design: Plan #1

**Lawfield Exploration Co.**

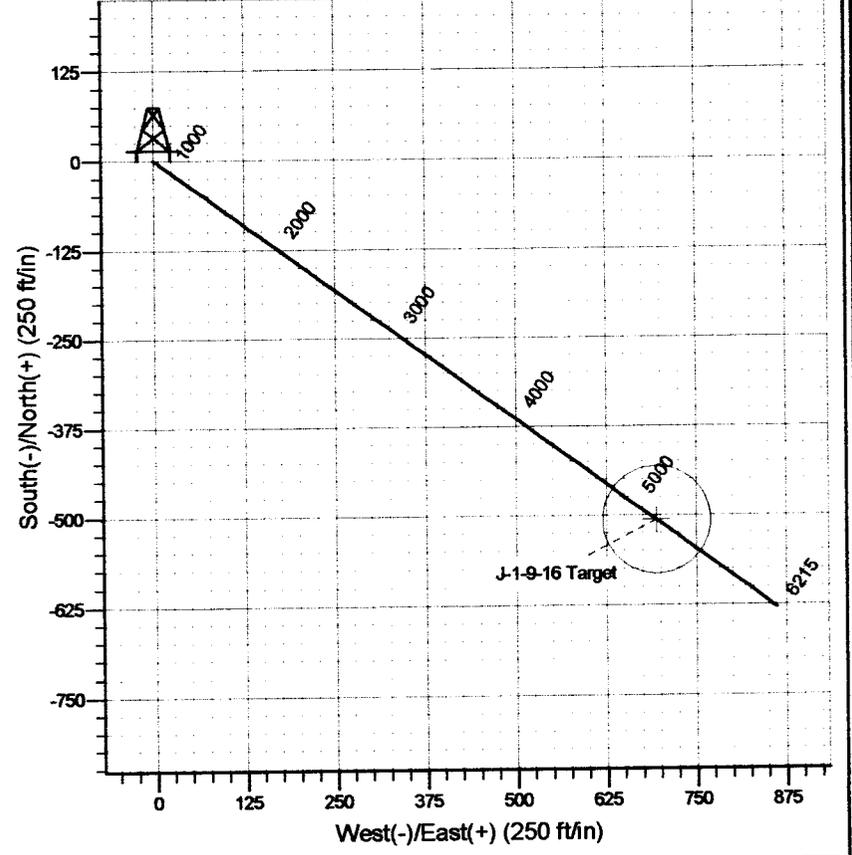
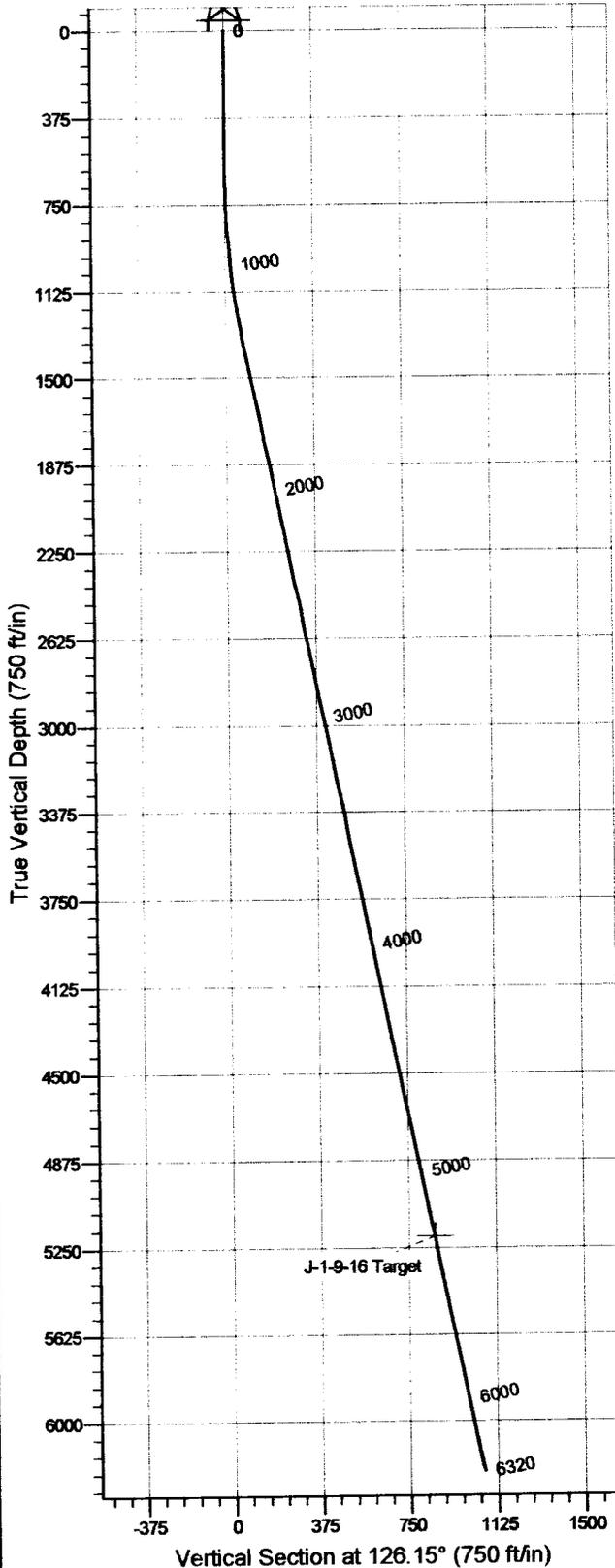


Azimuths to True North  
Magnetic North: 11.88°

Magnetic Field  
Strength: 52746.2nT  
Dip Angle: 65.93°  
Date: 2006-12-15  
Model: IGRF2005-10

WELL DETAILS: Jonah Unit J-1-9-16

GL 5351' & RKB 12' @ 5363.00ft 5351.00  
+N-S 0.00 +E-W 0.00 Northing 7195595.98 Easting 2043109.31 Latitude 40° 3' 53.430 N Longitude 110° 3' 39.980 W



FORMATION TOP DETAILS	Plan: Plan #1 (Jonah Unit J-1-9-16/OH)
Formation data is available	Created By: Julie Cruse Date: 2006-12-15
	PROJECT DETAILS: Duchesne County, UT
	Geodetic System: US State Plane 1983 Datum: North American Datum 1983 Ellipsoid: GRS 1980 Zone: Utah Central Zone
	System Datum: Mean Sea Level Local North: No north reference data is available

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	368.43	11.53	126.15	1363.25	-45.44	62.20	1.50	126.15	77.03	
4	284.14	11.53	126.15	5200.00	-507.00	694.00	0.00	0.00	859.47	J-1-9-16 Target
5	320.03	11.53	126.15	6215.00	-629.10	861.14	0.00	0.00	1066.46	

# **Newfield Exploration Co.**

**Duchesne County, UT**

**Jonah Unit J-1-9-16**

**Jonah Unit J-1-9-16**

**OH**

**Plan: Plan #1**

## **Standard Planning Report**

**15 December, 2006**

# Scientific Drilling Planning Report

**Database:** EDM 2003.14.1.0 Single User Db  
**Company:** Newfield Exploration Co.  
**Project:** Duchesne County, UT  
**Site:** Jonah Unit J-1-9-16  
**Well:** Jonah Unit J-1-9-16  
**Wellbore:** OH  
**Design:** Plan #1

**Local Co-ordinate Reference:** Well Jonah Unit J-1-9-16  
**TVD Reference:** GL 5351' & RKB 12' @ 5363.00ft  
**MD Reference:** GL 5351' & RKB 12' @ 5363.00ft  
**North Reference:** True  
**Survey Calculation Method:** Minimum Curvature

<b>Project</b>	Duchesne County, UT		
<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 J-1-9-16, Sec 1 T9S R16E				
<b>Site Position:</b>		<b>Northing:</b>	7,195,595.98 ft	<b>Latitude:</b>	40° 3' 53.430 N
<b>From:</b>	Lat/Long	<b>Easting:</b>	2,043,109.31 ft	<b>Longitude:</b>	110° 3' 39.980 W
<b>Position Uncertainty:</b>	0.00 ft	<b>Slot Radius:</b>	in	<b>Grid Convergence:</b>	0.92 °

<b>Well</b>	Jonah Unit J-1-9-16, 823' FNL, 769' FEL					
<b>Well Position</b>	<b>+N/-S</b>	0.00 ft	<b>Northing:</b>	7,195,595.98 ft	<b>Latitude:</b>	40° 3' 53.430 N
	<b>+E/-W</b>	0.00 ft	<b>Easting:</b>	2,043,109.31 ft	<b>Longitude:</b>	110° 3' 39.980 W
<b>Position Uncertainty</b>		0.00 ft	<b>Wellhead Elevation:</b>	ft	<b>Ground Level:</b>	5,351.00 ft

<b>Wellbore</b>	OH				
<b>Magnetics</b>	<b>Model Name</b>	<b>Sample Date</b>	<b>Declination (°)</b>	<b>Dip Angle (°)</b>	<b>Field Strength (nT)</b>
	IGRF2005-10	2006-12-15	11.88	65.93	52,746

<b>Design</b>	Plan #1				
<b>Audit Notes:</b>					
<b>Version:</b>	<b>Phase:</b>	PLAN	<b>Tie On Depth:</b>	0.00	
<b>Vertical Section:</b>	<b>Depth From (TVD) (ft)</b>	<b>+N/-S (ft)</b>	<b>+E/-W (ft)</b>	<b>Direction (°)</b>	
	0.00	0.00	0.00	126.15	

Plan Sections										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	TPO (°)	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	
1,368.43	11.53	126.15	1,363.25	-45.44	62.20	1.50	1.50	0.00	126.15	
5,284.14	11.53	126.15	5,200.00	-507.00	694.00	0.00	0.00	0.00	0.00	J-1-9-16 Target
6,320.03	11.53	126.15	6,215.00	-629.10	861.14	0.00	0.00	0.00	0.00	

# Scientific Drilling Planning Report

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**Project:** Duchesne County, UT  
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**MD Reference:** GL 5351' & RKB 12' @ 5363.00ft  
**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	126.15	699.99	-0.77	1.06	1.31	1.50	1.50	0.00
800.00	3.00	126.15	799.91	-3.09	4.23	5.23	1.50	1.50	0.00
900.00	4.50	126.15	899.69	-6.95	9.51	11.77	1.50	1.50	0.00
1,000.00	6.00	126.15	999.27	-12.34	16.90	20.92	1.50	1.50	0.00
1,100.00	7.50	126.15	1,098.57	-19.28	26.39	32.68	1.50	1.50	0.00
1,200.00	9.00	126.15	1,197.54	-27.74	37.97	47.03	1.50	1.50	0.00
1,300.00	10.50	126.15	1,296.09	-37.73	51.65	63.96	1.50	1.50	0.00
1,368.43	11.53	126.15	1,363.25	-45.44	62.20	77.03	1.50	1.50	0.00
1,400.00	11.53	126.15	1,394.19	-49.16	67.30	83.34	0.00	0.00	0.00
1,500.00	11.53	126.15	1,492.17	-60.95	83.43	103.32	0.00	0.00	0.00
1,600.00	11.53	126.15	1,590.16	-72.74	99.57	123.31	0.00	0.00	0.00
1,700.00	11.53	126.15	1,688.14	-84.53	115.70	143.29	0.00	0.00	0.00
1,800.00	11.53	126.15	1,786.12	-96.31	131.84	163.27	0.00	0.00	0.00
1,900.00	11.53	126.15	1,884.11	-108.10	147.97	183.25	0.00	0.00	0.00
2,000.00	11.53	126.15	1,982.09	-119.89	164.11	203.23	0.00	0.00	0.00
2,100.00	11.53	126.15	2,080.07	-131.67	180.24	223.22	0.00	0.00	0.00
2,200.00	11.53	126.15	2,178.06	-143.46	196.38	243.20	0.00	0.00	0.00
2,300.00	11.53	126.15	2,276.04	-155.25	212.51	263.18	0.00	0.00	0.00
2,400.00	11.53	126.15	2,374.02	-167.04	228.65	283.16	0.00	0.00	0.00
2,500.00	11.53	126.15	2,472.01	-178.82	244.78	303.14	0.00	0.00	0.00
2,600.00	11.53	126.15	2,569.99	-190.61	260.92	323.13	0.00	0.00	0.00
2,700.00	11.53	126.15	2,667.97	-202.40	277.05	343.11	0.00	0.00	0.00
2,800.00	11.53	126.15	2,765.96	-214.19	293.19	363.09	0.00	0.00	0.00
2,900.00	11.53	126.15	2,863.94	-225.97	309.32	383.07	0.00	0.00	0.00
3,000.00	11.53	126.15	2,961.92	-237.76	325.46	403.05	0.00	0.00	0.00
3,100.00	11.53	126.15	3,059.91	-249.55	341.59	423.03	0.00	0.00	0.00
3,200.00	11.53	126.15	3,157.89	-261.34	357.73	443.02	0.00	0.00	0.00
3,300.00	11.53	126.15	3,255.87	-273.12	373.86	463.00	0.00	0.00	0.00
3,400.00	11.53	126.15	3,353.86	-284.91	390.00	482.98	0.00	0.00	0.00
3,500.00	11.53	126.15	3,451.84	-296.70	406.13	502.96	0.00	0.00	0.00
3,600.00	11.53	126.15	3,549.82	-308.48	422.27	522.94	0.00	0.00	0.00
3,700.00	11.53	126.15	3,647.81	-320.27	438.40	542.93	0.00	0.00	0.00
3,800.00	11.53	126.15	3,745.79	-332.06	454.53	562.91	0.00	0.00	0.00
3,900.00	11.53	126.15	3,843.77	-343.85	470.67	582.89	0.00	0.00	0.00
4,000.00	11.53	126.15	3,941.76	-355.63	486.80	602.87	0.00	0.00	0.00
4,100.00	11.53	126.15	4,039.74	-367.42	502.94	622.85	0.00	0.00	0.00
4,200.00	11.53	126.15	4,137.72	-379.21	519.07	642.84	0.00	0.00	0.00
4,300.00	11.53	126.15	4,235.71	-391.00	535.21	662.82	0.00	0.00	0.00
4,400.00	11.53	126.15	4,333.69	-402.78	551.34	682.80	0.00	0.00	0.00
4,500.00	11.53	126.15	4,431.67	-414.57	567.48	702.78	0.00	0.00	0.00
4,600.00	11.53	126.15	4,529.66	-426.36	583.61	722.76	0.00	0.00	0.00
4,700.00	11.53	126.15	4,627.64	-438.15	599.75	742.75	0.00	0.00	0.00
4,800.00	11.53	126.15	4,725.62	-449.93	615.88	762.73	0.00	0.00	0.00
4,900.00	11.53	126.15	4,823.61	-461.72	632.02	782.71	0.00	0.00	0.00
5,000.00	11.53	126.15	4,921.59	-473.51	648.15	802.69	0.00	0.00	0.00
5,100.00	11.53	126.15	5,019.57	-485.29	664.29	822.67	0.00	0.00	0.00
5,200.00	11.53	126.15	5,117.56	-497.08	680.42	842.65	0.00	0.00	0.00

# Scientific Drilling Planning Report

**Database:** EDM 2003.14.1.0 Single User Db  
**Company:** Newfield Exploration Co.  
**Project:** Duchesne County, UT  
**Site:** Jonah Unit J-1-9-16  
**Well:** Jonah Unit J-1-9-16  
**Wellbore:** OH  
**Design:** Plan #1

**Local Co-ordinate Reference:** Well Jonah Unit J-1-9-16  
**TVD Reference:** GL 5351' & RKB 12' @ 5363.00ft  
**MD Reference:** GL 5351' & RKB 12' @ 5363.00ft  
**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)
5,284.14	11.53	126.15	5,200.00	-507.00	694.00	859.47	0.00	0.00	0.00
<b>J-1-9-16 Target</b>									
5,300.00	11.53	126.15	5,215.54	-508.87	696.56	862.64	0.00	0.00	0.00
5,400.00	11.53	126.15	5,313.52	-520.66	712.69	882.62	0.00	0.00	0.00
5,500.00	11.53	126.15	5,411.51	-532.44	728.83	902.60	0.00	0.00	0.00
5,600.00	11.53	126.15	5,509.49	-544.23	744.96	922.58	0.00	0.00	0.00
5,700.00	11.53	126.15	5,607.47	-556.02	761.10	942.56	0.00	0.00	0.00
5,800.00	11.53	126.15	5,705.45	-567.81	777.23	962.55	0.00	0.00	0.00
5,900.00	11.53	126.15	5,803.44	-579.59	793.37	982.53	0.00	0.00	0.00
6,000.00	11.53	126.15	5,901.42	-591.38	809.50	1,002.51	0.00	0.00	0.00
6,100.00	11.53	126.15	5,999.40	-603.17	825.64	1,022.49	0.00	0.00	0.00
6,200.00	11.53	126.15	6,097.39	-614.96	841.77	1,042.47	0.00	0.00	0.00
6,300.00	11.53	126.15	6,195.37	-626.74	857.91	1,062.46	0.00	0.00	0.00
6,320.03	11.53	126.15	6,215.00	-629.10	861.14	1,066.46	0.00	0.00	0.00

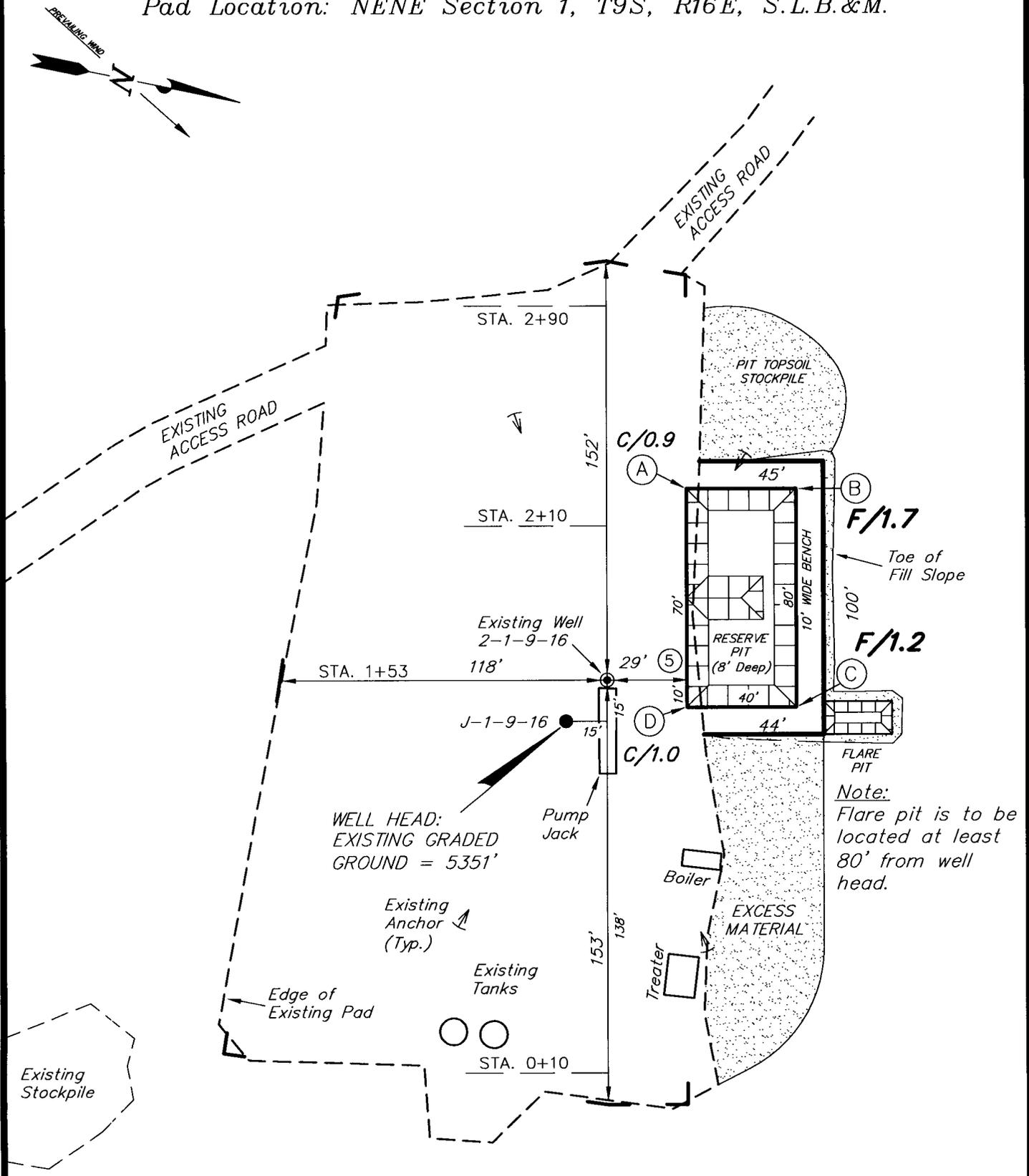
Targets									
Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N-S (ft)	+E-W (ft)	Northing (ft)	Easting (ft)	Latitude	Longitude
J-1-9-16 Target	0.00	0.00	5,200.00	-507.00	694.00	7,195,100.21	2,043,811.37	40° 3' 48.419 N	110° 3' 31.053 W
- hit/miss target									
- Shape									
- plan hits target									
- Circle (radius 75.00)									

# NEWFIELD PRODUCTION COMPANY

**JONAH UNIT J-1-9-16 (Proposed Well)**

**JONAH UNIT 2-1-9-16 (Existing Well)**

Pad Location: NENE Section 1, T9S, R16E, S.L.B.&M.



SURVEYED BY: C.M.	SCALE: 1" = 50'
DRAWN BY: F.T.M.	DATE: 11-20-06

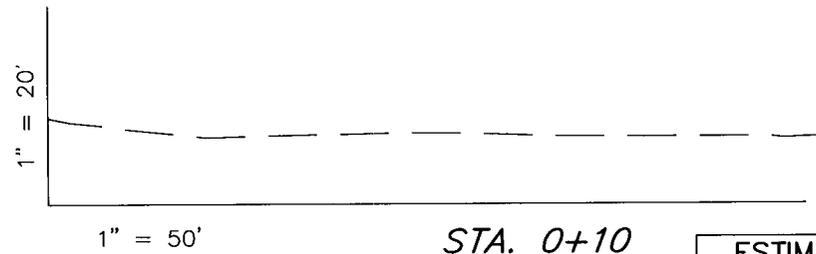
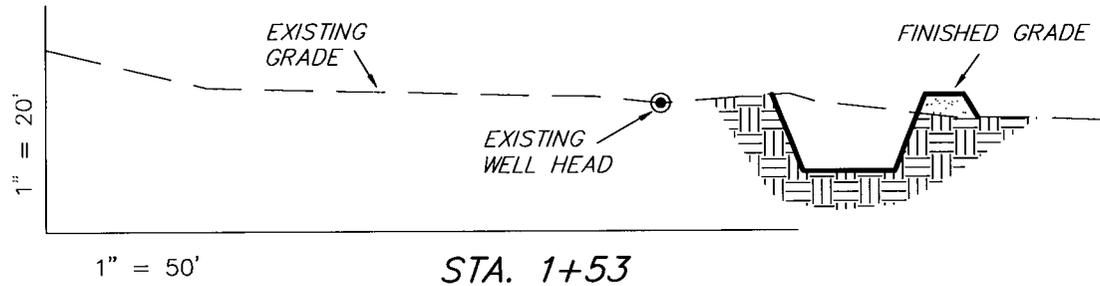
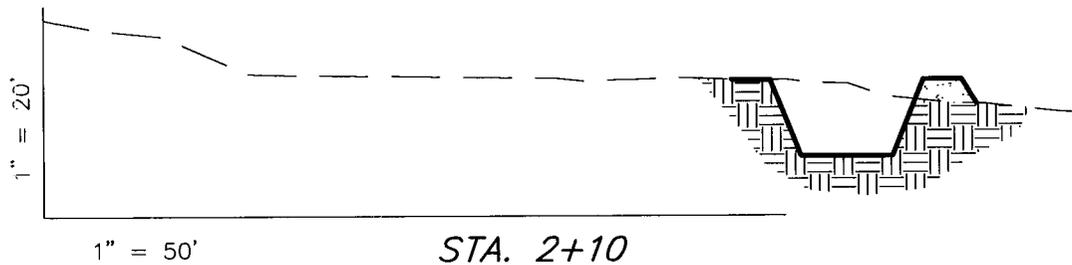
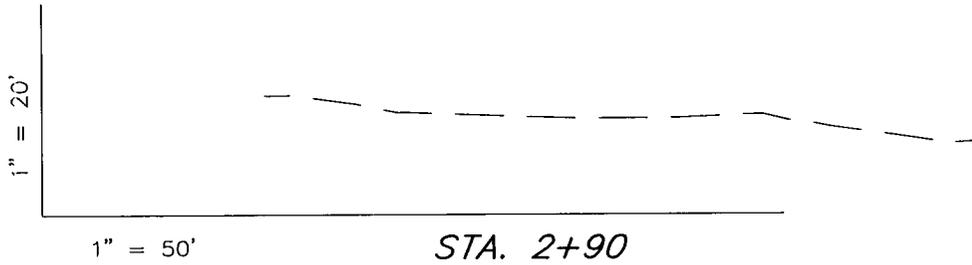
(435) 781-2501

**Tri State**  
Land Surveying, Inc.  
180 NORTH VERNAL AVE. VERNAL, UTAH 84078

# NEWFIELD PRODUCTION COMPANY

## CROSS SECTIONS

JONAH UNIT J-1-9-16 (Proposed Well)  
 JONAH UNIT 2-1-9-16 (Existing Well)



ESTIMATED EARTHWORK QUANTITIES  
 (No Shrink or swell adjustments have been used)  
 (Expressed in Cubic Yards)

ITEM	CUT	FILL	6" TOPSOIL	EXCESS
PAD	0	170	Topsoil is not included in Pad Cut	-170
PIT	550	0		550
TOTALS	550	170	130	380

NOTE:  
 UNLESS OTHERWISE NOTED  
 CUT SLOPES ARE AT 1:1  
 FILL SLOPES ARE AT 1.5:1

SURVEYED BY: C.M.

SCALE: 1" = 50'

DRAWN BY: F.T.M.

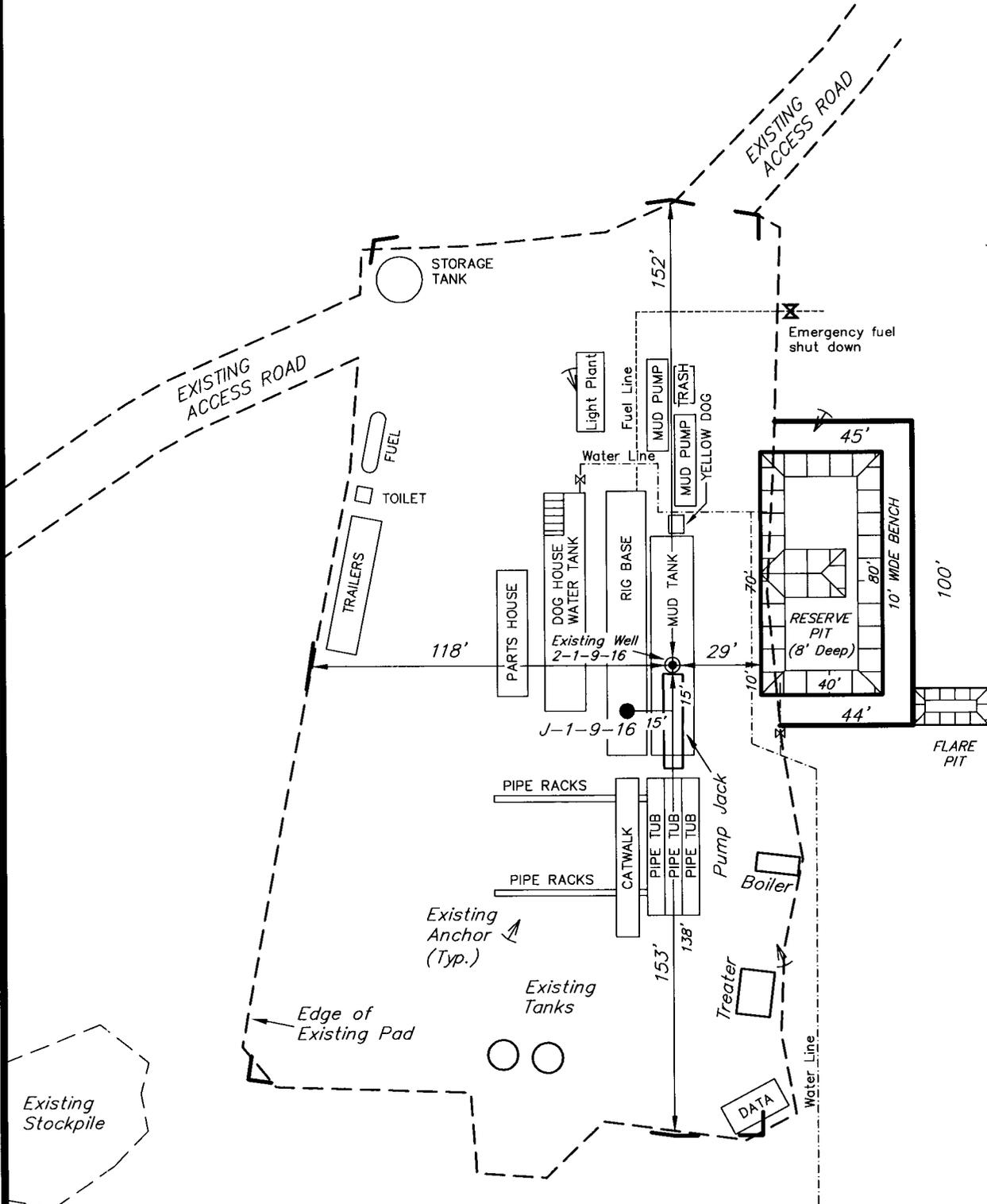
DATE: 11-20-06

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

# NEWFIELD PRODUCTION COMPANY

## TYPICAL RIG LAYOUT

JONAH UNIT J-1-9-16 (Proposed Well)  
 JONAH UNIT 2-1-9-16 (Existing Well)



REVISED:

SURVEYED BY: C.M.

SCALE: 1" = 50'

DRAWN BY: F.T.M.

DATE: 11-20-06

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

# Newfield Production Company Proposed Site Facility Diagram

Jonah Federal J-1-9-16

From the 2-1-9-16 Location

NE/NE Sec. 1 T9S, 16E

Duchesne County, Utah

UTU-40652

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

**Production Phase:**

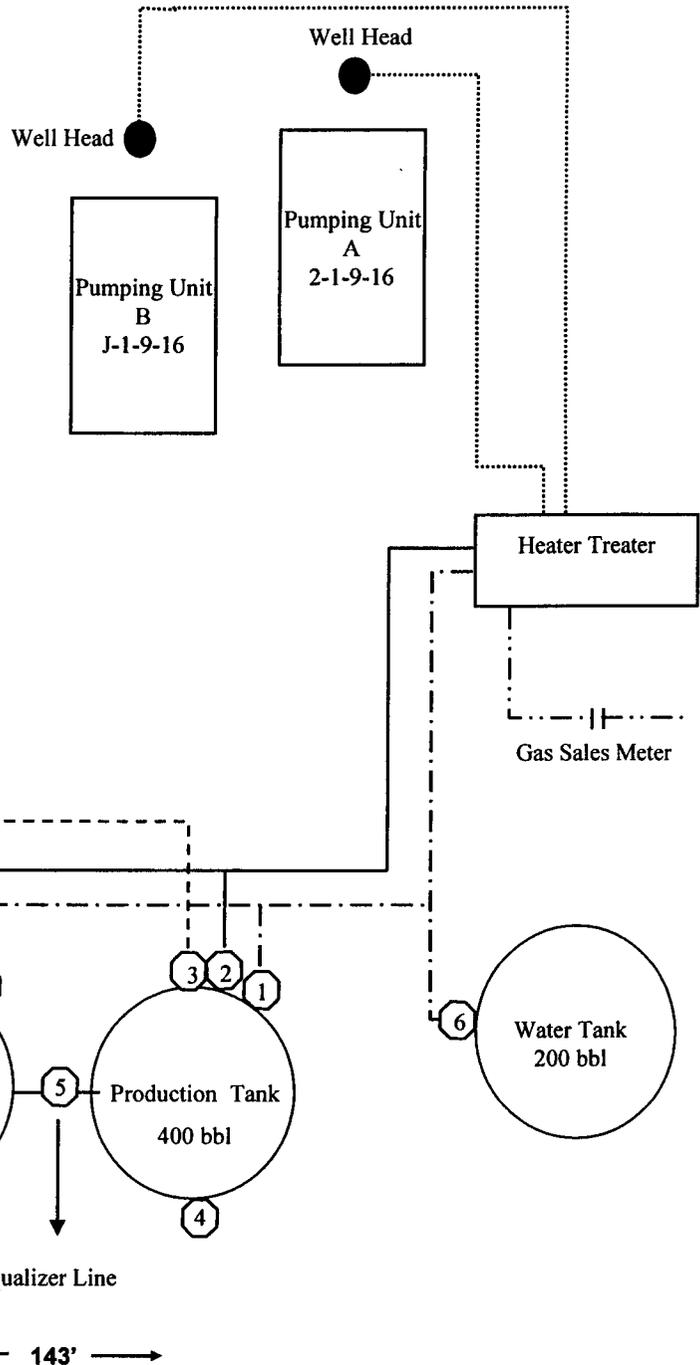
- 1) Valves 1, 3, and 4 sealed closed
- 2) Valves 2, 5 and 6 sealed open

**Sales Phase:**

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

**Draining Phase:**

- 1) Valves 1 and 6 open



← Diked Section

Load Rack

Gas Sales Meter

Water Tank  
200 bbl

Production Tank  
400 bbl

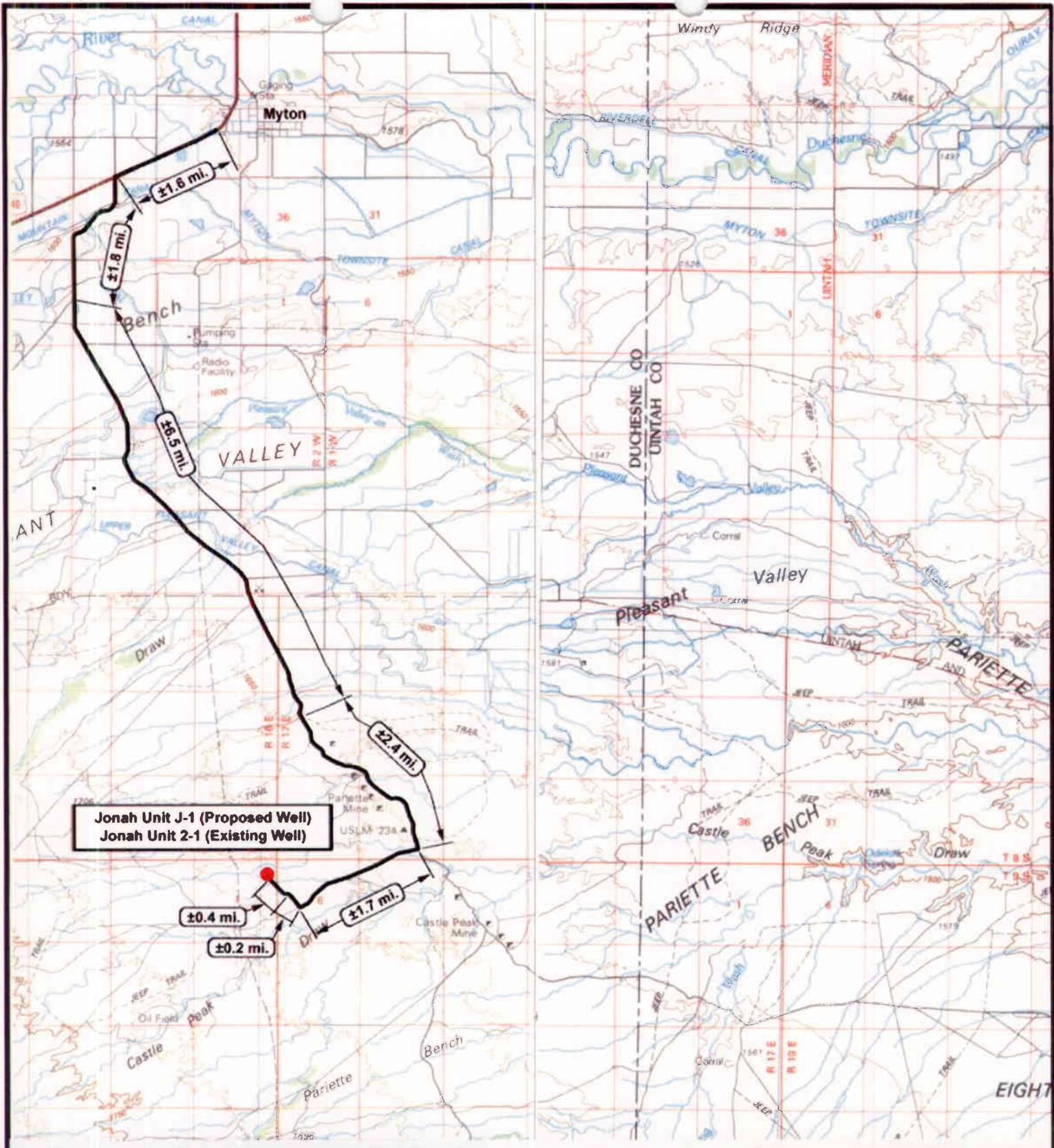
Production Tank  
400 bbl

Equalizer Line

← 143' →

**Legend**

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



Jonah Unit J-1 (Proposed Well)  
 Jonah Unit 2-1 (Existing Well)



**Jonah Unit J-1-9-16 (Proposed Well)**  
**Jonah Unit 2-1-9-16 (Existing Well)**  
 Pad Location: NENE SEC. 1, T9S, R16E, S.L.B.&M.

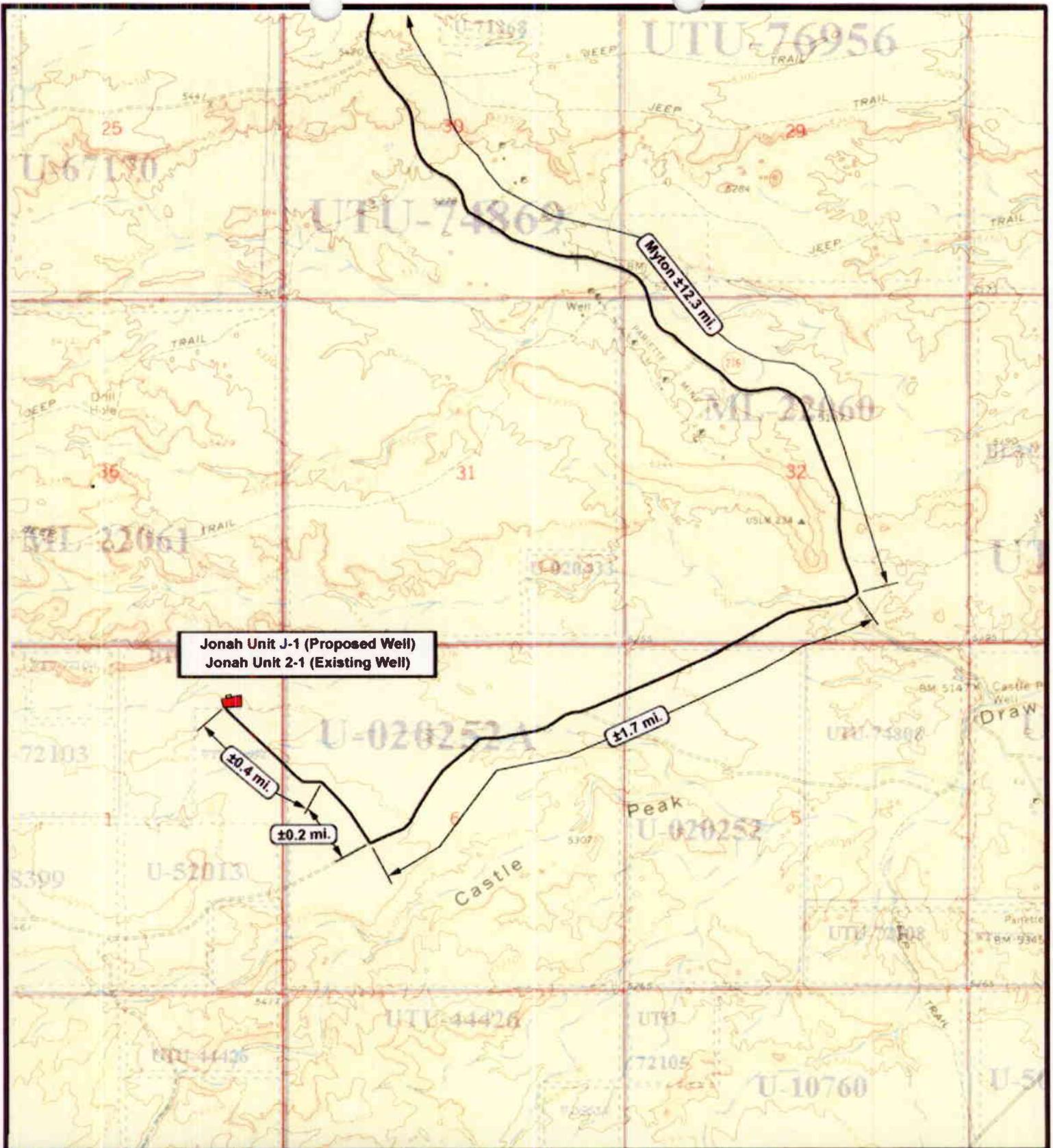


**Tri-State**  
*Land Surveying Inc.*  
 (435) 781-2501  
 180 North Vernal Ave. Vernal, Utah 84078

SCALE: 1 = 100,000  
 DRAWN BY: mw  
 DATE: 11-21-2006

**Legend**

- Existing Road
- TOPOGRAPHIC MAP**
- "A"**



Jonah Unit J-1 (Proposed Well)  
Jonah Unit 2-1 (Existing Well)

±0.4 mi.

±0.2 mi.

±1.7 mi.

Myton ±12.3 mi.

**NEWFIELD**  
Exploration Company

**Jonah Unit J-1-9-16 (Proposed Well)**  
**Jonah Unit 2-1-9-16 (Existing Well)**  
Pad Location: NENE SEC. 1, T9S, R16E, S.L.B.&M.



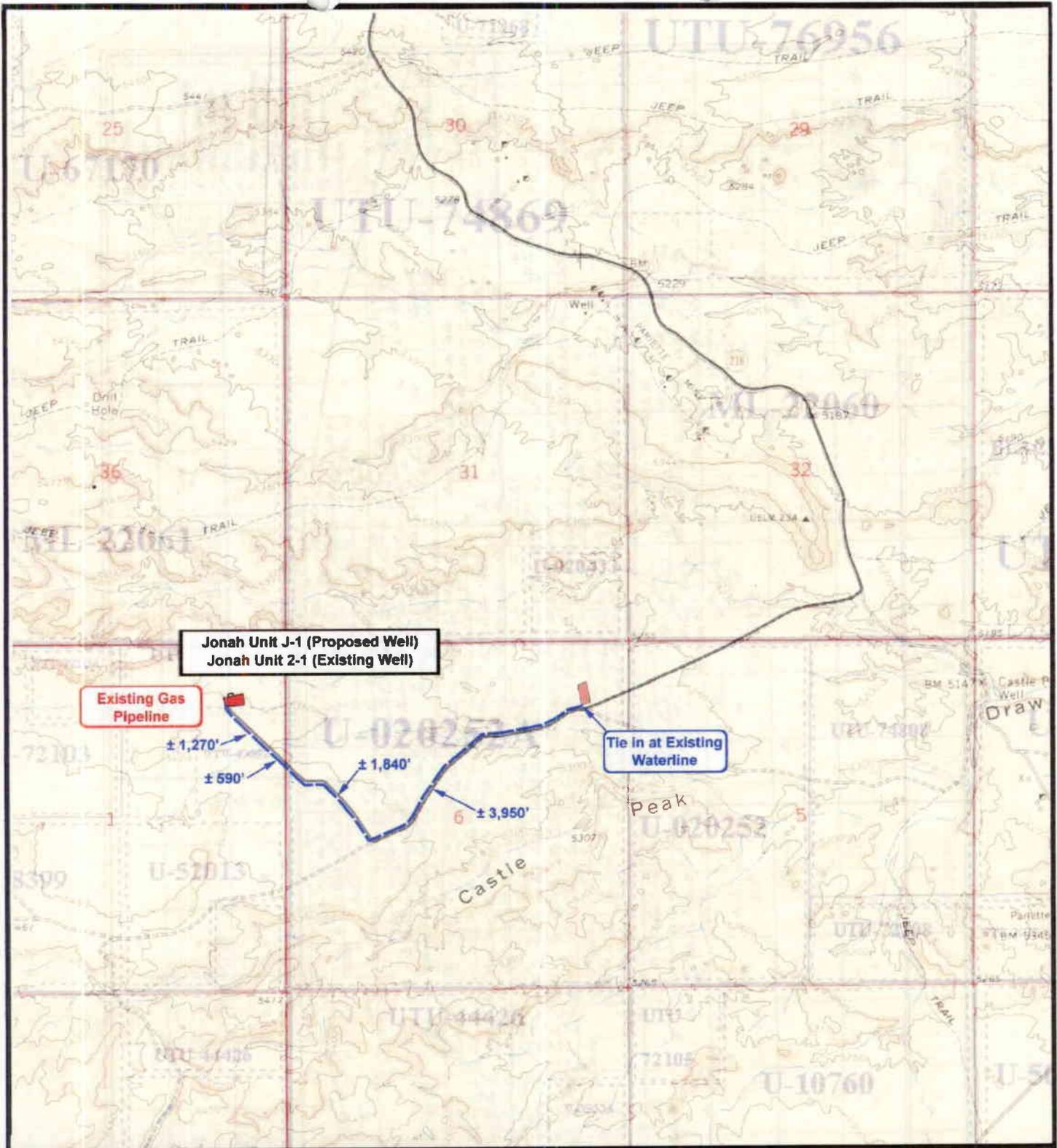
**Tri-State**  
Land Surveying Inc.  
(435) 781-2501  
180 North Vernal Ave. Vernal, Utah 84078

SCALE: 1" = 2,000'  
DRAWN BY: mw  
DATE: 11-21-2006

**Legend**

Existing Road

TOPOGRAPHIC MAP  
**"B"**



**Jonah Unit J-1 (Proposed Well)**  
**Jonah Unit 2-1 (Existing Well)**

**Existing Gas Pipeline**

**Tie in at Existing Waterline**

 **NEWFIELD**  
Exploration Company

---

**Jonah Unit J-1-9-16 (Proposed Well)**  
**Jonah Unit 2-1-9-16 (Existing Well)**  
 Pad Location: NENE SEC. 1, T9S, R16E, S.L.B.&M.



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

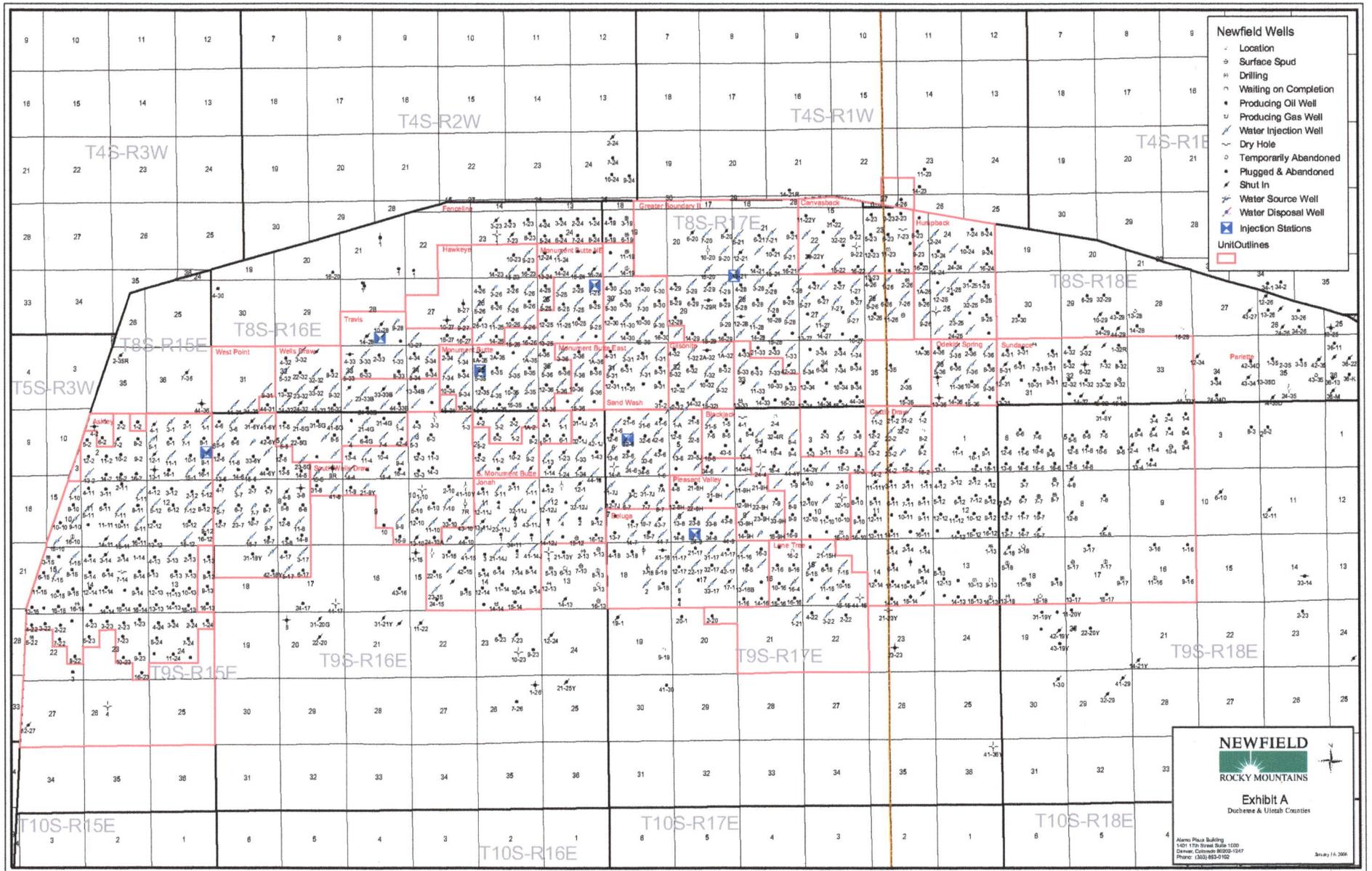
SCALE: 1" = 2,000'  
 DRAWN BY: mw  
 DATE: 11-21-2006

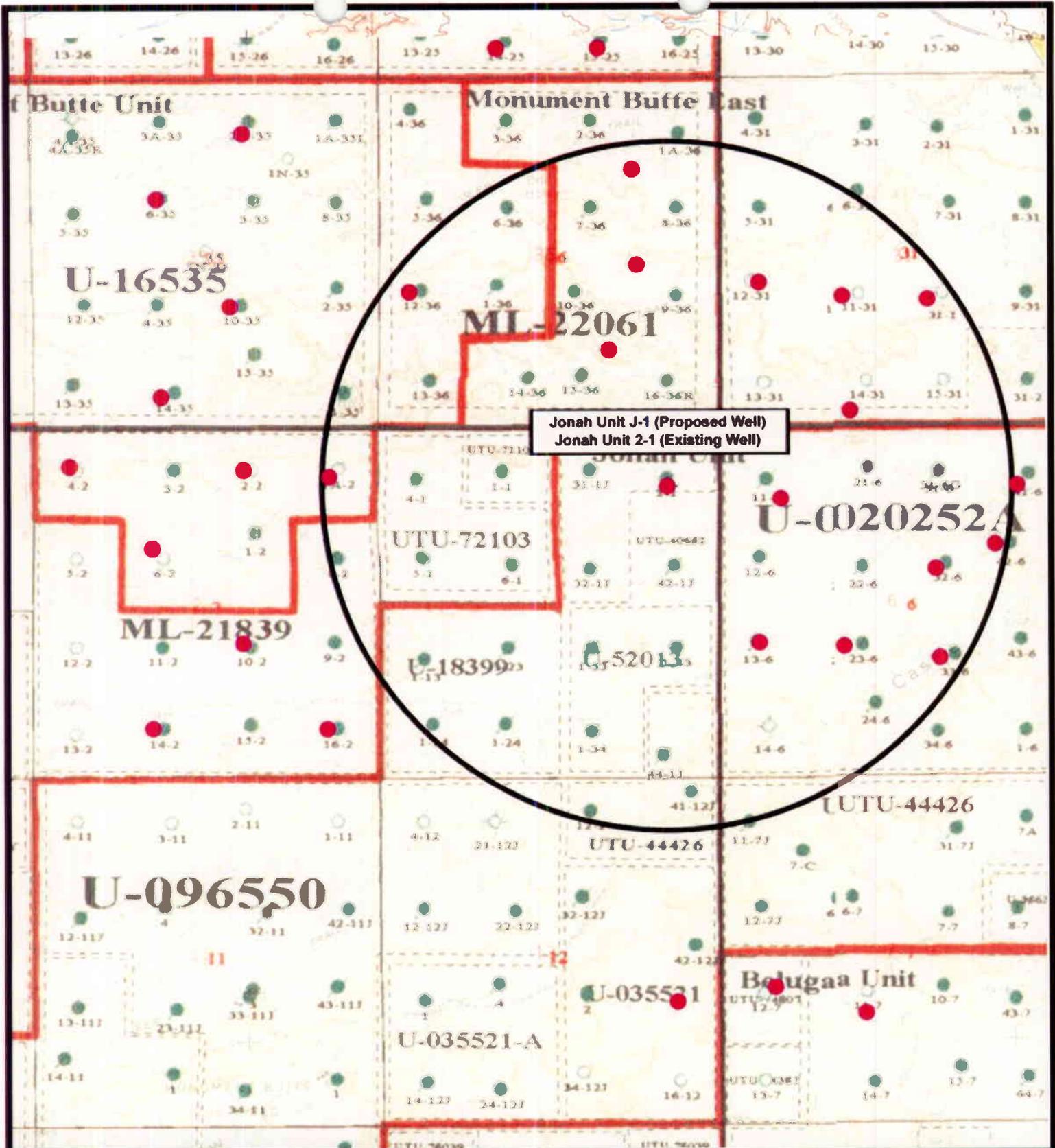
**Legend**

-  Roads
-  Proposed Water Line

**TOPOGRAPHIC MAP**

**"C"**





Jonah Unit J-1 (Proposed Well)  
 Jonah Unit 2-1 (Existing Well)



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

**Legend**

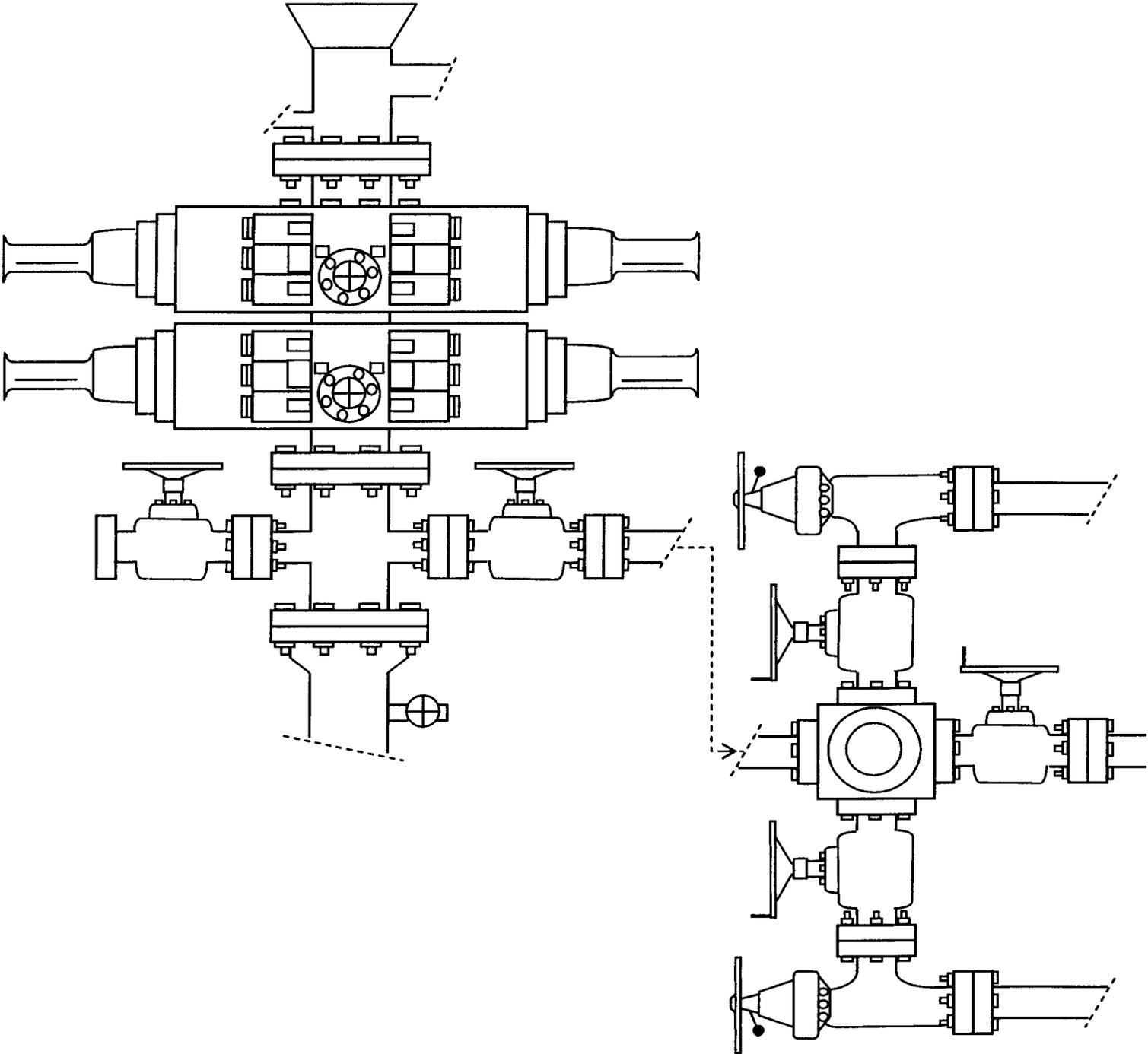
- Pad Location
- Bottom Hole Location
- One-Mile Radius

**Jonah Unit J-1-9-16 (Proposed Well)**  
**Jonah Unit 2-1-9-16 (Existing Well)**  
 Pad Location: NENE SEC. 1, T9S, R16E, S.L.B.&M.

SCALE: 1" = 2,000'  
 DRAWN BY: mw  
 DATE: 11-21-2006

**Exhibit "B"**

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



**EXHIBIT C**

**WORKSHEET  
APPLICATION FOR PERMIT TO DRILL**

APD RECEIVED: 03/02/2007

API NO. ASSIGNED: 43-013-33571

WELL NAME: JONAH FED J-1-9-16  
 OPERATOR: NEWFIELD PRODUCTION ( N2695 )  
 CONTACT: MANDIE CROZIER

PHONE NUMBER: 435-646-3721

PROPOSED LOCATION:

*SEV*  
 NENE 01 090S 160E  
 SURFACE: 0823 FNL 0769 FEL  
 BOTTOM: 1323 FNL 0000 FEL  
 COUNTY: DUCHESNE  
 LATITUDE: 40.06488 LONGITUDE: -110.0604  
 UTM SURF EASTINGS: 580132 NORTHINGS: 4435171  
 FIELD NAME: MONUMENT BUTTE ( 105 )

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

LEASE TYPE: 1 - Federal  
 LEASE NUMBER: UTU-40652  
 SURFACE OWNER: 1 - Federal

PROPOSED FORMATION: GRRV  
 COALBED METHANE WELL? NO

RECEIVED AND/OR REVIEWED:

- Plat
- Bond: Fed[1] Ind[] Sta[] Fee[]  
(No. UTB000192 )
- Potash (Y/N)
- Oil Shale 190-5 (B) or 190-3 or 190-13
- Water Permit  
(No. MUNICIPAL )
- RDCC Review (Y/N)  
(Date: \_\_\_\_\_ )
- Fee Surf Agreement (Y/N)
- Intent to Commingle (Y/N)

LOCATION AND SITING:

- R649-2-3.
- Unit: JONAH (GREEN RIVER)
- 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: 460' fr v b d r g & 920' fr other wells.
- R649-3-11. Directional Drill

COMMENTS: See Separate file

STIPULATIONS: 1- Security Approval



OPERATOR: NEWFIELD PROD CO (N2695)

SEC: 1 T.9S R.16E

FIELD: MONUMENT BUTTE (105)

COUNTY: DUCHESNE

CAUSE: 228-2 / 7-16-1993

**Field Status**

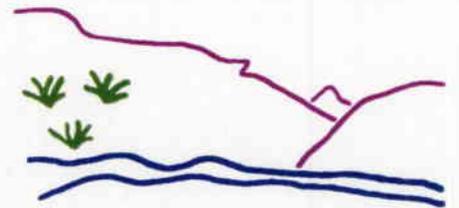
- ABANDONED
- ACTIVE
- COMBINED
- INACTIVE
- PROPOSED
- STORAGE
- TERMINATED

**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



Utah Oil Gas and Mining



PREPARED BY: DIANA MASON  
DATE: 8-MARCH-2007

# United States Department of the Interior

## BUREAU OF LAND MANAGEMENT

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

**IN REPLY REFER TO:**  
3160  
(UT-922)

March 9, 2007

Memorandum

To: Assistant District Manager Minerals, Vernal District  
From: Michael Coulthard, Petroleum Engineer  
Subject: 2007 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 well is planned for calendar year 2007 within the Jonah Unit, Duchesne County, Utah.

API #	WELL NAME	LOCATION
(Proposed PZ Green River)		
43-013-33571	Jonah Federal	J-1-9-16 Sec 01 T09S R16E 0823 FNL 0769 FEL BHL Sec 01 T09S R16E 1323 FNL 0000 FEL

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

/s/ Michael L. Coulthard

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

MCoulthard:mc:3-9-07

**NEWFIELD**



March 8, 2007

Ms. Diana Mason  
State of Utah, Div. of Oil, Gas and Mining  
P.O. Box 145801  
Salt Lake City, Utah 84114-5801

Re: Directional Drilling R649-3-11  
Jonah Unit UTU-72086A  
Jonah Federal J-1-9-16  
Duchesne County, Utah

Dear Ms.Mason:

Pursuant to the filing of Newfield Production Company's (hereinafter "NPC") Application for Permit to Drill dated 2/28/07 (copy enclosed herewith) which concerns the well described below, NPC is hereby submitting this letter in accordance with Oil & Gas Conservation Rule R649-3-11 pertaining to Directional Drilling.

Jonah Federal J-1-9-16  
BLM Lease #s UTU-33992 (surface) and UTU-40652 (bottomhole)  
823' FNL, 769' FEL (at surface)  
1323' FNL, 0' FEL (bottomhole)  
Section 1-T9S-R16E

This drillsite location is located within the boundaries of the Jonah Unit UTU-72086A. NPC is permitting this well as a directional well in order to minimize surface disturbance. By locating the well at the surface location described and directionally drilling from this location, NPC will be able to utilize the existing the existing roads and pipelines in the area. Furthermore, NPC hereby certifies that NPC is the Jonah Unit Operator and all lands within 460 feet of each of the entire directional well bores are within the Jonah Unit.

Therefore, based on the above stated information NPC requests that the permit be granted pursuant to R649-3-11. Thank you for your consideration in this matter.

Sincerely,

**Newfield Production Company**

  
Rhonda Deimer  
Land Associate

**RECEIVED**

**MAR 12 2007**

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

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

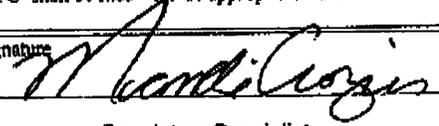
APPLICATION FOR PERMIT TO DRILL OR REENTER

1a. Type of Work: <input checked="" type="checkbox"/> DRILL <input type="checkbox"/> REENTER		5. Lease Serial No. UTU-40652
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 J-1-9-16
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 NE/NE 823' FNL 769' FEL At proposed prod. zone SE/NE 1323' FNL 0' FEL		10. Field and Pool, or Exploratory Monument Butte
14. Distance in miles and direction from nearest town or post office* Approximately 14.6 miles southwest of Myton, Utah		11. Sec., T., R., M., or Blk. and Survey or Area Sec. 1, T9S R16E
15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any) Approx. 3' /lss, 1323' /unit	16. No. of Acres in lease 40.00	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. 1393'	19. Proposed Depth 6215'	20. BLM/BIA Bond No. on file UTB000192
21. Elevations (Show whether DF, KDB, RT, GL, etc.) 5351' GL	22. Approximate date work will start* 2nd Quarter 2007	23. Estimated duration Approximately seven (7) days from start to rig release.

24. Attachments

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

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

25. Signature 	Name (Printed/Typed) Mandie Crozier	Date 2/28/07
Title Regulatory Specialist		
Approved by (Signature)	Name (Printed/Typed)	Date
Title	Office	

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

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

\*(Instructions on reverse)

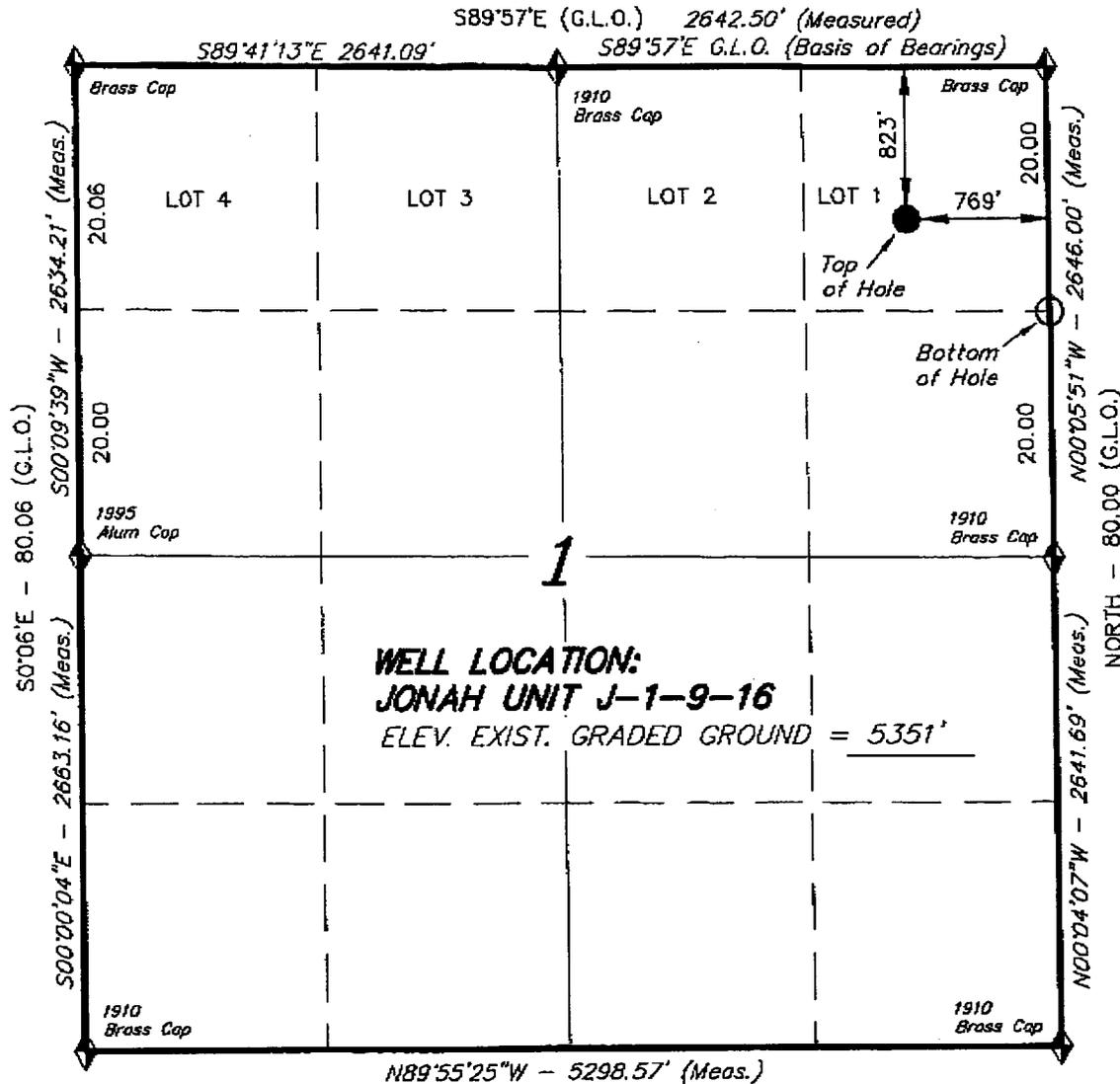
RECEIVED

MAR 12 2007

DIV. OF OIL, GAS & MINING

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

NEWFIELD PRODUCTION COMPANY



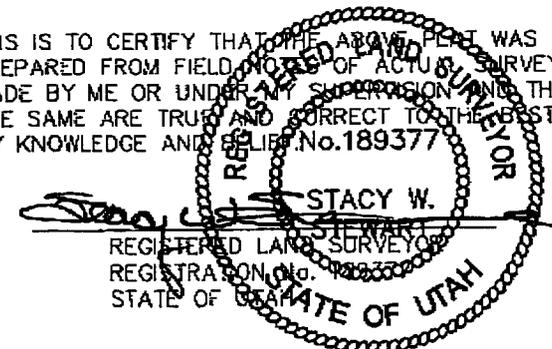
WELL LOCATION, JONAH UNIT J-1-9-16,  
 LOCATED AS SHOWN IN THE NE 1/4 NE  
 1/4 OF SECTION 1, T9S, R16E, S.L.B.&M.  
 DUCHESNE COUNTY, UTAH.



**Note:**

1. The bottom of hole (J-1-9-16 NW/NW) bears S56°59'13"E 918.33' from the Top of Hole.
2. The Bottom of hole footage are 1323' FNL & 0' FEL.

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



REGISTERED LAND SURVEYOR  
 REGISTRATION No. 189377  
 STATE OF UTAH

◆ = SECTION CORNERS LOCATED

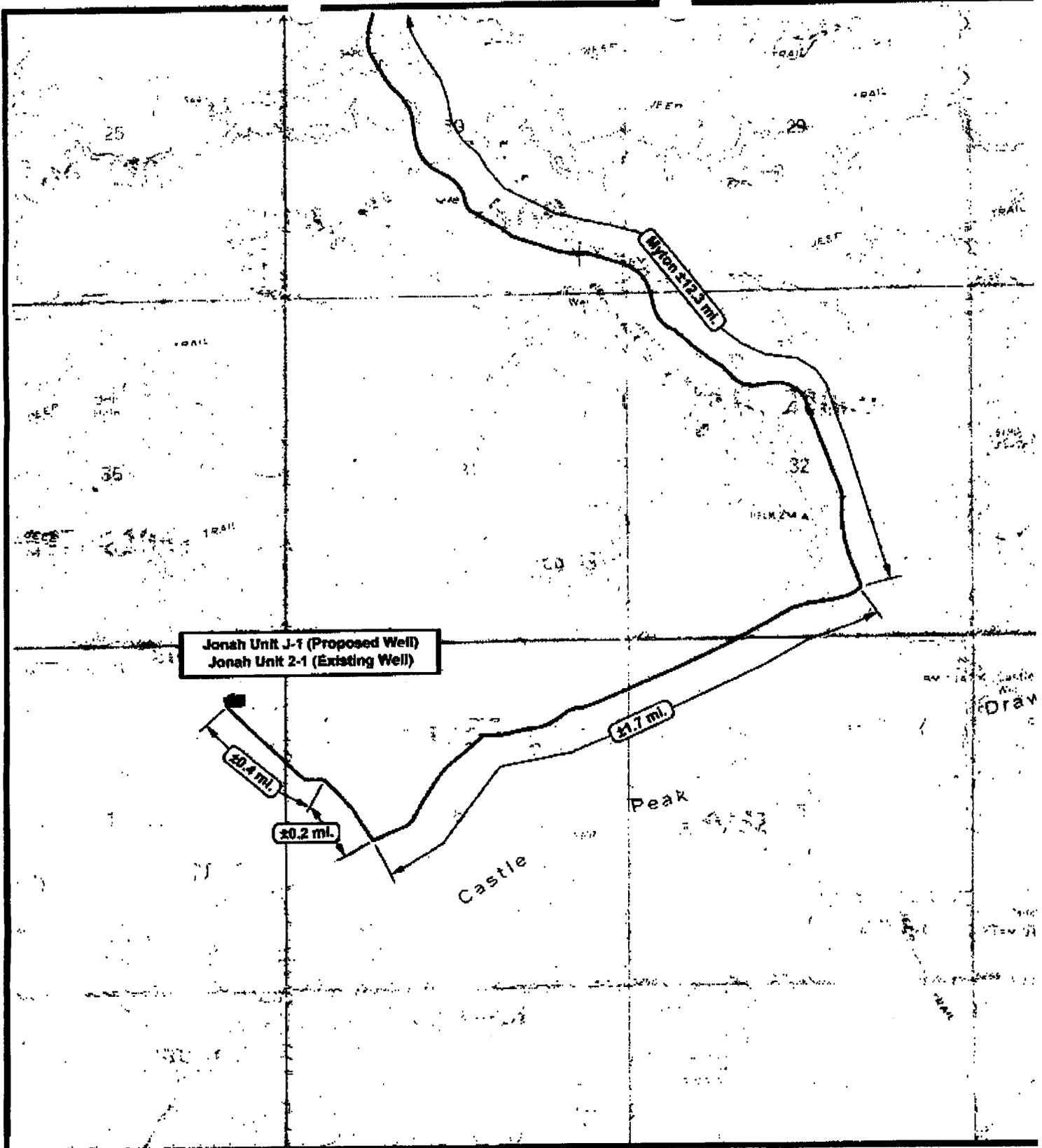
BASIS OF ELEV:  
 U.S.G.S. 7-1/2 min QUAD (MYTON SE)

JONAH UNIT J-1-9-16  
 (Surface Location) NAD 83  
 LATITUDE = 40° 03' 53.43"  
 LONGITUDE = 110° 03' 39.98"

**TRI STATE LAND SURVEYING & CONSULTING**

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

DATE SURVEYED: 11-19-06	SURVEYED BY: C.M.
DATE DRAWN: 11-20-06	DRAWN BY: F.T.M.
REVISED:	SCALE: 1" = 1000'



Jonah Unit J-1 (Proposed Well)  
Jonah Unit 2-1 (Existing Well)

20.4 mi.

20.2 mi.

21.7 mi.

212.5 mi.

Castle

Peak

Draw



Tri-State  
Land Surveying Inc.

**Jonah Unit J-1-9-16 (Proposed Well)**  
**Jonah Unit 2-1-9-16 (Existing Well)**  
Pad Location: NENE SEC. 1, 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: mw

DATE: 11-21-2006

**Legend**  
Existing Road

TOPOGRAPHIC MAP

**"B"**



**State of Utah**

**Department of  
Natural Resources**

MICHAEL R. STYLER  
*Executive Director*

**Division of  
Oil, Gas & Mining**

JOHN R. BAZA  
*Division Director*

JON M. HUNTSMAN, JR.  
*Governor*

GARY R. HERBERT  
*Lieutenant Governor*

March 12, 2007

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

Re: Jonah Federal J-1-9-16 Well, Surface Location 823' FNL, 769' FEL, NE NE,  
Sec. 1, T. 9 South, R. 16 East, Bottom Location 1323' FNL, 0000' FEL,  
SE NE, Sec. 1, 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 43-013-33571.

Sincerely,

Gil Hunt  
Associate Director

pab  
Enclosures

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



UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT  
**APPLICATION FOR PERMIT TO DRILL OR REENTER**

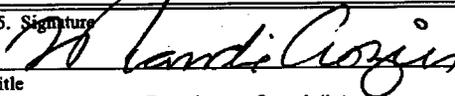
FORM APPROVED  
OMB No. 1004-0136  
Expires January 31, 2004

5. Lease Serial No. <b>UTU-33992</b>	
6. If Indian, Allottee or Tribe Name <b>N/A</b>	
7. If Unit or CA Agreement, Name and No. <b>Jonah Unit</b>	
8. Lease Name and Well No. <b>Jonah Federal J-1-9-18</b>	
9. API Well No. <b>43-013 33571</b>	
1a. Type of Work: <input checked="" type="checkbox"/> DRILL <input type="checkbox"/> REENTER	10. Field and Pool, or Exploratory <b>Monument Butte</b>
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	11. Sec., T., R., M., or Blk. and Survey or Area <b>Sec. 1, T9S R16E</b>
2. Name of Operator <b>Newfield Production Company</b>	
3a. Address <b>Route #3 Box 3630, Myton UT 84052</b>	3b. Phone No. (include area code) <b>(435) 646-3721</b>
4. Location of Well (Report location clearly and in accordance with any State requirements. *) At surface <b>NE/NE 823' FNL 769' FEL</b> At proposed prod. zone <b>SE/NE 1323' FNL 0' FEL</b>	
12. County or Parish <b>Duchesne</b>	
13. State <b>UT</b>	
14. Distance in miles and direction from nearest town or post office* <b>Approximatley 14.6 miles southwest of Myton, Utah</b>	
15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any) Approx. 3' f/lee, 1323' f/unit	16. No. of Acres in lease <b>40.00</b>
17. Spacing Unit dedicated to this well <b>20 Acres</b>	18. Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft. Approx. 1393'
19. Proposed Depth <b>6215'</b>	20. BLM/BIA Bond No. on file <b>UTB000192</b>
21. Elevations (Show whether DF, KDB, RT, GL, etc.) <b>5351' GL</b>	22. Approximate date work will start* <b>2nd Quarter 2007</b>
23. Estimated duration <b>Approximately seven (7) days from spud to rig release.</b>	

**24. Attachments**

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

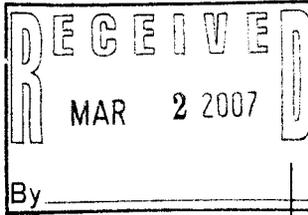
- |   |  |
|---|--|
| 1. Well plat certified by a registered surveyor.  | 4. Bond to cover the operations unless covered by an existing bond on file (see Item 20 above).    |
| 2. A Drilling Plan.   | 5. Operator certification.   |
| 3. A Surface Use Plan (if the location is on National Forest System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

25. Signature 	Name (Printed/Typed) <b>Mandie Crozier</b>	Date <b>2/28/07</b>
Title <b>Regulatory Specialist</b>		
Approved by (Signature)	Name (Printed/Typed)	Date
Title	Office	

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

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

\*(Instructions on reverse)



Form 3160-3  
(September 2001)

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

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL OR REENTER

1a. Type of Work: <input checked="" type="checkbox"/> DRILL <input type="checkbox"/> REENTER		5. Lease Serial No. UTU-33992
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 J-1-9-16
3b. Phone No. (include area code) (435) 646-3721		9. API Well No. A3-D13-33571
4. Location of Well (Report location clearly and in accordance with any State requirements.)* At surface NE/NE 823' FNL 769' FEL Lot 2 At proposed prod. zone SE/NE 1323' FNL 0' FEL		10. Field and Pool, or Exploratory Monument Butte
14. Distance in miles and direction from nearest town or post office* Approximatley 14.6 miles southwest of Myton, Utah		11. Sec., T., R., M., or Blk. and Survey or Area Sec. 1, T9S R16E
15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any) Approx. 3' f/lse, 1323' f/unit	16. No. of Acres in lease 40.00	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. 1393'	19. Proposed Depth 6215'	20. BLM/BIA Bond No. on file UTB000192
21. Elevations (Show whether DF, KDB, RT, GL, etc.) 5351' GL	22. Approximate date work will start* 2nd Quarter 2007	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>Mandie Crozier</i>	Name (Printed/Typed) Mandie Crozier	Date 2/28/07
Title Regulatory Specialist		

Approved by (Signature) <i>Jerry Kewzka</i>	Name (Printed/Typed) JERRY KEWZKA	Date 7-16-2007
Title Assistant Field Manager Lands & Mineral Resources		
Office VERNAL FIELD OFFICE		

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

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

\*(Instructions on reverse)

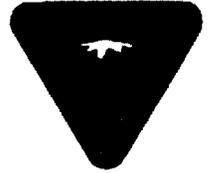
CONDITIONS OF APPROVAL ATTACHED  
RECEIVED  
JUL 23 2007  
DIV. OF OIL, GAS & MINING

No NOG  
07PP1439A



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

170 South 500 East      VERNAL, UT 84078      (435) 781-4400



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

**Company:** Newfield Production Company  
**Well No:** Jonah Federal J-1-9-16  
**API No:** 43-013-33571

**Location:** Lot 1, Sec 1, T9S, R16E  
**Lease No:** UTU-33992  
**Agreement:** Jonah Unit

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

Fax: 435-781-4410

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

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

**NOTIFICATION REQUIREMENTS**

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

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

**General Surface COAs**

- If there is an active Gilsonite mining operation within 2 miles of the well location, operator shall notify the Gilsonite operator at least 48 hours prior to any blasting during construction.
- If paleontological materials are uncovered during construction, the operator is to immediately stop work and contact the Authorized Officer AO. A report will be prepared by a BLM permitted paleontologist and submitted to the AO at the completion of surface disturbing activities.

**Specific Surface COAs**

**STIPULATIONS:**

- Adhere to Executive Order 5327 of April 15, 1930, stipulations for lands in oil shale withdrawal.
- Lands in this lease have been identified as containing Mountain Plover and Ferruginous Hawk habitats. Modifications to the Surface Use Plan of Operations will be required in order to protect the Mountain Plover and Ferruginous Hawk habitats from surface disturbing activities in accordance with Section 6 of the lease term, Endangered Species Act, and 43 CFR 3101.1-2.
- Timing Limitations (during construction and drilling) – **May 15 through June 15** – in order to protect Mountain Plover habitat, and – **March 1 through July 15** – to protect Ferruginous Hawk nesting season

**CONDITIONS OF APPROVAL:**

- This well is being approved in accordance with Washington Instruction Memorandum 2005-247 and Section 390 (Category 3) of the Energy Policy Act which establishes statutory categorical exclusions (CX) under the National Environmental Policy Act (NEPA). Category 3 states that an oil or gas well can be drilled within a developed field for which an approved land use plan or any environmental document prepared pursuant to NEPA analyzed drilling as a reasonably foreseeable activity, so long as such plan or document was approved within five (5) years prior to the date of spudding the well. This well is covered under the *Final Environmental Impact Statement and Record of Decision Castle Peak and Eightmile Flat Oil and Gas Exploration Project Newfield Rocky Mountains Inc.*, signed August 24, 2005. If the well has not been spudded by August 24, 2010, a new environmental document will have to be prepared prior to the approval of the APD.
- All applicable local, state, and/or federal laws, regulations, and/or statutes will be complied with.
- All traffic related to this action will be restricted to approved routes. Cross-country vehicle travel will not be allowed.
- No vehicle travel, construction or routine maintenance activities shall be performed during periods when the soil is too wet to adequately support vehicles and/or construction equipment. If such equipment creates ruts in excess of three inches deep in a straight line travel path, the soil shall be deemed too wet to adequately support construction equipment.

- The access road will be crowned and ditched. Flat-bladed roads are not allowed.
- If additional erosion occurs during the life of this project, more culverts, low water crossings, berms, wing ditches or etc. will be needed to control the erosion.
- Low-water crossings will be appropriately constructed to avoid sedimentation of drainage ways and other water resources.
- Pipelines will be buried at all major drainage crossings.
- Prevent fill and stock piles from entering drainages.
- The reserve pit will be lined with a 12 ml or greater liner and felt prior to spudding.
- The liner is to be cut 5 feet below ground surface or at the level of the cuttings, whichever is deeper, and the excess liner material is to be disposed of at an authorized disposal site.
- When the reserve pit contains fluids or toxic substances, the operator must ensure animals do not ingest or become entrapped in pit fluids.
- 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.
- If Uinta Basin hookless cactus or other special status plants are found, construction will cease and the AO will be notified to determine the appropriate mitigation.
- The following seed mix (PLS formula) will be used for interim reclamation:

Shadscale	( <i>Atriplex confertifolia</i> ):	3 lbs/acre
Galleta Grass	( <i>Hilaria jamesii</i> )	6 lbs/acre

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

- The operator will be responsible for treatment and control of invasive and noxious weeds.

Prior to any treatment on BLM administered lands, a Pesticide Use Proposal will be submitted to the Vernal Field Office for approval.

- The topsoil from the reserve pit shall be stripped and piled separately near the reserve pit. When the reserve pit is closed, it shall be recontoured and the topsoil respread, and the area shall be seeded in the same manner as the location topsoil.
- Once the location is plugged and abandoned, it shall be recontoured to natural topography, topsoil shall be respread, and the entire location shall be seeded with a seed mix recommended by the AO (preferably of native origin). Seed application will follow all guidelines in the interim seed mix bullet statement above. If reclamation seeding shall take place using the broadcast method, the seed at a minimum will be walked into the soil with a dozer immediately after the seeding is completed.

- The authorized officer may prohibit surface disturbing activities during severe winter conditions to minimize watershed damage. This limitation does not apply to operation and maintenance of producing wells.
- The authorized officer may prohibit surface disturbing activities during wet or muddy conditions to minimize watershed damage. This limitation does not apply to operation and maintenance of producing wells.
- All well facilities not regulated by OSHA will be painted Carlsbad Canyon.
- All boulders with a length or diameter greater than 3 feet, that are found showing at the surface, will be stockpiled for use during final reclamation.
- Notify the Authorized Officer 48 hours prior to surface disturbing activities.

## **DOWNHOLE CONDITIONS OF APPROVAL**

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

- None

**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.
- 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.

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

## **OPERATING REQUIREMENT REMINDERS:**

- All wells, whether drilling, producing, suspended, or abandoned, shall be identified in accordance with 43 CFR 3162.6. There shall be a sign or marker with the name of the operator, lease serial number, well number, and surveyed description of the well.
- In accordance with 43 CFR 3162.4-3, this well shall be reported on the "Monthly Report of Operations" Oil and Gas Operations Report OGOR starting with the month in which operations commence and continue each month until the well is physically plugged and abandoned. This report shall be filed in duplicate, directly with the Minerals Management Service, P.O. Box 17110, Denver, Colorado 80217-0110, or call 1-800-525-7922 303 231-3650 for reporting information.
- Should the well be successfully completed for production, the BLM Vernal Field office must be notified when it is placed in a producing status. Such notification will be by written communication and must be received in this office by not later than the fifth business day following the date on which the well is placed on production. The notification shall provide, as a minimum, the following informational items:
  - Operator name, address, and telephone number.
  - Well name and number.
  - Well location  $\frac{1}{4}$   $\frac{1}{4}$ , 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.

# DIVISION OF OIL, GAS AND MINING

## SPUDDING INFORMATION

Name of Company: NEWFIELD PRODUCTION COMPANY

Well Name: JONAH FED J-1-9-16

Api No: 43-013-33571 Lease Type: FEDERAL

Section 01 Township 09S Range 16E County DUCHESNE

Drilling Contractor NDSI RIG # NS#1

### SPUDDED:

Date 08/14/07

Time 2:00 PM

How DRY

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

Reported by DON BASTIAN

Telephone # (435) 823-6013

Date 08/14/07 Signed CHD

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

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

1. Type of Well <input checked="" type="checkbox"/> Oil Well <input type="checkbox"/> Gas Well <input type="checkbox"/> Other		5. Lease Serial No. USA UTU-33992
2. Name of Operator NEWFIELD PRODUCTION COMPANY		6. If Indian, Allottee or Tribe Name.
3a. Address    Route 3 Box 3630 Myton, UT 84052	3b. Phone    (include are code) 435.646.3721	7. If Unit or CA/Agreement, Name and/or JONAH UNIT
4. Location of Well    (Footage, Sec., T., R., M., or Survey Description)  Section 1 T9S R16E		8. Well Name and No. JONAH FEDERAL J-1-9-16
		9. API Well No. 4301333571
		10. Field and Pool, or Exploratory Area MONUMENT BUTTE
		11. County or Parish, State DUCHESNE, UT

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

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

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

On 8/14/07 MIRU NDSI NS# 1.Spud well @ 2:00 pm. Drill 310' of 12 1/4" hole with air mist. TIH W/ 7 Jt's 8 5/8" J-55 24 # csgn. Set @ 306.57' On 8/17/07 cement with 160 sks of class "G" w/ 3% CaCL2 + 1/4# sk Cello- Flake Mixed @ 15.8 ppg > 1.17 cf/ sk yeild. Returned 5 bbls cement to pit. WOC.

I hereby certify that the foregoing is true and correct (Printed/ Typed) Don Bastian	Title Drilling Foreman
Signature 	Date 08/17/2007

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 reverse)

**RECEIVED**  
AUG 20 2007  
DIV. OF OIL, GAS & MINING

# NEWFIELD PRODUCTION COMPANY - CASING & CEMENT REPORT

8 5/8 CASING SET AT 306.57

LAST CASING 8 5/8" SET AT 306.57'  
 DATUM 12' KB  
 DATUM TO CUT OFF CASING \_\_\_\_\_  
 DATUM TO BRADENHEAD FLANGE \_\_\_\_\_  
 TD DRILLER 310' LOGGER \_\_\_\_\_  
 HOLE SIZE 12 1/4

OPERATOR NewField Production Company  
 WELL Jonah Federal J-1-9-16  
 FIELD/PROSPECT Monument Butte  
 CONTRACTOR & RIG # NDSI NS # 1

**LOG OF CASING STRING:**

PIECES	OD	ITEM - MAKE - DESCRIPTION	WT / FT	GRD	THREAD	CONDT	LENGTH
		Shoe Joint 40.42'					
		WHI - 92 csg head			8rd	A	0.95
7	8 5/8"	Maverick ST&C csg	24#	J-55	8rd	A	294.72
		<b>GUIDE</b> shoe			8rd	A	0.9
CASING INVENTORY BAL.		FEET	JTS	TOTAL LENGTH OF STRING			296.57
TOTAL LENGTH OF STRING		296.57	7	LESS CUT OFF PIECE			2
LESS NON CSG. ITEMS		1.85		PLUS DATUM TO T/CUT OFF CSG			12
PLUS FULL JTS. LEFT OUT		0		CASING SET DEPTH			<b>306.57</b>
TOTAL		294.72	7	} COMPARE			
TOTAL CSG. DEL. (W/O THRDS)		294.72	7				
TIMING		1ST STAGE					
BEGIN RUN CSG.	Spud	8/14/2007	2:00 PM	GOOD CIRC THRU JOB <u>Yes</u>			
CSG. IN HOLE		8/15/2007	11:30 AM	Bbls CMT CIRC TO SURFACE <u>5</u>			
BEGIN CIRC		8/17/2007	8:22 AM	RECIPROCATED PIPE FOR _____ THRU _____ FT STROKE			
BEGIN PUMP CMT		8/17/2007	8:31 AM	N/A			
BEGIN DSPL. CMT		8/17/2007	8:42 AM	BUMPED PLUG TO _____ 120 _____ PSI			
PLUG DOWN		8/17/2007	8:50 AM				

CEMENT USED		CEMENT COMPANY- <b>B. J.</b>					
STAGE	# SX	CEMENT TYPE & ADDITIVES					
1	160	Class "G" w/ 2% CaCL2 + 1/4#/sk Cello-Flake mixed @ 15.8 ppg 1.17 cf/sk yield					
CENTRALIZER & SCRATCHER PLACEMENT		SHOW MAKE & SPACING					
Centralizers - Middle first, top second & third for 3							

COMPANY REPRESENTATIVE Don Bastian DATE 8/17/2007

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

OPERATOR: NEWFIELD PRODUCTION COMPANY  
 ADDRESS: RT. 3 BOX 3830  
MYTON, UT 84062

OPERATOR ACCT. NO. N2885

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	12417	4301333281	LONE TREE FED 2-21-9-17	NWNE	21	9S	17E	DUCHESNE	8/13/2007	8/28/07
WELL 1 COMMENTS: <i>GRU</i>											
B	99999	11880	4301332808	BELUGA FED 15-18-9-17	SWSE	18	9S	17E	DUCHESNE	8/10/2007	8/28/07
WELL 2 COMMENTS: <i>GRU</i>											
B	99999	11492	4301333571	JONAH J-1-9-16	NENE	1	9S	16E	DUCHESNE	8/14/2007	8/28/07
WELL 3 COMMENTS: <i>GRU BHL = SENE</i>											
WELL 5 COMMENTS:											
WELL 5 COMMENTS:											

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

RECEIVED  
 AUG 16 2007

*Jenri Park*  
 Signature  
 Production Clerk  
 August 16, 2007  
 Date

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

DIV. OF OIL, GAS & MINING

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

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

5. Lease Serial No.  
USA UTU-33992

6. If Indian, Allottee or Tribe Name.

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

8. Well Name and No.  
JONAH FEDERAL J-1-9-16

9. API Well No.  
4301333571

10. Field and Pool, or Exploratory Area  
MONUMENT BUTTE

11. County or Parish, State  
DUCHESNE, UT

1. Type of Well  
 Oil Well  Gas Well  Other

2. Name of Operator  
NEWFIELD PRODUCTION COMPANY

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

3b. Phone (include area code)  
435.646.3721

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)  
Section 1 T9S R16E

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	<input type="checkbox"/> Plug Back	<input type="checkbox"/> Water Disposal		

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

On 8/20/07 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 @ 266'. Drill out cement & shoe. Drill a 7.875 hole with fresh water to a depth of 6247'. 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, 158 jt's of 5.5 J-55, 15.5# csgn. Set @6230.50' / KB. Cement with 365 sks cement mixed @ 11.0 ppg & 3.43 yld. The 450 sks cement mixed @ 14.4 ppg & 1.24 yld. Returned 35 bbls of cement to reserve pit. Nipple down Bop's. Drop slips @ 68,000 #'s tension. Release rig @ 8:00 am 8/28/07.

RECEIVED  
AUG 29 2007

DIV. OF OIL, GAS & MINERAL

I hereby certify that the foregoing is true and correct (Printed/ Typed) Don Bastian	Title Drilling Foreman
Signature <i>Don Bastian</i>	Date 08/28/2007

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 _____	

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(Instructions on reverse)

# NEWFIELD PRODUCTION COMPANY - CASING & CEMENT REPORT

5 1/2" CASING SET AT 6230.5

Flt clr @ 6193.4

LAST CASING 8 5/8" SET # 306'  
 DATUM 12' KB  
 DATUM TO CUT OFF CASING 12'  
 DATUM TO BRADENHEAD FLANGE \_\_\_\_\_  
 TD DRILLER 6281' Loggers 6235'  
 HOLE SIZE 7 7/8"

OPERATOR Newfield Production Company  
 WELL Jonah Federal J-1-9-16  
 FIELD/PROSPECT Monument Butte  
 CONTRACTOR & RIG # NDSI #2  
 TVD 6155'

**LOG OF CASING STRING:**

PIECES	OD	ITEM - MAKE - DESCRIPTION	WT / FT	GRD	THREAD	CONDT	LENGTH
		Landing Jt					14
		Short jt 3646' (6.28')					
159	5 1/2"	ETC LT & C casing	15.5#	J-55	8rd	A	6179.4
		Float collar					0.6
1	5 1/2"	ETC LT&C csg	15.5#	J-55	8rd	A	37.85
		<b>GUIDE</b> shoe			8rd	A	0.65
CASING INVENTORY BAL.		FEET	JTS	TOTAL LENGTH OF STRING			6232.5
TOTAL LENGTH OF STRING		6232.5	159	LESS CUT OFF PIECE			14
LESS NON CSG. ITEMS		15.25		PLUS DATUM TO T/CUT OFF CSG			12
PLUS FULL JTS. LEFT OUT		352.04	9	CASING SET DEPTH			<b>6230.5</b>
TOTAL		<b>6561.29</b>	168	} COMPARE			
TOTAL CSG. DEL. (W/O THRDS)		6561.29	168				
TIMING		1ST STAGE	2nd STAGE				
BEGIN RUN CSG.		11:00PM	8/27/2007	GOOD CIRC THRU JOB <u>Yes</u>			
CSG. IN HOLE		3:30 PM	8/28/2007	Bbls CMT CIRC TO SURFACE <u>35</u>			
BEGIN CIRC		3:30 AM	8/28/2007	RECIPROCATED PIPE FOR <u>THRUSTROKE NA</u>			
BEGIN PUMP CMT		4:50 AM	8/28/2007	DID BACK PRES. VALVE HOLD ? <u>Yes</u>			
BEGIN DSPL. CMT		5:44 AM	8/28/2007	BUMPED PLUG TO <u>2150</u> PSI			
PLUG DOWN		6:09 AM	8/28/2007				

CEMENT USED		<b>B. J.</b>
STAGE	# SX	CEMENT TYPE & ADDITIVES
1	365	Prem-lite II w/ 10% gel + 3% KCL, 3#s /sk CSE + 2# sk/kolseal + 1/2#s/sk Cello Flake mixed @ 11.0 ppg W / 3.49 cf/sk yield
2	450	50/50 poz W/ 2% Gel + 3% KCL, .5%EC1, 1/4# sk C.F. 2% gel. 3% SM mixed @ 14.4 ppg W/ 1.24 YLD
CENTRALIZER & SCRATCHER PLACEMENT		SHOW MAKE & SPACING
Centralizers - Middle first, top second & third. Then every third collar for a total of 20.		

COMPANY REPRESENTATIVE Don Bastian DATE 8/28/2007

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

**SUNDRY NOTICES AND REPORTS ON WELLS**  
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5. Lease Serial No.  
USA UTU-33992

6. If Indian, Allottee or Tribe Name.

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

8. Well Name and No.  
JONAH FEDERAL J-1-9-16

9. API Well No.  
4301333571

10. Field and Pool, or Exploratory Area  
MONUMENT BUTTE

11. County or Parish, State  
DUCHESNE, UT

SUBMIT IN TRIPLE COPY - Other instructions on reverse side

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)  
1323 FWL 0 FEL  
Section 1 T9S R16E

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

TYPE OF SUBMISSION	TYPE OF ACTION			
<input checked="" 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 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 type="checkbox"/> Other _____
	<input type="checkbox"/> Change Plans	<input type="checkbox"/> Plug & Abandon	<input type="checkbox"/> Temporarily Abandon	
	<input type="checkbox"/> Convert to	<input type="checkbox"/> Plug Back	<input checked="" type="checkbox"/> Water Disposal	

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

Formation water is produced 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.

**Accepted by the  
Utah Division of  
Oil, Gas and Mining  
FOR RECORD ONLY**

I hereby certify that the foregoing is true and correct (Printed/ Typed) Mandie Crozier	Title Regulatory Specialist
Signature <i>Mandie Crozier</i>	Date 09/27/2007

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 _____		

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(Instructions on reverse)

RECEIVED

OCT 01 2007

DIV. OF OIL, GAS & MINING

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

5. LEASE DESIGNATION AND SERIAL NUMBER:  
 USA UTU-33992

**SUNDRY NOTICES AND REPORTS ON WELLS**

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

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

7. UNIT or CA AGREEMENT NAME:  
 JONAH UNIT

1. TYPE OF WELL: OIL WELL  GAS WELL  OTHER  8. WELL NAME and NUMBER:  
 JONAH FEDERAL J-1-9-16

2. NAME OF OPERATOR:  
 NEWFIELD PRODUCTION COMPANY 9. API NUMBER:  
 4301333571

3. ADDRESS OF OPERATOR: PHONE NUMBER  
 Route 3 Box 3630 CITY Myton STATE UT ZIP 84052 435.646.3721 10. FIELD AND POOL, OR WILDCAT:  
 MONUMENT BUTTE

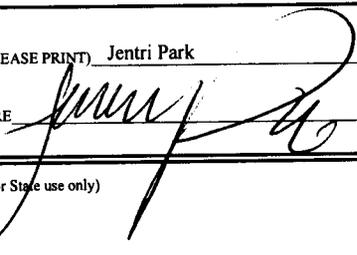
4. LOCATION OF WELL: FOOTAGES AT SURFACE: COUNTY: DUCHESNE

OTR/OTR. SECTION. TOWNSHIP. RANGE. MERIDIAN: , 1, T9S, R16E STATE: UT

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

TYPE OF SUBMISSION	TYPE OF ACTION		
<input type="checkbox"/> NOTICE OF INTENT (Submit in Duplicate)  Approximate date work will _____  <input checked="" type="checkbox"/> SUBSEQUENT REPORT (Submit Original Form Only)  Date of Work Completion: 10/11/2007	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> REPERFORATE CURRENT FORMATION
	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> SIDETRACK TO REPAIR WELL
	<input type="checkbox"/> CASING REPAIR	<input type="checkbox"/> NEW CONSTRUCTION	<input type="checkbox"/> TEMPORARITLY ABANDON
	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> TUBING REPAIR
	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> VENT OR FLAIR
	<input type="checkbox"/> CHANGE WELL NAME	<input type="checkbox"/> PLUG BACK	<input type="checkbox"/> WATER DISPOSAL
	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> PRODUCTION (START/STOP)	<input type="checkbox"/> WATER SHUT-OFF
	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input checked="" type="checkbox"/> OTHER: - Weekly Status Report
	<input type="checkbox"/> CONVERT WELL TYPE	<input type="checkbox"/> RECOMPLETE - DIFFERENT FORMATION	

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.  
 The above subject well was completed on 09/25/07, attached is a daily completion status report.

NAME (PLEASE PRINT) Jentri Park TITLE Production Clerk  
 SIGNATURE  DATE 10/11/2007

(This space for State use only)

**RECEIVED**  
**OCT 12 2007**  
 DIV. OF OIL, GAS & MINING

## Daily Activity Report

Format For Sundry

JONAH J-1-9-16

7/1/2007 To 11/30/2007

**9/15/2007 Day: 1****Completion**

Rigless on 9/14/2007 - Install 5m frac head. NU 6" 5K Cameron BOP. RU H/O truck & pressure test casing, blind rams, frac head, csg & casing valves to 4500 psi. RU Perforators LLC WLT w/ mast & run CBL under pressure. WLTD @ 6235' & cement top @ 47'. Perforate stage #1, CP5 sds @ 6008-6020' w/ 3-1/8" Slick Guns (19 gram, .49"EH, 120°) w/ 4 spf for total of 48 shots. 134 BWTR. SWIFN.

**9/19/2007 Day: 2****Completion**

Rigless on 9/18/2007 - Stage #1 CP5 sds. RU BJ Services. 0 psi on well. Frac CP5 sds w/ 85,173#'s of 20/40 sand in 485 bbls of Lightning 17 fluid. Broke @ 4115 psi. Treated w/ ave pressure of 1958 psi w/ ave rate of 24.9 BPM. ISIP 2385 psi. Leave pressure on well. 619 BWTR. Stage #2 LODC sds. RU Lone Wolf, llc WLT, crane & Lubricator. RIH w/ Weatherford 5-1/2" 6K composite flow through frac plug & 8' perf gun. Set plug @ 5490'. Perforate LODC sds @ 5376-84' w/ 3-1/8" Slick Guns (.369"EH, 22.7 gram, 90°) w/ 4 spf for total of 32 shots. RU BJ Services. 1610 psi on well. Frac LODC sds w/ 29,751#'s of 20/40 sand in 399 bbls of Lightning 17 fluid. Broke @ 2890 psi. Treated w/ ave pressure of 2224 psi w/ ave rate of 24.9 BPM. ISIP 2040 psi. Leave pressure on well. Stage #3 B1 sds. RU Lone Wolf, llc WLT, crane & Lubricator. RIH w/ Weatherford 5-1/2" 6K composite flow through frac plug & 22' perf gun. Set plug @ 5260'. Perforate B1 sds @ 5138-60' w/ 3-1/8" Slick Guns (.369"EH, 22.7 gram, 90°) w/ 4 spf for total of 88 shots. SWIFN.

**9/20/2007 Day: 3****Completion**

Rigless on 9/19/2007 - RU BJ & frac stage #3, B1 sds w/ 148,475#'s of 20/40 sand in 1045 bbls of Lightning 17 frac fluid. Open well w/ 1270 psi on casing. Perfs broke down @ 3227 psi. Spot 30 gals of Techna Hib. Treated @ ave pressure of 1936 @ ave rate of 24.8 bpm w/ 8 ppg of sand. Spot 12 bbls of 15% HCL Acid in flush for next stage. ISIP was 2255. 2063 bbls EWTR. Leave pressure on well. RU WLT. RIH w/ frac plug & 4', 7' perf guns. Set plug @ 4970'. Perforate D1 sds @ 4860-64' & 4834-41' w/ 4 spf for total of 44 shots. RU BJ & frac stage #4 w/ 60,119#'s of 20/40 sand in 510 bbls of Lightning 17 frac fluid. Open well w/ 1740 psi on casing. Perfs broke down @ 2485 psi. Spot 30 gals of Techna Hib. Treated @ ave pressure of 2040 @ ave rate of 24.8 bpm w/ 8 ppg of sand. Spot 12 bbls of 15% HCL Acid in flush for next stage. ISIP was 2195. 2573 bbls EWTR. Leave pressure on well. RU WLT. RIH w/ frac plug & 6' perf guns. Set plug @ 4500'. Perforate GB6 sds @ 4386-92' w/ 4 spf for total of 24 shots. RU BJ & frac stage #5 w/ 29,876#'s of 20/40 sand in 356 bbls of Lightning 17 frac fluid. Open well w/ 1850 psi on casing. Perfs broke down @ 3380 psi. Spot 30 gals of Techna Hib. Treated @ ave pressure of 2135 @ ave rate of 24.8 bpm w/ 6.5 ppg of sand. ISIP was 1950. 2929 bbls EWTR. RD BJ & WLT. Flow well back. Well flowed for 6 hours & still flowing w/ 700 psi on casing (good oil & gas) w/ 480 bbls rec'd. SIFN.

**9/21/2007 Day: 4****Completion**

Rigless on 9/20/2007 - RU Perforators LLC WLT, crane & lubricator. Open well w/ 1200 psi on casing. RIH w/ Weatherford 5-1/2" solid (6K) frac plug. Set plug @ 4300'. RD WLT. SIFN.

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**9/22/2007 Day: 5****Completion**

Western #4 on 9/21/2007 - MIRUSU. Open w/ 800 psi on casing. ND Cameron BOP's & 5K frac head. Instal 3K production tubing head & Schaefer BOP's. RU chomp bit & bit sub. Tally & pickup 2-7/8" new J-55 tbg off racks to tag plug @ 4300' w/ 138 jts. RU swivel, pump/ tanks. Drlg up kill plug. Transferred oil out of flat tank. RU well to flow to production tank. EOT @ 4325'.

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**9/25/2007 Day: 6****Completion**

Western #4 on 9/24/2007 - Open w/ 650 psi on casing. RU pump/tank. Circulate 150 bbls water down well. TIH w/ tbg to tag plug @ 4500'. Drlg out plug #1. TIH w/ tbg to tag plug @ 4970'. Drlg out plug #2. TIH w/ tbg to tag sand @ 5245'. C/O to plug @ 5260'. Drlg out plug #3. TIH w/ tbg to tag sand @ 5470'. C/O to plug @ 5490'. Drlg out plug #4. TIH w/ tbg to tag sand @ 6003'. C/O to PBSD @ 6176'. TOOH w/ 2 jts tbg to leave hang @ 6115'. RU swab & made 9 runs to rec'd 45 bbls fluid & well started flowing. IFL was surface. Started flowing w/ FFL @ 600'. Well flowed for 2 hours to rec'd 100 bbls. SIFN.

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**9/26/2007 Day: 7****Completion**

Western #4 on 9/25/2007 - Open w/ 520 psi on casing. RU pump/tank. Circulate 15 bbls water down tbg. TIH w/ tbg to tag PBSD @ 6176' (no fill). Circulate 190 bbls water. TOOH w/ tbg. RD bit & bit sub. TIH w/ NC, 1 jts tbg, SN, 2 jt tbg, TA (CDI new 45,000# shear), 190 jts tbg. ND BOP's. Set TA @ 5966' w/ 16,000#'s tension w/ SN @ 6031', w/ EOT @ 6064'. Flush tbg w/ 180 bbls water. Pickup & prime pump. TIH w/ 2-1/2" x 1-3/4" x 16'x 20' RHAC CDI new pump w/ 175" SL, 4- 1-1/2" weight rods, 237- 7/8" guided (8 per) rods new, 2', 8' x 7/8" pony rods, 1-1/2" x 26' polish rod. Space pump. Test pump & tbg to 800 psi w/ pumping unit. RDMOSU. POP @ 7 PM w/ 122"SL @ 5 spm. Final Report.

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**Pertinent Files: Go to File List**

**UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT**

**WELL COMPLETION OR RECOMPLETION REPORT AND LOG\***

**1a. TYPE OF WORK**  
 OIL WELL  GAS WELL  DRY  Other \_\_\_\_\_

**1b. TYPE OF WELL**  
 NEW WELL  WORK OVER  DEEPEN  PLUG BACK  DIFF RESVR.  Other \_\_\_\_\_

5. LEASE DESIGNATION AND SERIAL NO.  
**UTU-33992**

6. IF INDIAN, ALLOTTEE OR TRIBE NAME  
**NA**

7. UNIT AGREEMENT NAME  
**Jonah Federal**

8. FARM OR LEASE NAME, WELL NO.  
**Jonah Federal J-1-9-16**

2. NAME OF OPERATOR  
**Newfield Exploration Company**

3. ADDRESS AND TELEPHONE NO.  
**1401 17th St. Suite 1000 Denver, CO 80202**

4. LOCATION OF WELL (Report locations clearly and in accordance with any State requirements.)\*  
 At Surface **1392' PNL & 46' FEL (NE/NE) Sec. 1, T9S, R16E**  
 At top prod. Interval reported below **823' PNL 769' FEL**

9. WELL NO.  
**43-013-33571**

10. FIELD AND POOL OR WILDCAT  
**Monument Butte**

11. SEC., T., R., M., OR BLOCK AND SURVEY OR AREA  
**Sec. 1, T9S, R16E**

14. API NO. **43-013-33571** DATE ISSUED **03/12/07**

12. COUNTY OR PARISH **Duchesne** 13. STATE **UT**

15. DATE SPUDDED **08/14/07** 16. DATE T.D. REACHED **08/27/07** 17. DATE COMPL. (Ready to prod.) **09/25/07** 18. ELEVATIONS (DF, RKB, RT, GR, ETC.)\* **5351' GL 5363' KB** 19. ELEV. CASINGHEAD

20. TOTAL DEPTH, MD & TVD **6247' 6165** 21. PLUG BACK T.D., MD & TVD **6176' 6094** 22. IF MULTIPLE COMPL., HOW MANY\* \_\_\_\_\_ 23. INTERVALS DRILLED BY \_\_\_\_\_ ROTARY TOOLS **X** CABLE TOOLS \_\_\_\_\_

24. PRODUCING INTERVAL(S), OF THIS COMPLETION--TOP, BOTTOM, NAME (MD AND TVD)\*  
**Green River 4386'-6020'**

25. WAS DIRECTIONAL SURVEY MADE  
**No Yes**

26. TYPE ELECTRIC AND OTHER LOGS RUN  
**Dual Induction Guard, SP, Compensated Density, Compensated Neutron, GR, Caliper, Cement Bond Log**

27. WAS WELL CORED  
**No**

23. CASING RECORD (Report all strings set in well)

CASING SIZE/GRADE	WEIGHT, LB./FT.	DEPTH SET (MD)	HOLE SIZE	TOP OF CEMENT, CEMENTING RECORD	AMOUNT PULLED
8-5/8" - J-55	24#	307'	12-1/4"	To surface with 160 sx Class "G" cmt	
5-1/2" - J-55	15.5#	6231'	7-7/8"	365 sx Premlite II and 450 sx 50/50 Poz	

29. LINER RECORD

SIZE	TOP (MD)	BOTTOM (MD)	SACKS CEMENT*	SCREEN (MD)	SIZE	DEPTH SET (MD)	PACKER SET (MD)
					2-7/8"	EOT @ 6065'	TA @ 5966'

30. TUBING RECORD

INTERVAL	SIZE	SPF/NUMBER	DEPTH INTERVAL (MD)	AMOUNT AND KIND OF MATERIAL USED
(CP5) 6008'-6020'	.49"	4/48	6008'-6020'	Frac w/ 85,173# 20/40 sand in 485 bbls fluid
(LODC) 5376'-5384'	.369"	4/32	5376'-5384'	Frac w/ 29,751# 20/40 sand in 399 bbls fluid
(B1) 5138'-5160'	.369"	4/88	5138'-5160'	Frac w/ 148,475# 20/40 sand in 1045 bbls fluid
(D1) 4860'-4864', 4834'-4841'	.369"	4/44	4834'-4864'	Frac w/ 60,119# 20/40 sand in 510 bbls fluid
(GB6) 4386'-4392'	.369"	4/24	4386'-4392'	Frac w/ 29,876# 20/40 sand in 356 bbls fluid

33.\* PRODUCTION

DATE FIRST PRODUCTION **09/25/07** PRODUCTION METHOD (Flowing, gas lift, pumping--size and type of pump) **2-1/2" x 1-3/4" x 16' x 20' RHAC SM Plunger Pump** WELL STATUS (Producing or shut-in) **PRODUCING**

DATE OF TEST **10 day ave** HOURS TESTED \_\_\_\_\_ CHOKE SIZE \_\_\_\_\_ PROD'N. FOR TEST PERIOD \_\_\_\_\_ OIL--BBL. **199** GAS--MCF. **27** WATER--BBL. **31** GAS-OIL RATIO **136**

FLOW. TUBING PRESS. \_\_\_\_\_ CASING PRESSURE \_\_\_\_\_ CALCULATED 24-HOUR RATE \_\_\_\_\_ OIL-BBL. \_\_\_\_\_ GAS--MCF. \_\_\_\_\_ WATER--BBL. \_\_\_\_\_ OIL GRAVITY-API (CORR.) \_\_\_\_\_

34. DISPOSITION OF GAS (Sold, used for fuel, vented, etc.) **Sold & Used for Fuel** TEST WITNESSED BY \_\_\_\_\_

35. LIST OF ATTACHMENTS \_\_\_\_\_

36. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records

SIGNED **Jerry Park** TITLE **Production Clerk** DATE **10/18/2007**

**DIV. OF OIL, GAS & MINING**  
**RECEIVED**  
**OCT 19 2007**

\*(See Instructions and Spaces for Additional Data on Reverse Side)

37. SUMMARY OF POROUS ZONES: (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);

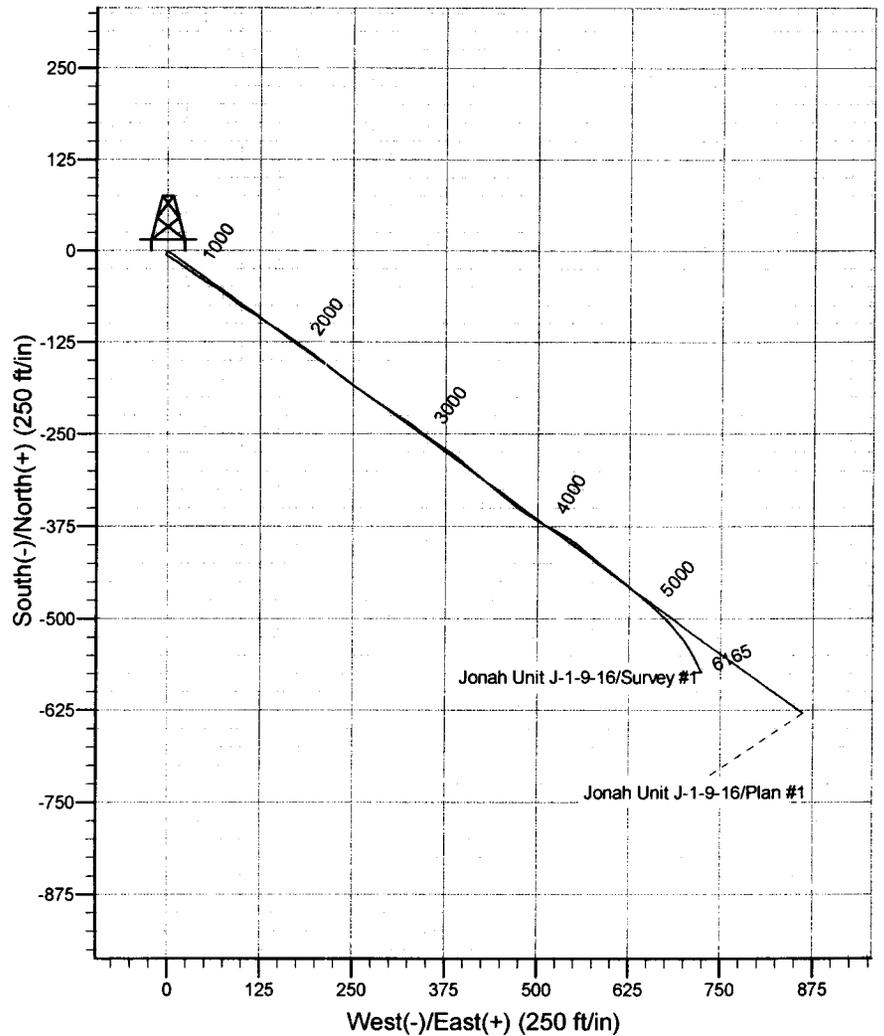
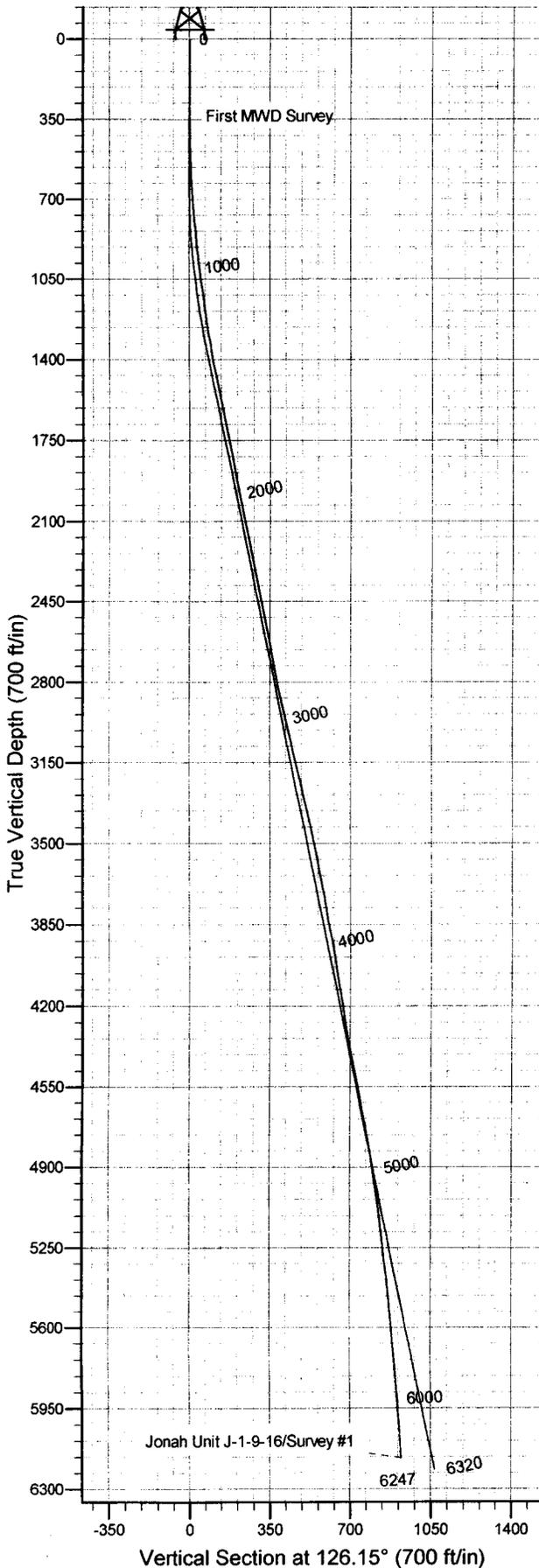
FORMATION	TOP	BOTTOM	DESCRIPTION, CONTENTS, ETC.	38. GEOLOGIC MARKERS			
				NAME	MEAS. DEPTH	TOP	TRUE
					VERT. DEPTH		
			Well Name Jonah Federal J-1-9-16	Garden Gulch Mkr	3808'		
				Garden Gulch 1	4010'		
				Garden Gulch 2	4128'		
				Point 3 Mkr	4398'		
				X Mkr	4652'		
				Y-Mkr	4688'		
				Douglas Creek Mkr	4812'		
				BiCarbonate Mkr	5062'		
				B Limestone Mkr	5196'		
				Castle Peak	5662'		
				Basal Carbonate	6094'		
				Total Depth (LOGGERS)	6235'		





Project: Duchesne County, UT  
 Site: Jonah Unit J-1-9-16  
 Well: Jonah Unit J-1-9-16  
 Wellbore: OH  
 Design: OH

# Newfield Exploration Co.



**WELL DETAILS: Jonah Unit J-1-9-16**

Ground Level: GL 5351' & RKB 12' @ 5363.00ft					
+N-S	+E-W	Northing	Easting	Latitude	Longitude
0.00	0.00	7195595.98	2043109.31	40° 3' 53.430 N	110° 3' 39.980 W

**REFERENCE INFORMATION**

Co-ordinate (NE) Reference: Well Jonah Unit J-1-9-16, True North  
 Vertical (TVD) Reference: GL 5351' & RKB 12' @ 5363.00ft  
 Section (VS) Reference: Slot - (0.00N, 0.00E)  
 Measured Depth Reference: GL 5351' & RKB 12' @ 5363.00ft  
 Calculation Method: Minimum Curvature  
 Local North: True North  
 Location: Sec 1 T9S R16E

**PROJECT DETAILS: Duchesne County, UT**

Geodetic System: US State Plane 1983  
 Datum: North American Datum 1983  
 Ellipsoid: GRS 1980  
 Zone: Utah Central Zone

**Survey: Survey #1 (Jonah Unit J-1-9-16/OH)**

Created By: Julie Cruse Date: 2007-08-26

# **Newfield Exploration Co.**

**Duchesne County, UT**

**Jonah Unit J-1-9-16**

**Jonah Unit J-1-9-16**

**OH**

**Survey: Survey #1**

## **Standard Survey Report**

**28 August, 2007**

# Scientific Drilling Survey Report

<b>Company:</b> Newfield Exploration Co.	<b>Local Co-ordinate Reference:</b> Well Jonah Unit J-1-9-16	
<b>Project:</b> Duchesne County, UT	<b>TVD Reference:</b> GL 5351' & RKB 12' @ 5363.00ft	
<b>Site:</b> Jonah Unit J-1-9-16	<b>MD Reference:</b> GL 5351' & RKB 12' @ 5363.00ft	
<b>Well:</b> Jonah Unit J-1-9-16	<b>North Reference:</b> True	
<b>Wellbore:</b> OH	<b>Survey Calculation Method:</b> Minimum Curvature	
<b>Design:</b> OH	<b>Database:</b> EDM 2003.14.1 Multi User	

<b>Project</b>	Duchesne County, UT		
<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 J-1-9-16, Sec 1 T9S R16E				
<b>Site Position:</b>		<b>Northing:</b>	7,195,595.98 ft	<b>Latitude:</b>	40° 3' 53.430 N
<b>From:</b>	Lat/Long	<b>Easting:</b>	2,043,109.31 ft	<b>Longitude:</b>	110° 3' 39.980 W
<b>Position Uncertainty:</b>	0.00 ft	<b>Slot Radius:</b>	in	<b>Grid Convergence:</b>	0.92 °

<b>Well</b>	Jonah Unit J-1-9-16, 823' FNL, 769' FEL					
<b>Well Position</b>	<b>+N/-S</b>	0.00 ft	<b>Northing:</b>	7,195,595.98 ft	<b>Latitude:</b>	40° 3' 53.430 N
	<b>+E/-W</b>	0.00 ft	<b>Easting:</b>	2,043,109.31 ft	<b>Longitude:</b>	110° 3' 39.980 W
<b>Position Uncertainty</b>	0.00 ft	<b>Wellhead Elevation:</b>	ft	<b>Ground Level:</b>	5,351.00 ft	

<b>Wellbore</b>	OH				
<b>Magnetics</b>	<b>Model Name</b>	<b>Sample Date</b>	<b>Declination (°)</b>	<b>Dip Angle (°)</b>	<b>Field Strength (nT)</b>
	IGRF2005-10	2007-08-27	11.79	65.91	52,680

<b>Design</b>	OH				
<b>Audit Notes:</b>					
<b>Version:</b>	1.0	<b>Phase:</b>	ACTUAL	<b>Tie On Depth:</b>	
<b>Vertical Section:</b>	<b>Depth From (TVD) (ft)</b>	<b>+N/-S (ft)</b>	<b>+E/-W (ft)</b>	<b>Direction (°)</b>	
	0.00	0.00	0.00	126.15	

<b>Survey Program</b>	Date 2007-08-28				
<b>From (ft)</b>	<b>To (ft)</b>	<b>Survey (Wellbore)</b>	<b>Tool Name</b>	<b>Description</b>	
335.00	6,247.00	Survey #1 (OH)	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)
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
335.00	1.07	196.21	334.98	-3.00	-0.87	1.07	0.32	0.32	0.00
366.00	1.12	200.65	365.97	-3.57	-1.06	1.25	0.32	0.16	14.32
396.00	1.24	181.29	395.97	-4.16	-1.17	1.51	1.38	0.40	-64.53
427.00	1.31	165.33	426.96	-4.84	-1.09	1.98	1.16	0.23	-51.48
458.00	1.37	153.95	457.95	-5.52	-0.84	2.58	0.88	0.19	-36.71
489.00	1.71	138.26	488.94	-6.20	-0.37	3.36	1.74	1.10	-50.61
519.00	2.28	127.50	518.92	-6.89	0.41	4.39	2.27	1.90	-35.87
550.00	2.75	126.17	549.89	-7.71	1.49	5.75	1.53	1.52	-4.29
581.00	3.20	118.11	580.85	-8.55	2.86	7.35	1.98	1.45	-26.00
611.00	3.49	121.16	610.80	-9.42	4.38	9.09	1.13	0.97	10.17
642.00	4.15	122.47	641.73	-10.51	6.13	11.15	2.15	2.13	4.23
673.00	4.31	125.38	672.65	-11.79	8.03	13.44	0.86	0.52	9.39

# Scientific Drilling Survey Report

**Company:** Newfield Exploration Co.  
**Project:** Duchesne County, UT  
**Site:** Jonah Unit J-1-9-16  
**Well:** Jonah Unit J-1-9-16  
**Wellbore:** OH  
**Design:** OH

**Local Co-ordinate Reference:** Well Jonah Unit J-1-9-16  
**TVD Reference:** GL 5351' & RKB 12' @ 5363.00ft  
**MD Reference:** GL 5351' & RKB 12' @ 5363.00ft  
**North Reference:** True  
**Survey Calculation Method:** Minimum Curvature  
**Database:** EDM 2003.14.1 Multi User

## 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)
703.00	4.72	123.62	702.55	-13.12	9.98	15.80	1.44	1.37	-5.87
734.00	5.07	121.30	733.44	-14.54	12.21	18.44	1.30	1.13	-7.48
765.00	5.20	126.42	764.32	-16.09	14.51	21.21	1.54	0.42	16.52
795.00	5.08	124.50	794.20	-17.65	16.70	23.89	0.70	-0.40	-6.40
826.00	5.36	126.01	825.07	-19.28	19.00	26.71	1.01	0.90	4.87
857.00	5.34	125.45	855.93	-20.96	21.35	29.60	0.18	-0.06	-1.81
887.00	5.79	125.81	885.79	-22.66	23.71	32.51	1.50	1.50	1.20
919.00	6.13	126.21	917.62	-24.61	26.40	35.83	1.07	1.06	1.25
950.00	6.26	123.12	948.44	-26.51	29.15	39.18	1.15	0.42	-9.97
982.00	6.37	125.90	980.24	-28.51	32.05	42.69	1.02	0.34	8.69
1,013.00	6.50	123.60	1,011.05	-30.49	34.90	46.17	0.93	0.42	-7.42
1,045.00	6.88	126.50	1,042.83	-32.63	37.95	49.89	1.59	1.19	9.06
1,075.00	7.03	126.36	1,072.61	-34.79	40.87	53.53	0.50	0.50	-0.47
1,106.00	7.28	125.96	1,103.37	-37.07	43.99	57.39	0.82	0.81	-1.29
1,138.00	7.65	125.18	1,135.10	-39.48	47.37	61.54	1.20	1.16	-2.44
1,169.00	7.85	122.78	1,165.81	-41.82	50.84	65.72	1.23	0.65	-7.74
1,200.00	8.45	121.30	1,196.50	-44.15	54.57	70.10	2.05	1.94	-4.77
1,231.00	8.71	124.47	1,227.15	-46.66	58.45	74.72	1.74	0.84	10.23
1,263.00	9.05	122.63	1,258.77	-49.39	62.56	79.65	1.38	1.06	-5.75
1,294.00	9.12	123.64	1,289.38	-52.06	66.66	84.54	0.56	0.23	3.26
1,325.00	9.49	123.07	1,319.97	-54.82	70.85	89.55	1.23	1.19	-1.84
1,357.00	9.92	124.05	1,351.51	-57.80	75.35	94.94	1.44	1.34	3.06
1,388.00	10.15	126.81	1,382.04	-60.93	79.74	100.34	1.72	0.74	8.90
1,419.00	10.58	124.88	1,412.53	-64.20	84.27	105.91	1.78	1.39	-6.23
1,450.00	10.99	125.16	1,442.99	-67.53	89.02	111.71	1.33	1.32	0.90
1,545.00	11.31	125.00	1,536.19	-78.08	104.05	130.08	0.34	0.34	-0.17
1,639.00	11.39	124.80	1,628.36	-88.67	119.22	148.58	0.09	0.09	-0.21
1,732.00	11.76	122.01	1,719.46	-98.93	134.80	167.21	0.72	0.40	-3.00
1,827.00	11.26	124.46	1,812.55	-109.31	150.66	186.14	0.74	-0.53	2.58
1,921.00	10.90	122.95	1,904.80	-119.34	165.68	204.18	0.49	-0.38	-1.61
2,013.00	11.27	126.15	1,995.09	-129.37	180.24	221.86	0.78	0.40	3.48
2,108.00	11.05	124.59	2,088.29	-140.02	195.23	240.24	0.39	-0.23	-1.64
2,203.00	11.87	128.99	2,181.40	-151.33	210.32	259.10	1.26	0.86	4.63
2,297.00	11.65	128.15	2,273.42	-163.28	225.30	278.24	0.30	-0.23	-0.89
2,390.00	11.18	127.29	2,364.58	-174.54	239.86	296.64	0.54	-0.51	-0.92
2,485.00	11.39	126.37	2,457.75	-185.69	254.74	315.23	0.29	0.22	-0.97
2,579.00	11.22	125.49	2,549.92	-196.50	269.66	333.66	0.26	-0.18	-0.94
2,673.00	10.43	126.05	2,642.25	-206.82	283.98	351.31	0.85	-0.84	0.60
2,767.00	10.74	123.46	2,734.65	-216.65	298.17	368.57	0.60	0.33	-2.76
2,860.00	12.45	121.86	2,825.75	-226.72	313.91	387.22	1.87	1.84	-1.72
2,953.00	13.31	127.80	2,916.41	-238.58	330.89	407.92	1.70	0.92	6.39
3,047.00	12.81	125.86	3,007.98	-251.31	347.88	429.16	0.71	-0.53	-2.06
3,140.00	13.84	125.43	3,098.48	-263.80	365.30	450.59	1.11	1.11	-0.46
3,233.00	12.42	124.66	3,189.04	-275.94	382.59	471.71	1.54	-1.53	-0.83
3,324.00	13.49	130.98	3,277.73	-288.46	398.66	492.07	1.95	1.18	6.95
3,416.00	12.89	128.98	3,367.30	-301.96	414.73	513.01	0.82	-0.65	-2.17
3,511.00	12.13	129.00	3,460.05	-314.90	430.73	533.56	0.80	-0.80	0.02
3,604.00	11.52	129.51	3,551.07	-326.96	445.49	552.59	0.67	-0.66	0.55
3,696.00	10.59	128.36	3,641.37	-338.05	459.20	570.21	1.04	-1.01	-1.25
3,788.00	9.78	127.32	3,731.92	-348.04	472.05	586.47	0.90	-0.88	-1.13
3,882.00	10.20	123.92	3,824.49	-357.52	485.30	602.77	0.77	0.45	-3.62
3,975.00	10.43	120.17	3,915.99	-366.35	499.41	619.37	0.76	0.25	-4.03
4,069.00	10.12	119.64	4,008.48	-374.71	513.95	636.04	0.34	-0.33	-0.56
4,162.00	9.51	120.52	4,100.12	-382.65	527.67	651.80	0.68	-0.66	0.95

# Scientific Drilling Survey Report

<b>Company:</b> Newfield Exploration Co.	<b>Local Co-ordinate Reference:</b> Well Jonah Unit J-1-9-16
<b>Project:</b> Duchesne County, UT	<b>TVD Reference:</b> GL 5351' & RKB 12' @ 5363.00ft
<b>Site:</b> Jonah Unit J-1-9-16	<b>MD Reference:</b> GL 5351' & RKB 12' @ 5363.00ft
<b>Well:</b> Jonah Unit J-1-9-16	<b>North Reference:</b> True
<b>Wellbore:</b> OH	<b>Survey Calculation Method:</b> Minimum Curvature
<b>Design:</b> OH	<b>Database:</b> EDM 2003.14.1 Multi User

## Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
4,257.00	8.35	120.84	4,193.97	-390.17	540.35	666.48	1.22	-1.22	0.34
4,350.00	9.94	128.55	4,285.78	-398.64	552.43	681.23	2.15	1.71	8.29
4,445.00	10.75	130.37	4,379.24	-409.49	565.59	698.26	0.92	0.85	1.92
4,537.00	11.56	127.34	4,469.50	-420.63	579.46	716.03	1.09	0.88	-3.29
4,630.00	10.91	128.23	4,560.72	-431.73	593.78	734.14	0.72	-0.70	0.96
4,723.00	11.01	126.81	4,652.02	-442.50	607.80	751.82	0.31	0.11	-1.53
4,817.00	10.43	128.50	4,744.38	-453.17	621.65	769.29	0.70	-0.62	1.80
4,909.00	9.56	130.23	4,834.99	-463.29	634.00	785.23	1.00	-0.95	1.88
5,001.00	8.92	132.48	4,925.79	-473.04	645.09	799.94	0.80	-0.70	2.45
5,093.00	8.03	131.23	5,016.79	-482.10	655.18	813.43	0.99	-0.97	-1.36
5,185.00	7.46	133.18	5,107.95	-490.42	664.37	825.76	0.68	-0.62	2.12
5,279.00	6.66	133.76	5,201.23	-498.36	672.76	837.22	0.85	-0.85	0.62
5,370.00	6.34	135.88	5,291.65	-505.62	680.07	847.40	0.44	-0.35	2.33
5,463.00	6.52	140.05	5,384.06	-513.35	687.03	857.59	0.54	0.19	4.48
5,556.00	5.96	141.68	5,476.51	-521.19	693.42	867.37	0.63	-0.60	1.75
5,651.00	5.52	141.28	5,571.04	-528.63	699.33	876.53	0.47	-0.46	-0.42
5,743.00	5.26	145.99	5,662.63	-535.57	704.46	884.77	0.56	-0.28	5.12
5,836.00	5.07	150.20	5,755.25	-542.67	708.89	892.53	0.46	-0.20	4.53
5,931.00	5.00	152.15	5,849.89	-549.98	712.91	900.09	0.19	-0.07	2.05
6,025.00	4.58	155.48	5,943.56	-557.01	716.38	907.04	0.54	-0.45	3.54
6,120.00	4.57	155.28	6,038.25	-563.90	719.54	913.65	0.02	-0.01	-0.21
6,197.00	4.18	156.12	6,115.03	-569.25	721.95	918.76	0.51	-0.51	1.09
6,247.00	4.18	156.12	6,164.90	-572.59	723.43	921.92	0.00	0.00	0.00

## Targets

Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (ft)	Easting (ft)	Latitude	Longitude
J-1-9-16 Target	0.00	0.00	5,200.00	-507.00	694.00	7,195,100.21	2,043,811.37	40° 3' 48.419 N	110° 3' 31.053 W
- hit/miss target									
- Shape									
- survey misses by 22.93ft at 5280.17ft MD (5202.39 TVD, -498.46 N, 672.86 E)									
- Circle (radius 75.00)									

## Survey Annotations

Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates		Comment
		+N/-S (ft)	+E/-W (ft)	
335.00	334.98	-3.00	-0.87	First MWD Survey
6,247.00	6,164.90	-572.59	723.43	Projection to TD

Checked By: _____	Approved By: _____	Date: _____
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