

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL OR REENTER

5. Lease Serial No. UTU-13905	
6. If Indian, Allottee or Tribe Name NA	
7. If Unit or CA Agreement, Name and No. Lone Tree	
8. Lease Name and Well No. Lone Tree Federal A-21-9-17	
9. API Well No. 43-013-34160	
10. Field and Pool, or Exploratory Monument Butte	11. Sec., T. R. M. or Blk. and Survey or Area Sec. 22, T9S R17E
12. County or Parish Duchesne	13. State UT
14. Distance in miles and direction from nearest town or post office* Approximately 16.5 miles southeast of Myton, UT	15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any) Approx. 50' f/lse, 2580' f/unit
16. No. of acres in lease 1,200.00	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. 1259'	19. Proposed Depth 5,680'
20. BLM/BIA Bond No. on file WYB000493	21. Elevations (Show whether DF, KDB, RT, GL, etc.) 5252' GL
22. Approximate date work will start* 1st Qtr. 2009	23. Estimated duration (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, must 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 must be filed with the appropriate Forest Service Office). | 6. Such other site specific information and/or plans as may be required by the BLM.             |

25. Signature <i>Mandie Crozier</i>	Name (Printed/Typed) Mandie Crozier	Date 11/24/08
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Title  
Regulatory Specialist

Approved by (Signature) <i>Bradley G. Hill</i>	Name (Printed/Typed) BRADLEY G. HILL	Date 12-22-08
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Title	Office ENVIRONMENTAL MANAGER
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Application approval 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.  
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.

(Continued on page 2)

\*(Instructions on page 2)

Surf  
585435K  
44305044  
40.022318  
-109.998832

BHL  
585 20 2X  
44306554  
40.023697  
-110.061536

Federal Approval of this  
Action is Necessary

RECEIVED

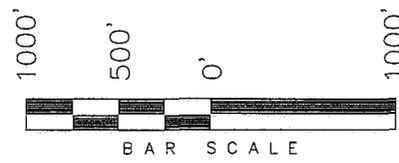
DEC 11 2008

DIV. OF OIL, GAS & MINING

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

## NEWFIELD PRODUCTION COMPANY

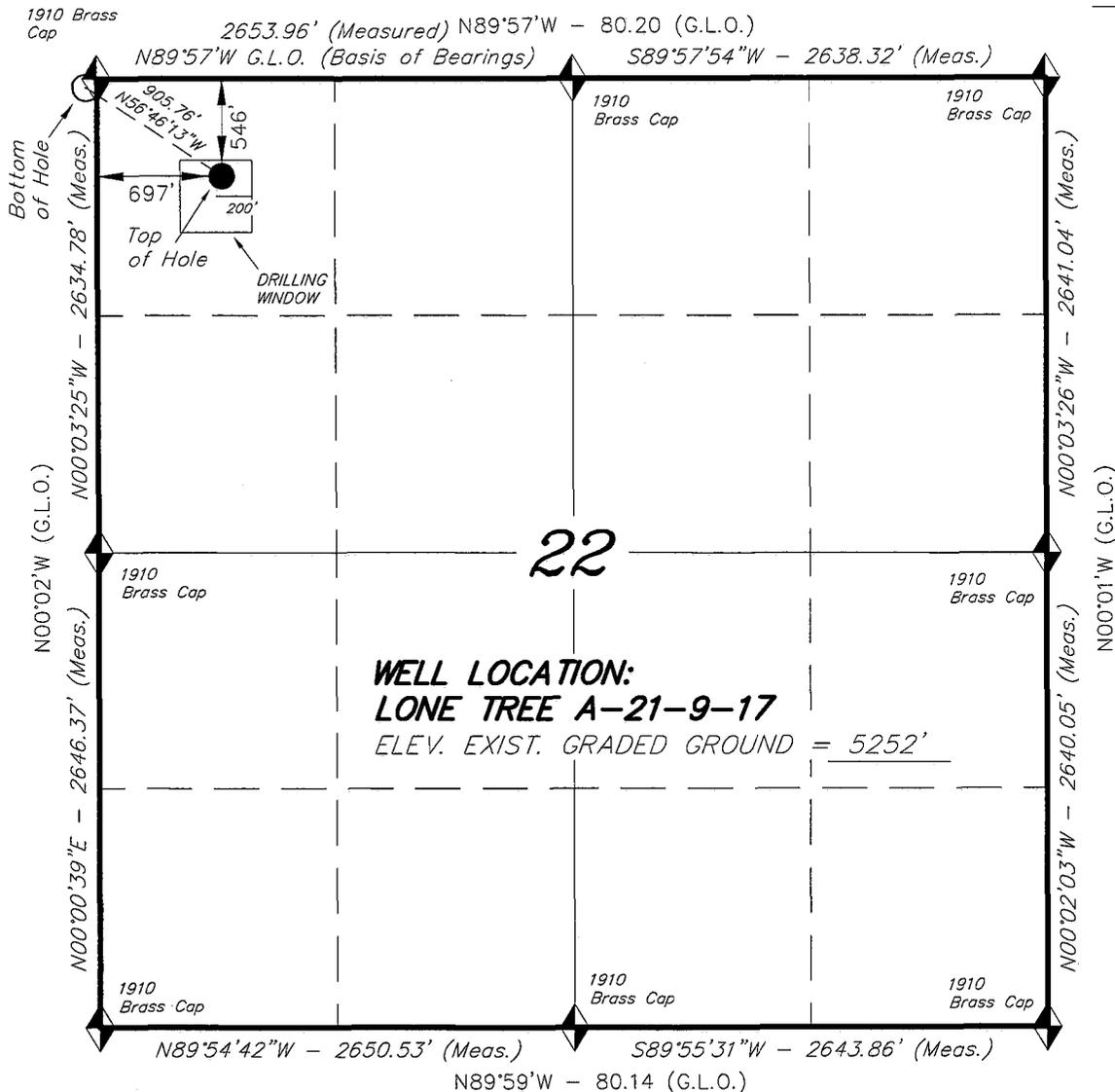
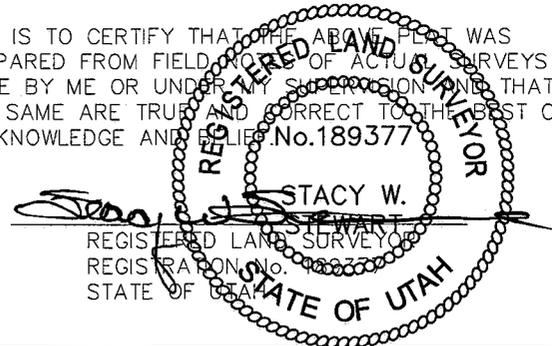
WELL LOCATION, LONE TREE A-21-9-17,  
 LOCATED AS SHOWN IN THE NW 1/4 NW  
 1/4 OF SECTION 22, T9S, R17E,  
 S.L.B.&M. DUCHESNE COUNTY, UTAH.



**Note:**

- The bottom of hole footages are 50' FNL & 60' FEL Section 21, T9S, R17E, S.L.B.&M.

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



◆ = SECTION CORNERS LOCATED

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

LONE TREE A-21-9-17  
 (Surface Location) NAD 83  
 LATITUDE = 40° 01' 19.91"  
 LONGITUDE = 109° 59' 58.86"

<b>TRI STATE LAND SURVEYING &amp; CONSULTING</b>	
180 NORTH VERNAL AVE. - VERNAL, UTAH 84078 (435) 781-2501	
DATE SURVEYED: 10-10-08	SURVEYED BY: T.C.
DATE DRAWN: 10-14-08	DRAWN BY: F.T.M.
REVISED:	SCALE: 1" = 1000'

NEWFIELD PRODUCTION COMPANY  
LONE TREE FEDERAL A-21-9-17  
AT SURFACE: NW/NW SECTION 22, T9S, R17E  
DUCHESNE COUNTY, UTAH

ONSHORE ORDER NO. 1

DRILLING PROGRAM

1. GEOLOGIC SURFACE FORMATION:  
Uinta formation of Upper Eocene Age
2. ESTIMATED TOPS OF IMPORTANT GEOLOGIC MARKERS:  

Uinta	0' – 1159'
Green River	1159'
Wasatch	5680'
3. ESTIMATED DEPTHS OF ANTICIPATED WATER, OIL, GAS OR MINERALS:  
Green River Formation 1159' – 5680' - 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  
LONE TREE FEDERAL A-21-9-17  
AT SURFACE: NW/NW SECTION 22, T9S, R17E  
DUCHESNE COUNTY, UTAH**

**ONSHORE ORDER NO. 1**

**MULTI-POINT SURFACE USE & OPERATIONS PLAN**

**1. EXISTING ROADS**

See attached Topographic Map "A"

To reach Newfield Production Company well location site Lone Tree Federal A-21-9-17 located in the NW 1/4 NW 1/4 Section 22, T9S, R17E, Duchesne County, Utah:

Proceed southwesterly out of Myton, Utah along Highway 40 - 1.4 miles  $\pm$  to the junction of this highway and UT State Hwy 53; proceed southeasterly - 11.4 miles  $\pm$  to it's junction with an existing dirt road to the southwest; proceed southwesterly - 0.9 miles  $\pm$  to it's junction with an existing dirt road to the south; proceed southeasterly - 1.7 miles  $\pm$  to it's junction with an existing road to the east; proceed in a northeasterly direction - 0.9 miles  $\pm$  to it's junction with the beginning of the access road to the existing S. Pleasant Valley Federal 4-22-9-17 well lcoation.

**2. PLANNED ACCESS ROAD**

There is no proposed access road for this location. The proposed well will be drilled directionally off of the existing S. Pleasant Valley Federal 4-22-9-17 well pad. See attached **Topographic Map "B"**.

**3. LOCATION OF EXISTING WELLS**

Refer to Exhibit "B".

**4. LOCATION OF EXISTING AND/OR PROPOSED FACILITIES**

The proposed well will be drilled directionally off of the S. Pleasant Valley Federal 4-22-9-17 well pad. There will be a pumping unit and a short flow line added to the tank battery for the proposed Lone Tree Federal A-21-9-17. All permanent surface equipment will be painted Carlsbad Canyon.

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

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

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

Johnson Water District  
Water Right : 43-7478

Neil Moon Pond  
Water Right: 43-11787

Maurice Harvey Pond  
Water Right: 47-1358

Newfield Collector Well  
Water Right: 41-3530 (A30414DV, contracted with the Duchesne County Conservancy District).

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

6. **SOURCE OF CONSTRUCTION MATERIALS**

The proposed Lone Tree Federal A-21-9-17 will be drilled off of the existing S. Pleasant Valley Federal 4-22-9-17 well pad. No additional surface disturbance will be required for this location.

7. **METHODS FOR HANDLING WASTE DISPOSAL**

Please refer to the Monument Butte Field SOP.

8. **ANCILLARY FACILITIES**

Please refer to the Monument Butte Field SOP.

9. **WELL SITE LAYOUT**

See attached Location Layout Diagram.

10. **PLANS FOR RESTORATION OF SURFACE**

Please refer to the Monument Butte Field SOP.

11. **SURFACE OWNERSHIP** - Bureau Of Land Management (Proposed location and access roads leading to).

12. **OTHER ADDITIONAL INFORMATION**

Newfield Production Company requests 200' of disturbed area be granted in Lease ML-3453B and 870' of disturbed area be granted in Lease UTU-13905 to allow for construction of the proposed water lines. It is proposed that the disturbed area will temporarily be 50' wide to allow for construction of a buried 3" steel water injection line and a buried 3" poly water return line and 30' wide upon completion of the proposed water lines. **Refer to Topographic Map "C."** For a ROW plan of development, please refer to the Monument Butte Field SOP. In the event that the proposed well is converted to a water injection well, a separate injection permit will be applied for through the proper agencies.

The Archaeological Resource Survey and Paleontological Resource Survey for this area are attached will be forthcoming.

**Water Disposal**

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

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

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

None for the proposed Lone Tree Federal A-21-9-17.

**Reserve Pit Liner**

A 16 mil liner with felt is required. Please refer to the Monument Butte Field SOP.

**Location and Reserve Pit Reclamation**

Please refer to the Monument Butte Field SOP.

The following seed mixture will be used on the topsoil stockpile, to the recontoured surface of the reserve pit, and for final reclamation: (All poundages are in pure live seed)

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

**Details of the On-Site Inspection**

The proposed Lone Tree Federal A-21-9-17 was on-sited on 8/22/08. The following were present; Dave Allred (Newfield Production ), Tim Eaton (Newfield Production ), Dave Gordon (Bureau of Land Management ), and James Herford (Bureau of Land Management). Weather conditions were clear and ground cover was 100% open.

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

Representative

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

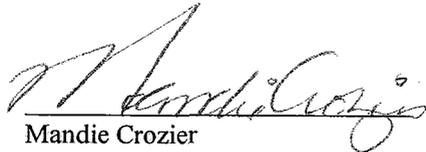
Certification

Please be advised that NEWFIELD PRODUCTION COMPANY is considered to be the operator of well #A-21-9-17 NW/NW Section 22, Township 9S, Range 17E: Lease UTU-13905 Duchesne County, Utah: and is responsible under the terms and conditions of the lease for the operations conducted upon the leased lands. Bond coverage is provided by, Federal Bond #WYB000493.

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

11/22/08

Date



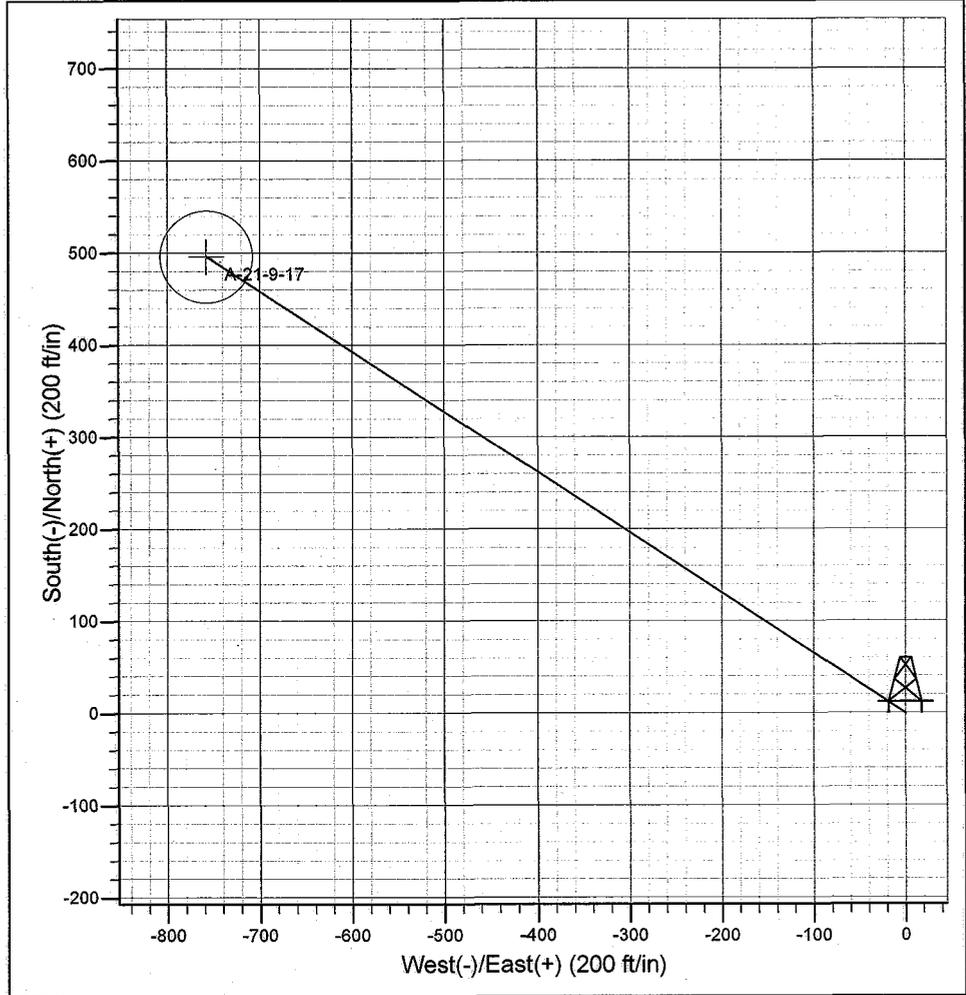
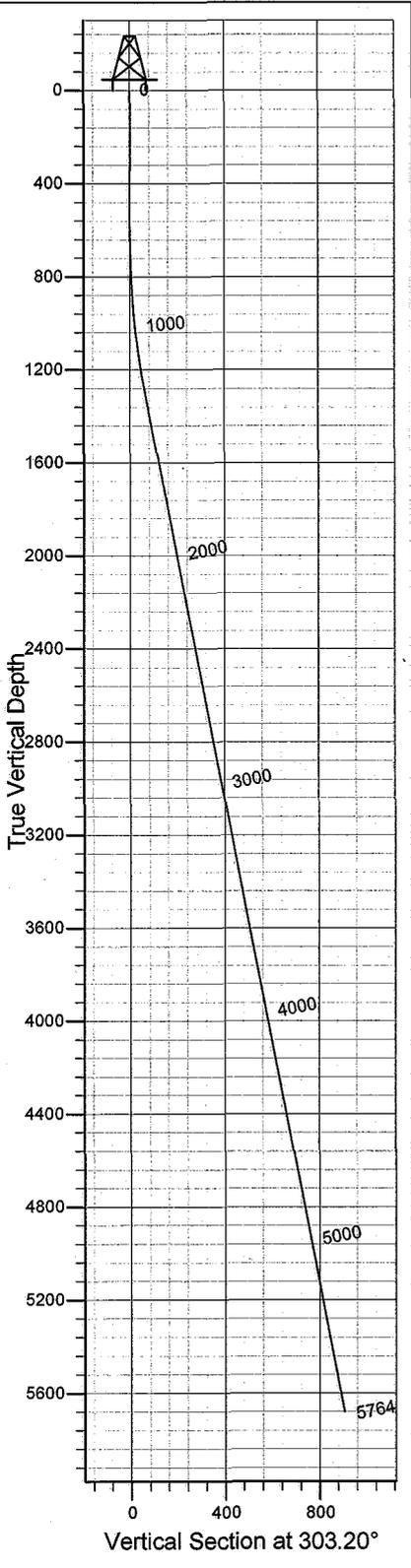
Mandie Crozier  
Regulatory Specialist  
Newfield Production Company

# NEWFIELD



# Newfield Production Company

**Project: Monument Butte**  
**Site: Lone Tree A-21-9-17**  
**Well: Lone Tree A-21-9-17**  
**Wellbore: Wellbore #1**  
**Design: Design #1**



SECTION DETAILS										
Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	DLeg	TFace	VSec	Target
1	0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0	
2	600.0	0.00	0.00	600.0	0.0	0.0	0.00	0.00	0.0	
3	1324.7	10.87	303.20	1320.4	37.5	-57.4	1.50	303.20	68.5	
4	5764.0	10.87	303.20	5680.0	496.0	-757.9	0.00	0.00	905.8	A-21-9-17

**PROJECT DETAILS: Monument Butte**

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

Azimuths to True North  
Magnetic North: 11.60°

Magnetic Field  
Strength: 52549.3snT  
Dip Angle: 65.86°  
Date: 11/21/2008  
Model: IGRF200510

**Created by: Hans Wychgram**

**Date: 11-21-2008**



**Database:** EDM 2003.21 Single User Db  
**Company:** Newfield Production Company  
**Project:** Monument Butte  
**Site:** Lone Tree A-21-9-17  
**Well:** Lone Tree A-21-9-17,  
**Wellbore:** Wellbore #1  
**Design:** Design #1

**Local Co-ordinate Reference:** Well Lone Tree A-21-9-17  
**TVD Reference:** RKB @ 5264.0ft (NDSI #2)  
**MD Reference:** RKB @ 5264.0ft (NDSI #2)  
**North Reference:** True  
**Survey Calculation Method:** Minimum Curvature

<b>Project</b>	Monument Butte		
<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>	Lone Tree A-21-9-17				
<b>Site Position:</b>		<b>Northing:</b>	2,188,569.81 m	<b>Latitude:</b>	40° 1' 19.910 N
<b>From:</b>	Lat/Long	<b>Easting:</b>	628,058.05 m	<b>Longitude:</b>	109° 59' 58.860 W
<b>Position Uncertainty:</b>	0.0 ft	<b>Slot Radius:</b>	in	<b>Grid Convergence:</b>	0.96 °

<b>Well</b>	Lone Tree A-21-9-17					
<b>Well Position</b>	<b>+N/-S</b>	0.0 ft	<b>Northing:</b>	2,188,569.81 m	<b>Latitude:</b>	40° 1' 19.910 N
	<b>+E/-W</b>	0.0 ft	<b>Easting:</b>	628,058.05 m	<b>Longitude:</b>	109° 59' 58.860 W
<b>Position Uncertainty</b>		0.0 ft	<b>Wellhead Elevation:</b>	ft	<b>Ground Level:</b>	5,252.0 ft

<b>Wellbore</b>	Wellbore #1				
<b>Magnetics</b>	<b>Model Name</b>	<b>Sample Date</b>	<b>Declination (°)</b>	<b>Dip Angle (°)</b>	<b>Field Strength (nT)</b>
	IGRF200510	11/21/2008	11.60	65.86	52,549

<b>Design</b>	Design #1				
<b>Audit Notes:</b>					
<b>Version:</b>	<b>Phase:</b>	PROTOTYPE	<b>Tie On Depth:</b>	0.0	
<b>Vertical Section:</b>	<b>Depth From (TVD) (ft)</b>	<b>+N/-S (ft)</b>	<b>+E/-W (ft)</b>	<b>Direction (°)</b>	
	0.0	0.0	0.0	303.20	

<b>Plan Sections</b>										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Dogleg Rate (°/100ft)	Buid Rate (°/100ft)	Turn Rate (°/100ft)	TFO (°)	Target
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.00	0.00	
600.0	0.00	0.00	600.0	0.0	0.0	0.00	0.00	0.00	0.00	
1,324.7	10.87	303.20	1,320.4	37.5	-57.4	1.50	1.50	0.00	303.20	
5,764.0	10.87	303.20	5,680.0	496.0	-757.9	0.00	0.00	0.00	0.00	A-21-9-17



**Database:** EDM 2003.21 Single User Db  
**Company:** Newfield Production Company  
**Project:** Monument Butte  
**Site:** Lone Tree A-21-9-17  
**Well:** Lone Tree A-21-9-17  
**Wellbore:** Wellbore #1  
**Design:** Design #1

**Local Co-ordinate Reference:** Well Lone Tree A-21-9-17  
**TVD Reference:** RKB @ 5264.0ft (NDSI #2)  
**MD Reference:** RKB @ 5264.0ft (NDSI #2)  
**North Reference:** True  
**Survey Calculation Method:** Minimum Curvature

**Planned Survey**

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.00	0.00	0.00
100.0	0.00	0.00	100.0	0.0	0.0	0.0	0.00	0.00	0.00
200.0	0.00	0.00	200.0	0.0	0.0	0.0	0.00	0.00	0.00
300.0	0.00	0.00	300.0	0.0	0.0	0.0	0.00	0.00	0.00
400.0	0.00	0.00	400.0	0.0	0.0	0.0	0.00	0.00	0.00
500.0	0.00	0.00	500.0	0.0	0.0	0.0	0.00	0.00	0.00
600.0	0.00	0.00	600.0	0.0	0.0	0.0	0.00	0.00	0.00
700.0	1.50	303.20	700.0	0.7	-1.1	1.3	1.50	1.50	0.00
800.0	3.00	303.20	799.9	2.9	-4.4	5.2	1.50	1.50	0.00
900.0	4.50	303.20	899.7	6.4	-9.9	11.8	1.50	1.50	0.00
1,000.0	6.00	303.20	999.3	11.5	-17.5	20.9	1.50	1.50	0.00
1,100.0	7.50	303.20	1,098.6	17.9	-27.3	32.7	1.50	1.50	0.00
1,200.0	9.00	303.20	1,197.5	25.8	-39.4	47.0	1.50	1.50	0.00
1,300.0	10.50	303.20	1,296.1	35.0	-53.5	64.0	1.50	1.50	0.00
1,324.7	10.87	303.20	1,320.4	37.5	-57.4	68.5	1.50	1.50	0.00
1,400.0	10.87	303.20	1,394.3	45.3	-69.2	82.7	0.00	0.00	0.00
1,500.0	10.87	303.20	1,492.5	55.6	-85.0	101.6	0.00	0.00	0.00
1,600.0	10.87	303.20	1,590.7	66.0	-100.8	120.5	0.00	0.00	0.00
1,700.0	10.87	303.20	1,688.9	76.3	-116.6	139.3	0.00	0.00	0.00
1,800.0	10.87	303.20	1,787.1	86.6	-132.4	158.2	0.00	0.00	0.00
1,900.0	10.87	303.20	1,885.3	96.9	-148.1	177.0	0.00	0.00	0.00
2,000.0	10.87	303.20	1,983.5	107.3	-163.9	195.9	0.00	0.00	0.00
2,100.0	10.87	303.20	2,081.7	117.6	-179.7	214.8	0.00	0.00	0.00
2,200.0	10.87	303.20	2,180.0	127.9	-195.5	233.6	0.00	0.00	0.00
2,300.0	10.87	303.20	2,278.2	138.2	-211.3	252.5	0.00	0.00	0.00
2,400.0	10.87	303.20	2,376.4	148.6	-227.0	271.3	0.00	0.00	0.00
2,500.0	10.87	303.20	2,474.6	158.9	-242.8	290.2	0.00	0.00	0.00
2,600.0	10.87	303.20	2,572.8	169.2	-258.6	309.1	0.00	0.00	0.00
2,700.0	10.87	303.20	2,671.0	179.6	-274.4	327.9	0.00	0.00	0.00
2,800.0	10.87	303.20	2,769.2	189.9	-290.2	346.8	0.00	0.00	0.00
2,900.0	10.87	303.20	2,867.4	200.2	-305.9	365.6	0.00	0.00	0.00
3,000.0	10.87	303.20	2,965.6	210.5	-321.7	384.5	0.00	0.00	0.00
3,100.0	10.87	303.20	3,063.8	220.9	-337.5	403.3	0.00	0.00	0.00
3,200.0	10.87	303.20	3,162.0	231.2	-353.3	422.2	0.00	0.00	0.00
3,300.0	10.87	303.20	3,260.2	241.5	-369.1	441.1	0.00	0.00	0.00
3,400.0	10.87	303.20	3,358.4	251.8	-384.9	459.9	0.00	0.00	0.00
3,500.0	10.87	303.20	3,456.6	262.2	-400.6	478.8	0.00	0.00	0.00
3,600.0	10.87	303.20	3,554.8	272.5	-416.4	497.6	0.00	0.00	0.00
3,700.0	10.87	303.20	3,653.0	282.8	-432.2	516.5	0.00	0.00	0.00
3,800.0	10.87	303.20	3,751.2	293.1	-448.0	535.4	0.00	0.00	0.00
3,900.0	10.87	303.20	3,849.4	303.5	-463.8	554.2	0.00	0.00	0.00
4,000.0	10.87	303.20	3,947.7	313.8	-479.5	573.1	0.00	0.00	0.00
4,100.0	10.87	303.20	4,045.9	324.1	-495.3	591.9	0.00	0.00	0.00
4,200.0	10.87	303.20	4,144.1	334.5	-511.1	610.8	0.00	0.00	0.00
4,300.0	10.87	303.20	4,242.3	344.8	-526.9	629.7	0.00	0.00	0.00
4,400.0	10.87	303.20	4,340.5	355.1	-542.7	648.5	0.00	0.00	0.00
4,500.0	10.87	303.20	4,438.7	365.4	-558.4	667.4	0.00	0.00	0.00
4,600.0	10.87	303.20	4,536.9	375.8	-574.2	686.2	0.00	0.00	0.00
4,700.0	10.87	303.20	4,635.1	386.1	-590.0	705.1	0.00	0.00	0.00
4,800.0	10.87	303.20	4,733.3	396.4	-605.8	724.0	0.00	0.00	0.00
4,900.0	10.87	303.20	4,831.5	406.7	-621.6	742.8	0.00	0.00	0.00
5,000.0	10.87	303.20	4,929.7	417.1	-637.3	761.7	0.00	0.00	0.00
5,100.0	10.87	303.20	5,027.9	427.4	-653.1	780.5	0.00	0.00	0.00
5,200.0	10.87	303.20	5,126.1	437.7	-668.9	799.4	0.00	0.00	0.00



**Newfield Production Company**  
 Planning Report

**Database:** EDM 2003.21 Single User Db  
**Company:** Newfield Production Company  
**Project:** Monument Butte  
**Site:** Lone Tree A-21-9-17  
**Well:** Lone Tree A-21-9-17  
**Wellbore:** Wellbore #1  
**Design:** Design #1

**Local Co-ordinate Reference:** Well Lone Tree A-21-9-17  
**TVD Reference:** RKB @ 5264.0ft (NDSI #2)  
**MD Reference:** RKB @ 5264.0ft (NDSI #2)  
**North Reference:** True  
**Survey Calculation Method:** Minimum Curvature

**Planned Survey**

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
5,300.0	10.87	303.20	5,224.3	448.0	-684.7	818.3	0.00	0.00	0.00
5,400.0	10.87	303.20	5,322.5	458.4	-700.5	837.1	0.00	0.00	0.00
5,500.0	10.87	303.20	5,420.7	468.7	-716.2	856.0	0.00	0.00	0.00
5,600.0	10.87	303.20	5,518.9	479.0	-732.0	874.8	0.00	0.00	0.00
5,700.0	10.87	303.20	5,617.1	489.4	-747.8	893.7	0.00	0.00	0.00
5,764.0	10.87	303.20	5,680.0	496.0	-757.9	905.8	0.00	0.00	0.00

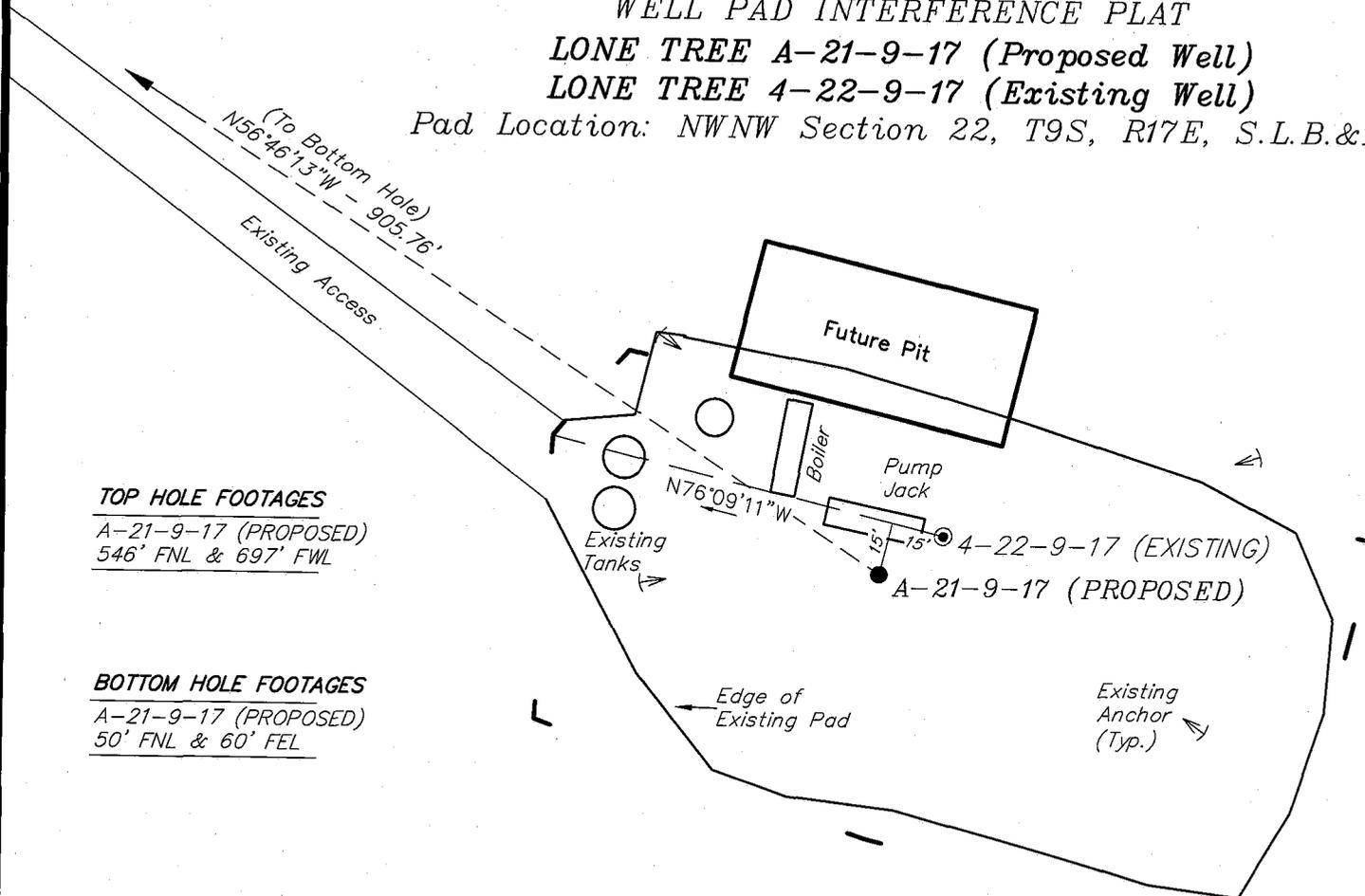
# NEWFIELD PRODUCTION COMPANY

## WELL PAD INTERFERENCE PLAT

LONE TREE A-21-9-17 (Proposed Well)

LONE TREE 4-22-9-17 (Existing Well)

Pad Location: NWNW Section 22, T9S, R17E, S.L.B.&M.



**TOP HOLE FOOTAGES**

A-21-9-17 (PROPOSED)  
546' FNL & 697' FWL

**BOTTOM HOLE FOOTAGES**

A-21-9-17 (PROPOSED)  
50' FNL & 60' FEL

**Note:**

Bearings are based on GLO Information.

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

WELL	LATITUDE	LONGITUDE
A-21-9-17	40° 01' 19.91"	109° 59' 58.86"
4-22-9-17	40° 01' 20.02"	109° 59' 58.63"

**RELATIVE COORDINATES**  
From top hole to bottom hole

WELL	NORTH	EAST
A-21-9-17	496'	-758'

SURVEYED BY: T.C.	DATE SURVEYED: 10-10-08
DRAWN BY: F.T.M.	DATE DRAWN: 10-14-08
SCALE: 1" = 50'	REVISED:

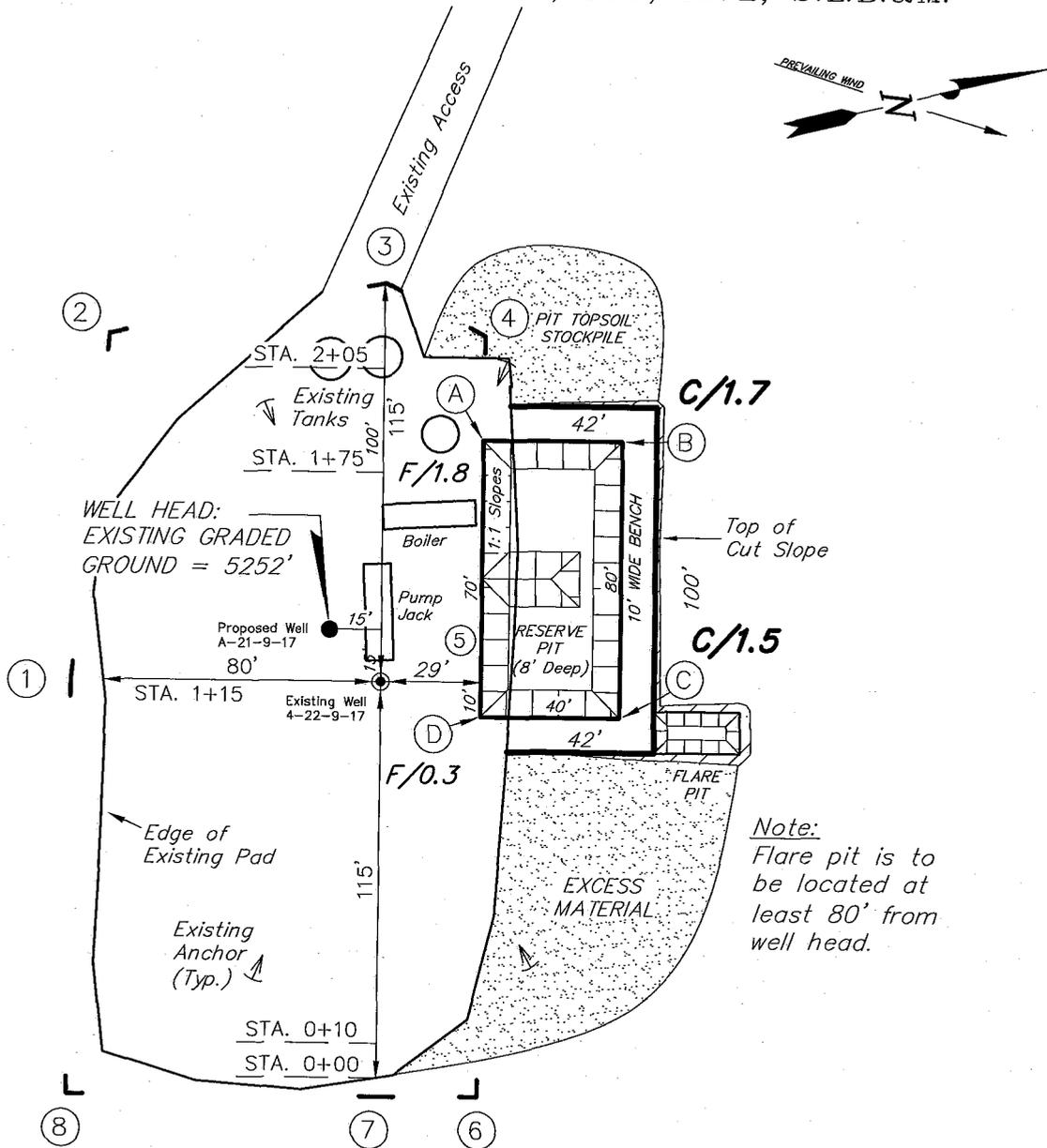
**Tri State** (435) 781-2501  
Land Surveying, Inc.  
180 NORTH VERNAL AVE. VERNAL, UTAH 84078

# NEWFIELD PRODUCTION COMPANY

LONE TREE A-21-9-17 (Proposed Well)

LONE TREE 4-22-9-17 (Existing Well)

Pad Location: NWNW Section 22, T9S, R17E, S.L.B.&M.



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

SURVEYED BY: T.C.	DATE SURVEYED: 10-13-08
DRAWN BY: F.T.M.	DATE DRAWN: 10-14-08
SCALE: 1" = 50'	REVISED:

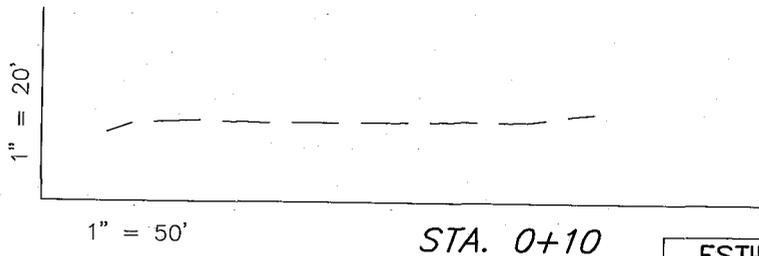
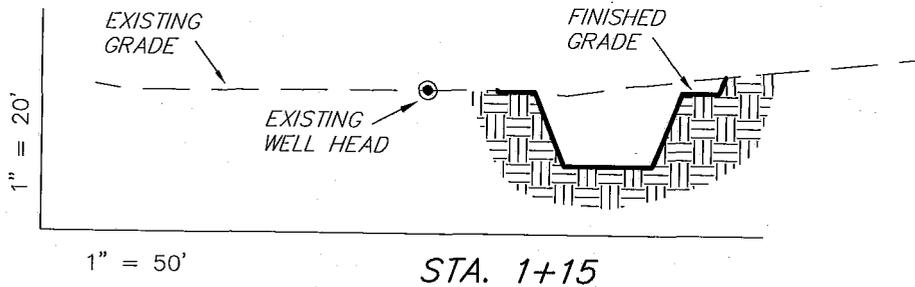
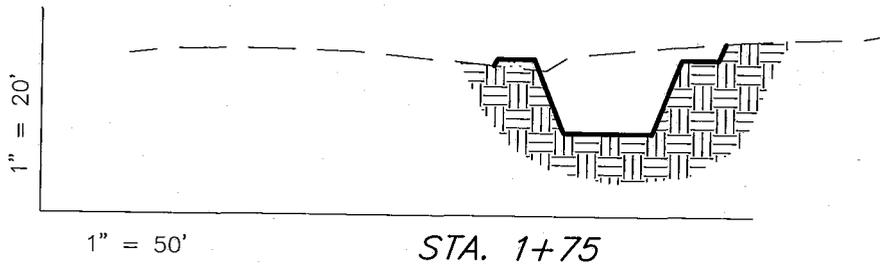
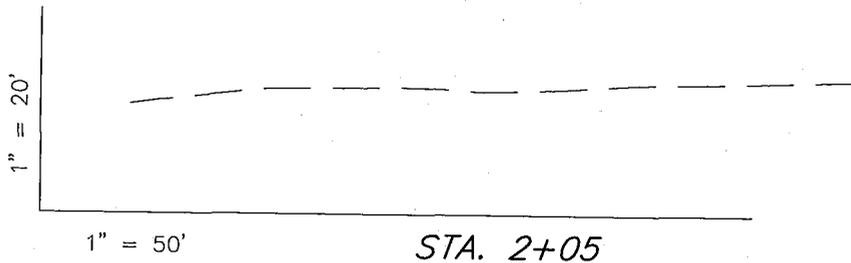
**Tri State** (435) 781-2501  
 Land Surveying, Inc.  
 180 NORTH VERNAL AVE. VERNAL, UTAH 84078

# NEWFIELD PRODUCTION COMPANY

## CROSS SECTIONS

LONE TREE A-21-9-17 (Proposed Well)

LONE TREE 4-22-9-17 (Existing Well)



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

ESTIMATED EARTHWORK QUANTITIES (No Shrink or swell adjustments have been used) (Expressed in Cubic Yards)				
ITEM	CUT	FILL	6" TOPSOIL	EXCESS
PAD	170	20	Topsoil is not included in Pad Cut	150
PIT	640	0		640
TOTALS	810	20	130	790

SURVEYED BY: T.C.	DATE SURVEYED: 10-13-08
DRAWN BY: F.T.M.	DATE DRAWN: 10-14-08
SCALE: 1" = 50'	REVISED:

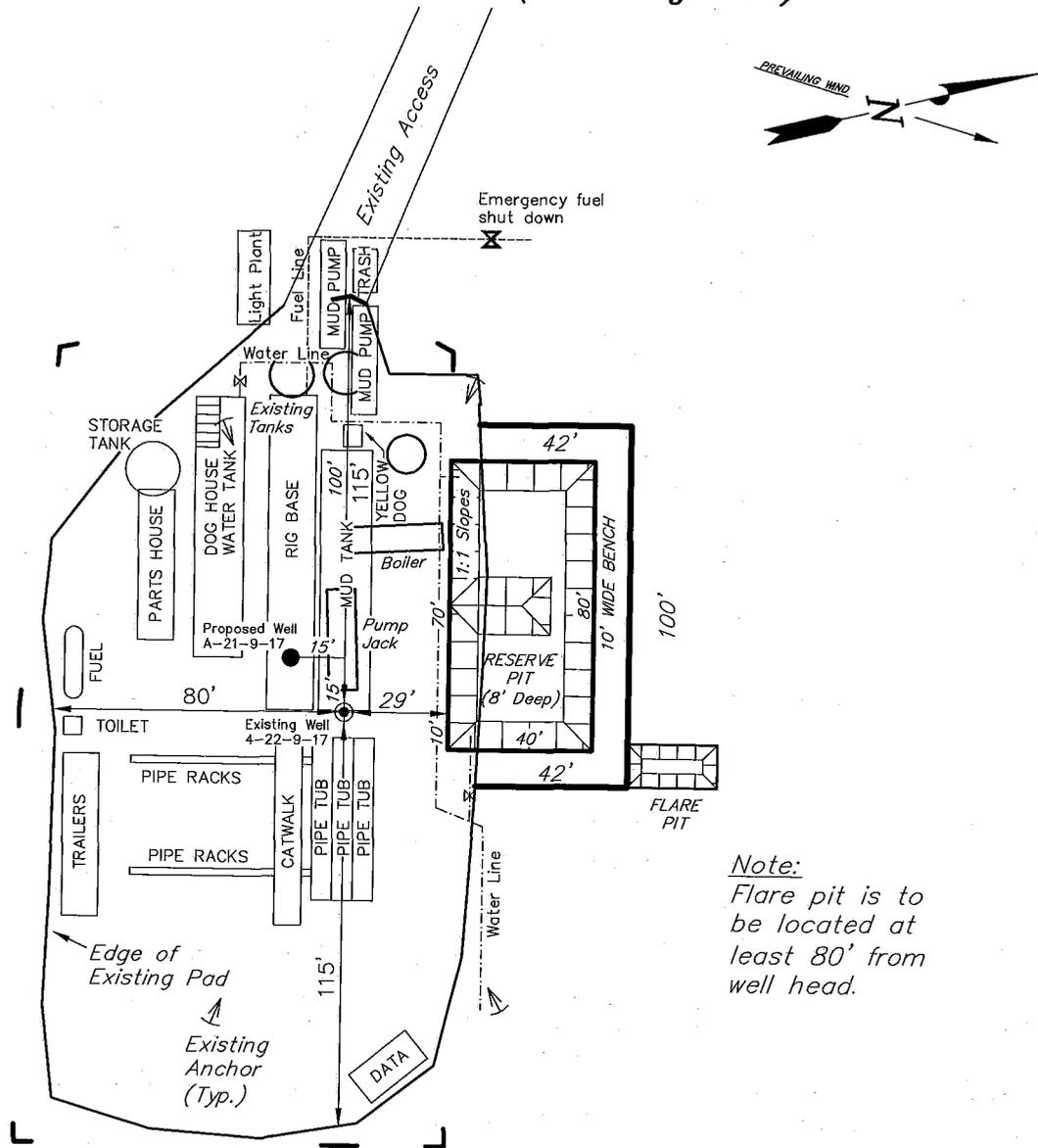
**Tri State** (435) 781-2501  
Land Surveying, Inc.  
180 NORTH VERNAL AVE. VERNAL, UTAH 84078

# NEWFIELD PRODUCTION COMPANY

## TYPICAL RIG LAYOUT

LONE TREE A-21-9-17 (Proposed Well)

LONE TREE 4-22-9-17 (Existing Well)



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

SURVEYED BY: T.C.	DATE SURVEYED: 10-13-08
DRAWN BY: F.T.M.	DATE DRAWN: 10-14-08
SCALE: 1" = 50'	REVISED:

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

# Newfield Production Company Proposed Site Facility Diagram

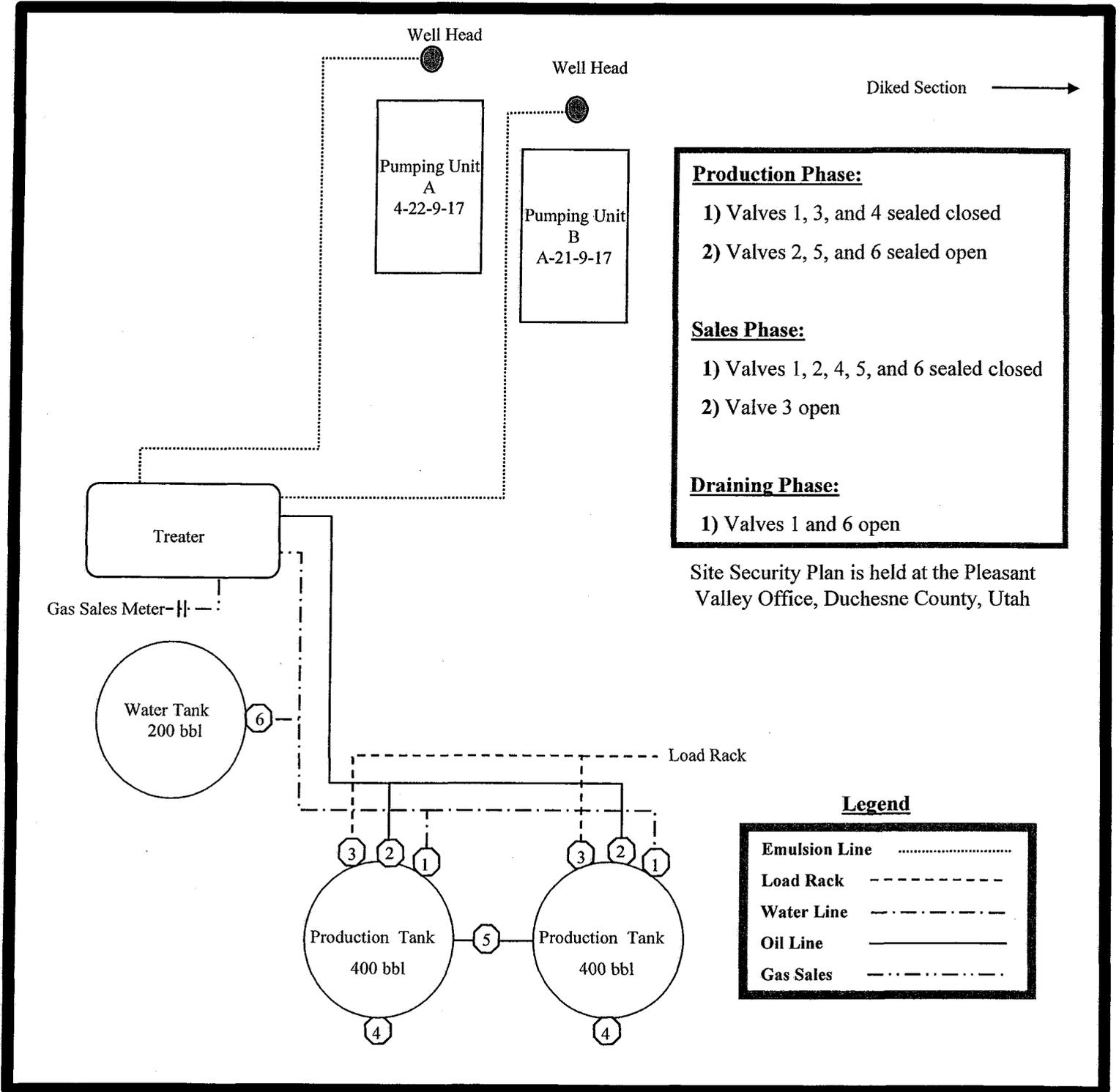
Lone Tree Federal A-21-9-17

From the 4-22-9-17 Location

NW/NW Sec. 22 T9S, R17E

Duchesne County, Utah

UTU-13905



**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

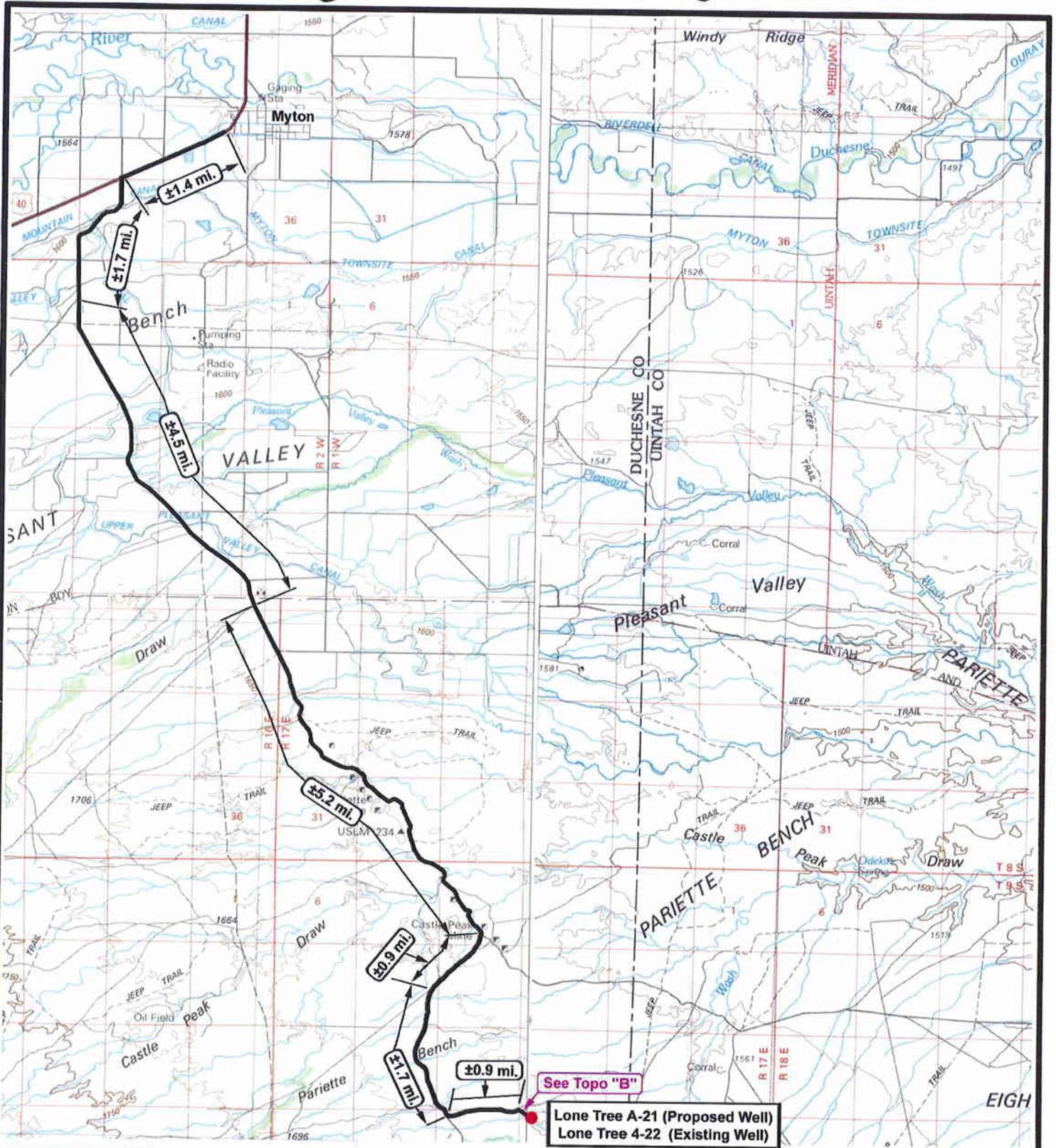
**Draining Phase:**

- 1) Valves 1 and 6 open

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

**Legend**

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



See Topo "B"  
 Lone Tree A-21 (Proposed Well)  
 Lone Tree 4-22 (Existing Well)



**NEWFIELD**  
 Exploration Company

**Lone Tree Unit A-21-9-17 (Proposed Well)**  
**Lone Tree Unit 4-22-9-17 (Existing Well)**  
 Pad Location: NWNW SEC. 22, T9S, R17E, S.L.B.&M.



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

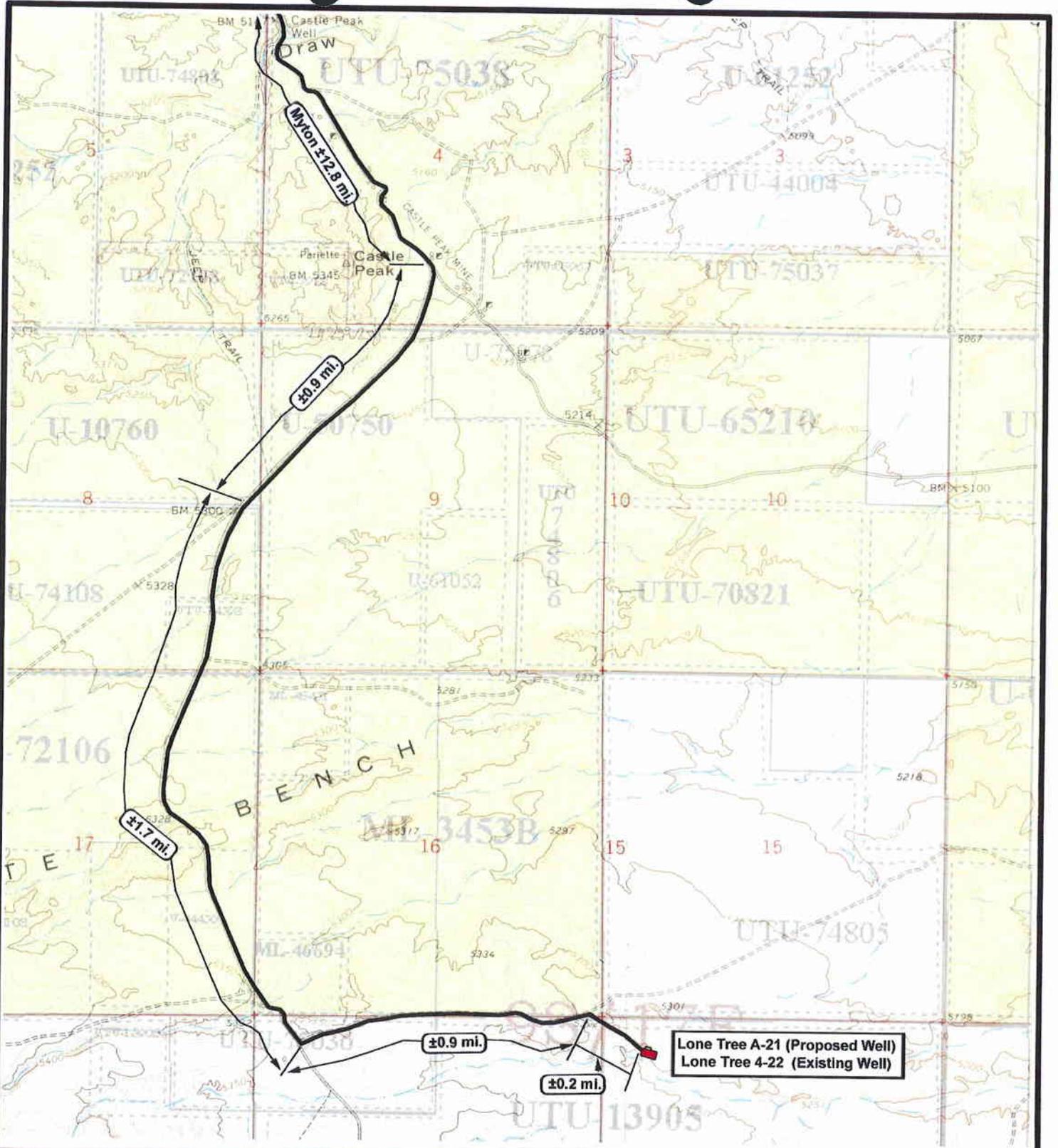
SCALE: 1 = 100,000  
 DRAWN BY: JAS  
 DATE: 10-17-2008

**Legend**

Existing Road

TOPOGRAPHIC MAP

**"A"**



**NEWFIELD**  
Exploration Company

**Lone Tree Unit A-21-9-17 (Proposed Well)**  
**Lone Tree Unit 4-22-9-17 (Existing Well)**  
 Pad Location: NWNW SEC. 22, T9S, R17E, S.L.B.&M.



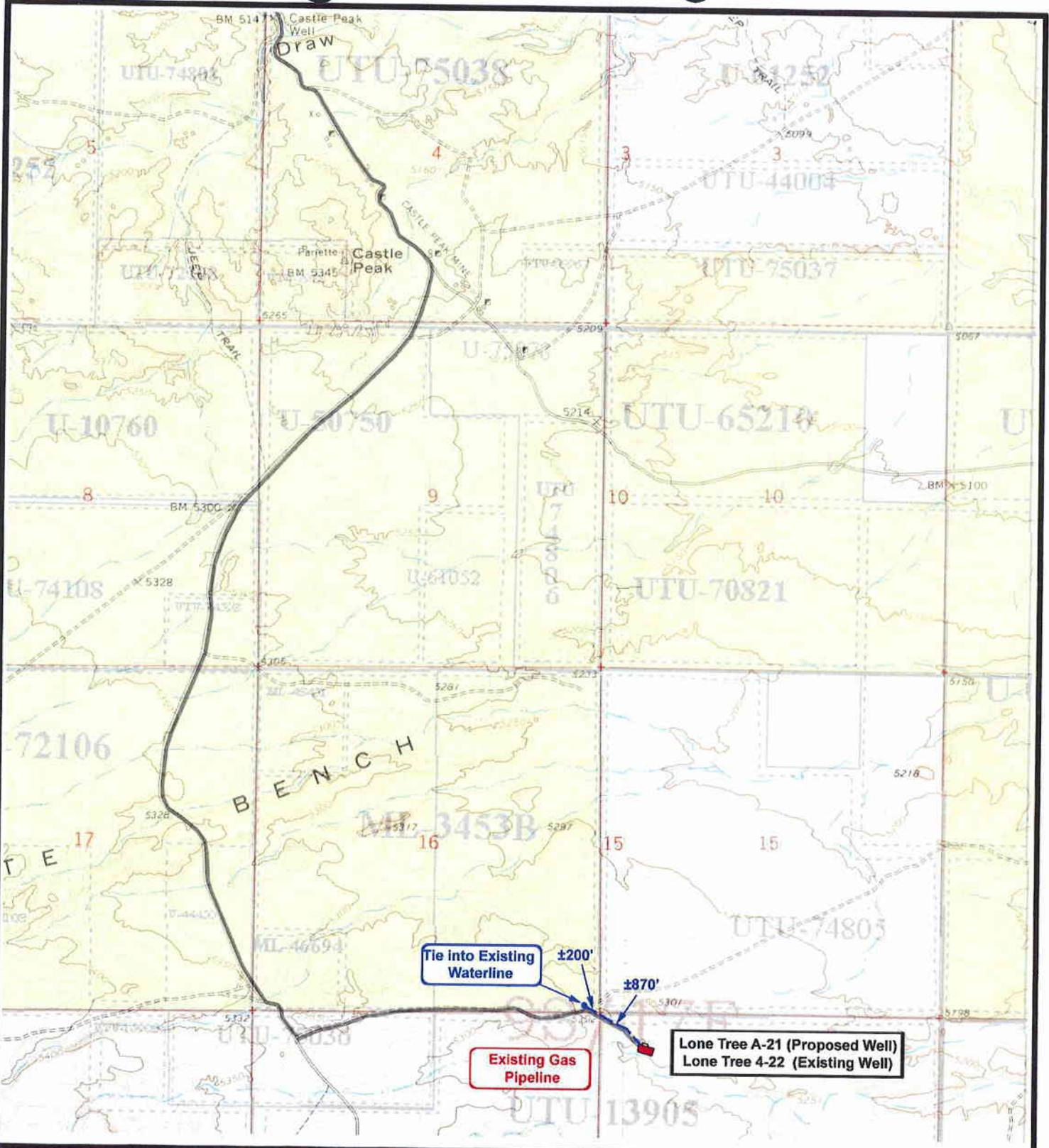
*Tri-State*  
Land Surveying Inc.  
 (435) 781-2501  
 180 North Vernal Ave. Vernal, Utah 84078

SCALE: 1" = 2,000'  
 DRAWN BY: JAS  
 DATE: 10-17-2008

**Legend**

Existing Road

TOPOGRAPHIC MAP  
**"B"**



Tie into Existing Waterline

±200'

±870'

Existing Gas Pipeline

Lone Tree A-21 (Proposed Well)  
Lone Tree 4-22 (Existing Well)

**NEWFIELD**  
Exploration Company

**Lone Tree Unit A-21-9-17 (Proposed Well)**  
**Lone Tree Unit 4-22-9-17 (Existing Well)**  
Pad Location: NWNW SEC. 22, T9S, R17E, S.L.B.&M.

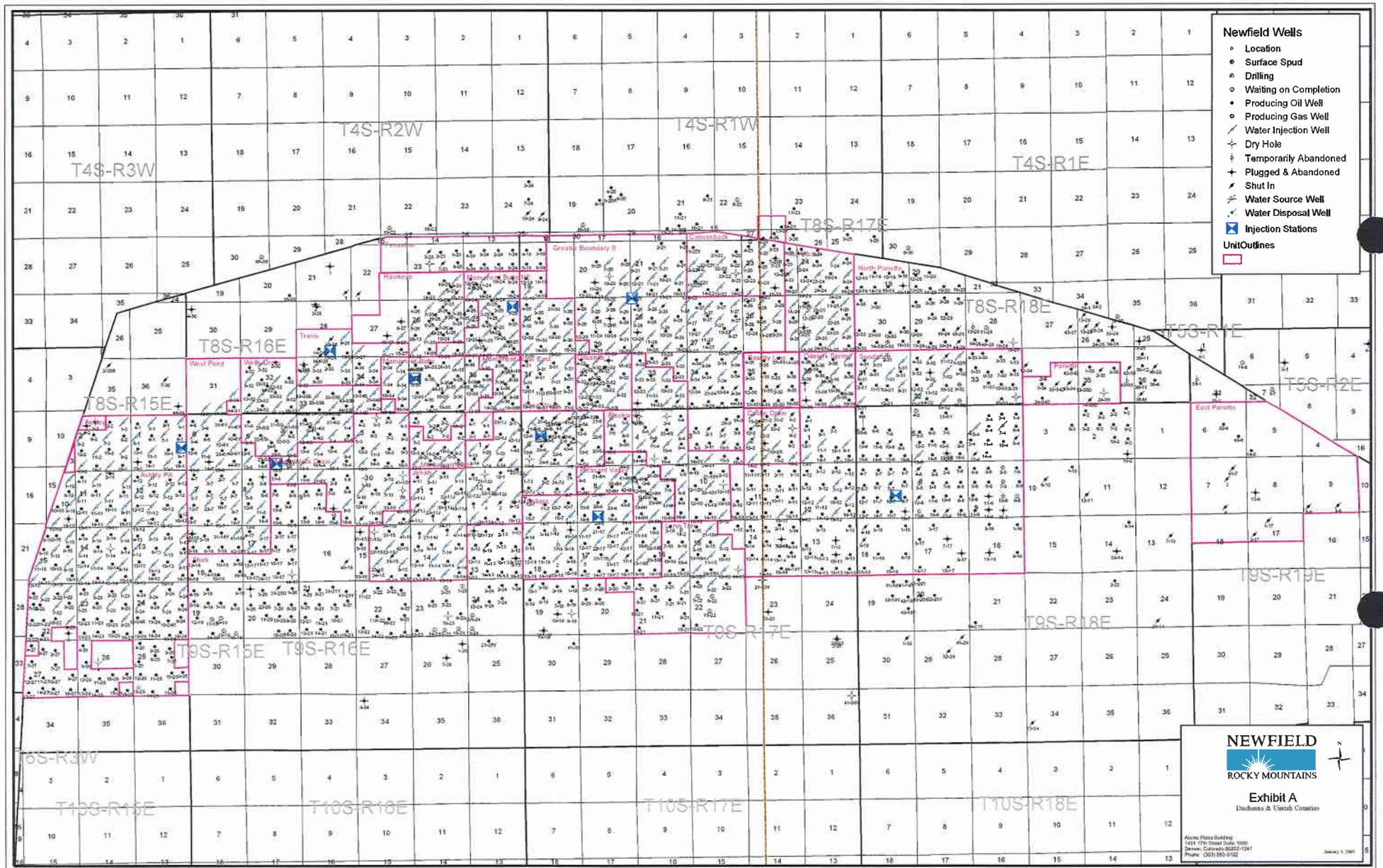
**Tri-State**  
Land Surveying Inc.  
(435) 781-2501  
180 North Vernal Ave. Vernal, Utah 84078

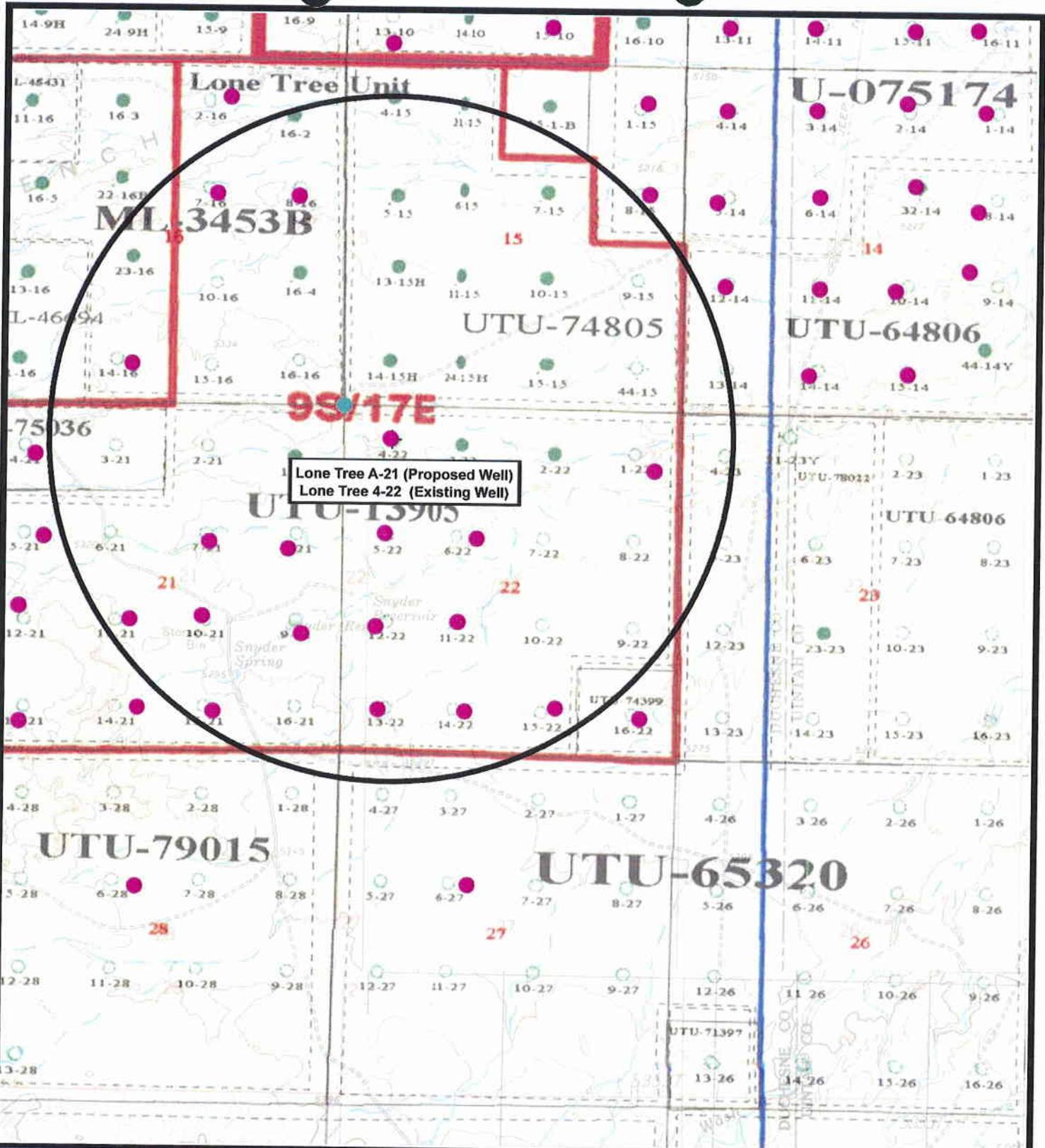
SCALE: 1" = 2,000'  
DRAWN BY: JAS  
DATE: 10-17-2008

**Legend**

- Roads
- Proposed Water Line

**TOPOGRAPHIC MAP**  
**"C"**





Lone Tree A-21 (Proposed Well)  
 Lone Tree 4-22 (Existing Well)



**Lone Tree Unit A-21-9-17 (Proposed Well)**  
**Lone Tree Unit 4-22-9-17 (Existing Well)**  
 Pad Location: NWNW SEC. 22, T9S, R17E, S.L.B.&M.



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

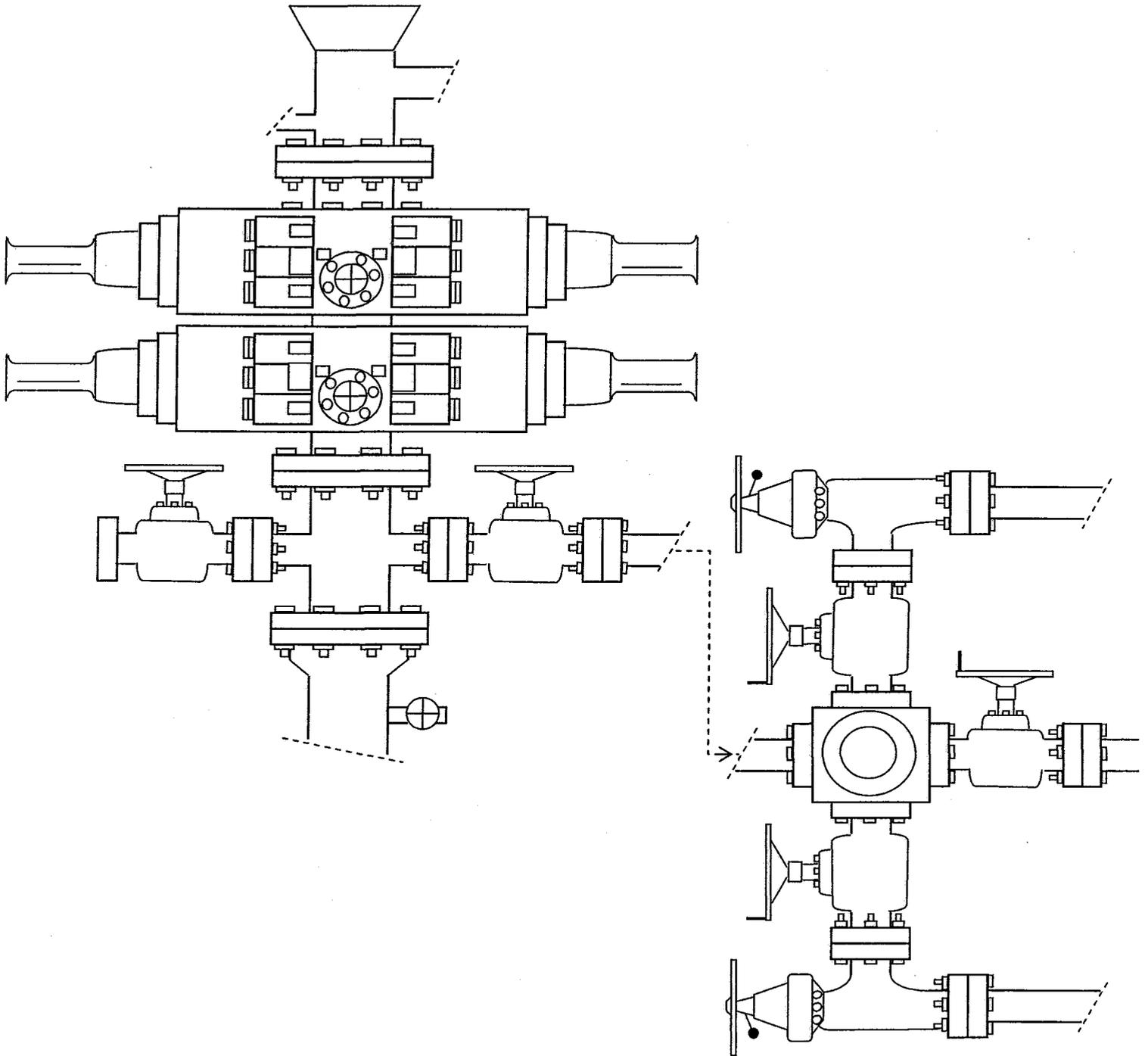
SCALE: 1" = 2,000'  
 DRAWN BY: JAS  
 DATE: 10-17-2008

**Legend**

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

**Exhibit "B"**

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



**EXHIBIT C**

**WORKSHEET  
APPLICATION FOR PERMIT TO DRILL**

APD RECEIVED: 12/11/2008

API NO. ASSIGNED: 43-013-34160

WELL NAME: LONE TREE FED A-21-9-17  
 OPERATOR: NEWFIELD PRODUCTION ( N2695 )  
 CONTACT: MANDIE CROZIER

PHONE NUMBER: 435-646-3721

PROPOSED LOCATION:

NWNW 22 090S 170E  
 SURFACE: 0546 FNL 0697 FWL  
 BOTTOM: 0050 FNL 0060 FEL Sec. 21  
 COUNTY: DUCHESNE  
 LATITUDE: 40.02232 LONGITUDE: -109.9988  
 UTM SURF EASTINGS: 585435 NORTHINGS: 4430504  
 FIELD NAME: MONUMENT BUTTE ( 105 )

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

LEASE TYPE: 1 - Federal  
 LEASE NUMBER: UTU-13905  
 SURFACE OWNER: 1 - Federal

PROPOSED FORMATION: GRRV  
 COALBED METHANE WELL? NO

RECEIVED AND/OR REVIEWED:

- Plat
- Bond: Fed[1] Ind[] Sta[] Fee[]  
(No. WYB000493 )
- Potash (Y/N)
- Oil Shale 190-5 (B) or 190-3 or 190-13
- Water Permit  
(No. 43-7478 )
- RDCC Review (Y/N)  
(Date: \_\_\_\_\_ )
- Fee Surf Agreement (Y/N)
- Intent to Commingle (Y/N)

LOCATION AND SITING:

- \_\_\_\_\_ R649-2-3.
- Unit: LONE TREE (GRRV)
- \_\_\_\_\_ R649-3-2. General  
Siting: 460 From Qtr/Qtr & 920' Between Wells
- \_\_\_\_\_ R649-3-3. Exception
- Drilling Unit  
Board Cause No: 2285  
Eff Date: 8-26-1998  
Siting: Suspend Siting
- R649-3-11. Directional Drill

COMMENTS: SOP, Separate PLU

STIPULATIONS: 1- Federal Approval





December 9, 2008

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

RE: Directional Drilling  
**Lone Tree Federal A-21-9-17**  
Lone Tree Unit  
UTU-77236X  
Surface Hole: T9S R17E, Section 22: NWNW  
546' FNL 697' FWL  
Bottom Hole: T9S R17E, Section 21  
50' FNL 60' FEL  
Duchesne County, Utah

Dear Ms. Mason;

Pursuant to the filing of Newfield Production Company's ("NPC") Application for Permit to Drill dated November 24, 2008, a copy of which is attached, for the above referenced well, and in accordance with Oil and Gas Conservation Rule R649-3-11, NPC hereby submits this letter as notice of our intention to directionally drill this well.

The surface hole location and bottom hole location of this well are both within the boundaries of the Lone Tree Unit UTU-77236X. Newfield certifies that it is the Lone Tree Unit Operator and all lands within 460 feet of the entire directional well bore are within the Lone Tree Unit.

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

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

Sincerely,  
NEWFIELD PRODUCTION COMPANY

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

Roxann Eveland  
Land Associate

RECEIVED  
DEC 15 2008  
DIV. OF OIL, GAS & MINING

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

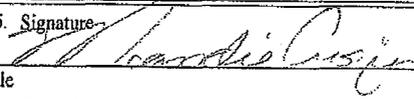
APPLICATION FOR PERMIT TO DRILL OR REENTER

5. Lease Serial No. UTU-13905	
6. If Indian, Allottee or Tribe Name NA	
7. If Unit or CA Agreement, Name and No. Lone Tree	
8. Lease Name and Well No. Lone Tree Federal A-21-9-17	
9. API Well No.	
1a. Type of work: <input checked="" type="checkbox"/> DRILL <input type="checkbox"/> REENTER	10. Field and Pool, or Exploratory Monument Butte
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 Sec. 22, T9S R17E
2. Name of Operator Newfield Production Company	
3a. Address Route #3 Box 3630, Myton UT 84052	3b. Phone No. (include area code) (435) 646-3721
12. County or Parish Duchesne	
13. State UT	
14. Distance in miles and direction from nearest town or post office* Approximately 16.5 miles southeast of Myton, UT	
15. Distance from proposed* location to nearest property or lease line, ft. Approx. 50' f/lse, 2580' f/unit (Also to nearest drig. unit line, if any)	16. No. of acres in lease 1,200.00
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. 1259'
19. Proposed Depth 5,680'	20. BLM/BIA Bond No. on file WYB000493
21. Elevations (Show whether DF, KDB, RT, GL, etc.) 5252' GL	22. Approximate date work will start* 1st Oct. 2009
23. Estimated duration (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, must be attached to this form:

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

25. Signature 	Name (Printed/Typed) Mandie Crozier	Date 11/24/08
Title Regulatory Specialist		
Approved by (Signature)	Name (Printed/Typed)	Date
Title	Office	

Application approval 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.  
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.

(Continued on page 2)

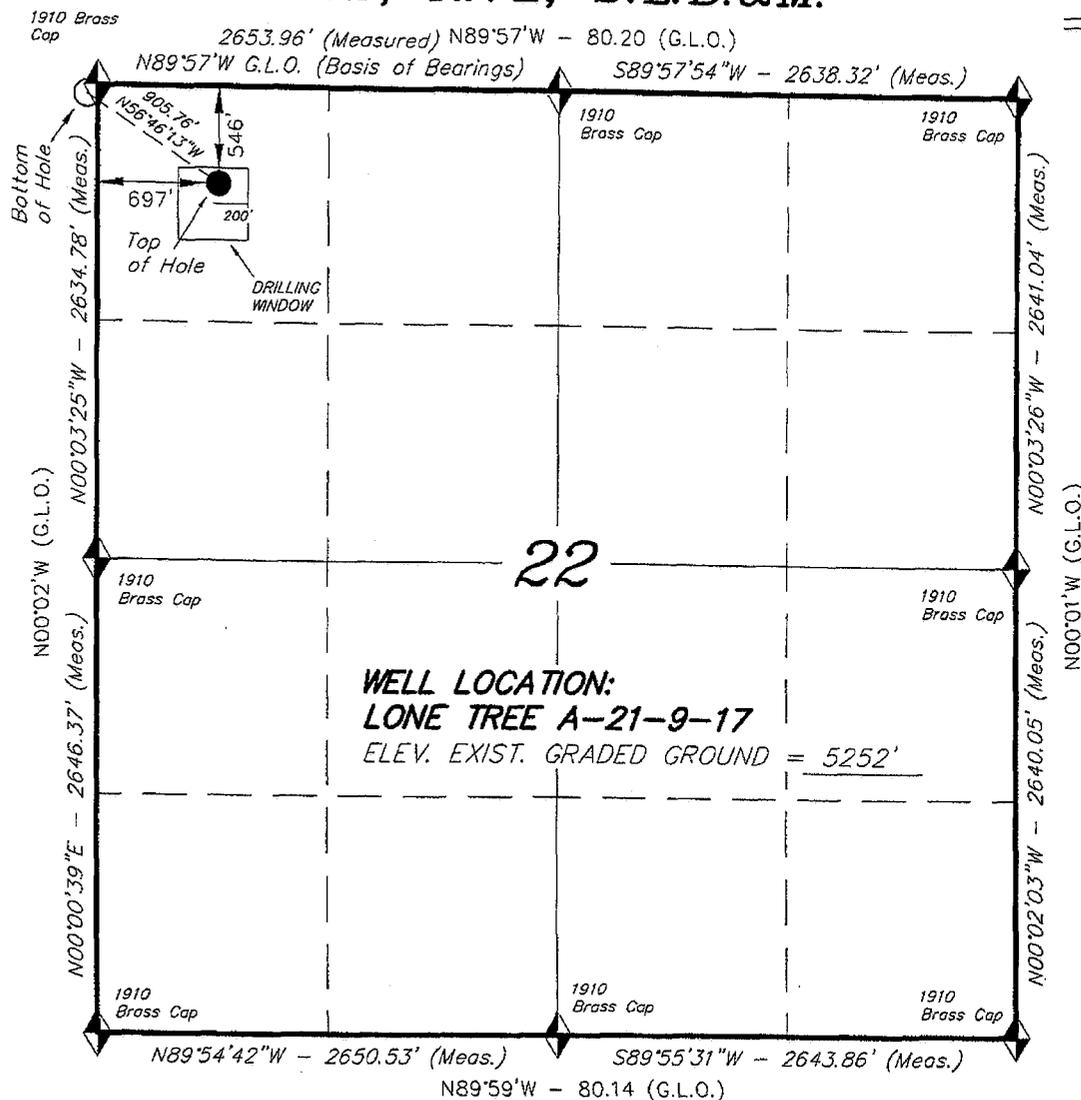
\*(Instructions on page 2)

RECEIVED  
DEC 15 2008  
DIV. OF OIL, GAS & MINING

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

## NEWFIELD PRODUCTION COMPANY

WELL LOCATION, LONE TREE A-21-9-17,  
 LOCATED AS SHOWN IN THE NW 1/4 NW  
 1/4 OF SECTION 22, T9S, R17E,  
 S.L.B.&M. DUCHESNE COUNTY, UTAH.



◆ = SECTION CORNERS LOCATED

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

LONE TREE A-21-9-17  
 (Surface Location) NAD 83  
 LATITUDE = 40° 01' 19.91"  
 LONGITUDE = 109° 59' 58.86"

TRI STATE LAND SURVEYING & CONSULTING 180 NORTH VERNAL AVE. - VERNAL, UTAH 84078 (435) 781-2501	
DATE SURVEYED: 10-10-08	SURVEYED BY: T.C.
DATE DRAWN: 10-14-08	DRAWN BY: F.T.M.
REVISED:	SCALE: 1" = 1000'

# United States Department of the Interior

## BUREAU OF LAND MANAGEMENT

Utah State Office

P.O. Box 45155

Salt Lake City, Utah 84145-0155

**IN REPLY REFER TO:**

3160

(UT-922)

December 19, 2008

Memorandum

To: Assistant District Manager Minerals, Vernal District

From: Michael Coulthard, Petroleum Engineer

Subject: 2008 Plan of Development Lone Tree Unit, Duchesne County, Utah.

Pursuant to email between Diana Whitney, Division of Oil, Gas and Mining, and Mickey Coulthard, Utah State Office, Bureau of Land Management, the following wells are planned for calendar year 2008 within the Lone Tree Unit, Duchesne County, Utah.

API#	WELL NAME	LOCATION
(Proposed PZ Green River)		
43-013-34161	Lone Tree Fed	14-21-9-17 Sec 21 T09S R17E 0655 FSL 2179 FWL
43-013-34162	Lone Tree Fed	10-21-9-17 Sec 21 T09S R17E 2058 FSL 2079 FEL
43-013-34163	Lone Tree Fed	15-21-9-17 Sec 21 T09S R17E 0589 FSL 1893 FEL
43-013-34157	Lone Tree Fed	R-15-9-17 Sec 15 T09S R17E 1998 FSL 1983 FWL
		BHL Sec 15 T09S R17E 1320 FSL 2620 FEL
43-013-34158	Lone Tree Fed	H-22-9-17 Sec 22 T09S R17E 1863 FNL 2098 FWL
		BHL Sec 22 T09S R17E 1295 FNL 2517 FEL
43-013-34159	Lone Tree Fed	G-22-9-17 Sec 22 T09S R17E 1829 FNL 0724 FWL
		BHL Sec 22 T09S R17E 1213 FNL 1375 FWL
43-013-34160	Lone Tree Fed	A-21-9-17 Sec 22 T09S R17E 0546 FNL 0697 FWL
		BHL Sec 21 T09S R17E 0050 FNL 0060 FEL

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

/s/ Michael L. Coulthard

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



JON M. HUNTSMAN, JR.  
Governor

GARY R. HERBERT  
Lieutenant Governor

# State of Utah

## DEPARTMENT OF NATURAL RESOURCES

MICHAEL R. STYLER  
Executive Director

### Division of Oil, Gas and Mining

JOHN R. BAZA  
Division Director

December 22, 2008

Newfield Production Company  
Rt 3 Box 3630  
Myton, UT 84052

Re: Lone Tree Federal A-21-9-17 Well, Surface Location 546' FNL, 697' FWL,  
NW NW, Sec. 22, T. 9 South, R. 17 East, Bottom Location 50' FNL, 60' FEL,  
SE SE, Sec. 21, T. 9 South, R. 17 East, Duchesne County, Utah

Gentlemen:

Pursuant to the provisions and requirements of Utah Code Ann. § 40-6-1 *et seq.*, Utah Administrative Code R649-3-1 *et seq.*, and the attached Conditions of Approval, approval to drill the referenced well is granted.

This approval shall expire one year from the above date unless substantial and continuous operation is underway, or a request for extension is made prior to the expiration date. The API identification number assigned to this well is 43-013-34160.

Sincerely,

Gil Hunt  
Associate Director

js  
Enclosures

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



**Operator:** Newfield Production Company  
**Well Name & Number** Lone Tree Federal A-21-9-17  
**API Number:** 43-013-34160  
**Lease:** UTU-13905

**Surface Location:** NW NW      **Sec.** 22      **T.** 9 South      **R.** 17 East  
**Bottom Location:** SE SE      **Sec.** 21      **T.** 9 South      **R.** 17 East

### Conditions of Approval

#### 1. General

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

#### 2. Notification Requirements

Notify the Division within 24 hours of spudding the well.

- Contact Carol Daniels at (801) 538-5284

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

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

#### 3. Reporting Requirements

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

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

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

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

RECEIVED  
VERNAL FIELD OFFICE

APPLICATION FOR PERMIT TO DRILL OR REENTER

5. Lease Serial No.  
UTU-13905

6. If Indian, Allottee or Tribe Name  
NA

7. If Unit or CA Agreement, Name and No.  
Lone Tree

8. Lease Name and Well No.  
Lone Tree Federal A-21-9-17

9. API Well No.  
43 013 31160

10. Field and Pool, or Exploratory  
Monument Butte

11. Sec., T. R. M. or Blk. and Survey or Area  
Sec. 22, T9S R17E

12. County or Parish  
Duchesne

13. State  
UT

1a. Type of work:  DRILL  REENTER

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

2. Name of Operator  
Newfield Production Company

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

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

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

At surface NW/NW 546' FNL 697' FWL Sec. 22, T9S R17E

At proposed prod. zone 50' FNL 60' FEL Sec. 21, T9S R17E *NENE*

14. Distance in miles and direction from nearest town or post office\*  
Approximately 16.5 miles southeast of Myton, UT

15. Distance from proposed\* location to nearest property or lease line, ft. Approx. 50' f/lse, 2580' f/unit (Also to nearest drig. unit line, if any)

16. No. of acres in lease  
1,200.00

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. 1259'

19. Proposed Depth  
5,680'

20. BLM/BIA Bond No. on file  
WYB000493

21. Elevations (Show whether DF, KDB, RT, GL, etc.)  
5252' GL

22. Approximate date work will start\*  
1st Qtr. 2009

23. Estimated duration  
(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, must be attached to this form:

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

25. Signature *Mandie Crozier*  
Title  
Regulatory Specialist

Name (Printed/Typed)  
Mandie Crozier

Date  
11/24/08

Approved by (Signature) *Larry Reynolds*  
Title  
District Manager  
Land & Mineral Resources

Name (Printed/Typed)  
Larry Reynolds  
Office  
VERNAL FIELD OFFICE

Date  
APR 30 2009

Application approval 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.  
Conditions of approval, if any, are attached.

CONDITIONS OF APPROVAL ATTACHED

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

(Continued on page 2)

\*(Instructions on page 2)

NOTICE OF APPROVAL

NOS 10/20/08

RECEIVED

AFMSS# 09SXS0054A

MAY 13 2009

DIV. OF OIL, GAS & MINING





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

170 South 500 East

VERNAL, UT 84078

(435) 781-4400



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

<b>Company:</b>	<b>Newfield Production Company</b>	<b>Location:</b>	<b>NWNW, Sec. 22, T9S, R17E (s) NENE, Sec. 21, T9S, R17E (b)</b>
<b>Well No:</b>	<b>Lone Tree Federal A-21-9-17</b>	<b>Lease No:</b>	<b>UTU-13905</b>
<b>API No:</b>	<b>43-013-34160</b>	<b>Agreement:</b>	<b>Lone Tree (GR) Unit</b>

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

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

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

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

**NOTIFICATION REQUIREMENTS**

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

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

- All new and replacement internal combustion gas field engines of less than or equal to 300 design-rated horsepower must not emit more than 2 gms of NO<sub>x</sub> per horsepower-hour. This requirement does not apply to gas field engines of less than or equal to 40 design-rated horsepower.
- All and replacement internal combustion gas field engines of greater than 300 design rated horsepower must not emit more than 1.0 gms of NO<sub>x</sub> per horsepower-hour.
- If there is an active Gilsonite mining operation within 2 miles of the well location, operator shall notify the Gilsonite operator at least 48 hours prior to any blasting during construction.
- If paleontological materials are uncovered during construction, the operator is to immediately stop work and contact the Authorized Officer (AO). A determination will be made by the AO as to what mitigation may be necessary for the discovered paleontologic material before construction can continue.
- Noxious and/or invasive weeds will be controlled along access roads, pipelines, well sites, and all other applicable facilities. Any noxious and/or invasive weeds outbreak, directly attributed to the activities of the Operator, will be the responsibility of the Operator to control. On BLM administered land, a Pesticide Use Proposal (PUP) must be submitted and approved prior to the application of herbicides, pesticides, or other possibly hazardous chemicals.
- Within 90 calendar days of the approval date for this Application for Permit to Drill (APD), the operator/lessee shall submit to the Authorized Officer (AO), on Sundry Notice Form 3160-5, an Interim/Final Surface Reclamation Plan for surface disturbance on well pads, access roads, and pipelines. At a minimum, this will include the reshaping of the pad to the original contour to the extent possible; the respreading of the top soil up to the rig anchor points; and, the area reseeded using appropriate reclamation methods. The AO will provide written approval or concurrence within 30 calendar days of receipt.

**Interim Reclamation:**

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

**Seed mix:**

Common name	Latin name	lbs/acre	Recommended seed planting depth
Forage Kochia	<i>Kochia prostrata</i>	0.20	¼"
Squirreltail grass	<i>Elymus elymoides</i>	3.0	¼ - ½"
Siberian wheatgrass	<i>Agropyron fragile</i>	1.0	½"
Shadscale saltbush	<i>Atriplex confertifolia</i>	0.50	½"
Four-wing saltbush	<i>Atriplex canescens</i>	0.50	½"
Gardner's saltbush	<i>Atriplex gardneri</i>	0.50	½"
Scarlet globemallow	<i>Sphaeralcea coccinea</i>	0.10	⅛ - ¼"

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

**Final reclamation:**

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, the well location, access, and any disturbed areas shall be recontoured to natural topography, topsoil shall be respread, and the entire location shall be seeded following guidelines in the seed mix bullet statement above. Final seed mix: same as interim unless otherwise instructed. If reclamation seeding should 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.

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

**SITE SPECIFIC DOWNHOLE COAs:**

- Newfield Production Co. shall adhere to all referenced requirements in the SOP (version: June 24, 2008) along with all Oil and Gas rules and requirements listed in the Code of Federal Regulations and all Federal Onshore Oil and Gas Orders.

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

**DRILLING/COMPLETION/PRODUCING OPERATING STANDARDS**

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

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

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

## OPERATING REQUIREMENT REMINDERS:

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

data obtained and compiled during the drilling, workover, and/or completion operations, shall be filed on BLM Form 3160-4. Submit with the well completion report a geologic report including, at a minimum, formation tops, and a summary and conclusions. Also include deviation surveys, sample descriptions, strip logs, core data, drill stem test data, and results of production tests if performed. Samples (cuttings, fluid, and/or gas) shall be submitted only when requested by the BLM, Vernal Field Office.

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

<b>STATE OF UTAH</b> DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING	<b>FORM 9</b>
<b>SUNDRY NOTICES AND REPORTS ON WELLS</b>  Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.	<b>5. LEASE DESIGNATION AND SERIAL NUMBER:</b> UTU-13905
	<b>6. IF INDIAN, ALLOTTEE OR TRIBE NAME:</b>
	<b>7. UNIT or CA AGREEMENT NAME:</b> GMBU (GRRV)
<b>1. TYPE OF WELL</b> Oil Well	<b>8. WELL NAME and NUMBER:</b> LONE TREE FED A-21-9-17
<b>2. NAME OF OPERATOR:</b> NEWFIELD PRODUCTION COMPANY	<b>9. API NUMBER:</b> 43013341600000
<b>3. ADDRESS OF OPERATOR:</b> Rt 3 Box 3630 , Myton, UT, 84052	<b>PHONE NUMBER:</b> 435 646-4825 Ext
<b>4. LOCATION OF WELL</b> <b>FOOTAGES AT SURFACE:</b> 0546 FNL 0697 FWL <b>QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:</b> Qtr/Qtr: NWNW Section: 22 Township: 09.0S Range: 17.0E Meridian: S	<b>9. FIELD and POOL or WILDCAT:</b> MONUMENT BUTTE
	<b>COUNTY:</b> DUCHESNE
	<b>STATE:</b> UTAH

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

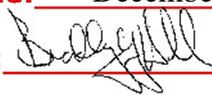
TYPE OF SUBMISSION	TYPE OF ACTION		
<input checked="" type="checkbox"/> <b>NOTICE OF INTENT</b> Approximate date work will start: 12/18/2009	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> CASING REPAIR
<input type="checkbox"/> <b>SUBSEQUENT REPORT</b> Date of Work Completion:	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> CHANGE WELL NAME
<input type="checkbox"/> <b>SPUD REPORT</b> Date of Spud:	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> CONVERT WELL TYPE
<input type="checkbox"/> <b>DRILLING REPORT</b> Report Date:	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> NEW CONSTRUCTION
	<input type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> PLUG BACK
	<input type="checkbox"/> PRODUCTION START OR RESUME	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION
	<input type="checkbox"/> REPERFORATE CURRENT FORMATION	<input type="checkbox"/> SIDETRACK TO REPAIR WELL	<input type="checkbox"/> TEMPORARY ABANDON
	<input type="checkbox"/> TUBING REPAIR	<input type="checkbox"/> VENT OR FLARE	<input type="checkbox"/> WATER DISPOSAL
	<input type="checkbox"/> WATER SHUTOFF	<input type="checkbox"/> SI TA STATUS EXTENSION	<input checked="" type="checkbox"/> APD EXTENSION
	<input type="checkbox"/> WILDCAT WELL DETERMINATION	<input type="checkbox"/> OTHER	OTHER:

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

Newfield requests to extend the permit to drill this well for one more year.

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

Date: December 21, 2009

By: 

<b>NAME (PLEASE PRINT)</b> Mandie Crozier	<b>PHONE NUMBER</b> 435 646-4825	<b>TITLE</b> Regulatory Tech
<b>SIGNATURE</b> N/A	<b>DATE</b> 12/17/2009	



The Utah Division of Oil, Gas, and Mining

- State of Utah
- Department of Natural Resources

Electronic Permitting System - Sundry Notices

Request for Permit Extension Validation Well Number 43013341600000

API: 43013341600000

Well Name: LONE TREE FED A-21-9-17

Location: 0546 FNL 0697 FWL QTR NWNW SEC 22 TWNP 090S RNG 170E MER S

Company Permit Issued to: NEWFIELD PRODUCTION COMPANY

Date Original Permit Issued: 12/22/2008

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

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

Approved by the Utah Division of Oil, Gas and Mining

Signature: Mandie Crozier

Date: 12/17/2009

Title: Regulatory Tech Representing: NEWFIELD PRODUCTION COMPANY

Date: December 21, 2009

By: [Handwritten Signature]

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

5. LEASE DESIGNATION AND SERIAL NUMBER: USA UTU-13905
6. IF INDIAN, ALLOTTEE OR TRIBE NAME:
7. UNIT or CA AGREEMENT NAME: GMBU
8. WELL NAME and NUMBER: LONE TREE FEDERAL A-21-9-17
9. API NUMBER: 4301334160
10. FIELD AND POOL, OR WILDCAT: GREATER MB UNIT

**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.

1. TYPE OF WELL: OIL WELL  GAS WELL  OTHER

2. NAME OF OPERATOR:  
NEWFIELD PRODUCTION COMPANY

3. ADDRESS OF OPERATOR: Route 3 Box 3630 CITY Myton STATE UT ZIP 84052 PHONE NUMBER 435.646.3721

4. LOCATION OF WELL:  
FOOTAGES AT SURFACE: 0.546 FNL 0697 FWL  
OTR/OTR. SECTION. TOWNSHIP. RANGE. MERIDIAN: 32, T9S, R17E NWNW

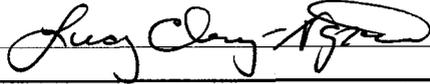
COUNTY: DUCHESNE  
STATE: UT

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

TYPE OF SUBMISSION	TYPE OF ACTION		
<input type="checkbox"/> NOTICE OF INTENT (Submit in Duplicate) Approximate date work will _____	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> REPERFORATE CURRENT FORMATION
	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> SIDETRACK TO REPAIR WELL
	<input type="checkbox"/> CASING REPAIR	<input type="checkbox"/> NEW CONSTRUCTION	<input type="checkbox"/> 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 checked="" type="checkbox"/> SUBSEQUENT REPORT (Submit Original Form Only) Date of Work Completion: 05/07/2010	<input type="checkbox"/> CHANGE WELL NAME	<input type="checkbox"/> PLUG BACK	<input type="checkbox"/> WATER DISPOSAL
	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> PRODUCTION (START/STOP)	<input type="checkbox"/> WATER SHUT-OFF
	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input checked="" type="checkbox"/> OTHER: - Weekly Status Report
	<input type="checkbox"/> CONVERT WELL TYPE	<input type="checkbox"/> RECOMPLETE - DIFFERENT FORMATION	

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.  
The above subject well was completed on 05-07-10, attached is a daily completion status report.

NAME (PLEASE PRINT) Lucy Chavez-Naupoto TITLE Administrative Assistant

SIGNATURE  DATE 05/13/2010

(This space for State use only)

**RECEIVED**  
**MAY 18 2010**  
DIV. OF OIL, GAS & MINING

## Daily Activity Report

Format For Sundry

**LONE TREE A-21-9-17**

**3/1/2010 To 7/30/2010**

**4/27/2010 Day: 1**

**Completion**

Rigless on 4/27/2010 - Run CBL & shoot first stage. - Install 5M frac head. NU 6" 5M Cameron BOP. RU H/O truck & pressure test casing, blind rams, frac head & casing valves to 4500 psi. RU Perforators LLC WLT w/ mast & run CBL under pressure. WLTD @ 5643' cement top @ 210'. Perforate CP.5/CP1/CP3 sds as shown in perforation report. 135 BWTR. SWIFN.

**Daily Cost:** \$0

**Cumulative Cost:** \$12,156

**5/4/2010 Day: 2**

**Completion**

Rigless on 5/4/2010 - Frac well. Flow well back. - Stage #2; RU Perforators LLC WLT, crane & lubricator. RIH w/ 5-1/2" Weatherford (6K) composite flow through frac plug & perf guns. Set plug @ 4920'. Perforate A1 sds @ 4818-20', 4811-14', 4796-4800', 4790-92' w/ 3-1/8" Port Guns (11 gram, .36"EH, 120°, 16.82"pen) w/ 3 spf for total of 33 shots. RU BJ & open well w/ 1420 psi on casing. Perfs broke down @ 1656 psi back to 1530 psi w/ 3 bbls @ 3 bpm. Pressure to low to shut down. Pump 30 gals of Techni Hib chemical. Frac w/ 55,000#'s of 20/40 sand in 491 bbls of Lightning 17 frac fluid. Treated @ ave pressure of 2322 w/ ave rate of 41 bpm w/ 8 ppg of sand. Spot 12 bbls of 15% HCL acid in flush for next stage. ISIP was 2109 w/ .88FG. 5 min was 1915. 10 min was 1787. 15 min was 1750. Leave pressure on well. 973 bbls EWTR. - Stage #4; RU WLT. RIH w/ frac plug & perf guns. Set plug @ 4465'. Perforate D2 sds @ 4439-42', 4424-28' w/ 3 spf for total of 42 shots. RU BJ & open well w/ 1463 psi on casing. Perfs broke down @ 1890 psi back to 1874 psi w/ 3 bbls @ 3 bpm. Pressure to low to shut down. Pump 30 gals of Techni Hib chemical. Frac w/ 32,015#'s of 20/40 sand in 356 bbls of Lightning 17 frac fluid. Treated @ ave pressure of 3027 w/ ave rate of 40 bpm w/ 8 ppg of sand. ISIP was 1908 w/ .87FG. 5 min was 1533. 10 min was 1439. 15 min was 1406. 1931 bbls EWTR. RD BJ & WLT. Flow well back. Well flowed for 5 hours & turned to oil w/ 600 bbls rec'd. SIFN w/ 1331 bbls EWTR. - Stage #3; RU WLT. RIH w/ frac plug & perf guns. Set plug @ 4720'. Perforate B1 sds @ 4619-22', B.5 sds @ 4603-06', 4593-96', C sds @ 4530-33', 4510-12' w/ 3 spf for total of 42 shots. RU BJ & open well w/ 1555 psi on casing. Perfs broke down @ 1848 psi back to 1829 psi w/ 3 bbls @ 3 bpm. Pressure to low to shut down. Pump 30 gals of Techni Hib chemical. Frac w/ 75,000#'s of 20/40 sand in 602 bbls of Lightning 17 frac fluid. Treated @ ave pressure of 2176 w/ ave rate of 40 bpm w/ 8 ppg of sand. Spot 12 bbls of 15% HCL acid in flush for next stage. ISIP was 1865 w/ .75FG. 5 min was 1800. 10 min was 1700. 15 min was 1643. Leave pressure on well. 1575 bbls EWTR - Stage #1; RU BJ Services "Ram Head" frac flange. RU BJ & open well w/ 0 psi on casing. Perfs broke down @ 3394 psi back to 1667 psi w/ 5 bbls @ 3 bpm. ISIP was 1266 w/ .68FG. 1 min was 1080. 4 min was 980. Pump 6 bbls 15% HCL acid (had a 275 psi drop when hit perfs). Pump 30 gals of Techni Hib chemical. Frac w/ 20,000#'s of 20/40 sand in 347 bbls of Lightning 17 frac fluid. Treated @ ave pressure of 2889 w/ ave rate of 40 bpm w/ 6 ppg of sand. Spot 12 bbls of 15% HCL acid in flush for next stage. ISIP was 1693 w/ .76FG. 5 min was 1617. 10 min was 1601. 15 min was 1554. Leave pressure on well. 482 bbls EWTR.

**Daily Cost:** \$0

**Cumulative Cost:** \$94,066

**5/5/2010 Day: 3**

**Completion**

WWS #3 on 5/5/2010 - Move rig on well. Pump water down casing. Set kill plug. - MIRUSU.

Open well w/ 600 psi on casing. Pump 20 bbls hot water down csg w/ hot oiler. RU Perforators LLC WLT & lubricator. RIH w/ Weatherford 5-1/2" composite solid (6K) plug & set @ 4370'. RD WLT. RD Cameron BOP's & frac head. Instal 3M production tbg head & Schefer BOP's. RU 4-3/4" Chomp mill & x-over sub. Talley, pickup & TIH w/ new 2-7/8", J-55, 6.5#, 8EUE tbg to tag plug @ 4370'. SIFN w/ 1331 bbls EWTR.

**Daily Cost:** \$0

**Cumulative Cost:** \$126,238

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**5/6/2010 Day: 4**

**Completion**

WWS #3 on 5/6/2010 - Drlg plugs & swab to C/O well. - Open well w/ 0 psi on casing. TIH w/ tbg to tag plug @ 4370'. RU swivel pump & tanks. Drlg out kill plug. TIH w/ tbg to tag plug @ 4465'. Drlg out plug #1. TIH w/ tbg to tag fill @ 4708', C/O to plug @ 4720'. Drlg out plug #2. TIH w/ tbg to tag sand @ 4890', C/O to plug @ 4920'. Drlg out plug #3. TIH w/ tbg to tag fill @ 5594'. C/O to PBTD @ 5683'. LD 2 jts tbg. RU swab equipment. Made 4 runs & well started to flowing, rec'd 140 bbls of fluid. Last test showed trace oil w/ no sand. Leave EOT @ 5662'. SIFN w/ 1200 bbls EWTR.

**Daily Cost:** \$0

**Cumulative Cost:** \$138,012

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**5/7/2010 Day: 5**

**Completion**

WWS #3 on 5/7/2010 - C/O to PBTD. TOOH w/ tbg. TIH w/ production. RDMOSU. Put well on pump. - Open well w/ 375 psi on casing. Pump 30 bbls water down tbg. TIH w/ tbg to tag 13' of new sand. C/O well to PBTD @ 5683'. TOOH w/ tbg. LD chomp mill & x-over sub. TIH w/ NC, 2 jts tbg, SN, 1 jt tbg, TA new Cntrl Hydrlic w/ 45,000# shear, 170 jts tbg. RD BOP's. Set TA @ 5347' w/ 18,000#'s tension w/ SN @ 5368' & EOT @ 5446'. Flush tbg w/ 60 bbls wter. Pickup & prime pump. TIH w/ 2-1/2" x 1-3/4" x 17' x 24' new Cntrl Hydrlic RHAC pump w/ 224"SL, 4- 1-1/2" weight rods, 211- 7/8" guided rods (8per), 4' x 7/8" pony rod, 1-1/2" x 30' polish rod. Space pump. Test tbg & pump to 800 psi w/ 1 bbl water. RDMOSU. POP @ 4PM w/ 5spm w/ 144"SL w/ 1200 bbls EWTR. Final Report. **Finalized**

**Daily Cost:** \$0

**Cumulative Cost:** \$190,243

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**Pertinent Files: Go to File List**

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

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

**WELL COMPLETION OR RECOMPLETION REPORT AND LOG**

5. Lease Serial No.  
UTU-13905

6. If Indian, Allottee or Tribe Name

7. Unit or CA Agreement Name and No.  
GMBU

8. Lease Name and Well No.  
LONE TREE FEDERAL A-21-9-17

9. AFI Well No.  
43-013-34160

10. Field and Pool or Exploratory  
MONUMENT BUTTE

11. Sec., T., R., M., on Block and  
Survey or Area  
SEC. 22, T9S, R17E

12. County or Parish  
DUCHESNE

13. State  
UT

14. Date Spudded  
04/09/2010

15. Date T.D. Reached  
04/20/2010

16. Date Completed  
05/07/2010  
 D & A  Ready to Prod.

17. Elevations (DF, RKB, RT, GL)\*  
5252' GL 5264' KB

18. Total Depth: MD 5735'  
TVD 5635'

19. Plug Back T.D.: MD 5683'  
TVD 5580'

20. Depth Bridge Plug Set: MD  
TVD

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

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

*BILL reviewed  
by HSM*

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

Hole Size	Size/Grade	Wt. (#/ft.)	Top (MD)	Bottom (MD)	Stage Cementer Depth	No. of Sks. & Type of Cement	Slurry Vol. (BBL)	Cement Top*	Amount Pulled
12-1/4"	8-5/8" J-55	24#	0	320'		160 CLASS G			
7-7/8"	5-1/2" J-55	15.5#	0	5730'		350 PRIMLITE		210'	
						400 50/50 POZ			

24. Tubing Record

Size	Depth Set (MD)	Packer Depth (MD)	Size	Depth Set (MD)	Packer Depth (MD)	Size	Depth Set (MD)	Packer Depth (MD)
2-7/8"	EOT@ 5446'	TA @ 5348'						

25. Producing Intervals

Formation	Top	Bottom	Perforated Interval	Size	No. Holes	Perf. Status
A) Green River			5206-5368' CP.5 CP1 CP3	.36"	3	27
B) Green River			4790-4820' A1	.36"	3	33
C) Green River			4510-4622' C B.5 B1	.36"	3	42
D) Green River			4424-4442' D2	.36"	3	21

26. Perforation Record

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

Depth Interval	Amount and Type of Material
5206-5368'	Frac w/ 20000#'s 20/40 sand in 123 bbls of Lightning 17 fluid.
4790-4820'	Frac w/ 55000#'s 20/40 sand in 248 bbls of Lightning 17 fluid.
4510-4622'	Frac w/ 75000#'s 20/40 sand in 328 bbls of Lightning 17 fluid.
4424-4442'	Frac w/ 32015#'s 20/40 sand in 158 bbls of Lightning 17 fluid.

28. Production - Interval A

Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
5-8-10	5-27-10	24	→	104	0	71			2-1/2" x 1-3/4" x 17' x 24' RHAC Pump
Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas/Oil Ratio	Well Status	PRODUCING
			→						

28a. Production - Interval B

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

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**JUN 14 2010**

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

28b. Production - Interval C

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

28c. Production - Interval D

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

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

USED FOR FUEL

30. Summary of Porous Zones (Include Aquifers):

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

31. Formation (Log) Markers

GEOLOGICAL MARKERS

Formation	Top	Bottom	Descriptions, Contents, etc.	Name	Top
					Meas. Depth
				GARDEN GULCH MRK GARDEN GULCH 1	3358' 3557'
				GARDEN GULCH 2 POINT 3	3669' 3918'
				X MRKR Y MRKR	4175' 4210'
				DOUGALS CREEK MRK BI CARBONATE MRK	4338' 4573'
				B LIMESTON MRK CASTLE PEAK	4692' 5171'
				BASAL CARBONATE	5612'

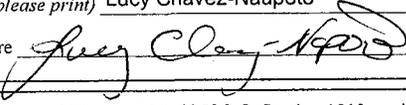
32. Additional remarks (include plugging procedure):

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

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

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

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

Signature  Date 06/07/2010

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

**NEWFIELD**



# **NEWFIELD EXPLORATION**

**USGS Myton SW (UT)  
SECTION 22 T9S R17E  
A-21-9-17**

**Wellbore #1**

**Design: Actual**

## **Standard Survey Report**

**17 May, 2010**

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

Company: NEWFIELD EXPLORATION  
 Project: USGS Myton SW (UT)  
 Site: SECTION 22 T9S R17E  
 Well: A-21-9-17  
 Wellbore: Wellbore #1  
 Design: Actual

Local Co-ordinate Reference: Well A-21-9-17  
 TVD Reference: A-21-9-17 @ 5264.0ft (Original Well Elev)  
 MD Reference: A-21-9-17 @ 5264.0ft (Original Well Elev)  
 North Reference: True  
 Survey Calculation Method: Minimum Curvature  
 Database: EDM 2003.21 Single User Db

Project: USGS Myton SW (UT), DUCHESNE COUNTY, UT, USA  
 Map System: US State Plane 1983 System Datum: Mean Sea Level  
 Geo Datum: North American Datum 1983  
 Map Zone: Utah Central Zone

Site: SECTION 22 T9S R17E, SEC 22 T9S R17E

Site Position: Northing: 7,178,000.00ft Latitude: 40° 0' 56.518 N  
 From: Lat/Long Easting: 2,062,600.00ft Longitude: 109° 59' 33.065 W  
 Position Uncertainty: 0.0 ft Slot Radius: " Grid Convergence: 0.97 °

Well: A-21-9-17, SHL LAT: 40 01 19.91, LONG: -109 59 58.86

Well Position: +N/-S 0.0 ft Northing: 7,180,332.77 ft Latitude: 40° 1' 19.910 N  
 +E/-W 0.0 ft Easting: 2,060,553.79 ft Longitude: 109° 59' 58.860 W  
 Position Uncertainty: 0.0 ft Wellhead Elevation: ft Ground Level: 0.0 ft

Wellbore: Wellbore #1

Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	2010/05/17	11.42	65.82	52,376

Design: Actual

Audit Notes:

Version: 1.0 Phase: ACTUAL Tie On Depth: 0.0

Vertical Section:	Depth From (TVD) (ft)	+N/-S (ft)	+E/-W (ft)	Direction (°)
	0.0	0.0	0.0	303.23

Survey Program: Date 2010/05/17

From (ft)	To (ft)	Survey (Wellbore)	Tool Name	Description
421.0	5,735.0	Survey #1 (Wellbore #1)	MWD	MWD - Standard

Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.00	0.00	0.00
421.0	0.90	125.10	421.0	-1.9	2.7	-3.3	0.21	0.21	0.00
452.0	0.80	131.00	452.0	-2.2	3.1	-3.8	0.43	-0.32	19.03
482.0	0.40	130.10	482.0	-2.4	3.3	-4.1	1.33	-1.33	-3.00
513.0	0.00	77.40	513.0	-2.5	3.4	-4.2	1.29	-1.29	0.00
540.0	0.20	345.30	540.0	-2.4	3.4	-4.1	0.74	0.74	0.00
575.0	0.40	319.60	575.0	-2.3	3.3	-4.0	0.68	0.57	-73.43
605.0	0.70	322.60	605.0	-2.0	3.1	-3.7	1.00	1.00	10.00
636.0	1.40	320.20	636.0	-1.6	2.7	-3.2	2.26	2.26	-7.74
667.0	1.70	320.30	667.0	-0.9	2.2	-2.4	0.97	0.97	0.32
697.0	2.40	320.40	696.9	-0.1	1.5	-1.3	2.33	2.33	0.33
728.0	3.00	316.50	727.9	1.0	0.6	0.1	2.02	1.94	-12.58
759.0	3.40	313.00	758.9	2.2	-0.7	1.8	1.44	1.29	-11.29



HATHAWAY BURNHAM

Survey Report



Company: NEWFIELD EXPLORATION  
 Project: USGS Myton SW (UT)  
 Site: SECTION 22 T9S R17E  
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 Wellbore: Wellbore #1  
 Design: Actual

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 MD Reference: A-21-9-17 @ 5264.0ft (Original Well Elev)  
 North Reference: True  
 Survey Calculation Method: Minimum Curvature  
 Database: EDM 2003.21 Single User Db

Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
789.0	3.90	315.60	788.8	3.5	-2.0	3.6	1.76	1.67	8.67
819.0	4.40	311.10	818.7	5.0	-3.6	5.8	1.99	1.67	-15.00
850.0	4.80	313.30	849.6	6.7	-5.5	8.2	1.41	1.29	7.10
881.0	5.20	315.30	880.5	8.6	-7.4	10.9	1.41	1.29	6.45
912.0	5.60	311.80	911.4	10.6	-9.5	13.7	1.67	1.29	-11.29
944.0	5.80	308.50	943.2	12.6	-11.9	16.9	1.20	0.63	-10.31
976.0	6.20	303.90	975.0	14.6	-14.6	20.2	1.95	1.25	-14.38
1,008.0	6.90	306.00	1,006.8	16.7	-17.6	23.9	2.31	2.19	6.56
1,039.0	7.40	307.10	1,037.6	19.0	-20.7	27.7	1.67	1.61	3.55
1,071.0	7.90	308.40	1,069.3	21.6	-24.1	32.0	1.65	1.56	4.06
1,103.0	8.20	308.10	1,101.0	24.4	-27.6	36.4	0.95	0.94	-0.94
1,134.0	8.60	307.40	1,131.6	27.1	-31.2	41.0	1.33	1.29	-2.26
1,166.0	9.10	307.00	1,163.3	30.1	-35.1	45.9	1.57	1.56	-1.25
1,198.0	9.50	306.30	1,194.8	33.2	-39.3	51.0	1.30	1.25	-2.19
1,229.0	9.70	305.10	1,225.4	36.2	-43.5	56.2	0.91	0.65	-3.87
1,261.0	9.80	303.80	1,256.9	39.3	-47.9	61.6	0.76	0.31	-4.06
1,293.0	9.80	301.10	1,288.5	42.2	-52.5	67.1	1.44	0.00	-8.44
1,325.0	9.90	299.20	1,320.0	44.9	-57.3	72.5	1.06	0.31	-5.94
1,356.0	9.80	298.30	1,350.6	47.5	-61.9	77.8	0.59	-0.32	-2.90
1,388.0	10.00	297.80	1,382.1	50.1	-66.8	83.3	0.68	0.63	-1.56
1,420.0	10.00	297.30	1,413.6	52.7	-71.7	88.8	0.27	0.00	-1.56
1,515.0	10.50	295.10	1,507.1	60.1	-86.9	105.6	0.67	0.53	-2.32
1,610.0	10.70	293.00	1,600.5	67.2	-102.8	122.8	0.46	0.21	-2.21
1,705.0	11.50	293.80	1,693.7	74.5	-119.6	140.9	0.86	0.84	0.84
1,800.0	12.50	289.30	1,786.6	81.7	-138.0	160.2	1.44	1.05	-4.74
1,895.0	11.90	290.70	1,879.5	88.6	-156.8	179.7	0.70	-0.63	1.47
1,990.0	12.90	296.10	1,972.2	96.7	-175.5	199.8	1.61	1.05	5.68
2,085.0	12.90	297.90	2,064.8	106.3	-194.4	220.9	0.42	0.00	1.89
2,180.0	12.50	301.40	2,157.5	116.7	-212.6	241.7	0.91	-0.42	3.68
2,275.0	11.70	303.60	2,250.4	127.3	-229.4	261.6	0.97	-0.84	2.32
2,370.0	12.70	306.80	2,343.3	138.9	-245.7	281.7	1.27	1.05	3.37
2,466.0	14.95	307.68	2,436.5	152.8	-264.0	304.6	2.35	2.34	0.92
2,561.0	14.37	308.59	2,528.4	167.7	-282.9	328.5	0.66	-0.61	0.96
2,656.0	14.08	304.54	2,620.5	181.6	-301.6	351.8	1.09	-0.31	-4.26
2,751.0	12.77	303.66	2,712.9	193.9	-319.9	373.9	1.40	-1.38	-0.93
2,846.0	12.96	305.73	2,805.5	206.0	-337.3	395.0	0.52	0.20	2.18
2,942.0	12.90	306.74	2,899.1	218.7	-354.6	416.5	0.24	-0.06	1.05
3,037.0	12.02	303.07	2,991.8	230.4	-371.4	436.9	1.25	-0.93	-3.86
3,132.0	12.50	304.52	3,084.7	241.6	-388.2	457.1	0.60	0.51	1.53
3,227.0	12.30	303.44	3,177.4	253.0	-405.1	477.5	0.32	-0.21	-1.14
3,322.0	11.65	303.62	3,270.4	263.9	-421.5	497.2	0.69	-0.68	0.19
3,417.0	11.91	305.55	3,363.4	274.9	-437.5	516.6	0.50	0.27	2.03
3,512.0	12.02	305.84	3,456.3	286.4	-453.5	536.3	0.13	0.12	0.31
3,607.0	12.24	307.42	3,549.2	298.3	-469.5	556.2	0.42	0.23	1.66
3,702.0	12.10	303.60	3,642.0	310.0	-485.8	576.2	0.86	-0.15	-4.02
3,797.0	11.90	302.00	3,735.0	320.7	-502.4	596.0	0.41	-0.21	-1.68
3,892.0	12.10	305.20	3,827.9	331.6	-518.8	615.7	0.73	0.21	3.37
3,987.0	11.60	302.80	3,920.9	342.5	-535.0	635.2	0.74	-0.53	-2.53
4,083.0	11.50	304.10	4,014.9	353.1	-551.0	654.4	0.29	-0.10	1.35
4,178.0	12.20	305.70	4,107.9	364.3	-567.0	673.9	0.81	0.74	1.68
4,273.0	12.40	307.00	4,200.7	376.3	-583.3	694.1	0.36	0.21	1.37
4,368.0	12.50	306.90	4,293.5	388.6	-599.7	714.6	0.11	0.11	-0.11
4,463.0	12.70	305.60	4,386.2	400.8	-616.4	735.3	0.37	0.21	-1.37
4,559.0	12.40	302.80	4,479.9	412.6	-633.6	756.1	0.71	-0.31	-2.92



Company: NEWFIELD EXPLORATION  
 Project: USGS Myton SW (UT)  
 Site: SECTION 22 T9S R17E  
 Well: A-21-9-17  
 Wellbore: Wellbore #1  
 Design: Actual

Local Co-ordinate Reference: Well A-21-9-17  
 TVD Reference: A-21-9-17 @ 5264.0ft (Original Well Elev)  
 MD Reference: A-21-9-17 @ 5264.0ft (Original Well Elev)  
 North Reference: True  
 Survey Calculation Method: Minimum Curvature  
 Database: EDM 2003.21 Single User Db

Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
4,654.0	12.90	305.10	4,572.6	424.2	-650.9	776.9	0.75	0.53	2.42
4,749.0	12.27	304.37	4,665.3	436.0	-667.9	797.6	0.68	-0.66	-0.77
4,844.0	12.41	307.14	4,758.1	447.8	-684.4	817.9	0.64	0.15	2.92
4,939.0	11.95	303.36	4,851.0	459.4	-700.7	837.9	0.97	-0.48	-3.98
5,034.0	13.78	314.37	4,943.6	472.7	-717.0	858.8	3.21	1.93	11.59
5,129.0	13.38	313.62	5,036.0	488.2	-733.1	880.8	0.46	-0.42	-0.79
5,224.0	11.89	302.30	5,128.7	501.0	-749.3	901.4	3.03	-1.57	-11.92
5,319.0	11.60	301.07	5,221.7	511.2	-765.8	920.7	0.40	-0.31	-1.29
5,414.0	11.23	300.74	5,314.8	520.9	-781.9	939.5	0.40	-0.39	-0.35
5,509.0	10.33	302.10	5,408.1	530.1	-797.1	957.2	0.98	-0.95	1.43
5,604.0	9.14	298.65	5,501.8	538.3	-810.9	973.3	1.39	-1.25	-3.63
5,684.0	7.45	294.77	5,580.9	543.5	-821.2	984.7	2.22	-2.11	-4.85
5,735.0	6.50	295.00	5,631.5	546.1	-826.8	990.9	1.86	-1.86	0.45

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



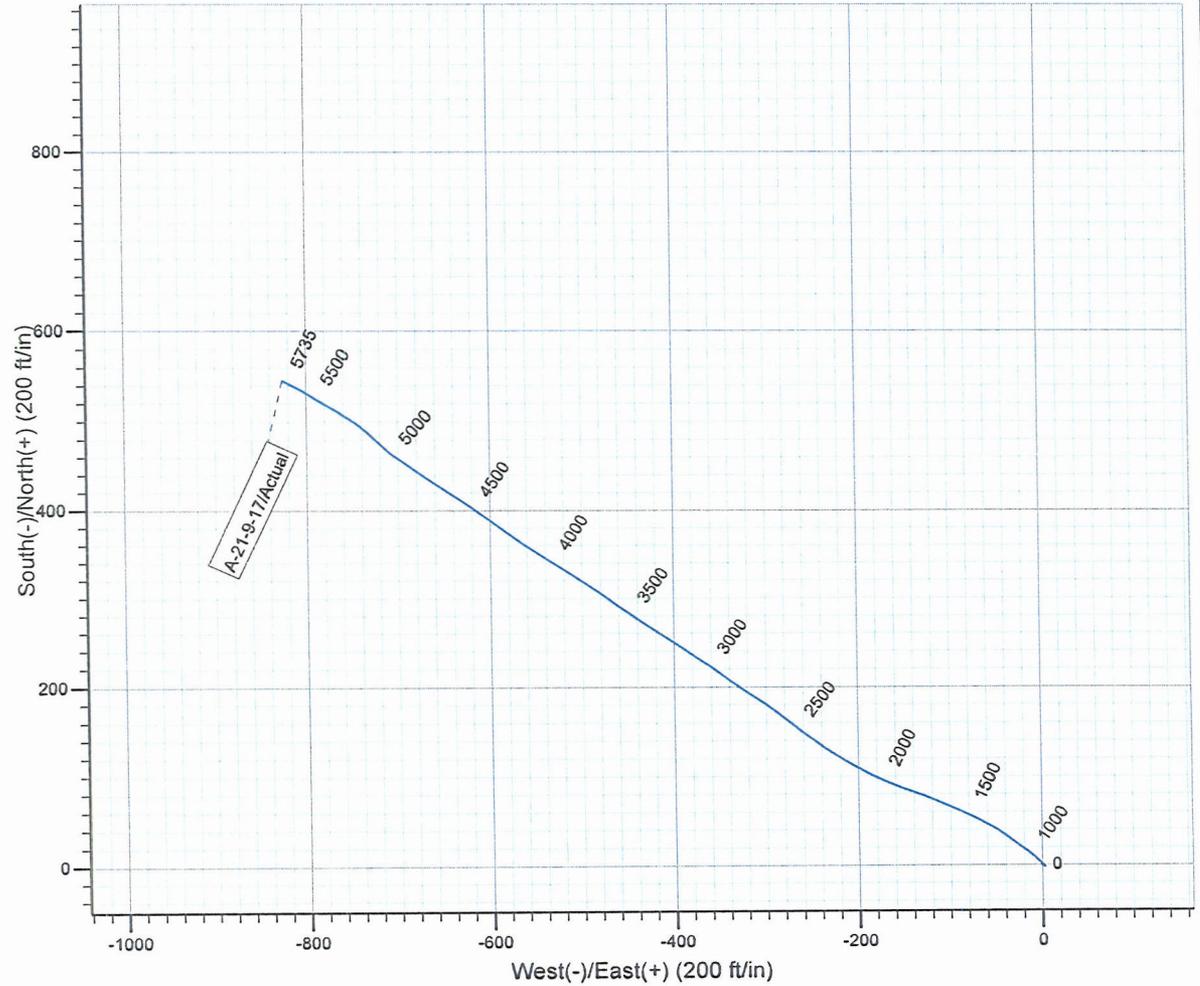
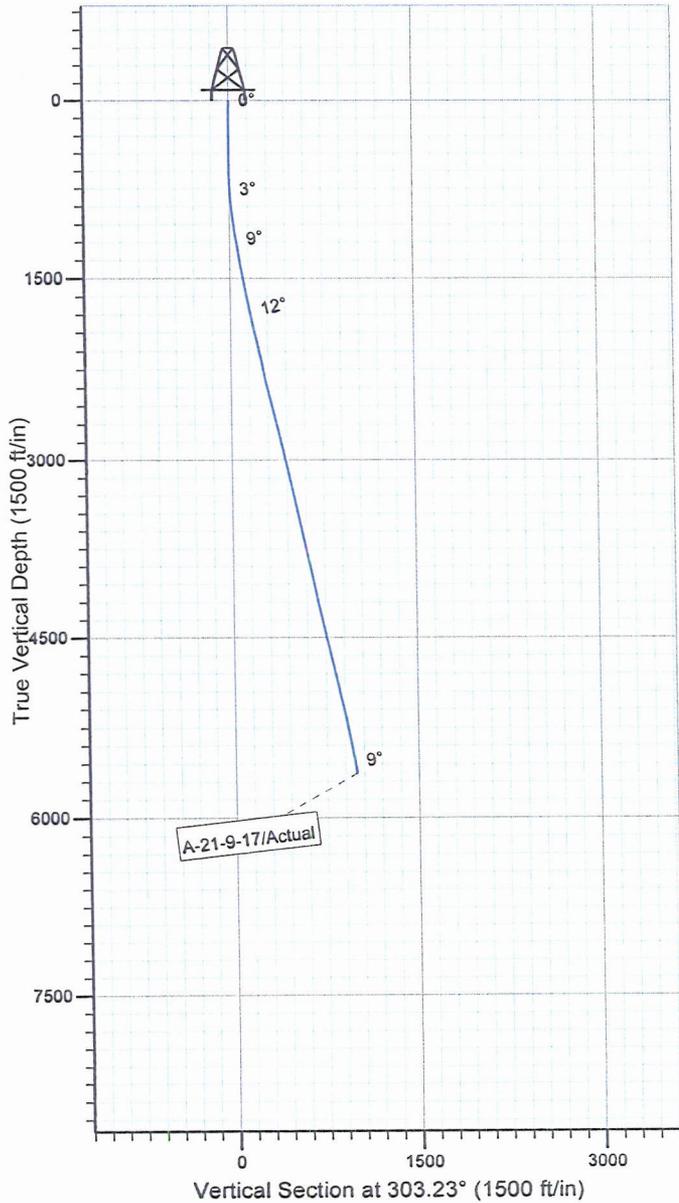
Project: USGS Myton SW (UT)  
 Site: SECTION 22 T9S R17E  
 Well: A-21-9-17  
 Wellbore: Wellbore #1  
 SURVEY: Actual

FINAL SURVEY REPORT



Azimuths to True North  
 Magnetic North: 11.42°

Magnetic Field  
 Strength: 52375.7snT  
 Dip Angle: 65.82°  
 Date: 2010/05/17  
 Model: IGRF2010



Design: Actual (A-21-9-17/Wellbore #1)

Created By: *Tom Hudson* Date: 16:49, May 17 2010  
 THIS SURVEY IS CORRECT TO THE BEST OF MY  
 KNOWLEDGE AND IS SUPPORTED BY ACTUAL FIELD DATA.

## Daily Activity Report

Format For Sundry

**LONE TREE A-21-9-17**

**2/1/2010 To 6/30/2010**

### **LONE TREE A-21-9-17**

**Waiting on Cement**

**Date:** 4/14/2010

Ross #21 at 320. Days Since Spud - 24 hrs Notice Sent To BLM & State . For Spud On 4/9/10 @ 9:00 PM With Ross Rig # 21. Drilled 320' Of - .25# Cello Flake, Mixed @ 15.8 ppg with 1.17 yield, Returned 5 bbls To Pit. - 12 1/4" Hole. Run 7 jts 8 5/8" Surface Casing, ( Shoe, Shoe JT, Baffle Plate, 6jts 8 5/8" Casing) Set @ - 319.82' KD. On 4/10/10 Cemented With BJ Services, Pumped 160 sks Class G + 2% Calcium Chloride +

**Daily Cost:** \$0

**Cumulative Cost:** \$49,243

### **LONE TREE A-21-9-17**

**Rigging Up**

**Date:** 4/17/2010

NDSI #2 at 320. 0 Days Since Spud - 24 Hr Notice Sent via E-Mail To BLM & State On 4/16/10 Of Rig Move. On 4/17/10 @ 7:00 AM & BOP Test - ON 4/17/10 @ 1:00 PM - Rig Down Repair For Move To The Lone Tree Federal A-21-9-17

**Daily Cost:** \$0

**Cumulative Cost:** \$54,619

### **LONE TREE A-21-9-17**

**Drill 7 7/8" hole with fresh water**

**Date:** 4/18/2010

NDSI #2 at 2421. 1 Days Since Spud - MIRU on the Lone Tree A-21-9-17 Set all Equipment - Test Pipe and blind rams, Kelly, choke, and safety valve to 2,000PSI for ten minutes - Test Surface Casing to 1,500 PSI for 30 Minutes all tested good - Pick up BHA as follows Smith MSI 7 7/8" PDC bit, 6.5" Hunting 7/8 4.8 stage .33 1.5 Degree Mud Motor - Drill 7 7/8" hole F/ 320' to 2421' W/ 25,000lbs WOB, 151TRPM, 395GPM, 161fph Avg ROP - No Flow or H2S recorded last 24hrs - 1X30.20' Monel, 1X4.52' Gap Sub, 1X2.58' Antenna Sub, 1X30.58' Monel, 26 HWDP 795.42'

**Daily Cost:** \$0

**Cumulative Cost:** \$85,243

### **LONE TREE A-21-9-17**

**Drill 7 7/8" hole with fresh water**

**Date:** 4/19/2010

NDSI #2 at 4768. 2 Days Since Spud - Rig Service, Function Test BOP and Crown- O -Matic, Grease Crown, Blocks, and Swivel - Drill 7 7/8" hole F/ 2421' to 3212' W/ 20,000lbs WOB, 151TRPM, 395GPM, 121fph Avg ROP - Drill 7 7/8" hole F/ 3214' to 4768' W/ 20,000lbs WOB, 151TRPM, 395GPM, 121fph Avg ROP

**Daily Cost:** \$0

**Cumulative Cost:** \$126,657

### **LONE TREE A-21-9-17**

**Running casing**

**Date:** 4/20/2010

NDSI #2 at 5735. 3 Days Since Spud - Rig Service, Function Test BOP and Crown- O -Matic, Grease Crown, Blocks, and Swivel - Drill 7 7/8" hole F/ 5433' to Drill 7 7/8" hole W/ 20,000lbs WOB, 151TRPM, 395GPM, 93fph Avg ROP - Circulate well F/ Logs - Laydown Drillpipe to 4,000' - Pump Brine Lost circulation, pumped down back side gain circulation - Laydown Drillpipe and BHA - Rig up PSI and Log Well - Rig up B&C Quick Test and Pressure Test 5 1/2" Casing Rams

for ten minutes - Rig up and run 131jts 5.5" J-55 15.5# LTC Set @ 5729'KB 7 Jts will be transferred to next well - R/U BJ hardlines and circulate well W/ Rig pump - Pump 350skts of lead cmt pumped @ 11ppg & 3.53 yield ( PL11 +3%KCL=5#CSE+0.5#CF+2#KOL - +.5SMS+FP+SF) Pumped tail cement @ 14.4ppg&1.24yield ( 50:50:2+3%KCL+0.5% EC1+.25#CF - +.5#SF+.3SMS+FP-6L ) Returned 35bbls to pit. - Nipple down set slips W/ 92,000lbs tension - Clean Mud Tank - Release Rig @ 3:00 PM 4/20/10 - Drill 7 7/8" hole F/ 4768' to 5433' W/ 20,000lbs WOB, 151TRPM, 395GPM,93fph Avg ROP - Release Rig @ 3:00 PM 4/20/10 - Clean Mud Tank - Nipple down set slips W/ 92,000lbs tension - +.5#SF+.3SMS+FP-6L ) Returned 35bbls to pit. - +.5SMS+FP+SF) Pumped tail cement @ 14.4ppg&1.24yield ( 50:50:2+3%KCL+0.5%EC1+.25#CF - Pump 350skts of lead cmt pumped @ 11ppg & 3.53 yield ( PL11 +3%KCL=5#CSE+0.5#CF+2#KOL - R/U BJ hardlines and circulate well W/ Rig pump - Rig up and run 131jts 5.5" J-55 15.5# LTC Set @ 5729'KB 7 Jts will be transferred to next well - Rig up B&C Quick Test and Pressure Test 5 1/2" Casing Rams for ten minutes - Rig up PSI and Log Well - Laydown Drillpipe and BHA - Pump Brine Lost circulation, pumped down back side gain circulation - Laydown Drillpipe to 4,000' - Circulate well F/ Logs - Drill 7 7/8" hole F/ 5433' to Drill 7 7/8" hole W/ 20,000lbs WOB, 151TRPM, 395GPM,93fph Avg ROP - Drill 7 7/8" hole F/ 4768' to 5433' W/ 20,000lbs WOB, 151TRPM, 395GPM,93fph Avg ROP - Rig Service, Function Test BOP and Crown- O -Matic, Grease Crown, Blocks, and Swivel **Finalized**

**Daily Cost:** \$0

**Cumulative Cost:** \$164,105

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**Pertinent Files: Go to File List**