

Form 3160-3  
(September 2001)

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

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

1a. Type of Work:  DRILL  REENTER  
1b. Type of Well:  Oil Well  Gas Well  Other  Single Zone  Multiple Zone

5. Lease Serial No.  
UTU-13905  
6. If Indian, Allottee or Tribe Name  
N/A  
7. If Unit or CA Agreement, Name and No.  
Lone Tree  
8. Lease Name and Well No.  
Lone Tree Federal 11-22-9-17  
9. API Well No.  
43-013-33 308

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

10. Field and Pool, or Exploratory  
Monument Butte  
11. Sec., T., R., M., or Bk. and Survey or Area  
NE/SW Sec. 22, T9S R17E

4. Location of Well (Report location clearly and in accordance with any State requirements.)\*  
At surface NE/SW 2055' FSL 1813' FWL 595782X 40.814965  
At proposed prod. zone 4429692Y 109.994867

12. County or Parish  
Duchesne  
13. State  
UT

14. Distance in miles and direction from nearest town or post office\*  
Approximately 17.7 miles southeast of Myton, Utah

15. Distance from proposed\* location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any) Approx. 2055' FSL, 2055' FWL  
16. No. of Acres in lease  
1200.00  
17. Spacing Unit dedicated to this well  
40 Acres

18. Distance from proposed location\* to nearest well, drilling, completed, applied for, on this lease, ft. Approx. 1402'  
19. Proposed Depth  
5625'

20. BLM/HIA Bond No. on file  
UTB000192

21. Elevations (Show whether D.F., K.D.F., RT., GL., etc.)  
5273' GL  
22. Approximate date work will start\*  
1st Quarter 2007  
23. Estimated duration  
Approximately 90 days (7) days from start to rig release

24. Attachments

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

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

24. Signature  
*Mandie Crozier*  
Title  
Regulatory Specialist

Name (Printed/Typed)  
Mandie Crozier  
Date  
9/7/06

Approved by  
*Bradley G. Hill*  
Title  
OFFICE ENVIRONMENTAL MANAGER

Name (Printed/Typed)  
BRADLEY G. HILL  
Date  
09-19-06

Application approval does not warrant or certify that the applicant holds legal or equitable title to these 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 in any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

\*(Instructions on reverse)

Federal Approval of this  
Action is Necessary

RECEIVED  
SEP 11 2006  
DIV. OF OIL, GAS & MINING



NEWFIELD PRODUCTION COMPANY  
LONE TREE FEDERAL #11-22-9-17  
NE/SW 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' – 1755'
Green River	1755'
Wasatch	5625'

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

Green River Formation 1755' – 5625' - 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 #11-22-9-17  
NE/SW 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 #11-22-9-17 located in the NE 1/4 SW 1/4 Section 22, T9S, R17E, Duchesne County, Utah:

Proceed southwesterly out of Myton, Utah along Highway 40 - 1.6 miles  $\pm$  to the junction of this highway and UT State Hwy 53; proceed southeasterly along Hwy 53 - 11.7 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 road to the south; proceed southeasterly - 2.6 miles  $\pm$  to it's junction with the beginning of an existing two track road to be up-graded; proceed southeasterly - 1610'  $\pm$  to it's junction with the beginning of the proposed access road to the northeast; proceed northeasterly along the proposed access road - 0.6 miles  $\pm$  to the proposed well location.

2. PLANNED ACCESS ROAD

See Topographic Map "B" for the location of the proposed access road.

3. LOCATION OF EXISTING WELLS

Refer to Exhibit "B".

4. LOCATION OF EXISTING AND/OR PROPOSED FACILITIES

All permanent surface equipment will be painted Carlsbad Canyon.  
Please refer to the Monument Butte Field Standard Operating Procedure (SOP).

5. LOCATION AND TYPE OF WATER SUPPLY

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

6. SOURCE OF CONSTRUCTION MATERIALS

Please refer to the Monument Butte Field SOP.

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

The Archaeological Resource Survey and Paleontological Resource Survey for this area are attached. MOAC Report #04-206, 6/15/05. Paleontological Resource Survey prepared by, Wade E. Miller, 6/29/05. See attached report cover pages, Exhibit "D".

For the Lone Tree Federal #11-22-9-17 Newfield Production Company requests a 470' ROW be granted in Lease UTU-79015, a 400' ROW be granted in Lease UTU-65320, and 3650' of disturbed area be granted in Lease UTU-13905 to allow for construction of the proposed access road. **Refer to Topographic Map "B"**. The proposed access road will be an 18' crown road (9' either side of the centerline) with drainage ditches along either side of the proposed road whether it is deemed necessary in order to handle any run-off from normal meteorological conditions that are prevalent to this area. The maximum grade will be less than 8%. There will be no culverts required along this access road. There will be barrow ditches and turnouts as needed along this road. There are no fences encountered along this proposed road. There will be no new gates or cattle guards required. All construction material for this access road will be borrowed material accumulated during construction of the access road.

Newfield Production Company requests a 470' ROW in Lease UTU-79015, a 400' ROW be granted in Lease UTU-65320, and 3650' of disturbed area be granted in Lease UTU-13905 to allow for construction of the proposed gas lines. It is proposed that the ROW and disturbed area will be 50' wide to allow for construction of a 6" gas gathering line, and a 3" poly fuel gas line. Both lines will tie in to the existing pipeline infrastructure. **Refer to Topographic Map "C."** For a ROW plan of development, please refer to the Monument Butte Field SOP.

Newfield Production Company requests a 470' ROW in Lease UTU-79015, a 400' ROW be granted in Lease UTU-65320, and 3650' of disturbed area be granted in Lease UTU-13905 to allow for construction of the proposed water lines. It is proposed that the ROW and disturbed area will be 50' wide to allow for construction of a buried 3" steel water injection line and a buried 3" poly water return line. **Refer to Topographic Map "C."** For a ROW plan of development, please refer to the Monument Butte Field SOP.

**Water Disposal**

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

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

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

None for the proposed Lone Tree Federal 11-22-9-17.

**Reserve Pit Liner**

A 12 mil liner with felt is required. Please refer to the Monument Butte Field SOP.

**Location and Reserve Pit Reclamation**

Please refer to the Monument Butte Field SOP.

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

Western Wheatgrass	<i>Pascopyrum Smithii</i>	6 lbs/acre
Galletta Grass	<i>Hilaria Jamesii</i>	6 lbs/acre

**Details of the On-Site Inspection**

The proposed Lone Tree Federal #11-22-9-17 was on-sited on 7/27/06. The following were present; Shon Mckinnon (Newfeild Production), Chris Carusona (Bureau of Land Management), and Brandon McDonald (Bureau of Landmanagement). Weather conditions were clear and ground cover was 100% open.

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

Representative

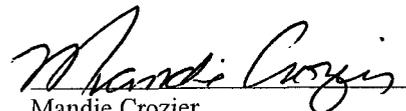
Name: Shon Mckinnon  
Address: Route #3 Box 3630  
Myton, UT 84052  
Telephone: (435) 646-3721

Certification

Please be advised that NEWFIELD PRODUCTION COMPANY is considered to be the operator of well #11-22-9-17 NE/SW 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 US Specialty Insurance #B001832.

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

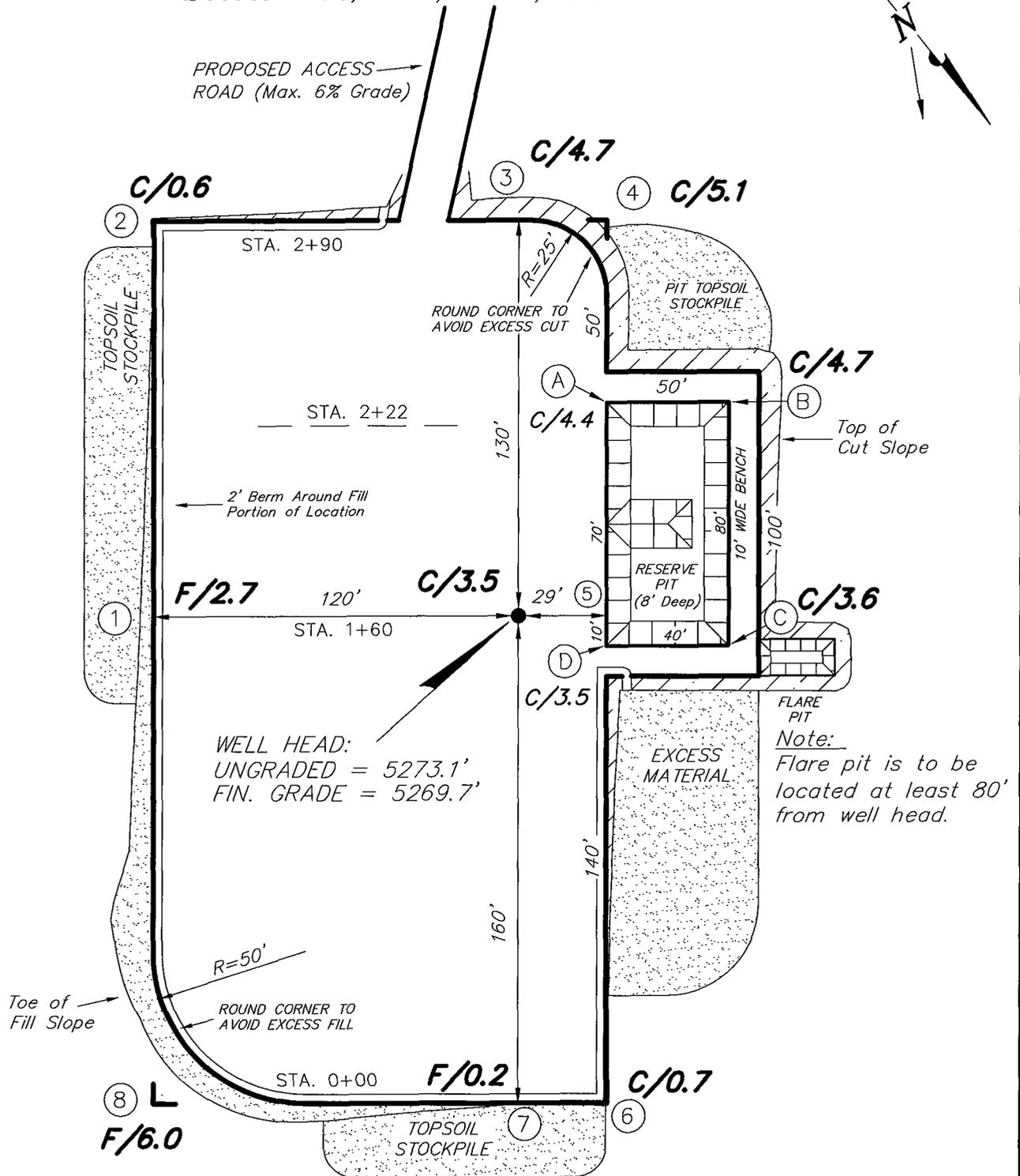
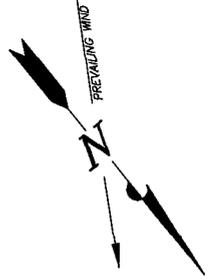
9/7/06  
\_\_\_\_\_  
Date

  
Mandie Crozier  
Regulatory Specialist  
Newfield Production Company

# NEWFIELD PRODUCTION COMPANY

LONE TREE 11-22-9-17

Section 22, T9S, R17E, S.L.B.&M.



### REFERENCE POINTS

- 210' NORTHEASTERLY = 5268.6'
- 260' NORTHEASTERLY = 5267.0'
- 170' SOUTHEASTERLY = 5263.9'
- 220' SOUTHEASTERLY = 5257.0'

SURVEYED BY: C.M.

SCALE: 1" = 50'

DRAWN BY: F.T.M.

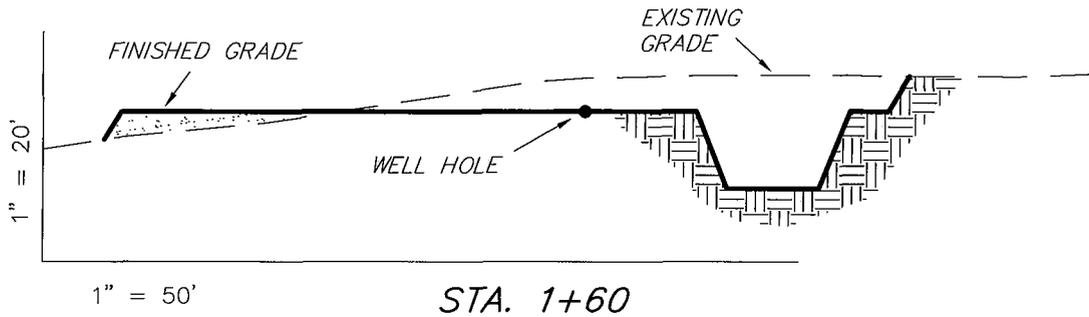
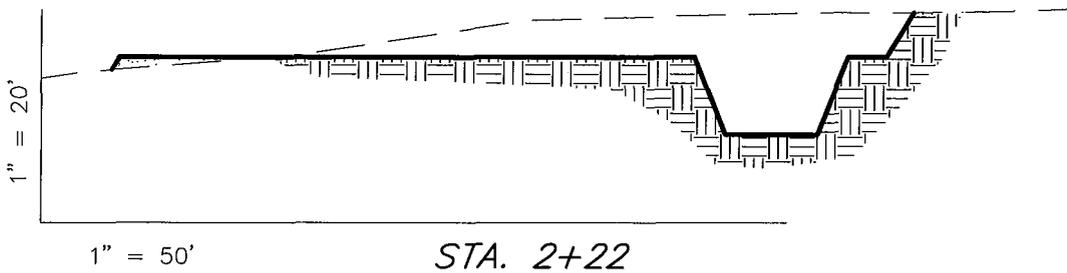
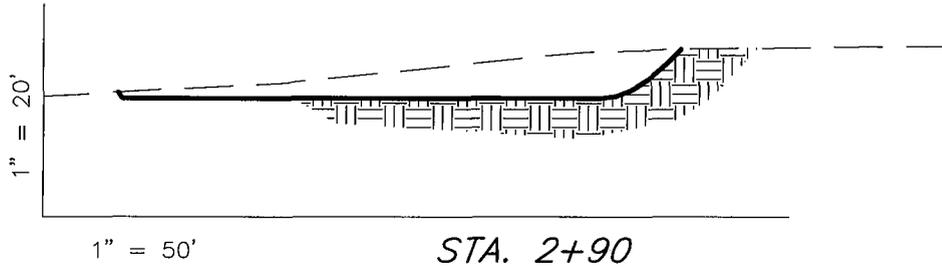
DATE: 06-23-06

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

# NEWFIELD PRODUCTION COMPANY

## CROSS SECTIONS

### LONE TREE 11-22-9-17



NOTE:  
UNLESS OTHERWISE NOTED  
ALL CUT/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	2,320	2,320	Topsoil is not included in Pad Cut	0
PIT	640	0		640
TOTALS	2,960	2,320	980	640

SURVEYED BY: C.M.

SCALE: 1" = 50'

DRAWN BY: F.T.M.

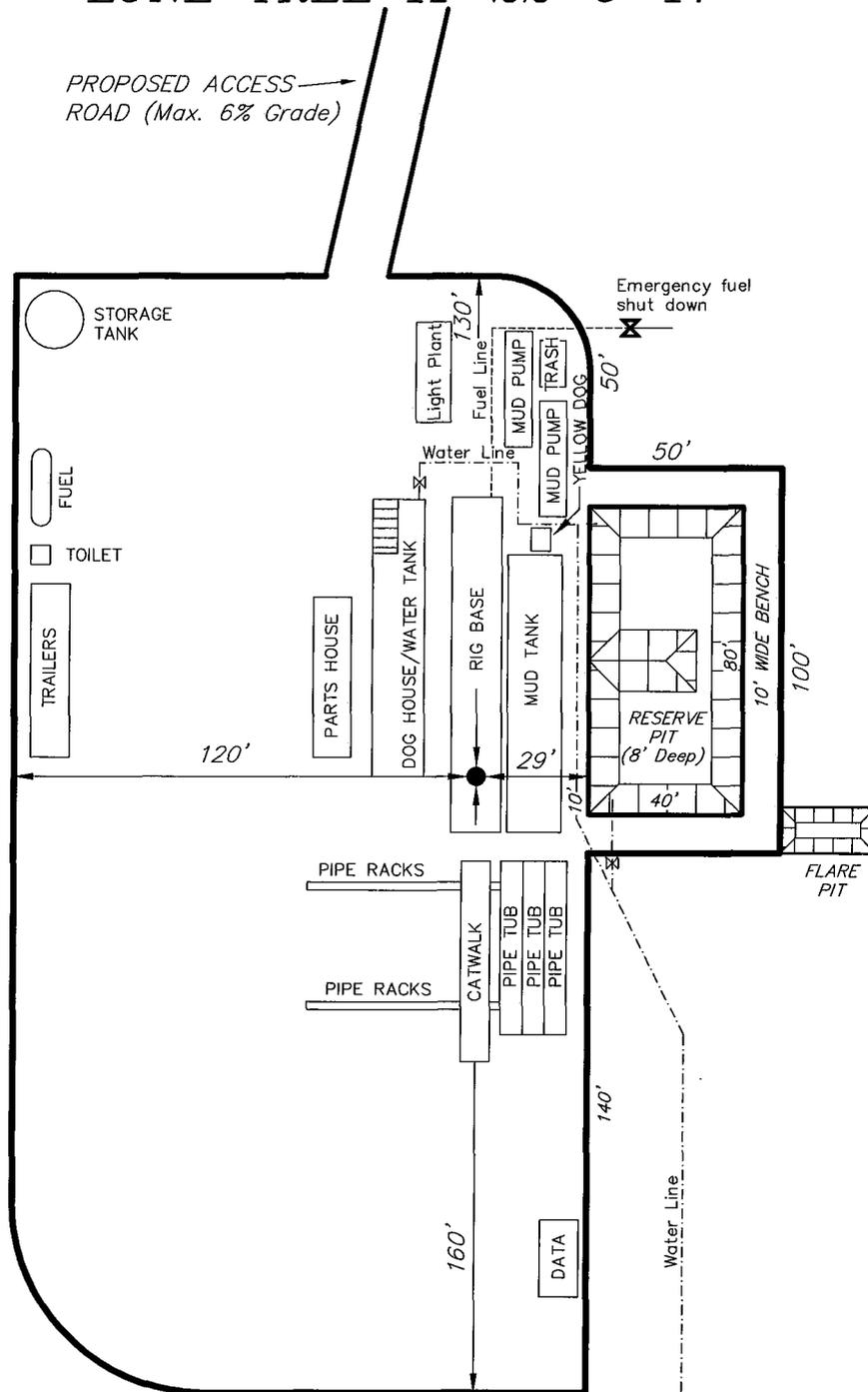
DATE: 06-23-06

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

# NEWFIELD PRODUCTION COMPANY

## TYPICAL RIG LAYOUT

### LONE TREE 11-22-9-17



SURVEYED BY: C.M.

SCALE: 1" = 50'

DRAWN BY: F.T.M.

DATE: 06-23-06

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

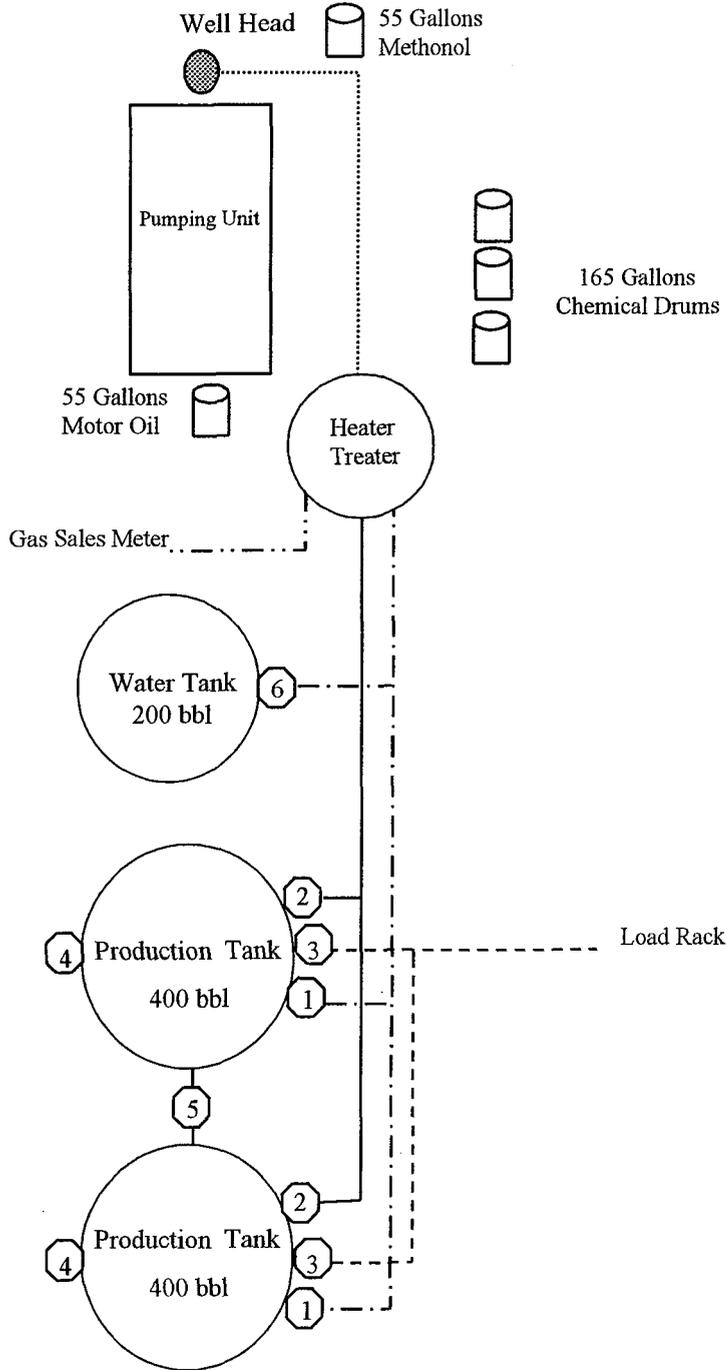
# Newfield Production Company Proposed Site Facility Diagram

Lone Tree Federal 11-22-9-17

NE/SW Sec. 22, T9S, 17E

Duchesne County, Utah

UTU-13905



### Legend

<b>Emulsion Line</b>	.....
<b>Load Rack</b>	- - - - -
<b>Water Line</b>	- . - . -
<b>Gas Sales</b>	- . - . -
<b>Oil Line</b>	—————

### Production Phase:

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

### Sales Phase:

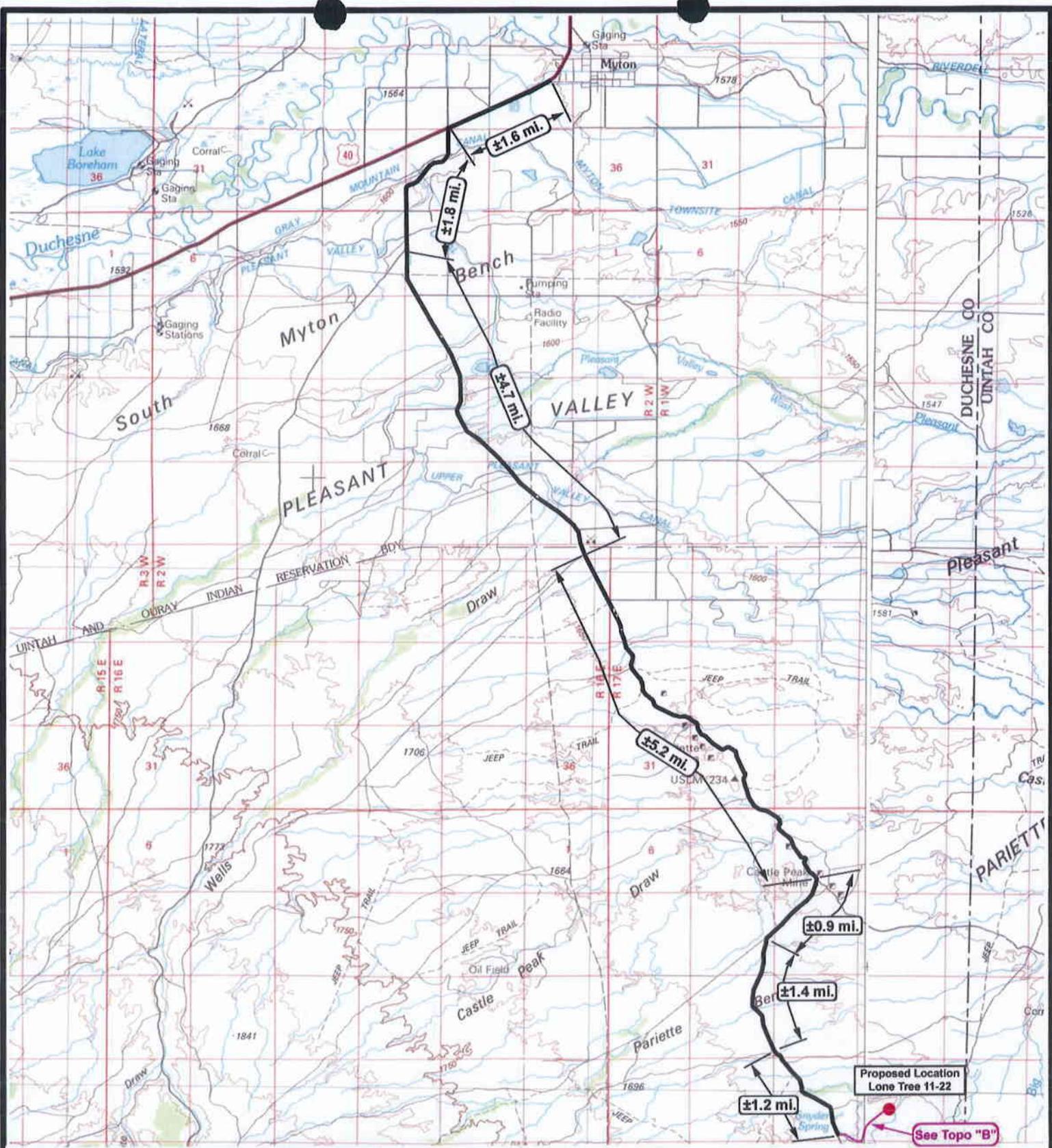
- 1) Valves 1, 2, 4, 5, and 6 sealed closed
- 2) Valve 3 open

### Draining Phase:

- 1) Valves 1 and 6 open

Diked Section





**NEWFIELD**  
Exploration Company

**Lone Tree 11-22-9-17**  
**SEC. 22, T9S, R17E, S.L.B.&M.**

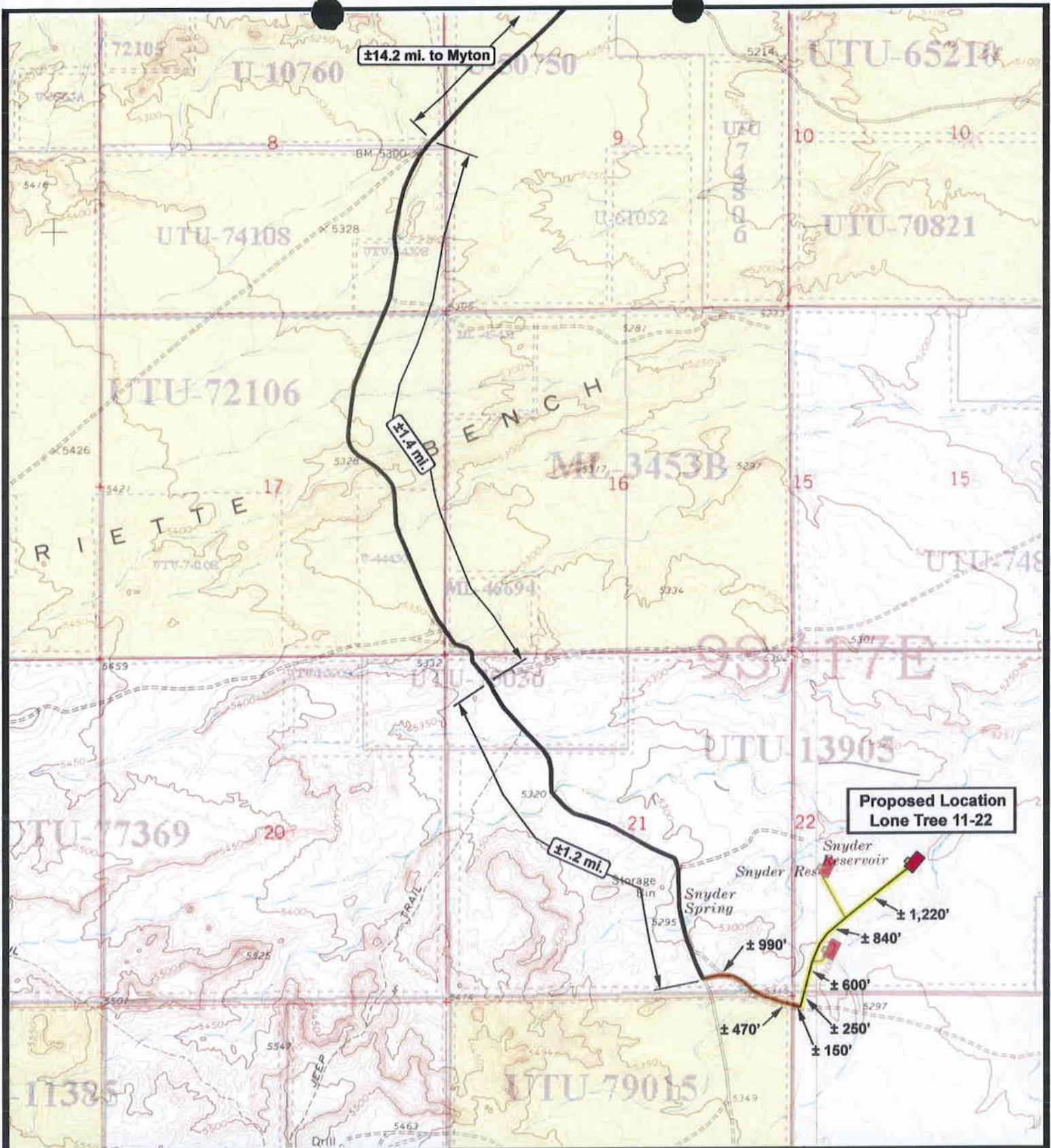
**Tri-State**  
Land Surveying Inc.  
(435) 781-2501  
180 North Vernal Ave. Vernal, Utah 84078

SCALE: 1 = 100,000  
DRAWN BY: mw  
DATE: 06-23-2006

**Legend**

- Existing Road
- Proposed Access

**TOPOGRAPHIC MAP**  
**"A"**



**NEWFIELD**  
Exploration Company

**Lone Tree 11-22-9-17**  
**SEC. 22, T9S, R17E, S.L.B.&M.**

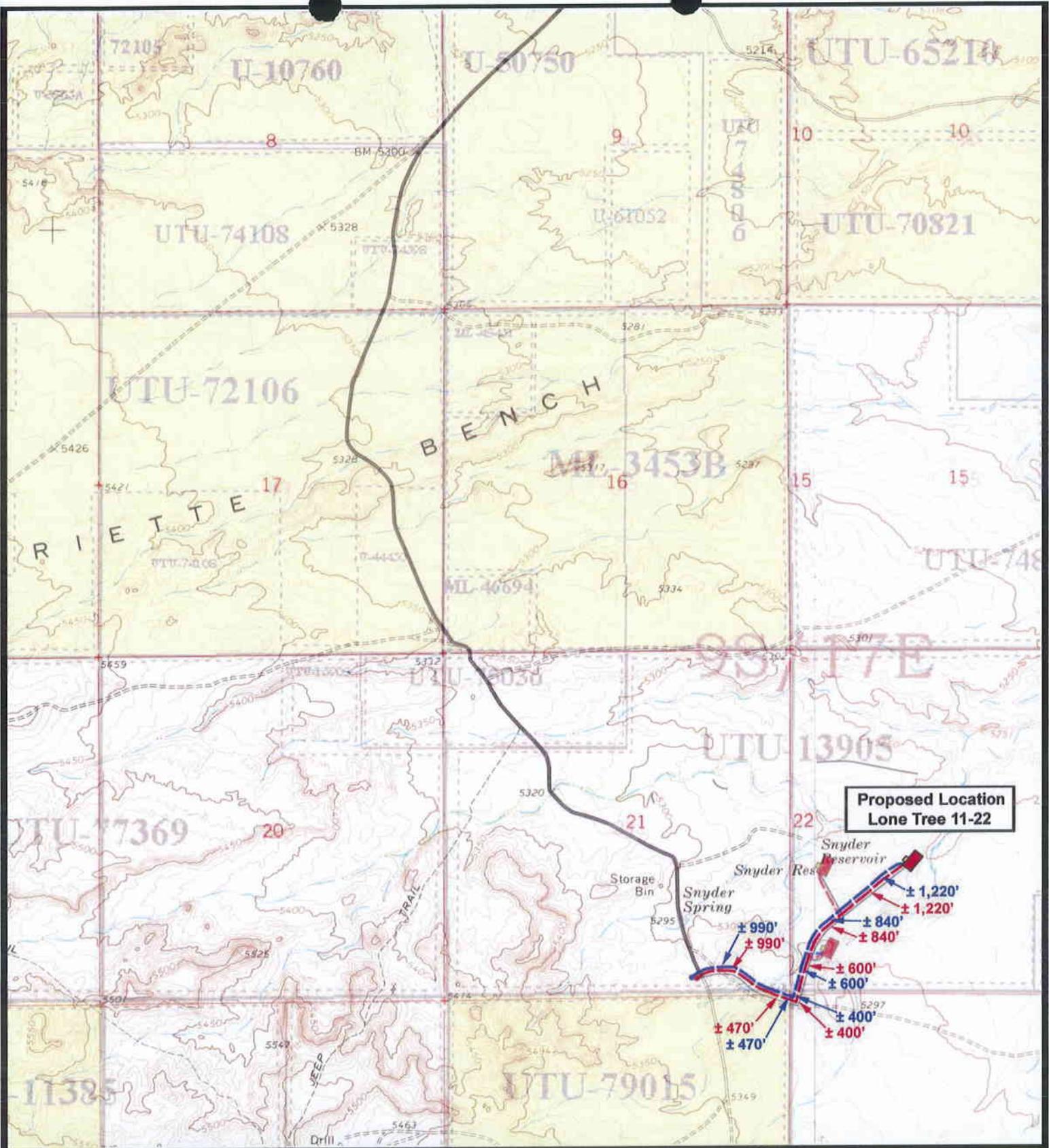


**Tri-State**  
Land Surveying Inc.  
(435) 781-2501  
180 North Vernal Ave. Vernal, Utah 84078

SCALE: 1" = 2,000'  
DRAWN BY: mw  
DATE: 06-23-2006

Legend	
	Existing Road
	Proposed Access
	Existing Two-Track

TOPOGRAPHIC MAP  
**"B"**



**Proposed Location  
Lone Tree 11-22**



**NEWFIELD**  
Exploration Company

**Lone Tree 11-22-9-17**  
**SEC. 22, T9S, R17E, S.L.B.&M.**

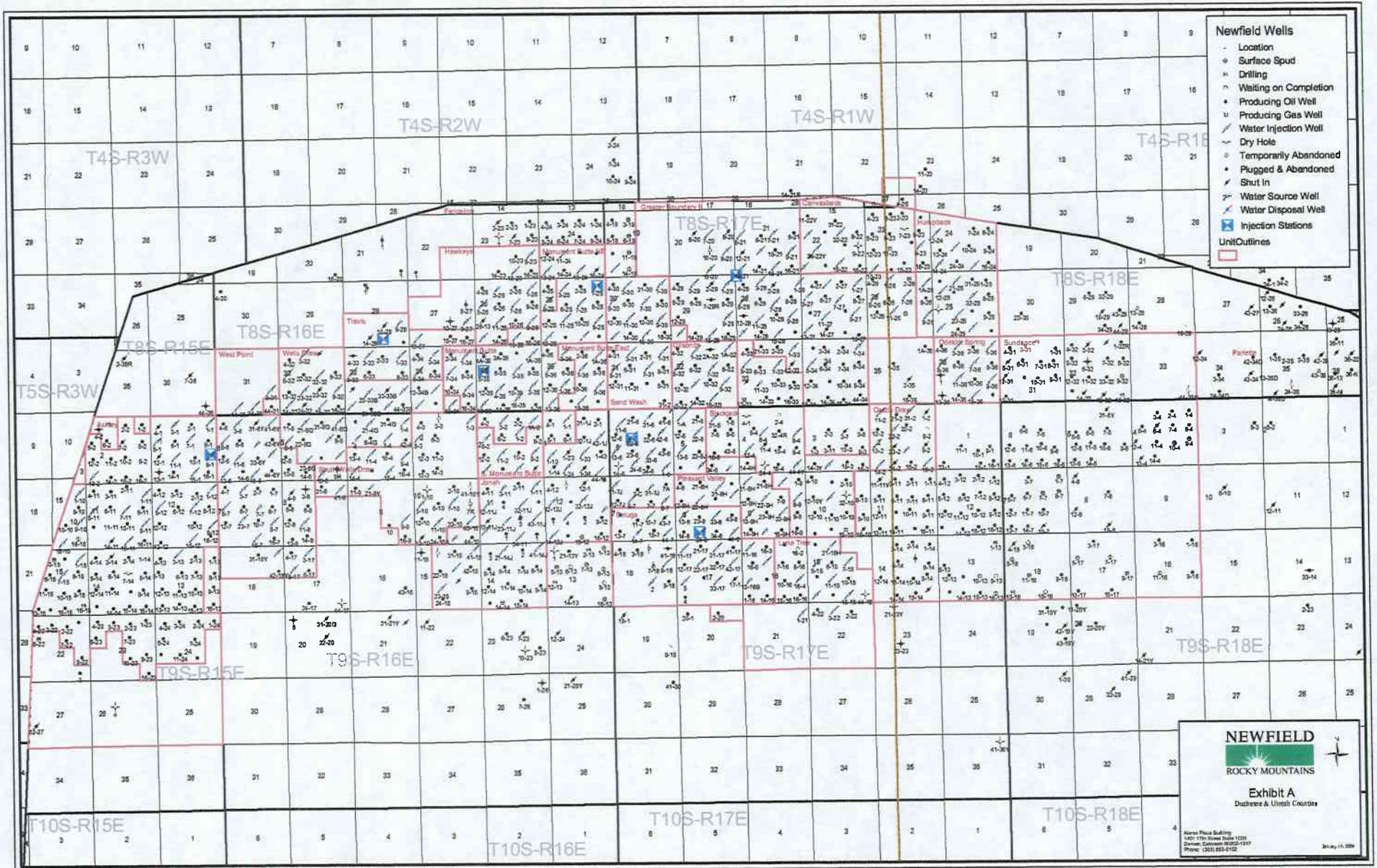


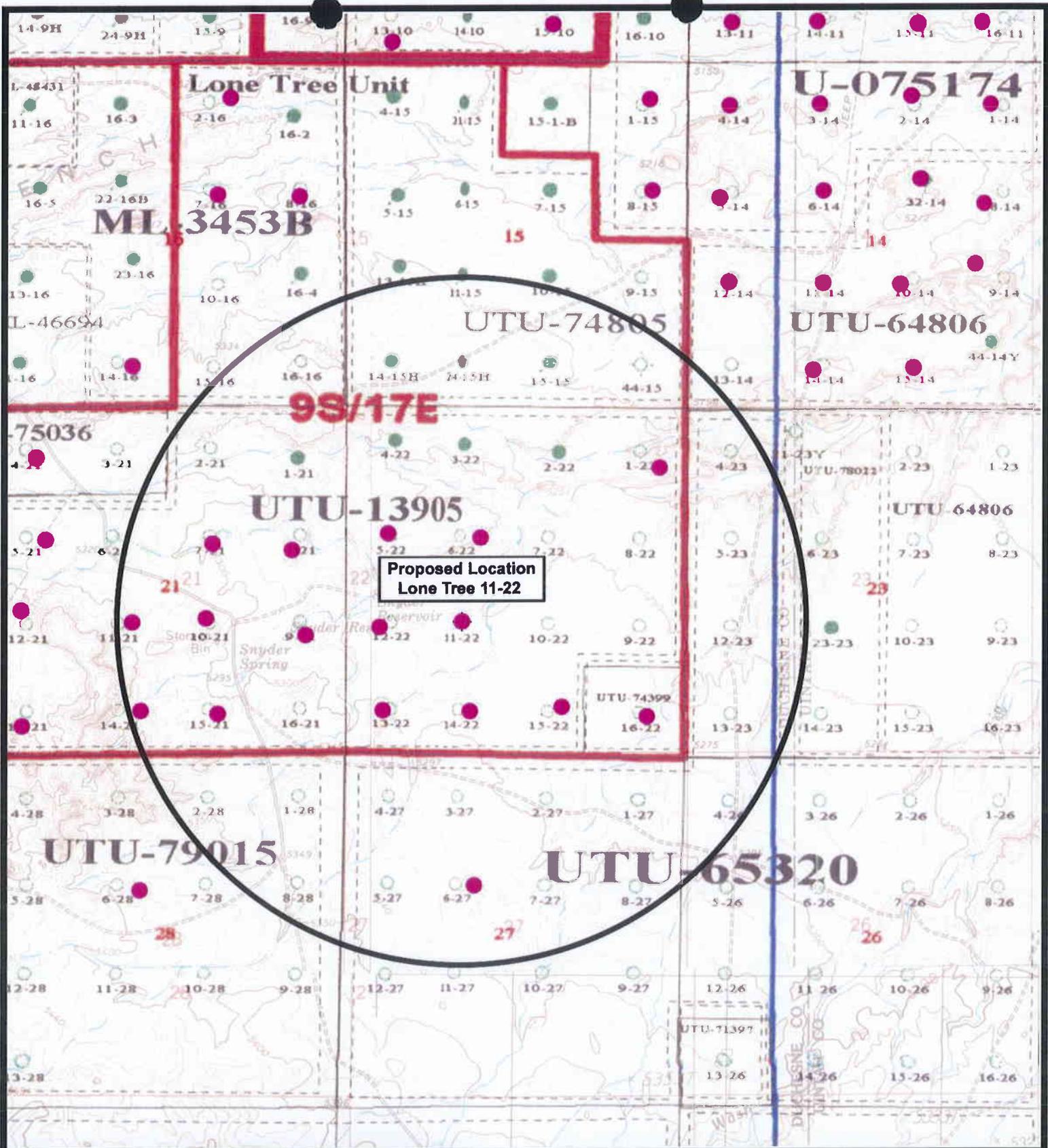
**Tri-State**  
Land Surveying Inc.  
(435) 781-2501  
180 North Vernal Ave. Vernal, Utah 84078

SCALE: 1" = 2,000'  
DRAWN BY: mw  
DATE: 06-23-2006

Legend	
	Roads
	Proposed Gas Line
	Proposed Water Line

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





**NEWFIELD**  
Exploration Company

**Lone Tree 11-22-9-17**  
**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: mww  
DATE: 06-23-2006

**Legend**

- Location
- One-Mile Radius

**Exhibit "B"**

# 2-M SYSTEM

Blowout Prevention Equipment Systems

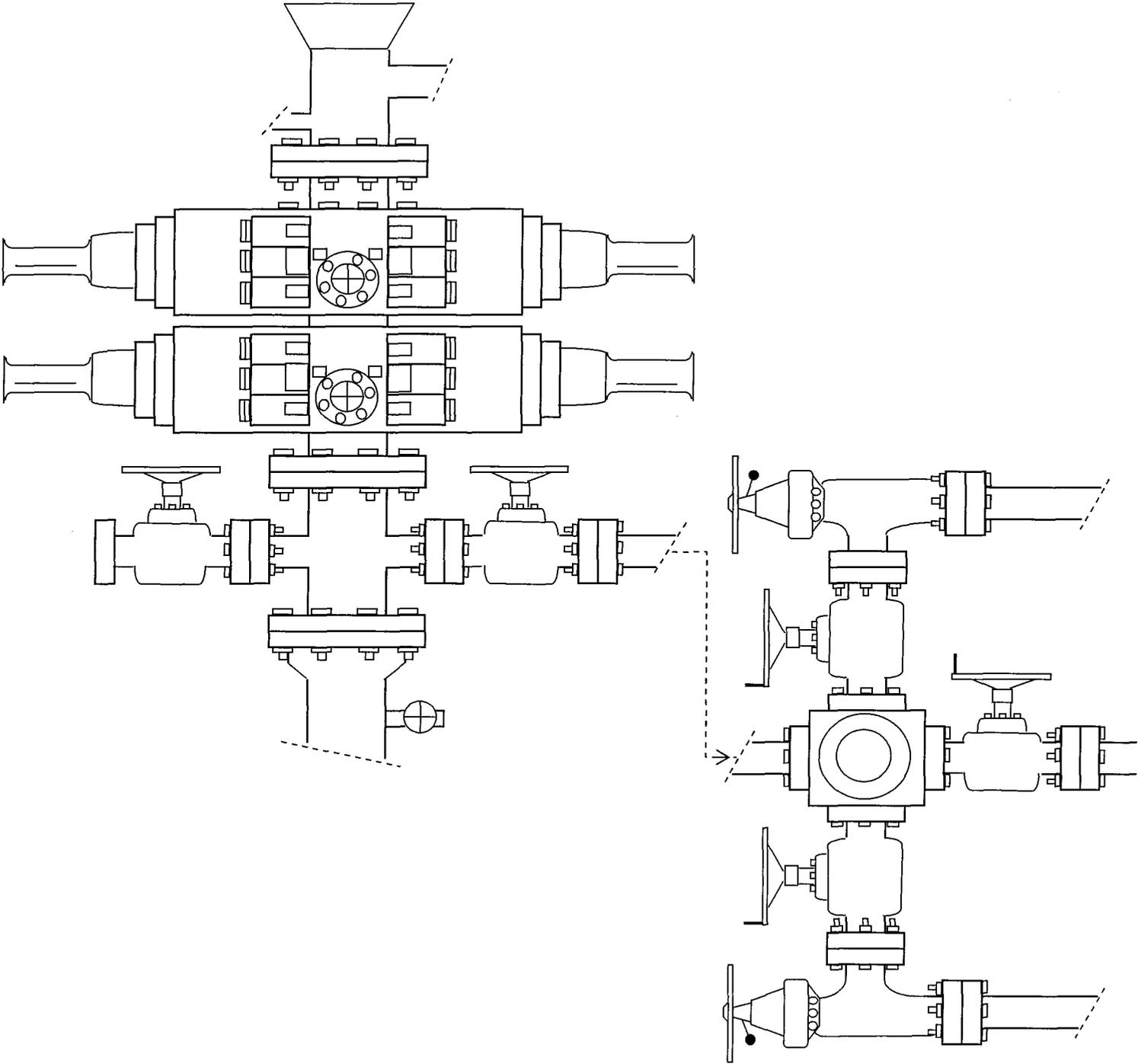


EXHIBIT C

Exhibit "D"  
1 of 2

**CULTURAL RESOURCE INVENTORY OF  
NEWFIELD EXPLORATION'S BLOCK PARCELS  
IN T9S, R17E, SEC. 19, 20, 21 & 22  
DUCHESNE COUNTY, UTAH**

**Katie Simon**

**Prepared For:**

**Bureau of Land Management  
Vernal Field Office**

**Prepared Under Contract With:**

**Newfield Exploration Company  
Route 3 Box 3630  
Myton, Utah 84052**

**Prepared By:**

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

**MOAC Report No. 04-206**

**June 15, 2005**

**United States Department of Interior (FLPMA)  
Permit No. 05-UT-60122**

**State of Utah Antiquities Project (Survey)  
Permit No. U-05-MQ-0516b**

250

**NEWFIELD PRODUCTION COMPANY**

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

Section 22, T 9 S, R 17 E [entire section excluding the NW 1/4, NE 1/4;  
NE 1/4 and NW 1/4, NW 1/4]; NE 1/4, Section 9, T 9 S, R 16 E;  
NE 1/4, NE 1/4, Section 10, T 9 S, R 17 E

**REPORT OF SURVEY**

Prepared for:

**Newfield Production Company**

Prepared by:

Wade E. Miller  
Consulting Paleontologist  
June 29, 2005

**WORKSHEET  
APPLICATION FOR PERMIT TO DRILL**

APD RECEIVED: 09/11/2006

API NO. ASSIGNED: 43-013-33308

WELL NAME: LONE TREE FED 11-22-9-17  
 OPERATOR: NEWFIELD PRODUCTION ( N2695 )  
 CONTACT: MANDIE CROZIER

PHONE NUMBER: 435-646-3721

PROPOSED LOCATION:

NESW 22 090S 170E  
 SURFACE: 2055 FSL 1813 FWL  
 BOTTOM: 2055 FSL 1813 FWL  
 COUNTY: DUCHESNE  
 LATITUDE: 40.01497 LONGITUDE: -109.9949  
 UTM SURF EASTINGS: 585782 NORTHINGS: 4429692  
 FIELD NAME: MONUMENT BUTTE ( 105 )

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

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

PROPOSED FORMATION: GRRV  
 COALBED METHANE WELL? NO

RECEIVED AND/OR REVIEWED:

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

LOCATION AND SITING:

- R649-2-3.
- Unit: LONE TREE (GREEN RIVER)
- R649-3-2. General  
Siting: 460 From Qtr/Qtr & 920' Between Wells
- R649-3-3. Exception
- Drilling Unit  
Board Cause No: 228.5  
Eff Date: 8-26-98  
Siting: Suspends General Siting
- R649-3-11. Directional Drill

COMMENTS: Sop, Separate file

STIPULATIONS: 1. Certain Approval

FEDERAL  
14-15H Δ

NGC 24-15H  
HED •

S PLEASANT Δ  
VALLEY 15-15-9-17

NGC  
44-15-H  
◇

T9S R17E

S PLEASANT  
VALLEY FED 4-22

S PLEASANT Δ  
VALLEY FED 3-22-9-17

S PLEASANT  
VALLEY FED  
2-22-9-17

LONE TREE  
FED 1-22-9-17

LONE TREE  
FED 5-22-9-17

LONE TREE  
FED 6-22-9-17

LONE TREE  
FED 7-22-9-17

LONE TREE  
FED 8-22-9-17

LONE TREE  
FED 12-22-9-17

NGC FEDERAL  
23-22-H  
LONE TREE  
FED 11-22-9-17

LONE TREE  
FED 10-22-9-17

LONE TREE  
FED 9-22-9-17

### MONUMENT BUTTE FIELD LONE TREE (GR) UNIT

CAUSE: 228-5 / 8-26-1998

LONE TREE  
FED 13-22-9-17

LONE TREE  
FED 14-22-9-17

LONE TREE  
FED 15-22-9-17

LONE TREE  
FED 16-22-9-17

22

OPERATOR: NEWFIELD PROD CO (N2695)

SEC: 22 T.9S R.17E

FIELD: MONUMENT BUTTE (105)

COUNTY: DUCHESNE

CAUSE: 228-5 / 8-26-1998

#### Field Status

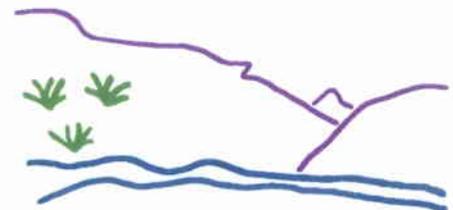
- ABANDONED
- ACTIVE
- COMBINED
- INACTIVE
- PROPOSED
- STORAGE
- TERMINATED

#### Unit Status

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

#### Wells Status

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



Utah Oil Gas and Mining



PREPARED BY: DIANA WHITNEY  
DATE: 15-SEPTEMBER-2006

# United States Department of the Interior

## BUREAU OF LAND MANAGEMENT

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

IN REPLY REFER TO:  
3160  
(UT-922)

September 19, 2006

### Memorandum

To: Assistant District Manager Minerals, Vernal District

From: Michael Coulthard, Petroleum Engineer

Subject: 2006 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 2006 within the Lone Tree Unit, Duchesne County, Utah.

API#	WELL NAME	LOCATION
(Proposed PZ Green River)		
43-013-33301	Lone Tree Fed 01-22-9-17	Sec 22 T09S R17E 0917 FNL 0436 FEL
43-013-33302	Lone Tree Fed 05-22-9-17	Sec 22 T09S R17E 1812 FNL 0705 FWL
43-013-33303	Lone Tree Fed 06-22-9-17	Sec 22 T09S R17E 1849 FNL 2078 FWL
43-013-33304	Lone Tree Fed 07-22-9-17	Sec 22 T09S R17E 2087 FNL 1813 FEL
43-013-33305	Lone Tree Fed 08-22-9-17	Sec 22 T09S R17E 1913 FNL 0789 FEL
43-013-33306	Lone Tree Fed 09-22-9-17	Sec 22 T09S R17E 1980 FSL 0660 FEL
43-013-33307	Lone Tree Fed 10-22-9-17	Sec 22 T09S R17E 1980 FSL 1980 FEL
43-013-33308	Lone Tree Fed 11-22-9-17	Sec 22 T09S R17E 2055 FSL 1813 FWL
43-013-33309	Lone Tree Fed 12-22-9-17	Sec 22 T09S R17E 1979 FSL 0487 FWL
43-013-33310	Lone Tree Fed 13-22-9-17	Sec 22 T09S R17E 0723 FSL 0556 FWL
43-013-33311	Lone Tree Fed 14-22-9-17	Sec 22 T09S R17E 0626 FSL 1982 FWL
43-013-33312	Lone Tree Fed 15-22-9-17	Sec 22 T09S R17E 0766 FSL 1982 FEL
43-013-33313	Lone Tree Fed 16-22-9-17	Sec 22 T09S R17E 0627 FSL 0764 FEL

Our records indicate the Lone Tree Fed 01-22-9-17 is closer than 460 feet from the Lone Tree Unit boundary.

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



**State of Utah**

**Department of  
Natural Resources**

MICHAEL R. STYLER  
*Executive Director*

**Division of  
Oil, Gas & Mining**

JOHN R. BAZA  
*Division Director*

JON M. HUNTSMAN, JR.  
*Governor*

GARY R. HERBERT  
*Lieutenant Governor*

September 19, 2006

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

Re: Lone Tree Federal 11-22-9-17 Well, 2055' FSL, 1813' FWL, NE SW, Sec. 22,  
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 43-013-33308.

Sincerely,

Gil Hunt  
Associate Director

pab  
Enclosures

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

Operator: Newfield Production Company  
Well Name & Number Lone Tree Federal 11-22-9-17  
API Number: 43-013-33308  
Lease: UTU-13905

Location: NE SW                      Sec. 22                      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 Dan Jarvis at (801) 538-5338

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.

RECEIVED

Sept 8 2006  
~~DEC 13 2006~~

Form 3160-3  
(September 2001)

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

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT  
**BLM VERNAL, UTAH**

**APPLICATION FOR PERMIT TO DRILL OR REENTER**

1a. Type of Work: <input checked="" type="checkbox"/> DRILL <input type="checkbox"/> REENTER		5. Lease Serial No. UTU-13905
1b. Type of Well: <input checked="" type="checkbox"/> Oil Well <input type="checkbox"/> Gas Well <input type="checkbox"/> Other <input checked="" type="checkbox"/> Single Zone <input type="checkbox"/> Multiple Zone		6. If Indian, Allottee or Tribe Name N/A
2. Name of Operator Newfield Production Company		7. If Unit or CA Agreement, Name and No. Lone Tree
3a. Address Route #3 Box 3630, Myton UT 84052	3b. Phone No. (include area code) (435) 646-3721	8. Lease Name and Well No. Lone Tree Federal 11-22-9-17
4. Location of Well (Report location clearly and in accordance with any State requirements. *) At surface NE/SW 2055' FSL 1813' FWL At proposed prod. zone		9. API Well No. 43-013-33308
14. Distance in miles and direction from nearest town or post office* Approximatley 17.7 miles southeast of Myton, Utah		10. Field and Pool, or Exploratory Monument Butte
15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any) Approx. 2055' f/ise, 2055' f/unit	16. No. of Acres in lease 1200.00	11. Sec., T., R., M., or Blk. and Survey or Area NE/SW Sec. 22, T9S R17E
17. Spacing Unit dedicated to this well 40 Acres	18. Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft. Approx. 1402'	12. County or Parish Duchesne
19. Proposed Depth 5625'	20. BLM/BIA Bond No. on file UTB000192	13. State UT
21. Elevations (Show whether DF, KDB, RT, GL, etc.) 5273' GL	22. Approximate date work will start* 1st Quarter 2007	23. Estimated duration Approximately seven (7) days from spud to rig release.

**24. Attachments**

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

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

25. Signature <i>Mandie Crozier</i>	Name (Printed/Typed) Mandie Crozier	Date 9/7/06
Title Regulatory Specialist		

Approved by (Signature) <i>Jerry Kenzler</i>	Name (Printed/Typed) JERRY KENZLER	Date 5-18-2007
Title Assistant Field Manager Lands & Mineral Resources	Office VERNAL FIELD OFFICE	

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

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

\*(Instructions on reverse)

**NOTICE OF APPROVAL  
RECEIVED**

MAY 24 2007

DIV. OF OIL, GAS & MINING

**UDOGM**

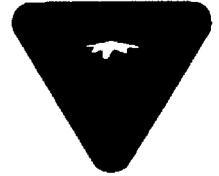


**UNITED STATES DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT  
VERNAL FIELD OFFICE**

170 South 500 East

VERNAL, UT 84078

(435) 781-4400



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

**Company:** Newfield Production Company  
**Well No:** Lone Tree Federal 11-22-9-17  
**API No:** 43-013-33308

**Location:** NESW, Sec. 22, T9S, R17E  
**Lease No:** UTU-13905  
**Agreement:** Lone Tree Unit

Title	Name	Office Phone Number	Cell Phone Number
Petroleum Engineer:	Matt Baker	(435) 781-4490	(435) 828-4470
Petroleum Engineer:	Michael Lee	(435) 781-4432	(435) 828-7875
Petroleum Engineer:	James Ashley	(435) 781-4470	(435) 828-7874
Petroleum Engineer:	Ryan Angus	(435) 781-4430	(435) 828-7368
Supervisory Petroleum Technician:	Jamie Sparger	(435) 781-4502	(435) 828-3913
NRS/Enviro Scientist:	Paul Buhler	(435) 781-4475	(435) 828-4029
NRS/Enviro Scientist:	Karl Wright	(435) 781-4484	
NRS/Enviro Scientist:	Holly Villa	(435) 781-4404	
NRS/Enviro Scientist:	Vacant	(435) 781-4476	(435) 828-7381
NRS/Enviro Scientist:	Chuck Macdonald	(435) 781-4441	(435) 828-7481
NRS/Enviro Scientist:	Jannice Cutler	(435) 781-3400	
NRS/Enviro Scientist:	Michael Cutler	(435) 781-3401	
NRS/Enviro Scientist:	Anna Figueroa	(435) 781-3407	
NRS/Enviro Scientist:	Verlyn Pindell	(435) 781-3402	
NRS/Enviro Scientist:	Darren Williams	(435) 781-4447	
NRS/Enviro Scientist:	Nathan Packer	(435) 781-3405	

Fax: (435) 781-4410

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

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

**NOTIFICATION REQUIREMENTS**

Location Construction (Notify 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)**

**Surface COAs:**

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

**STIPULATIONS AND NOTICES:**

- Adhere to Executive Order 5327 of April 15, 1930, stipulations for lands in oil shale withdrawal.
- Wildlife stipulations:  
There is a newly discovered Ferruginous hawk nest in a tree (Lone Tree) approximately 0.25 miles east of the location and is in line-of-site. **With this occurrence there will be a time restriction to protect Ferruginous hawk nesting from March 1 – July 15.** Because the nest has been inactive for two or more years, construction and drilling may begin outside the timing restriction. Should the hawk rebuild the nest and is then active again then the operator will stop construction and notify a BLM biologist.

**Lease Notices from Resource Management Plan:**

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

**Comments:**

If it is anticipated that construction or drilling will occur during the given timing restrictions for any wildlife, a BLM or qualified biologist should be notified so surveys can be conducted. Depending upon the results of the survey, permission to proceed may or may not be recommended or granted (depending on the species being surveyed and the condition of the habitat).

**CONDITIONS OF APPROVAL:**

- ROW (Right of Way):  
Access roads will be Crowned (2 to 3%), ditched, and constructed with a running surface of 18 feet and a maximum disturbed width of 30 feet during construction. The estimated time required for construction will be 15 days.  
Construction of gas pipelines. The disturbed area will be 50 feet wide to allow for construction and 30 feet wide for operations. The gas pipelines will be a surface 6" gas gathering line, and a surface 3" poly fuel gas line. Both lines will tie in to the existing pipeline infrastructure. The estimated time required for construction will be 15 days.  
Construction of water pipelines. Water pipelines will be buried 4 to 5 feet deep to avoid freezing. The disturbed area will be 50 feet wide to allow for construction and 30 feet wide for

operations. Buried water pipelines will be 3" steel water injection line and a 3" poly water return line. The estimated time required for construction will be 15 days.

- All applicable local, state, and/or federal laws, regulations, and/or statutes will be complied with.
- All traffic related to this action will be restricted to approved routes. Cross-country vehicle travel will not be allowed.
- No vehicle travel, construction or routine maintenance activities shall be performed during periods when the soil is too wet to adequately support vehicles and/or construction equipment. If such equipment creates ruts in excess of four inches deep, the soil shall be deemed too wet to adequately support construction equipment.
- The access road will be crowned and ditched. Flat-bladed roads are not allowed.
- If additional erosion occurs during the life of this project, more culverts, low water crossings, berms, wing ditches or etc. will be needed to control the erosion.
- Low-water crossings will be appropriately constructed to avoid sedimentation of drainage ways and other water resources.
- Pipelines will be buried at all major drainage crossings.
- Prevent fill and stock piles from entering drainages.
- The reserve pit will be lined with a 12 ml or greater liner and felt prior to spudding.
- The liner is to be cut 5 feet below ground surface or at the level of the cuttings, whichever is deeper, and the excess liner material is to be disposed of at an authorized disposal site.
- When the reserve pit contains fluids or toxic substances, the operator must ensure animals do not ingest or become entrapped in pit fluids.
- If paleontologic or cultural materials are uncovered during construction, the operator shall immediately stop work that might further disturb or move such materials and contact the Authorized Officer (AO) within 48 hours. A determination will be made by the AO as to necessary mitigation for the discovered paleontologic/cultural material.
- If Uinta Basin hookless cactus or other special status plants are found, construction will cease and the AO will be notified to determine the appropriate mitigation.
- The interim seed mix for this location shall be:

Crested Wheatgrass ( <i>Agropyron cristatum</i> ):	4 lbs/acre
Indian Ricegrass ( <i>Achnatherum hymenoides</i> ):	4 lbs/acre
Needle and Threadgrass ( <i>Hesperostipa comata</i> ):	4 lbs/acre
Scarlet Globemallow ( <i>Sphaeralcea coccinea</i> )	1 lbs/acre

- All pounds are in pure live seed.
- Rates are set for drill seeding; double the rate if broadcasting.
- Reseeding may be required if initial seeding is not successful.

- The operator will be responsible for treatment and control of invasive and noxious weeds.
- The topsoil from the reserve pit shall be stripped and piled separately near the reserve pit. When the reserve pit is closed, it shall be recontoured and the topsoil respread, and the area shall be seeded in the same manner as the location topsoil.
- Once the location is plugged and abandoned, it shall be recontoured to natural topology, topsoil shall be respread, and the entire location shall be seeded with a seed mix recommended by the AO (preferably of native origin). Seed application will follow all guidelines in the interim seed mix bullet statement above. If reclamation seeding 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.
- The authorized officer may prohibit surface disturbing activities during severe winter conditions to minimize watershed damage. This limitation does not apply to operation and maintenance of producing wells.
- The authorized officer may prohibit surface disturbing activities during wet or muddy conditions to minimize watershed damage. This limitation does not apply to operation and maintenance of producing wells.
- All well facilities not regulated by OSHA will be painted Carlsbad Canyon.
- All boulders with a length or diameter greater than 3 feet, that are found showing at the surface, will be stockpiled for use during final reclamation.
- Notify the Authorized Officer 48 hours prior to surface disturbing activities.

### **DOWNHOLE COAs:**

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

- None.

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

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

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

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

## OPERATING REQUIREMENT REMINDERS:

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

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

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

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

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

**SUNDRY NOTICES AND REPORTS ON WELLS**

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

5. Lease Designation and Serial No.  
**UTU-13905**

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

7. If Unit or CA, Agreement Designation  
**LONE TREE**

8. Well Name and No.  
**LONE TREE FEDERAL 11-22-9-17**

9. API Well No.  
**43-013-33308**

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

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

**SUBMIT IN TRIPLICATE**

1. Type of Well  
 Oil Well     Gas Well     Other

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

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

4. Location of Well (Footage, Sec., T., R., m., or Survey Description)  
**2055 FSL 1813 FWL      NE/SW Section 22, T9S R17E**

12. CHECK APPROPRIATE BOX(S) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA	
TYPE OF SUBMISSION	TYPE OF ACTION
<input checked="" type="checkbox"/> Notice of Intent <input type="checkbox"/> Subsequent Report <input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Abandonment <input type="checkbox"/> Recompletion <input type="checkbox"/> Plugging Back <input type="checkbox"/> Casing Repair <input type="checkbox"/> Altering Casing <input checked="" type="checkbox"/> Other <b>Permit Extension</b>
	<input type="checkbox"/> Change of Plans <input type="checkbox"/> New Construction <input type="checkbox"/> Non-Routine Fracturing <input type="checkbox"/> Water Shut-Off <input type="checkbox"/> Conversion to Injection <input type="checkbox"/> Dispose Water

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

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

Newfield Production Company requests to extend the Permit to Drill this well for one year. The original approval date was 9/19/06 (expiration 9/19/07).

Approved by the  
Utah Division of  
Oil, Gas and Mining

Date: 09-17-07  
By: [Signature]

COPY SENT TO OPERATOR  
Date: 9-18-07  
Initials: RM

14. I hereby certify that the foregoing is true and correct  
Signed [Signature] Title Regulatory Specialist Date 9/14/2007  
**Mandie Crozier**

CC: UTAH DOGM

(This space for Federal or State office use)

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

Conditions of approval, if any:

CC: Utah DOGM

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

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

**API:** 43-013-33308  
**Well Name:** Lone Tree Federal 11-22-9-17  
**Location:** NE/SW Section 22, T9S R17E  
**Company Permit Issued to:** Newfield Production Company  
**Date Original Permit Issued:** 9/16/2006

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

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

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

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

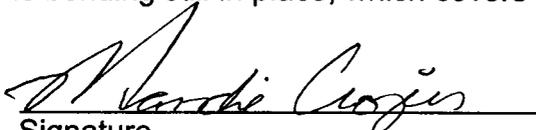
Has there been any unit or other agreements put in place that could affect the permitting or operation of this proposed well? Yes  No

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

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

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

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

  
Signature

9/10/2007  
Date

**Title:** Regulatory Specialist

**Representing:** Newfield Production Company

# DIVISION OF OIL, GAS AND MINING

## **SPUDDING INFORMATION**

Name of Company: NEWFIELD PRODUCTION COMPANY

Well Name: LONE TREE FED 11-22-9-17

Api No: 43-013-33308 Lease Type: FEDERAL

Section 22 Township 09S Range 17E County DUCHESNE

Drilling Contractor NDSI RIG # NS#1

### **SPUDDED:**

Date 11/12/07

Time 10:45 AM

How DRY

**Drilling will Commnce:** \_\_\_\_\_

Reported by BRANDON HALL

Telephone # (435) 828-6110

Date 11/13/07 Signed CHD

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

FORM APPROVED  
OMB No. 1004-0135  
Expires January 31, 2004

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

**SUBMIT IN TRIPLICATE - Other Instructions on reverse side**

1. Type of Well  
 Oil Well    Gas Well    Other

2. Name of Operator  
 NEWFIELD PRODUCTION COMPANY

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

3b. Phone    (include are code)  
                   435.646.3721

4. Location of Well    (Footage, Sec., T., R., M., or Survey Description)  
 NESW 2055 FSL 1813 FWL  
 NESW Section 22 T9S R17E

5. Lease Serial No.  
 USA UTU-13905

6. If Indian, Allottee or Tribe Name.

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

8. Well Name and No.  
 LONE TREE FEDERAL 11-22-9-17

9. API Well No.  
 4301333308

10. Field and Pool, or Exploratory Area  
 MONUMENT BUTTE

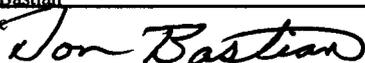
11. County or Parish, State  
 DUCHESNE, UT

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

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

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

On 11/12/07 MIRU NDSI NS #1. Spud well @ 10:30am. Drill 320' of 12 1/4" hole with air mist. TIH W/ 7 Jt's 8 5/8" J-55 24 # csgn. Set @ 320.88' On 11/23/07 cement with 160 sks of class "G" w/ 3% CaCL2 + 1/4# sk Cello- Flake Mixed @ 15.8 ppg > 1.17 cf/sk yeild. Returned 3 bbls cement to pit. WOC.

I hereby certify that the foregoing is true and correct (Printed/ Typed) Don Bastian	Title Drilling Foreman
Signature 	Date 11/23/2007

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

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

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

(Instructions on reverse)

**RECEIVED**

**NOV 27 2007**

DIV. OF OIL, GAS & MINING

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

8 5/8 CASING SET AT 320.88

LAST CASING 8 5/8" SET AT 320.88'  
 DATUM 12' KB  
 DATUM TO CUT OFF CASING \_\_\_\_\_  
 DATUM TO BRADENHEAD FLANGE \_\_\_\_\_  
 TD DRILLER 320' LOGGER \_\_\_\_\_  
 HOLE SIZE 12 1/4

OPERATOR NewField Production Company  
 WELL Lone Tree Federal 11-22-9-17  
 FIELD/PROSPECT Monument Butte  
 CONTRACTOR & RIG # NDSI NS# 1

LOG OF CASING STRING:							
PIECES	OD	ITEM - MAKE - DESCRIPTION	WT / FT	GRD	THREAD	CONDT	LENGTH
		Shoe Joint 41.59'					
		WHI - 92 csg head			8rd	A	0.95
7	8 5/8"	Maverick ST&C csg	24#	J-55	8rd	A	309.03
		<b>GUIDE</b> shoe			8rd	A	0.9
CASING INVENTORY BAL.		FEET	JTS	TOTAL LENGTH OF STRING			310.88
TOTAL LENGTH OF STRING		310.88	7	LESS CUT OFF PIECE			2
LESS NON CSG. ITEMS		1.85		PLUS DATUM TO T/CUT OFF CSG			12
PLUS FULL JTS. LEFT OUT		0		CASING SET DEPTH			<b>320.88</b>
TOTAL		309.03	7	} COMPARE			
TOTAL CSG. DEL. (W/O THRDS)		309.88	7				
TIMING		1ST STAGE					
BEGIN RUN CSG.	Spud	11/12/2007	10:30 AM	GOOD CIRC THRU JOB			Yes
CSG. IN HOLE		11/13/2007	8:00 AM	Bbls CMT CIRC TO SURFACE			3
BEGIN CIRC		11/23/2007	9:36 AM	RECIPROCATED PIPE FOR _____ THRU _____ FT STROKE			
BEGIN PUMP CMT		11/23/2007	9:45 AM				N/A
BEGIN DSPL. CMT		11/23/2007	9:56 AM	BUMPED PLUG TO _____ 220 _____ PSI			
PLUG DOWN		11/23/2007	10:06 AM				
CEMENT USED		CEMENT COMPANY- <b>B. J.</b>					
STAGE	# SX	CEMENT TYPE & ADDITIVES					
1	160	Class "G" w/ 2% CaCL2 + 1/4#/sk Cello-Flake mixed @ 15.8 ppg 1.17 cf/sk yield					
CENTRALIZER & SCRATCHER PLACEMENT			SHOW MAKE & SPACING				
Centralizers - Middle first, top second & third for 3							

COMPANY REPRESENTATIVE Don Bastian DATE 11/23/2007

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

OPERATOR: NEWFIELD PRODUCTION COMPANY  
ADDRESS: RT. 3 BOX 3838  
MYTON, UT 84052

OPERATOR ACCT. NO. N2695

ACTION CODE	CURRENT ENTITY NO.	NEW ENTITY NO.	API NUMBER	WELL NAME	WELL LOCATION				SPUD DATE	EFFECTIVE DATE	
					QQ	SC	TP	RG			COUNTY
B	99999	12417 ✓	4301333284	LONE TREE FED 12-21-9-17	NWSW	21	9S	17	DUCHESNE	11/8/2007	11/26/07
WELL 1 COMMENTS: <i>GRU</i>											
B	99999	12417 ✓	4301333283	LONE TREE FED 13-21-9-17	SWSW	21	9S	17E	DUCHESNE	11/9/2007	11/26/07
WELL 2 COMMENTS: <i>GRU</i>											
B	99999	12417 ✓	4301333308	LONE TREE FED 11-22-9-17	NESW	22	9S	17E	DUCHESNE	11/12/2007	11/26/07
WELL 3 COMMENTS: <i>GRU</i>											
A	99999	16508	4301333183	FEDERAL 16-23-9-16	SESE	23	9S	16E	DUCHESNE	11/13/2007	11/26/07
WELL 4 COMMENTS: <i>GRU</i>											
WELL 5 COMMENTS:											
WELL 6 COMMENTS:											

ACTION CODES (See instructions on back of form)

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

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

*Jenri Park*  
Signature  
Jenri Park  
Production Clerk  
11/15/07  
Date

NOV 15 2007 RECEIVED

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

FORM APPROVED  
OMB No. 1004-0135  
Expires January 31, 2004

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

**SUBMIT IN TRIPLICATE - Other Instructions on reverse side**

1. Type of Well  
 Oil Well    Gas Well    Other

2. Name of Operator  
 NEWFIELD PRODUCTION COMPANY

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

3b. Phone   (include are code)  
 435.646.3721

4. Location of Well   (Footage, Sec., T., R., M., or Survey Description)  
 NESW 2055 FSL 1813 FWL  
 NESW, Section 22 T9S R17E

5. Lease Serial No.  
 USA UTU-13905

6. If Indian, Allottee or Tribe Name.

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

8. Well Name and No.  
 LONE TREE FEDERAL 11-22-9-17

9. API Well No.  
 4301333308

10. Field and Pool, or Exploratory Area  
 MONUMENT BUTTE

11. County or Parish, State  
 DUCHESNE, UT

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

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

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

On 12/16/07 MIRU NDSI Rig # 1. Set all equipment. Pressure test Kelly, TIW, Choke manifold, & Bop's to 2,000 psi. Test 8.625 csgn to 1,500 psi. Vernal BLM field, & Roosevelt DOGM office was notified of test. PU BHA and tag cement @ 270'. Drill out cement & shoe. Drill a 7.875 hole with fresh water to a depth of 5600'. Lay down drill string & BHA. Open hole log w/ Dig/SP/GR log's TD to surface. PU & TIH with Guide shoe, shoe jt, float collar, 130 jt's of 5.5 J-55, 15.5# csgn. Set @ 5602.83' / KB. Cement with 325' sks cement mixed @ 11.0 ppg & 3.43 yld. The 400 sks cement mixed @ 14.4 ppg & 1.24 yld. Returned 12 bbls of cement to reserve pit. Nipple down Bop's. Drop slips @ 80,000 #'s tension. Release rig @ 7:30 PM on 12/21/07.

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

Title  
 Drilling Foreman  
 Date  
 12/28/2007

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

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

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

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

(Instructions on reverse)

**RECEIVED**

**DEC 31 2007**

# NEWFIELD PRODUCTION COMPANY - CASING & CEMENT REPORT

5 1/2" CASING SET AT 5602.83

Fit cllr @ 5545.39

LAST CASING 8 5/8" SET @ 320.88

OPERATOR Newfield Production Company

DATUM 12

WELL Lone Tree Federal 11-22-9-17

DATUM TO CUT OFF CASING 12

FIELD/PROSPECT Monument Butte

DATUM TO BRADENHEAD FLANGE \_\_\_\_\_

CONTRACTOR & RIG # NDSI Rig # 1

TD DRILLER 5600' TD logger 5615'

HOLE SIZE 7 7/8"

**LOG OF CASING STRING:**

PIECES	OD	ITEM - MAKE - DESCRIPTION	WT / FT	GRD	THREAD	CONDT	LENGTH	
		Landing Jt	15.5#	J-55	8rd	A		
		Short jt @ 4030/6.80'						
129	5 1/2"	ETC LT & C casing	15.5#	J-55	8rd	A	5560.04	
		Float collar			8rd	A	0.6	
1	5 1/2"	ETC LT&C csg	15.5#	J-55	8rd	A	43.34	
		<b>GUIDE</b> shoe			8rd	A	0.65	
CASING INVENTORY BAL.		FEET	JTS	TOTAL LENGTH OF STRING				5618.63
TOTAL LENGTH OF STRING		5668.46	130	LESS CUT OFF PIECE				
LESS NON CSG. ITEMS		1.25		PLUS DATUM TO T/CUT OFF CSG				12
PLUS FULL JTS. LEFT OUT		377.26	9	CASING SET DEPTH				<b>5602.83</b>
TOTAL		<b>5980.64</b>	139	} COMPARE				
TOTAL CSG. DEL. (W/O THRDS)		5980.64	139					
TIMING		1ST STAGE	2nd STAGE	GOOD CIRC THRU JOB				YES
BEGIN RUN CSG.		12/21/2007	7:00 AM	Bbls CMT CIRC TO SURFACE				0
CSG. IN HOLE		12/21/2007	12:00 PM	RECIPROCATED PIPE FOR				THRU FT STROKE
BEGIN CIRC		12/21/2007	12:15 PM	DID BACK PRES. VALVE HOLD ?				YES
BEGIN PUMP CMT		12/21/2007	1:25 PM	BUMPED PLUG TO				1250 PSI
BEGIN DSPL. CMT		12/21/2007	2:22 PM					
PLUG DOWN		12/21/2007	2:54 PM					
CEMENT USED				CEMENT COMPANY-				<b>B. J.</b>
STAGE	# SX	CEMENT TYPE & ADDITIVES						
1	325	Premilite II w/ 10% gel + 3% KCL, 3#s /sk CSE + 2# sk/kolseal + 1/2#s/sk Cello Flake						
		mixed @ 11.0 ppg W / 3.43 cf/sk yield						
2	400	50/50 poz W/ 2% Gel + 3% KCL, .5%EC1, 1/4# sk C.F. 2% gel. 3% SM mixed @ 14.4 ppg W/ 1.24 YLD						
CENTRALIZER & SCRATCHER PLACEMENT			SHOW MAKE & SPACING					
Centralizers - Middle first, top second & third. Then every third collar for a total of 20.								

COMPANY REPRESENTATIVE Jim Smith

DATE 12/21/2007

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

RECEIVED

FORM APPROVED  
OMB No. 1004-0135  
Expires January 31, 2004

FEB 26 2008

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

DIV. OF OIL, GAS & MINING

5. Lease Serial No.  
USA/MP/13905  
6. If Indian, Allottee or Tribe Name.  
7. If Unit or CA/Agreement, Name and/or  
LONE TREE UNIT  
8. Well Name and No.  
LONE TREE FEDERAL 11-22-9-17  
9. API Well No.  
4301333308  
10. Field and Pool, or Exploratory Area  
MONUMENT BUTTE  
11. County or Parish, State  
DUCHESNE, UT

1. Type of Well  
 Oil Well  Gas Well  Other  
2. Name of Operator  
NEWFIELD PRODUCTION COMPANY  
3a. Address Route 3 Box 3630  
Myton, UT 84052  
3b. Phone (include area code)  
435.646.3721  
4. Location of Well (Footage, Sec., T., R., M., or Survey Description)  
NESW 2055 FSL 1813 FWL  
NESW Section 22 T9S R17E

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

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

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

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

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

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

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

Mandie Crozier

Title

Regulatory Specialist

Signature

Date

02/25/2008

Approved by

Title

Date

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

Office

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

(Instructions on reverse)

**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: LONE TREE UNIT
8. WELL NAME and NUMBER: LONE TREE FEDERAL 11-22-9-17
9. API NUMBER: 4301333308
10. FIELD AND POOL, OR WILDCAT: MONUMENT BUTTE
COUNTY: DUCHESNE
STATE: UT

**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: 2055 FSL 1813 FWL

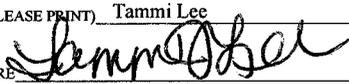
OTR/OTR. SECTION. TOWNSHIP. RANGE. MERIDIAN: NESW, 22, T9S, R17E

**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:  <u>02/22/2008</u>	<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 mentioned well went on production 2/22/08. See attached daily activity report.

NAME (PLEASE PRINT) Tammi Lee TITLE Production Clerk

SIGNATURE  DATE 02/28/2008

(This space for State use only)

**RECEIVED**  
**MAR 03 2008**  
DIV. OF OIL, GAS & MINING

**Daily Activity Report**

Format For Sundry

**LONETREE 11-22-9-17****12/1/2007 To 4/29/2008****2/8/2008 Day: 1****Completion**

Rigless on 2/7/2008 - 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 @ 5512' & cement top @ 1170'. Perforate stage #1. CP3 sds @ 5146-64' w/ 3 1/8" slick guns (19 gram, .49" HE, 120°, 21.92" pen, EXP-3319-331 Titan) w/ 4 spf for total of 72 shots. 132 BWTR. SIFN.

**2/14/2008 Day: 2****Completion**

Rigless on 2/13/2008 - Stage #1 CP3 sds. RU BJ Services. 0 psi on well. Frac CP3 sds w/ 79,912#'s of 20/40 sand in 638 bbls of Lightning 17 fluid. Broke @ 3079 psi. Treated w/ ave pressure of 2078 psi w/ ave rate of 23.3 BPM. ISIP 2055 psi. Leave pressure on well. 770 BWTR. Stage #2 CP1 sds. RU Lone Wolf, llc WLT, crane & Lubricator. RIH w/ Weatherford 5-1/2" 6K composite flow through frac plug & 6' perf gun. Set plug @ 5120'. Perforate CP1 sds @ 5040-46' w/ 3-1/8" Slick Guns (.369"EH, 22.7 gram, 90°) w/ 4 spf for total of 24 shots. RU BJ Services. 1722 psi on well. Perfs would not break. Dump bail acid on perfs. RU BJ Services. 1502 psi on well. Perfs would not break. Dump bail acid on perfs. RU BJ Services. 1461 psi on well. Frac CP1 sds w/ 19,648#'s of 20/40 sand in 315 bbls of Lightning 17 fluid. Broke @ 4122 psi. Treated w/ ave pressure of 2304 psi w/ ave rate of 23.3 BPM. ISIP 2122 psi. Leave pressure on well. 1085 BWTR. Stage #3 A1 sds. RU Lone Wolf, llc WLT, crane & Lubricator. RIH w/ Weatherford 5-1/2" 6K composite flow through frac plug & 15' perf gun. Set plug @ 4700'. Perforate A1 sds @ 4604-19' w/ 3-1/8" Slick Guns (.369"EH, 22.7 gram, 90°) w/ 4 spf for total of 60 shots. RU BJ Services. 181 psi on well. Perfs would not break. Dump bail acid on perfs. SWIFN.

**2/15/2008 Day: 3****Completion**

Rigless on 2/14/2008 - Stage #3 A1 sds. RU BJ Services. 1210 psi on well. Frac A1 sds w/ 39,873#'s of 20/40 sand in 424 bbls of Lightning 17 fluid. Broke @ 3769 psi. Treated w/ ave pressure of 1478 psi w/ ave rate of 23.3 BPM. ISIP 1679 psi. Leave pressure on well. 1509 BWTR. Stage #4 D2 sds. RU Lone Wolf, llc WLT, crane & Lubricator. RIH w/ Weatherford 5-1/2" 6K composite flow through frac plug & 12' perf gun. Set plug @ 4350'. Perforate D2 sds @ 4264-76' w/ 3-1/8" Slick Guns (.369"EH, 22.7 gram, 90°) w/ 4 spf for total of 48 shots. RU BJ Services. 1375 psi on well. Frac D2 sds w/ 67,666#'s of 20/40 sand in 578 bbls of Lightning 17 fluid. Broke @ 4270 psi. Treated w/ ave pressure of 1628 psi w/ ave rate of 23.5 BPM. ISIP 1670 psi. Open well to pit for immediate flowback @ approx. 1 bpm. Well flowed for 8 hrs & died. SWIFN.

**2/19/2008 Day: 4****Completion**

Western #2 on 2/18/2008 - MIRU Western #2 (repaired rig).

**2/20/2008 Day: 5****Completion**

Western #2 on 2/19/2008 - Thaw BOP. ND Cameron BOP & 5m frac head. NU 3m production head & Schafer BOP. RIH w/ 4 3/4" chomp bit, bit sub & new 2 7/8" tbg. from pipe racks (tallying & drifting). Tag CBP @ 4350'. RU powerswivel & pump. DU CBP in 18 min. Cont. RIH w/ tbg. Tag 4624'. C/O to CBP @ 4700'. DU CBP in 19 min. Cont. RIH w/ tbg. Tag CBP @ 5120'. DU CBP in 16 min. Circulate well clean. SWIFN.

**2/21/2008 Day: 6****Completion**

Western #2 on 2/20/2008 - Thaw BOP. Bleed off well. RIH w/ tbg. Tag sand @ 5424'. C/O to PBTD

·@ 5558'. Circulate well clean. RD powerswivel. Pull up to 5516'. RIH w/ swab. SFL @ surface. Made 16 runs. Trace of oil. Trace of sand. Recovered 132 bbls. EFL @ 2400'. RD swab. RIH w/ tbg. Tag sand @ 5530'. C/O to PBTD @5558'. Circulate well clean. POOH w/ tbg. to 1266'. SWIFN.

---

2/22/2008 Day: 7

Completion

Western #2 on 2/21/2008 - Thaw well. Bleed off well. Cont. RIH w/ tbg. LD BHA. RIH w/ 2 7/8" notched collar, 2 jts 2 7/8" tbg., PSN, 2 jts 2 7/8" tbg., 5 1/2" TAC, 162 jts 2 7/8" tbg. ND BOP. Set TAC @ 5111' w/ 16,000# tension. NU wellhead. X-over for rods. Flush tbg. w/ 60 bbls water. RIH w/ CDI 2 1/2" x 1 1/2" x 10' x 14' RHAC pump, 6- 1 1/2" weight bars, 20- 3/4" guided rods, 80- 3/4" slick rods, 100- 3/4" guided rods, 1- 4', 2' x 3/4" pony subs, 1 1/2" x 26' polished rod. Seat pump. Stroke test to 800 psi. RU pumping unit. Hang off rods. Adjust tag. RD. Could not put well on production due to surface equipment not ready.

---

2/23/2008 Day: 8

Completion

Western #2 on 2/22/2008 - Put well on production @ 2:00 p.m. 86" stroke length, 5 spm. Final Report.

---

Pertinent Files: [Go to File List](#)

(See other instructions on reverse side)

OMB NO. 1004-0137  
Expires: February 28, 1995

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

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

5. LEASE DESIGNATION AND SERIAL NO.

**UTU-13905**

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

**NA**

1a. TYPE OF WORK

OIL WELL  GAS WELL  DRY  Other \_\_\_\_\_

7. UNIT AGREEMENT NAME

**LONETREE**

1b. TYPE OF WELL

NEW WELL  WORK OVER  DEEPEN  PLUG BACK  DIFF RESVR.  Other \_\_\_\_\_

8. FARM OR LEASE NAME, WELL NO.

**43-013-33308**

2. NAME OF OPERATOR

**Newfield Exploration Company**

9. WELL NO.

**LONETREE FEDERAL 11-22-9-17**

3. ADDRESS AND TELEPHONE NO.

**1401 17th St. Suite 1000 Denver, CO 80202**

10. FIELD AND POOL OR WILDCAT

**MONUMENT BUTTE**

4. LOCATION OF WELL (Report locations clearly and in accordance with any State requirements.)\*

At Surface **2055' FSL & 1813' FWL NESW**

11. SEC., T., R., M., OR BLOCK AND SURVEY OR AREA

**SEC 22, T<sup>9S</sup>, R17E**

At top prod. Interval reported below

At total depth

14. API NO.

**43-013-33308**

DATE ISSUED

**9-19-07**

12. COUNTY OR PARISH

**DUCHESNE**

13. STATE

**UT**

15. DATE SPUDDED

**11/12/07**

16. DATE T.D. REACHED

**12/20/07**

17. DATE COMPL. (Ready to prod.)

**2/22/08**

18. ELEVATIONS (DF, RKB, RT, GR, ETC.)\*

**5273'GL 5285' KB**

19. ELEV. CASINGHEAD

20. TOTAL DEPTH, MD & TVD

**5600'**

21. PLUG BACK T.D., MD & TVD

**5558'**

22. IF MULTIPLE COMPL., HOW MANY\*

23. INTERVALS DRILLED BY

**----->**

ROTARY TOOLS

**X**

CABLE TOOLS

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

**GREEN RIVER 4264'-5164'**

25. WAS DIRECTIONAL SURVEY MADE

**No**

26. TYPE ELECTRIC AND OTHER LOGS RUN

**Dual Induction Guard, SP, Compensated Density, Compensated Neutron, GR, Caliper, Cement Bond Log**

27. WAS WELL CORED

**No**

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

CASING SIZE/GRADE	WEIGHT, LB./FT.	DEPTH SET (MD)	HOLE SIZE	TOP OF CEMENT, CEMENTING RECORD	AMOUNT PULLED
8-5/8" - J-55	24#	320.88'	12 1/4	To surface w/ 160sx of class "G" cement	
5-1/2" J-55	15.5#	5602.83'	7 7/8	325 sx of Premilite II & 400sx of 50/50 poz	

29. LINER RECORD

SIZE	TOP (MD)	BOTTOM (MD)	SACKS CEMENT*	SCREEN (MD)	SIZE	DEPTH SET (MD)	PACKER SET (MD)
					2-7/8"	EOT @ 5241.31'	TA @ 5051.18'

31. PERFORATION RECORD (Interval, size and number)

**INTERVAL SIZE SPF/NUMBER**

32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.

**DEPTH INTERVAL (MD) AMOUNT AND KIND OF MATERIAL USED**

CP3 sds 5146'-5164'	.49"	4/72	5146'-5164'	Frac w/ 79912#s of 20/40 sand in 638 bbls of fluid
CP1 sds 5040'-5046'	.49"	4/24	5040'-5046'	Frac w/ 19648#s of 20/40 sand in 315 bbls of fluid
A1 sds 4604'-4619'	.49"	4/60	4604'-4619'	Frac w/39873#s of 20/40 sand in 424 bbls of fluid
D2 sds 4264'-4276'	.49"	4/48	4264'-4276'	Frac w/67666#s of 20/40 sand in 578 bbls of fluid

33.\* PRODUCTION

DATE FIRST PRODUCTION	PRODUCTION METHOD (Flowing, gas lift, pumping--size and type of pump)	WELL STATUS (Producing or shut-in)					
<b>2/22/08</b>	<b>2 1/2" X 1 1/2" 10' X 14 RHAC PUMP</b>	<b>PRODUCING</b>					
DATE OF TEST	HOURS TESTED	CHOKE SIZE	PROD'N. FOR TEST PERIOD	OIL--BBL.	GAS--MCF.	WATER--BBL.	GAS-OIL RATIO
<b>10 day ave</b>			----->	<b>762</b>	<b>788</b>	<b>228</b>	<b>593</b>
FLOW. TUBING PRESS.	CASING PRESSURE	CALCULATED 24-HOUR RATE	OIL-BBL.	GAS--MCF.	WATER--BBL.	OIL GRAVITY-API (CORR.)	

34. DISPOSITION OF GAS (Sold, used for fuel, vented, etc.)

**Used for Fuel**

35. LIST OF ATTACHMENTS

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

SIGNED Tammi Lee  
Tammi Lee

TITLE Production Technician

DATE 3/10/2008

**RECEIVED  
MAR 12 2008**

**DIV OF OIL, GAS & MINING**

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

37. SUMMARY OF POROUS ZONES: (Show all important zones of porosity and contents thereof; cored intervals, and all drill-stem, tests, including depth interval tested, cushion used, time tool open, flowing and shut-in pressures, and recoveries);

38. GEOLOGIC MARKERS

FORMATION	TOP	BOTTOM	DESCRIPTION, CONTENTS, ETC.	TOP	
				MEAS. DEPTH	TRUE VERT. DEPTH
			<p style="text-align: center;">Well Name <b>LONETREE FEDERAL 11-22-9-17</b></p>		
				Garden Gulch Mkr 3234' Garden Gulch 1 3427' Garden Gulch 2 3534' Point 3 Mkr 3798' X Mkr 4026' Y-Mkr 4062' Douglas Creek Mkr 4185' BiCarbonate Mkr 4418' B Limestone Mkr 4522' Castle Peak 5010' Basal Carbonate 5416' Wasatch 5554' Total Depth (Loggers) 5615'	

# NEWFIELD



Well Name: Lone Tree 11-22-9-17  
 LOCATION: S22, T9S, R17E  
 COUNTY/STATE: Duchesne  
 API: 43-013-33308

Spud Date: 11-12-07  
 TD: 5600'  
 CSG: 12-21-07  
 POP:

DATE	HRS	Oil (bbls)	Water (bbls)	Recovered Water (bbls)	Gas (mcf)	Casing Pressure (psi)	SPM	Comments
				1565				No final report waiting on surface equipment
2/23/2008	16	0	45	1520	0	10	5	
2/24/2008	24	0	130	1390	0	0	5	
2/25/2008	24	0	73	1317	0	10	5	
2/26/2008	24	0	60	1257	0	10	5	
2/27/2008	24	20	0	1257	0	40	5 1/2	
2/28/2008	24	81	0	1257	0	35	5	
2/29/2008	24	63	0	1257	0	40	5	
3/1/2008	24	81	67	1190	0	30	5	
3/2/2008	24	98	63	1127	200	200	5	15 bbls water from T1 to T3
3/3/2008	24	175	20	1107	222	80	5	
3/4/2008	24	46	25	1082	90	65	5	
3/5/2008	24	16	50	1032	84	30	6	20 bbls from T2 to T3
3/6/2008	24	92	10	1022	74	70	6	
3/7/2008	24	90	23	999	118	150	5 1/2	
3/8/2008				999				
3/9/2008				999				
3/10/2008				999				
3/11/2008				999				
3/12/2008				999				
3/13/2008				999				
3/14/2008				999				
3/15/2008				999				
3/16/2008				999				
3/17/2008				999				
3/18/2008				999				
3/19/2008				999				
3/20/2008				999				
3/21/2008				999				
3/22/2008				999				
3/23/2008				999				
3/24/2008				999				
		<b>762</b>	<b>566</b>		<b>788</b>			

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

FORM APPROVED  
OMB No. 1004-0135  
Expires January 31, 2004

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

**SUBMIT IN TRIPLICATE - Other Instructions on reverse side**

1. Type of Well  
 Oil Well    Gas Well    Other

2. Name of Operator  
 NEWFIELD PRODUCTION COMPANY

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

3b. Phone    (include are code)  
                   435.646.3721

4. Location of Well    (Footage, Sec., T., R., M., or Survey Description)  
 2055 FSL 1813 FWL  
 NESW Section 22 T9S R17E

5. Lease Serial No.  
 USA UTU-13905

6. If Indian, Allottee or Tribe Name.

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

8. Well Name and No.  
 LONE TREE FEDERAL 11-22-9-17

9. API Well No.  
 4301333308

10. Field and Pool, or Exploratory Area  
 MONUMENT BUTTE

11. County or Parish, State  
 DUCHESNE, UT

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

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

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

After the initial cement job of the 5-1/2" production casing on the federal 11-22-9-17 the cement top fell to 1180'. Failing to cover the required 200' above the usable water zone at approximatly 700'. Newfield Production Company proposed to perforate the 5-1/2" casing at 1140' st a cement retainer and circutate cement up the annulas to cover the usable water zone. Newfield proposes to circulate 40 bbls of Prem Lite 2 mixed at 11.0 ppg & 3.43 yield. Cement should return to surface.

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

Date: 4/25/08  
By: [Signature]

Federal Approval Of This  
Action Is Necessary

**COPY SENT TO OPERATOR**

Date: 4.28.2008

Initials: KS

I hereby certify that the foregoing is true and correct (Printed/ Typed)  
Brad Mechem  
 Signature [Signature]

Title  
 Operations Superintendent

Date  
 03/31/2008

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

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

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

Office \_\_\_\_\_

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

(Instructions on reverse)

**RECEIVED**

**APR 03 2008**

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

# LONE TREE FEDERAL #11-22-9-17

## Wellbore Diagram

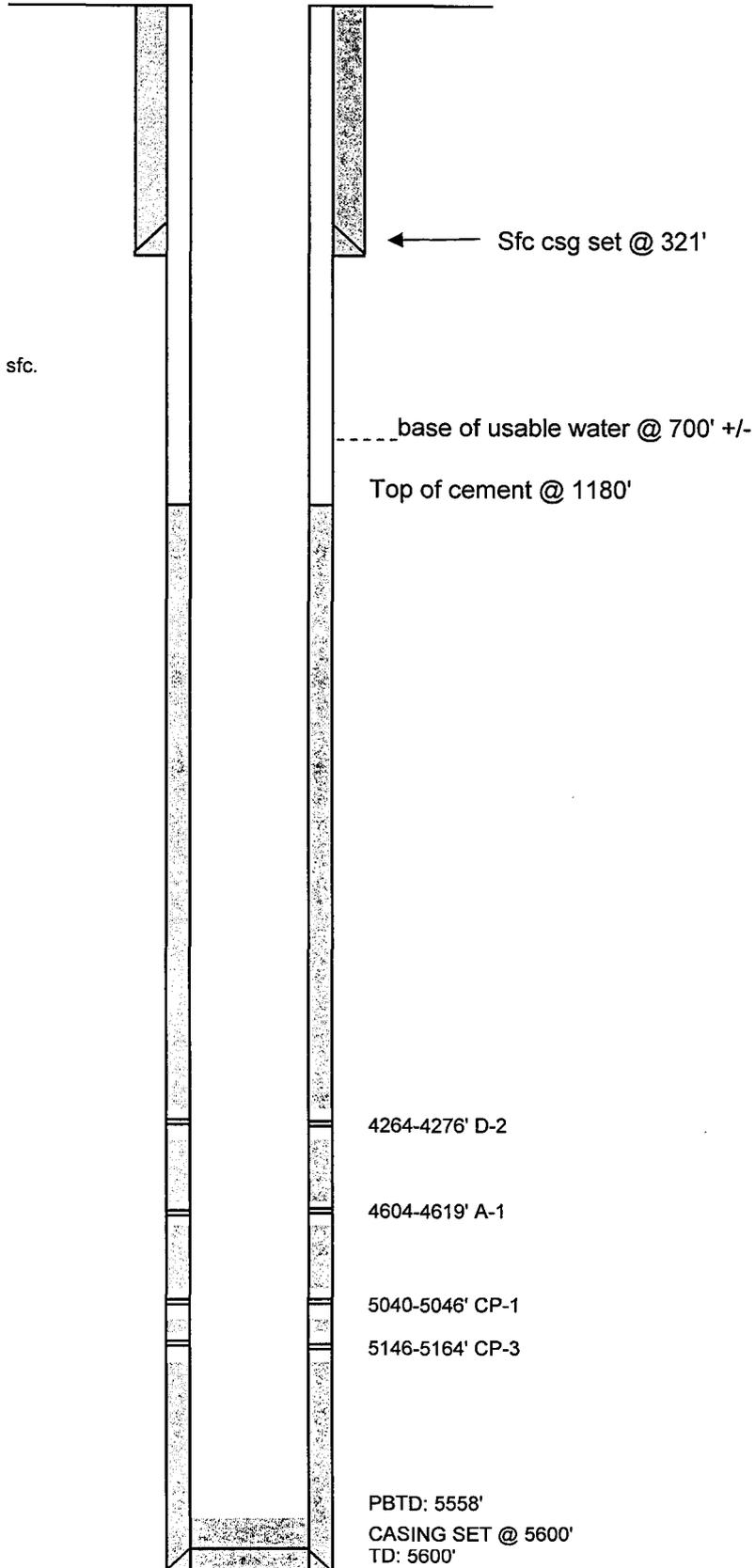
Spud Date: 11/12/2007  
Put on production: 2/23/08

### SURFACE CASING

CSG SIZE: 8-5/8"  
GRADE: J-55  
WEIGHT: 24#  
LENTH: 311'  
DEPTH LANDED: 321'  
HOLE SIZE: 12-1/4"  
CEMENT DATA: 160 sx class G cmt, returned 3 bbls to sfc.

### PRODUCTION CASING

CSG SIZE: 5-1/2"  
GRADE: J-55  
WEIGHT: 15.5#  
LENTH: 5591'  
DEPTH LANDED: 5603' KB  
HOLE SIZE: 7-7/8"  
CEMENT DATA: 325 sx premlite II w/ add.  
400 sx 50/50 poz w/ add



<b>NEWFIELD PRODUCTION CO.</b>
Lone Tree Federal 11-22-9-17
2055 FSL 1813 FWL
NE/SW Section 22-T9S-R17E
Duchesne Co, Utah
API #43-013-33308
Lease #UTU-13905

# LONE TREE FEDERAL #11-22-9-17

## Wellbore Diagram

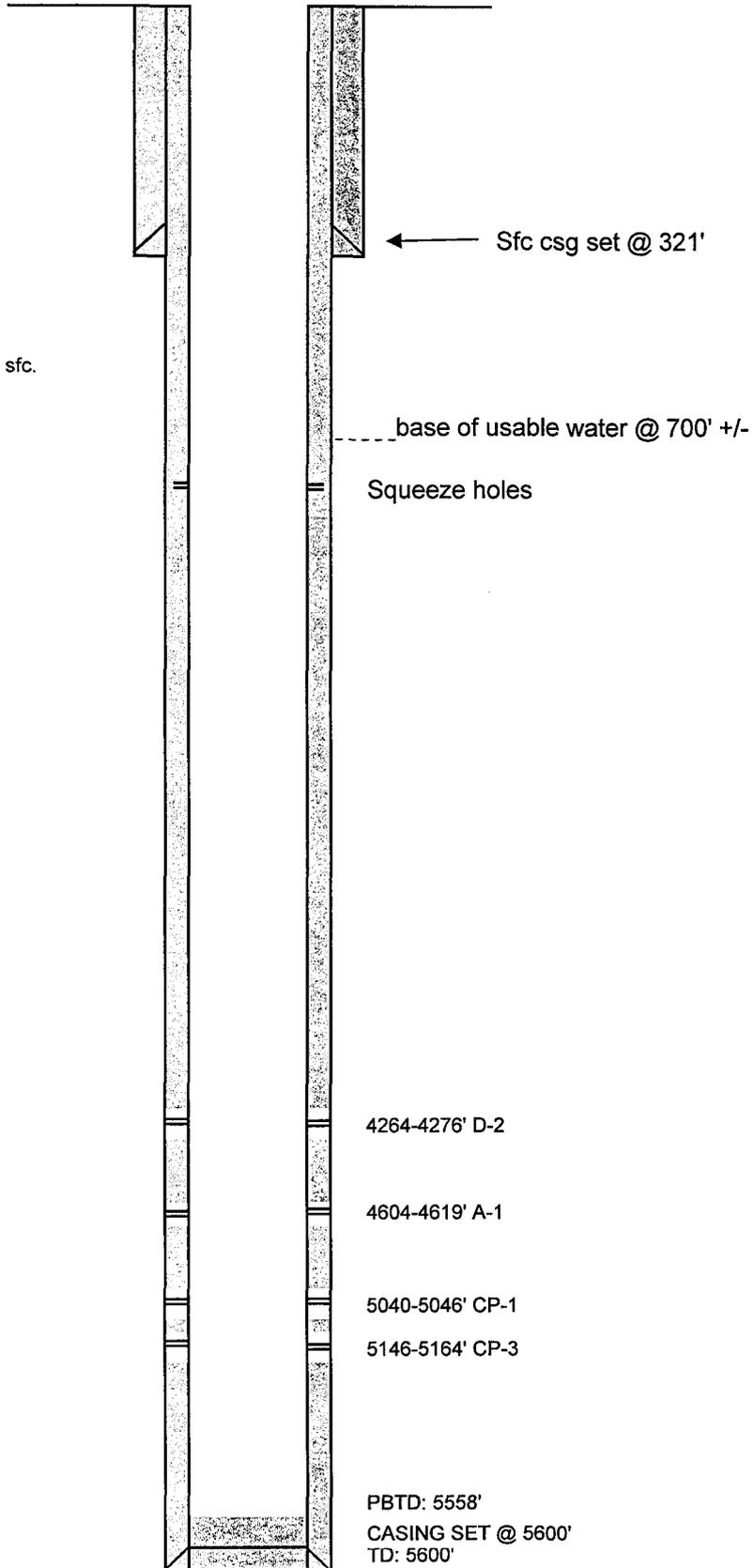
Spud Date: 11/12/2007  
Put on production: 2/23/08

### SURFACE CASING

CSG SIZE: 8-5/8"  
GRADE: J-55  
WEIGHT: 24#  
LENTH: 311'  
DEPTH LANDED: 321'  
HOLE SIZE: 12-1/4"  
CEMENT DATA: 160 sx class G cmt, returned 3 bbls to sfc.

### PRODUCTION CASING

CSG SIZE: 5-1/2"  
GRADE: J-55  
WEIGHT: 15.5#  
LENTH: 5591'  
DEPTH LANDED: 5603' KB  
HOLE SIZE: 7-7/8"  
CEMENT DATA: 325 sx premlite II w/ add.  
400 sx 50/50 poz w/ add



<b>NEWFIELD PRODUCTION CO.</b>
Lone Tree Federal 11-22-9-17
2055 FSL 1813 FWL
NE/SW Section 22-T9S-R17E
Duchesne Co, Utah
API #43-013-33308
Lease #UTU-13905

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

5. LEASE DESIGNATION AND SERIAL NUMBER:  
USA UTU-13905

**SUNDRY NOTICES AND REPORTS ON WELLS**

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

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.

7. UNIT or CA AGREEMENT NAME:

LONE TREE UNIT

TYPE OF WELL: OIL WELL  GAS WELL  OTHER

8. WELL NAME and NUMBER:

LONE TREE FEDERAL 11-22-9-17

NAME OF OPERATOR:  
NEWFIELD PRODUCTION COMPANY

9. API NUMBER:

4301333308

ADDRESS OF OPERATOR:  
Route 3 Box 3630 CITY Myton STATE UT ZIP 84052

PHONE NUMBER  
435.646.3721

10. FIELD AND POOL, OR WILDCAT:

MONUMENT BUTTE

LOCATION OF WELL:  
FOOTAGES AT SURFACE: 2055 FSL 1813 FWL

COUNTY: DUCHESNE

OTR/OTR. SECTION. TOWNSHIP. RANGE. MERIDIAN: NESW, 22, T9S, R17E

STATE: UT

**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 checked="" type="checkbox"/> SUBSEQUENT REPORT (Submit Original Form Only)  Date of Work Completion: 04/23/2009	<input type="checkbox"/> CASING REPAIR	<input type="checkbox"/> NEW CONSTRUCTION	<input type="checkbox"/> TEMPORARILY ABANDON
	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> TUBING REPAIR
	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> VENT OR FLAIR
	<input type="checkbox"/> CHANGE WELL NAME	<input type="checkbox"/> PLUG BACK	<input type="checkbox"/> WATER DISPOSAL
	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> PRODUCTION (START/STOP)	<input type="checkbox"/> WATER SHUT-OFF
	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input checked="" type="checkbox"/> OTHER: - Cement Repair
	<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.

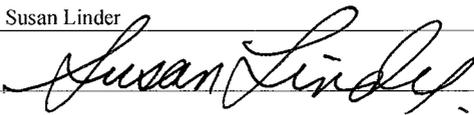
The work has been completed on the subject well to cement usable water zone. Attached is the work report for your records.

Please contact Paul Weddle (operations engineer) at 303-383-4117, or Susan Linder at 303-382-4443 if you need additional information.

NAME (PLEASE PRINT) Susan Linder

TITLE Operations Tech

SIGNATURE



DATE 05/20/2009

This space for State use only)

**RECEIVED**  
**JUL 06 2009**  
DIV. OF OIL, GAS & MINING

# NEWFIELD



## DAILY WORKOVER REPORT

**WELL NAME:** Lone Tree Federal 11-22-9-17      **Report Date:** 4/23/2009      **Day:** 6  
**Operation:** Cement repair      **Rig:** A-Plus WS #5

### WELL STATUS

**Surf Csg:** 8 5/8' @ 321'      **Prod Csg:** 5 1/2" @ 5603'      **Csg PBTB:** 5558'  
**Tbg:** **Size:** 2 7/8"    **Wt:** 6.5#    **Grd:** j-55    **Pkr/EOT @:** 5240'    **BP/Sand PBTB:** 5384'

### PERFORATION RECORD

Zone	Perfs	SPF/#shots	Zone	Perfs	SPF/#shots
<u>Squeeze</u>	<u>1140' - 1141'</u>	<u>3/3</u>	_____	_____	_____
<u>D2 sds</u>	<u>4264-4276'</u>	<u>4/48</u>	_____	_____	_____
<u>A1 sds</u>	<u>4604-4619'</u>	<u>4/60</u>	_____	_____	_____
<u>CP1 sds</u>	<u>5040-5046'</u>	<u>4/24</u>	_____	_____	_____
<u>CP3 sds</u>	<u>5146-5164'</u>	<u>4/72</u>	_____	_____	_____

### CHRONOLOGICAL OPERATIONS

**Date Work Performed:** 4/22/2009      **SITP:** \_\_\_\_\_      **SICP:** \_\_\_\_\_

RU PU. Moved to the LT 6-22-9-17.  
 PWOP @ 3:00pm, 4.5 SPM, 86" SL. Final report.

### FLUID RECOVERY (BBLs)

**Starting fluid load to be recovered:** 305      **Starting oil rec to date:** \_\_\_\_\_  
**Fluid lost/recovered today:** 0      **Oil lost/recovered today:** \_\_\_\_\_  
**Ending fluid to be recovered:** 305      **Cum oil recovered:** \_\_\_\_\_  
**IFL:** \_\_\_\_\_    **FFL:** \_\_\_\_\_    **FTP:** \_\_\_\_\_    **Choke:** \_\_\_\_\_    **Final Fluid Rate:** \_\_\_\_\_    **Final oil cut:** \_\_\_\_\_

### COSTS

PRODUCTION TBG DETAIL	PRODUCTION ROD DETAIL	A-Plus WS #5	_____
<u>KB 12.00'</u>	<u>1 1/2" x 26' polished rod</u>	<u>NPC Supervision</u>	<u>_____</u>
<u>162 2 7/8 J-55 tbg (5113.87') 1 ne</u>	<u>1- 2', 4' x 3/4" pony subs</u>	<u>Iowa Trucking</u>	<u>_____</u>
<u>TA (2.80' 5109.52')</u>	<u>100- 3/4" scraped rods</u>	<u>Iowa Disposal</u>	<u>_____</u>
<u>2 2 7/8 J-55 tbg (62.85')</u>	<u>80- 3/4" slick rods</u>	_____	_____
<u>SN (1.10' 5175.17')</u>	<u>20- 3/4" scraped rods</u>	_____	_____
<u>2 2 7/8 J-55 tbg (63.10')</u>	<u>6- 1 1/2" weight bars</u>	_____	_____
<u>2 7/8 NC (.45')</u>	<u>2 1/2" x 1 1/2" x 10' x 14'</u>	_____	_____
<u>EOT @ 5239.82'</u>	<u>RHAC pump</u>	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____

**Workover Supervisor:** Scott Simonton      **DAILY COST:** \_\_\_\_\_  
**TOTAL WELL COST:** \_\_\_\_\_



# NEWFIELD



## DAILY WORKOVER REPORT

**WELL NAME:** Lone Tree Federal 11-22-9-17      **Report Date:** 4/21/2009      **Day:** 4  
**Operation:** Cement repair      **Rig:** A-Plus WS #5

### WELL STATUS

**Surf Csg:** 8 5/8' @ 321'      **Prod Csg:** 5 1/2" @ 5603'      **Csg PBTD:** 5558'  
**Tbg:** Size: 2 7/8" Wt: 6.5#      **Grd:** j-55      **Pkr/EOT @:** 5241'      **BP/Sand PBTD:** 5384'

### PERFORATION RECORD

Zone	Perfs	SPF/#shots	Zone	Perfs	SPF/#shots
Squeeze	1140' - 1141'	3/3			
D2 sds	4264-4276'	4/48			
A1 sds	4604-4619'	4/60			
CP1 sds	5040-5046'	4/24			
CP3 sds	5146-5164'	4/72			

### CHRONOLOGICAL OPERATIONS

**Date Work Performed:** 4/20/2009      **SITP:** \_\_\_\_\_      **SICP:** \_\_\_\_\_

100psi on tbg, 0 on csg. Bled off tbg. Released packer and TOOH w/ tbg, LD packer. PU 4 3/4" blade bit, bit sub, 6 - 3 1/8" drill collars, & 27 - 2 7/8" jts tbg. Tag cement top @ 1010'. Tested csg to 800psi. RU power swivel & started circulation. Drilled out cement from 1010' to 1145'. Circulated csg clean. RD power swivel. TOOH w/ bit, drill collars, & tbg as detailed. RU & TIH w/ 5 1/2" csg scraper to 1260', TOOH w/ tbg and scraper. Pressure tested csg to 1000psi. RU & RIH w/ wireline, ran bond log 1336' to surface, under 1000psi csg pressure. RD wireline. Emailed CBL to BLM, ok to proceed. MU weatherford retrieving tool, TIH w/ tool & 44 - jts tbg, tagged sand @ 1375', circulated sand off of RBP. The well unloaded 45 BW, and waited 30 mins to die. TOOH w/ tbg, LD RBP & retring tool. SDFN.

### FLUID RECOVERY (BBLs)

**Starting fluid load to be recovered:** 220      **Starting oil rec to date:** \_\_\_\_\_  
**Fluid lost/recovered today:** 0      **Oil lost/recovered today:** \_\_\_\_\_  
**Ending fluid to be recovered:** 220      **Cum oil recovered:** \_\_\_\_\_  
**IFL:** \_\_\_\_\_      **FFL:** \_\_\_\_\_      **FTP:** \_\_\_\_\_      **Choke:** \_\_\_\_\_      **Final Fluid Rate:** \_\_\_\_\_      **Final oil cut:** \_\_\_\_\_

### COSTS

PRODUCTION TBG DETAIL	PRODUCTION ROD DETAIL	A-Plus WS #5
KB 12.00'	1 1/2" x 26' polished rod	NPC Supervision
162 2 7/8 J-55 tbg (5099.18')	1- 2', 4' x 3/4" pony subs	The Perforators LLC
TA (2.80' @ 505111.18' KB)	100- 3/4" scraped rods	Weatherford Tools
2 2 7/8 J-55 tbg (62.96')	80- 3/4" slick rods	Weatherford BOP
SN (1.10' @ 5176.94' KB)	20- 3/4" scraped rods	Dalbo 400bbl tanks X2
2 2 7/8 J-55 tbg (62.82')	6- 1 1/2" weight bars	Four Star Rentals
2 7/8 NC (.45')	2 1/2" x 1 1/2" x 10' x 14'	NDSI csg scraper
EOT @ 5241.31'	RHAC pump	RBS 4 3/4" drag bit

**Workover Supervisor:** Scott Simonton      **DAILY COST:** \_\_\_\_\_  
**TOTAL WELL COST:** \_\_\_\_\_





# NEWFIELD



## DAILY WORKOVER REPORT

**WELL NAME:** Lone Tree Federal 11-22-9-17      **Report Date:** 4/16/2009      **Day:** 1  
**Operation:** Cement repair      **Rig:** A-Plus WS #5

### WELL STATUS

**Surf Csg:** 8 5/8' @ 321'      **Prod Csg:** 5 1/2" @ 5603'      **Csg PBTD:** 5558'  
**Tbg:** Size: 2 7/8"    Wt: 6.5#    **Grd:** j-55    **Pkr/EOT @:** 5241'    **BP/Sand PBTD:** \_\_\_\_\_

### PERFORATION RECORD

Zone	Perfs	SPF/#shots	Zone	Perfs	SPF/#shots
D2 sds	4264-4276'	4/48	_____	_____	_____
A1 sds	4604-4619'	4/60	_____	_____	_____
CP1 sds	5040-5046'	4/24	_____	_____	_____
CP3 sds	5146-5164'	4/72	_____	_____	_____

### CHRONOLOGICAL OPERATIONS

**Date Work Performed:** 4/15/2009      **SITP:** \_\_\_\_\_    **SICP:** \_\_\_\_\_

MIRU. RD PU. Unseated pump, LD pony rods, polish rod, & 2 - 3/4" guided rods. SDFN.

### FLUID RECOVERY (BBLs)

**Starting fluid load to be recovered:** 0      **Starting oil rec to date:** \_\_\_\_\_  
**Fluid lost/recovered today:** 0      **Oil lost/recovered today:** \_\_\_\_\_  
**Ending fluid to be recovered:** 0      **Cum oil recovered:** \_\_\_\_\_  
**IFL:** \_\_\_\_\_    **FFL:** \_\_\_\_\_    **FTP:** \_\_\_\_\_    **Choke:** \_\_\_\_\_    **Final Fluid Rate:** \_\_\_\_\_    **Final oil cut:** \_\_\_\_\_

### COSTS

PRODUCTION TBG DETAIL	PRODUCTION ROD DETAIL	A-Plus WS #5	_____
KB 12.00'	1 1/2" x 26' polished rod	NPC Supervision	_____
162 2 7/8 J-55 tbg (5099.18')	1- 2', 4' x 3/4" pony subs	_____	_____
TA (2.80' @ 505111.18' KB)	100- 3/4" scraped rods	_____	_____
2 2 7/8 J-55 tbg (62.96')	80- 3/4" slick rods	_____	_____
SN (1.10' @ 5176.94' KB)	20- 3/4" scraped rods	_____	_____
2 2 7/8 J-55 tbg (62.82')	6- 1 1/2" weight bars	_____	_____
2 7/8 NC (.45')	2 1/2" x 1 1/2" x 10' x 14'	_____	_____
EOT @ 5241.31'	RHAC pump	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____

**Workover Supervisor:** Scott Simonton

**DAILY COST:** \_\_\_\_\_  
**TOTAL WELL COST:** \_\_\_\_\_



**UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
REGION 8**

**1595 Wynkoop Street  
DENVER, CO 80202-1129  
Phone 800-227-8917  
<http://www.epa.gov/region08>**

**SEP 13 2010**

Ref: 8P-W-GW

**CERTIFIED MAIL  
RETURN RECEIPT REQUESTED**

Mr. Eric Sundberg  
Regulatory Analyst  
Newfield Production Company  
1001 Seventeenth Street – Suite 2000  
Denver, CO 80202

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

RE: Underground Injection Control (UIC)  
Additional Well to Lone Tree  
Area Permit  
EPA UIC Permit UT20853-08865  
Well: Lone Tree Federal 11-22-9-17  
NESW Sec. 22 T9S-R17E  
Duchesne County, Utah  
API No.: 43-013-33308

Dear Mr. Sundberg:

The Environmental Protection Agency Region 8 (EPA) hereby authorizes Newfield Production Company (Newfield) to convert the oil well Lone Tree Federal 11-22-9-17 to an enhanced recovery injection well according to the terms and conditions of the enclosed Authorization for Additional Well. The addition of this injection well, within the exterior boundary of the Uintah & Ouray Indian Reservation, is being made under the authority of 40 CFR §144.33 (c) and terms of the Lone Tree Area Permit UT20853-00000 and subsequent modifications.

Please be aware that Newfield does not have authorization to begin well injection until all Prior to Commencing Injection requirements are met and written authorization to inject is given by the Director. Prior to receiving authorization to inject, Newfield must submit for review and approval (1) the results of a Part I (internal) Mechanical Integrity test, (2) a pore pressure calculation of the injection interval, and (3) a completed EPA Form No. 7520-12 (Well Rework Record) with a new schematic diagram.

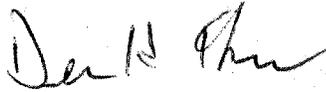
**RECEIVED**

**SEP 22 2010**

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

If you have any questions, please call Tom Aalto at (303) 312-6949 or 1-(800)-227-8917 (Ext. 312-6949). Please submit the required data to Jason Deardorff at the letterhead address citing mail code 8P-W-GW.

Sincerely,



*h* Stephen S. Tuber  
Assistant Regional Administrator  
Office of Partnerships and Regulatory Assistance

Enclosures: Authorization for Additional Well  
EPA-Annotated Wellbore and P&A Diagrams

cc Letter Only:

Uintah & Ouray Business Committee:  
Curtis Cesspooch, Chairman  
Stewart Pike, Councilman  
Irene Cuch, Councilwoman  
Phillip Chimburas, Councilman  
Frances Poowegup, Vice-Chairwoman  
Richard Jenks, Councilman

Daniel Picard  
BIA - Uintah & Ouray Indian Agency

cc All Enclosures:

Mike Natchees  
Environmental Coordinator  
Ute Indian Tribe

Manual Myore  
Director of Energy & Minerals Dept.  
Ute Indian Tribe

Gil Hunt  
Associate Director  
Utah Division of Oil, Gas, and Mining

Fluid Minerals Engineering Office  
BLM - Vernal Office

Michael Guinn  
District Manager  
Newfield Production Company  
Myton, Utah



**UNITED STATES ENVIRONMENTAL PROTECTION AGENCY**

**REGION 8**  
1595 WYNKOOP STREET  
DENVER, CO 80202-1129  
Phone 800-227-8917  
<http://www.epa.gov/region08>

**AUTHORIZATION FOR ADDITIONAL WELL**

**UIC Area Permit UT20853-00000**

The Lone Tree Final Underground Injection Control (UIC) Area Permit UT20853-00000, effective September 1, 1998, authorizes injection for the purpose of enhanced oil recovery in the Lone Tree Unit. On July 26, 2010, Newfield Production Company notified the Director concerning the following additional enhanced recovery injection well:

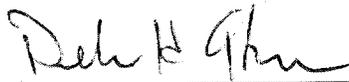
Well Name:	<b>Lone Tree Federal 11-22-9-17</b>
EPA Permit ID Number:	<b>UT20853-08865</b>
Location:	2,055' FSL & 1,813' FWL NESW Sec, 22 T9S-R17E Duchesne County, Utah API #43-013-33308

Pursuant to 40 CFR §144.33, Area UIC Permit UT20853-00000 authorizes the permittee to construct and operate, convert, or plug and abandon additional enhanced recovery injection wells within the area permit. This well was determined to satisfy additional well criteria required by the permit.

This well is subject to all provisions of UIC Area Permit UT20853-00000, as modified and as specified in the Injection Well-Specific Requirements detailed below. This Authorization shall expire one year after the Effective Date unless the permittee has converted the well to injection or submits a written request to extend this Authorization prior to the expiration date.

This Authorization is effective upon signature.

Date: SEP 13 2010

  
\_\_\_\_\_

**Stephen S. Tuber**  
\*Assistant Regional Administrator  
Office of Partnerships and Regulatory Assistance

*\* The person holding this title is referred to as the Director throughout the permit and Authorization*

## **INJECTION WELL-SPECIFIC REQUIREMENTS**

Well Name: **Lone Tree Federal 11-22-9-17**  
EPA Well ID Number: **UT20853-08865**

### **Prior to Commencing Injection Operations, the permittee shall submit the following information:**

1. Completed Well Rework Record (EPA Form No. 7520-12) and schematic diagram;
2. Pore pressure calculation of the proposed injection zone; and
3. Results from a successful part I (internal) Mechanical Integrity test.

Once these records are received and approved by EPA, the Director will provide written authorization to inject.

**Note:** All depths given in this authorization reference the Kelly Bushing datum unless otherwise specified.

**Approved Injection Zone:** The approved injection zone for this well is from the top of Green River Formation, Garden Gulch 2 Member, to the top of the Wasatch Formation. The approved injection zone depth interval for this well is: 3,533 ft. – 5,556 ft.

**Maximum Allowable Injection Pressure (MAIP):** The initial MAIP for this well is **1,250** psig. The initial MAIP is based on the following calculation:

$$\text{MAIP} = [\text{FG} - (0.433)(\text{SG})] * \text{D}, \text{ where}$$
$$\text{FG} = 0.773 \text{ psi/ft.} \quad \text{SG} = 1.015 \quad \text{D} = 4,264 \text{ ft. (top perforation depth)}$$

**Initial MAIP = 1,250 psig**

FG = Fracture Gradient      SG = Specific Gravity of Injectate (Maximum)

The UIC Area Permit provides the opportunity for the permittee to request a change of the initial MAIP based upon the submitted results of a step rate test that demonstrates the formation parting pressure.

**Well Construction: Casing and Cementing:** The well was constructed in compliance with existing regulatory controls for casing and cementing pursuant to 40 CFR § 146.22(c). Cementing records, including the Cement Bond Log (CBL), have satisfactorily demonstrated the presence of adequate Cement Bond Index (CBI) cement to prevent the migration of injection fluids behind the casing from the injection zone. An EPA-annotated wellbore diagram is attached.

**Well Construction: Tubing and Packer:** 2-7/8" or similar size injection tubing is approved. The packer shall be set at a depth no more than 100 ft. above the top perforation.

**Demonstration of Mechanical Integrity:**

- (1) A successful demonstration of Part I (internal) mechanical integrity using a Casing-Tubing Annulus Pressure Test is required prior to injection, and no less than every five years after the last successful test.
- (2) EPA reviewed the cementing records and determined that there is adequate 80% Cement Bond Index (CBI) cement in the well across the entire Confining Zone (Shale "B"). Therefore, no further demonstration of Part II (external) Mechanical Integrity is required.

**Demonstration of Financial Responsibility:** At the time of issuance of this Authorization for Additional Well UIC Permit, the Environmental Protection Agency Region 8 (EPA) has identified deficiencies in Newfield Production Company's (Newfield) Financial Statement submitted on June 10, 2010, as a demonstration of the company's ability to plug and abandon all Newfield injection wells permitted by EPA. EPA's Office of Enforcement, Compliance and Environmental Justice (ECEJ) is taking action to correct any deficiencies. EPA's Office of Partnerships and Regulatory Assistance (OPRA), the division responsible for issuing all UIC permits, has determined that these deficiencies in Financial Responsibility do not represent an imminent endangerment to underground sources of drinking water in the Monument Butte Field and that the issuance of UIC permits to Newfield should continue while ECEJ works with Newfield to correct any deficiencies. In the event that Newfield is unable to return to full compliance on Financial Responsibility within a reasonable period of time, OPRA may stop the issuance of new UIC permits to Newfield until Newfield fully demonstrates Financial Responsibility for all Newfield injection wells currently operating under EPA UIC permits.

**Plugging and Abandonment:** The well shall be plugged in a manner that isolates the injection zone and prevents movement of fluids into or between Underground Sources of Drinking Water (USDW). Tubing, packers, and any downhole apparatus shall be removed. Class A, C, G, and H cements, with additives such as accelerators and retarders that control or enhance cement properties, may be used for plugs; however, volume extending additives and gel cements are not approved for plug use. Plug placement shall be verified by tagging. Plugging gel of at least 9.2 lb/gal shall be placed between all plugs. A minimum 50 ft. surface plug shall be set inside and outside of the surface casing to seal pathways for fluid migration into the subsurface. Within sixty (60) days after plugging the owner or operator shall submit Plugging Record (EPA Form 7520-13) to the Director. The Plugging Record must be certified as accurate and complete by the person responsible for the plugging operation. At a minimum, the following plugs are required:

- Plug No. 1: Set a cast iron bridge plug (CIBP) 50 ft. above the top injection zone perforations (at the time of this authorization, the top perforation is at 4,264 ft.). Set 100 ft. cement plug on top of the CIBP.

- Plug No. 2: Perforate and squeeze cement up the backside of the 5-1/2" casing across the Trona /Bird's Nest interval and the Mahogany Bench oil shale in a 169-foot cement plug from 2,385 ft. to 2,554 ft. unless pre-existing backside cement precludes cement-squeezing this interval. Set a 169-foot cement plug inside the 5-1/2" casing from 2,385 ft. to 2,554 ft.
- Plug No. 3: Perforate and squeeze cement up the backside of the 5-1/2" casing across the contact between the Uinta Formation and Green River Formation at 1,077 ft., in a 120-foot cement plug from 1,017 ft. to 1,137 ft., unless pre-existing backside cement precludes cement-squeezing this interval. Set a minimum 120-foot cement plug inside the 5-1/2" casing from 1,017 ft. to 1,137 ft.
- Plug No. 4: Perforate 5-1/2" casing at 371 ft. and squeeze cement up the 5-1/2"x 8-5/8" casing annulus to the surface, unless pre-existing backside cement precludes cement-squeezing this interval. Set a cement plug within the 5-1/2" casing from a depth of 371 ft. to the surface.

An EPA-annotated wellbore Plugging and Abandonment Plan diagram is attached.

## **INJECTION WELL-SPECIFIC CONSIDERATIONS**

Well Name: **Lone Tree Federal 11-22-9-17**  
EPA Well ID Number: **UT20853-08865**

**Underground Sources of Drinking Water (USDWs):** USDWs in the Greater Boundary Unit generally occur within the Uinta Formation. According to "*Base of Moderately Saline Ground Water in the Uinta Basin, Utah, State of Utah Technical Publication No. 92,*" the base of moderately saline ground water may be found at approximately 885 ft. in this well.

**Utah Division of Water Rights Information:** According to the state website, <http://utstnrwrt6.waterrights.utah.gov/cgi-bin/wrplat.exe>, there are no known reservoirs, streams, domestic or agricultural water wells within one-quarter (1/4) mile of the well.

**Composition of Source, Formation, and Injectate Water:** The Total Dissolved Solids (TDS) content of water produced from the injection zone in the Green River Formation was determined to be 21,250 mg/l on February 19, 2010. Due to nearby injection activities of relatively fresh water for the purpose of enhanced oil recovery, this TDS value is likely not be representative of the original TDS content of formation waters at or near this well.

The TDS content of injectate was determined to be 14,518 mg/l on January 5, 2010. The planned injectate is water from the Newfield Injection Facility and consists of culinary water from the Green River supply line or the Johnson Water District supply line blended with produced Green River Formation water.

**Aquifer Exemption:** The TDS of water samples from the proposed injection formation is greater than 10,000 mg/l. Therefore, an aquifer exemption is not required for this proposed injection well.

**Confining Zone:** The UIC Area Permit established Areal Confining Zone (ACZ) (also known as the Administrative Confining Zone) directly overlies the Garden Gulch Member of the Green River Formation. However, an alternative confining zone beneath the ACZ has also been identified and approved by EPA. The alternative confining zone is referred to as Shale "B".

Shale "B": 3,454 ft. to 3,533 ft. Shale "B" is approximately 79 ft. in thickness. There is 80 percent Cement Bond Index cement across the interval 3,454 ft. to 3,519 ft. in Shale "B". Also, the Permittee proposed in the permit application that the base of Shale "B" (top of the Garden Gulch 2) be used as the bottom of the confining zone (and top of proposed injection zone) instead of the base of the ACZ. EPA is in agreement with that proposal as it represents a more conservative approach in this case. Therefore, EPA has determined that Shale "B" is the alternate confining zone for this well.

**Injection Zone:** The injection zone for this well is in the Green River Formation from the top of Garden Gulch 2 (base of Shale "B") at 3,533 ft., to the top of the Wasatch Formation at an estimated depth of approximately 5,556 ft. Due to the change in the designated confining zone, the injection zone has been limited to an interval from the base of Shale "B", at a depth of

3,533 ft. (top of Garden Gulch 2) to the top of the Wasatch Formation, at an estimated depth of approximately 5,556 ft. The Permittee proposed in the permit application that the injection zone (interval) be lowered to the top of the Garden Gulch #2 (the base of Shale "B") at a depth of 3,533 ft. for this well. EPA is in agreement with that proposal as it represents a more conservative approach in this case. The injection zone at this well location consists of approximately 2,020 ft. of multiple lenticular sand units interbedded with shale, marlstone and limestone from the base of Formation tops are either submitted by the operator or are based on correlations to the Newfield Monument Butte Type Log.

**Well Construction:** The Cement Bond Log (CBL) for this well shows 80% or greater Cement Bond Index (CBI) cement across a 65-foot interval in the confining zone (Shale "B"). EPA Region 8 guidance calls for at least 18-feet of 80 % CBI cement through the confining zone. Therefore, no further demonstration that well cement is adequate to prevent significant migration of injection fluids behind casing is being required.

**Surface Casing:** 8-5/8" casing is set at 321 ft. in a 12-1/4" hole, using 160 sacks of Class "G" Cement, cemented to the surface.

**Longstring Casing:** 5-1/2" casing is set at 5,603 ft. in a 7-7/8" hole secured with 325 sacks of Prem. Lite II cement and 400 sacks of 50/50 POZ cement. Plugged back total depth is 5,501 ft. Cement Bond Log (CBL) shows Top of Cement (TOC) is at 147 ft.

**Perforations:** Top perforation: 4,264 ft. Bottom perforation: 5,164 ft.

Additional information concerning the well may be found on the state website:  
<http://oilgas.ogm.utah.gov/>

**Basis for Initial MAIP Calculation:** The initial MAIP was calculated by EPA using the following input values for the fracture gradient and injectate specific gravity:

**Fracture Gradient:** A fracture gradient value of 0.773 psi/ft. was selected by EPA because it is the most conservative fracture gradient for other nearby wells.

**Specific Gravity:** An injectate specific gravity value of 1.015 was selected by EPA because this value is the maximum expected specific gravity of injectate for this well.

**Well Plugging and Abandonment:** As discussed in the EPA Region 8 guidance, wells should be plugged and abandoned in a manner to prevent migration of fluids in the wellbore into or between USDWs. The four (4) cement plugs required for this well are as follows:

Plug No. 1 is required to prevent migration of fluids out of the injection zone. It is believed that there are no USDWs below Plug No. 1.

Plug No. 2 is required because the interval of the Green River Formation, containing the Bird's Nest and Trona Members, is reported to contain USDWs in places in the Uinta Basin, and the Mahogany Bench Member is an oil shale resource that is also being protected under U.S. Bureau of Land Management (BLM) requirements.

Plug No. 3 is required across the Uinta Formation/Green River Formation contact to prevent flow between USDWs.

Plug No. 4 is required to prevent fluids from migrating from the surface or from below into shallow USDWs.

### **AREA OF REVIEW (AOR) WELL REQUIREMENTS**

The following two (2) AOR wells that penetrate the area confining zone within or proximate to a one-quarter (1/4) mile radius around the Lone Tree Federal 11-22-9-17 well were evaluated to determine if any corrective action is necessary to prevent fluid movement into USDWs:

<b><u>AOR Well</u></b>	<b><u>API Number</u></b>	<b><u>Location</u></b>
<b>Lone Tree Federal 6-22-9-17</b>	43-013-33303	SENE Sec. 22 T9S R17E
<b>Lone Tree Federal 12-22-9-17</b>	43-013-33309	NWSW Sec. 22 T9S R17E

### **No Corrective Action Required for the AOR Wells**

As discussed below, no corrective action is being required for the two (2) AOR wells because the wells are shown to have adequate cement across the Shale "B" confining zone to prevent fluid migration in the wellbores. These points are discussed briefly below for each AOR well:

**Lone Tree Federal 6-22-9-17:** The well is a producing oil well. The CBL shows TOC at 1,054 ft. There is 80 % CBI cement in Shale "B" in the interval 3,488 ft. to 3,550 ft.

**Lone Tree Federal 12-22-9-17:** The well is a producing oil well. The CBL shows TOC at 937 ft. There is 80 % CBI cement in Shale "B" in the interval 3,450 ft. to 3,525 ft.

### **REPORTING REQUIREMENTS**

#### **Reporting of Noncompliance:**

- (a) **Anticipated Noncompliance.** The operator shall give advance notice to the Director of any planned changes in the permitted facility or activity which may result in noncompliance with permit requirements.

- (b) Compliance Schedules. Reports of compliance or noncompliance with, or any progress on, interim and final requirements contained in any compliance schedule of this Permit shall be submitted to EPA for review no later than 30 days following each schedule date.
- (c) Written Notice of any noncompliance which may endanger health or the environment shall be reported to the Director within five days of the time the operator becomes aware of the noncompliance. The written notice shall contain a description of the noncompliance and its cause, the period of noncompliance including dates and times, if the noncompliance has not been corrected the anticipated time it is expected to continue, and steps taken or planned to prevent or reduce recurrence of the noncompliance.

**Twenty-Four Hour Noncompliance Reporting:** The operator shall report to the Director any noncompliance which may endanger health or environment. Information shall be provided, either orally or by leaving a message, within twenty-four (24) hours from the time the operator becomes aware of the circumstances by telephoning 1-(800)-227-8917 and asking for the EPA Region 8 UIC Program Compliance and Enforcement Director, or by contacting the Region 8 Emergency Operations Center at (303)-293-1788, if calling from outside EPA Region 8. The following information shall be included in the verbal report:

- (a) Any monitoring or other information which indicates that any contaminant may cause an endangerment to an underground source of drinking water.
- (b) Any noncompliance with a Permit condition or malfunction of the injection system which may cause fluid migration into or between underground sources of drinking water.

**Oil Spill and Chemical Release Reporting:** The operator shall comply with all other reporting requirements related to oil spills and chemical releases or other potential impacts to human health or the environment by contacting the **National Response Center (NRC)** at: **1-(800)-424-8802 or 1-(202)-267-2675**, or through the NRC website at: <http://www.nrc.uscg.mil/index.htm>

**Other Noncompliance:** The operator shall report all other instances of noncompliance not otherwise reported at the time monitoring reports are submitted.

**Other Information:** Where the operator becomes aware that he failed to submit any relevant facts in the Permit application, or submitted incorrect information in a Permit application, or in any report to the Director, the operator shall submit such correct facts or information within two weeks of the time such information became known.

Tom Aalto, EPA

UT20853-08865

# Lone Tree Federal 11-22-9-17

Spud Date: 11/12/07  
Put on Production: 2/22/08  
GL: 5273' KB: 5285'

### SURFACE CASING

CSG SIZE: 8-5/8"  
GRADE: J-55  
WEIGHT: 24#  
LENGTH: 7 jts. (309.03')  
DEPTH LANDED: 320.88  
HOLE SIZE: 12-1/4"  
CEMENT DATA: 160 sxs Class "G" cmt

### PRODUCTION CASING

CSG SIZE: 5-1/2"  
GRADE: J-55  
WEIGHT: 15.5#  
LENGTH: 130jts. (5603.38')  
HOLE SIZE: 7-7/8"  
TOTAL DEPTH: 5602.83'  
CEMENT DATA: 325 sxs Prem. Lite II mixed & 400 sxs 50/50 POZ.  
CEMENT TOP AT: 157'

### TUBING

SIZE/GRADE/WT.: 2-7/8" / J-55 / 6.5#  
NO. OF JOINTS: 162 jts (5113.87')  
TUBING ANCHOR: 5109.52'  
NO. OF JOINTS: 2 jts (62.85')  
SEATING NIPPLE: 2-7/8" (1 10')  
SN LANDED AT: 5175.17' KB  
NO. OF JOINTS: 2 jts (63.10')  
TOTAL STRING LENGTH: EOT @ 5239.82' w/12' KB

80% CBI  
Cement  
3,454' - 3,519'  
(shaded area)

\* USDW base estimated  
from State of Utah  
Technical Publication  
No. 92.

### Proposed Injection Wellbore Diagram

Cement Top @ 157'  
Casing shoe @ 321'

### FRAC JOB

2/13/08 5146'-5164''

Frac CP3 sands as follows:  
Frac with 79912# 20/40 sand in 638bbbls  
Lightning 17 fluid. Treat at ave pressure  
of 2078 psi @ 23.3 BPM. ISIP 2055 psi.

2/13/08 5040'-5046''

Frac CP1 sands as follows:  
Frac with 19648# 20/40 sand in 315 bbls  
Lightning 17 fluid. Treat at ave pressure  
of 2304psi @ 23.3 BPM. ISIP 2122psi.

2/14/08 4604'-4619''

Frac A1 sands as follows:  
Frac with 39873# 20/40 sand in 424  
bbls Lightning 17 fluid. Treat at ave  
pressure of 1478psi @ 23.3 BPM. ISIP  
1679 psi.

2/14/08 4264'-4276''

Frac D2 sand as follows:  
Frac with 67666# 20/40 sand in 578  
bbls Lightning 17 fluid. Treat at ave  
pressure of 1628 psi @ 23.5 BPM. ISIP  
1670 psi.

4/22/09

Cement Repair. Updated r & t details.

- 885' USDW Base\* (est.)
- 1,077' Green River Fm. (est.)
- 2,435' Trona
- 2,468' Mahogany Bench Top
- 2,504' Mahogany Bench Base
- 3,234' Garden Gulch Mkr.
- 3,454' Shale "B"
- 3,519'
- 3,533' Garden Gulch 2
- 4,185' Douglas Creek Mkr.

Packer @ 4214'  
4264'-4276''

4604'-4619''

- 5,010' Castle Peak

5040'-5046''

5146'-5164''

- 5,416' Basal Carbonate

- 5,556' Wasatch Fm.

PBTD @ 5558'

SHOE @ 5603'

### PERFORATION RECORD

4264-4276'	4 JSPF	48 holes
4604-4619'	4 JSPF	60 holes
5040-5046'	4 JSPF	24 holes
5146-5164'	4 JSPF	72 holes

### NEWFIELD



Lone Tree Federal 11-22-9-17  
2055' FSL & 1813' FWL  
NESW Section 22-T9S-R17E  
Duchesne Co, Utah  
API #43-013-33308; Lease #UTU-13905

UT20853-08865

Tom Aalto, EPA  
NEA

# Lone Tree Federal 11-22-9-17

Spud Date: 11/12/07  
Put on Production: 2/22/08  
GL: 5273' KB: 5285'

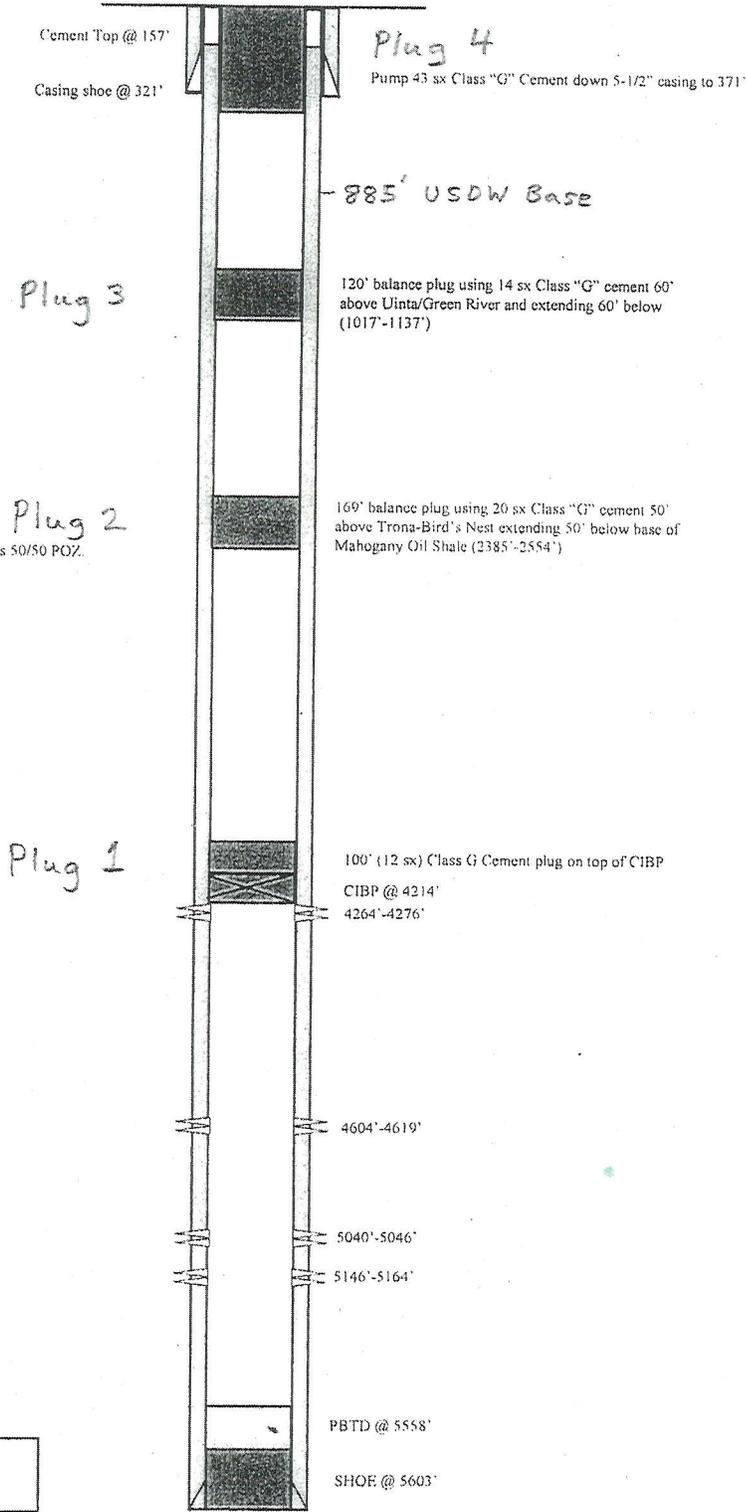
## SURFACE CASING

CSG SIZE: 8-5/8"  
GRADE: J-55  
WEIGHT: 24#  
LENGTH: 7 jts. (309.03')  
DEPTH LANDED: 320.88  
HOLE SIZE: 12-1/4"  
CEMENT DATA: 160 sxs Class "G" cmt

## PRODUCTION CASING

CSG SIZE: 5-1/2"  
GRADE: J-55  
WEIGHT: 15.5#  
LENGTH: 130jts. (5603.38')  
HOLE SIZE: 7-7/8"  
TOTAL DEPTH: 5602.83'  
CEMENT DATA: 325 sxs Prem. Lite II mixed & 400 sxs 50/50 POZ.  
CEMENT TOP AT: 157'

## Proposed P & A Wellbore Diagram




<p><b>Lone Tree Federal 11-22-9-17</b> 2055' FSL &amp; 1813' FWL NE:SW Section 22-T9S-R17E Duchesne Co. Utah API #43-013-33308; Lease #UTU-13905</p>



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
REGION 8

1595 Wynkoop Street  
DENVER, CO 80202-1129  
Phone 800-227-8917  
<http://www.epa.gov/region08>

**RECEIVED**

**APR 26 2012**

Ref: 8P-W-UIC

APR 13 2012

**CERTIFIED MAIL**  
**RETURN RECEIPT REQUESTED**

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

Mr. Eric Sundberg  
Regulatory Analyst  
Newfield Production Company  
1001 Seventeenth Street – Suite 2000  
Denver, Colorado 80202

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

RE: Underground Injection Control (UIC)  
Additional Well to Lone Tree Area Permit  
EPA UIC Permit UT20853-09508  
Well: Lone Tree Federal 11-22-9-17  
NESW Sec. 22 T9S-R17E  
Duchesne County, Utah  
API No.: 43-013-~~333~~08

Dear Mr. Sundberg:

The U.S. Environmental Protection Agency Region 8 hereby authorizes Newfield Production Company (Newfield) to convert the oil well Lone Tree Federal 11-22-9-17 to an enhanced recovery injection well according to the terms and conditions of the enclosed Authorization for Additional Well. The addition of this injection well, within the exterior boundary of the Uintah & Ouray Indian Reservation, is being made under the authority of 40 CFR §144.33 (c) and terms of the Lone Tree Area Permit No. UT20853-00000 and subsequent modifications.

Please be aware that Newfield does not have authorization to begin well injection until all Prior to Commencing Injection requirements are met and written authorization to inject is given by the Director. Prior to receiving authorization to inject, Newfield must submit for review and approval (1) the results of a Part I (internal) Mechanical Integrity test, (2) a pore pressure calculation of the injection interval and (3) a completed EPA Form No. 7520-12 (Well Rework Record) with a new schematic diagram.

If you have any questions, please call Bob Near at (303) 312-6278 or (800) 227-8917, extension 312-6278. Please submit the required data to Jason Deardorff at the letterhead address citing mail code 8P-W-UIC.

Sincerely,



for Callie A. Videtich  
Acting Assistant Regional Administrator  
Office of Partnerships and Regulatory Assistance

Enclosures: Authorization for Additional Well  
Wellbore Schematic for Lone Tree Federal 11-22-9-17

cc: Letter Only:

Uintah & Ouray Business Committee:  
Irene Cuch, Chairman  
Ronald Wopsock, Vice-Chairman  
Frances Poowegup, Councilwoman  
Phillip Chimburas, Councilman  
Stewart Pike, Councilman  
Richard Jenks, Jr., Councilman

Daniel Picard  
BIA - Uintah & Ouray Indian Agency

cc: All Enclosures:

Mike Natchees  
Environmental Coordinator  
Ute Indian Tribe

Manual Myore  
Director of Energy & Minerals Dept.  
Ute Indian Tribe

Brad Hill  
Acting Associate Director  
Utah Division of Oil, Gas, and Mining

Fluid Minerals Engineering Office  
BLM - Vernal Office

Reed Durfey  
District Manager  
Newfield Production Company  
Myton, Utah

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

REGION 8

1595 WYNKOOP STREET

DENVER, CO 80202-1129

Phone 800-227-8917

http://www.epa.gov/region08

AUTHORIZATION FOR ADDITIONAL WELL

**UIC Area Permit UT20853-00000**

The Lone Tree UIC Area Permit UT20853-00000, effective September 1, 1998 authorizes injection for the purpose of enhanced oil recovery in the Monument Butte Field. On February 17, 2012, Newfield Production Company notified the Director concerning the following additional enhanced recovery injection well:

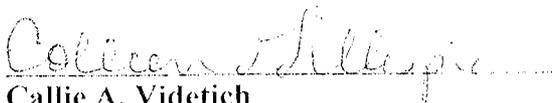
Well Name:	<b>Lone Tree Federal 11-22-9-17</b>
EPA Permit ID Number:	<b>UT20853-09508</b>
Location:	2055' FSL & 1813' FWL NESW Sec. 22-T9S-R17E Duchesne County, Utah API #43-013-33308

Pursuant to 40 CFR §144.33, Area UIC Permit UT20853-00000 authorizes the permittee to construct and operate, convert, or plug and abandon additional enhanced recovery injection wells within the area permit. This well was determined to satisfy additional well criteria required by the permit.

This well is subject to all provisions of UIC Area Permit No. UT20853-00000, as modified and as specified in the Injection Well-Specific Requirements detailed below. This Authorization shall expire one year after the Effective Date unless the permittee has converted the well to injection or submits a written request to extend this Authorization prior to the expiration date.

This Authorization is effective upon signature.

Date: 4/11/12

  
**Callie A. Videtich**  
 \*Acting Assistant Regional Administrator  
 Office of Partnerships and Regulatory Assistance

*\* The person holding this title is referred to as the Director throughout the permit and Authorization*

## INJECTION WELL-SPECIFIC REQUIREMENTS

Well Name: Lone Tree Federal 11-22-9-17

EPA Well ID Number: UT20853-09508

### Prior to Commencing Injection Operations, the permittee shall submit the following information:

1. Completed Well Rework Record (EPA Form No. 7520-12) and schematic diagram;
2. Pore pressure calculation of the proposed injection zone;
3. Results from a successful part I (internal) Mechanical Integrity test.

Once these records are received and approved by EPA, the Director will provide written authorization to inject.

**Note:** All depths given in this authorization reference the Kelly Bushing datum unless otherwise specified.

**Approved Injection Interval:** The injection interval is the part of the injection zone where fluids are directly emplaced. The approved injection interval for this well is from the top of the Garden Gulch Sand #2 to the top of the Wasatch Formation. Additional injection perforations may be added provided that they remain within the approved injection interval. Injection between the outermost casing protecting USDWs and the well bore is prohibited.

**Maximum Allowable Injection Pressure (MAIP):** The initial MAIP is **1,420 psig**, based on the calculation  $MAIP = [FG - (0.433)(SG)] * D$ , where "FG" is the fracture gradient, "SG" is the specific gravity of injectate and "D" is the Kelly Bushing depth to the shallowest casing perforation. For this well, FG is 0.773 psi/ft, SG is 1.015 and D is 4,264 ft.

UIC Area Permit No. UT20853-00000 provides the opportunity for the permittee to request a change of the MAIP based upon the submitted results of a step rate test that demonstrates the formation parting pressure.

**Well Construction: Casing and Cementing:** The well was constructed in compliance with existing regulatory controls for casing and cementing pursuant to 40 CFR § 146.22(c). Cementing records, including the cement bond log, have satisfactorily demonstrated the presence of adequate cement to prevent the migration of injection fluids behind the casing from the injection zone.

**Well Construction: Tubing and Packer:** 2-7/8" or similar size injection tubing is approved. The packer shall be set at a depth no more than 100 ft. above the top perforation.

### Demonstration of Mechanical Integrity:

- (1) A successful demonstration of part I (internal) mechanical integrity using a Casing-Tubing Annulus Pressure Test is required prior to injection, and no less than every five years after the last successful test.

*Authorization for Additional Well: UIC Area Permit UT20853-00000*

*Well: Lone Tree Federal 11-22-9-17 EPA Well ID: UT20853-09508*

- (2) EPA reviewed the cementing records and determined the cement will provide an effective barrier to significant upward movement of fluids through vertical channels adjacent to the well bore pursuant to 40 CFR §146.8 (a)(2). Therefore, further demonstration of Part II (external) Mechanical Integrity is not required at this time.

**Demonstration of Financial Responsibility:** The applicant has demonstrated financial responsibility by a Surety Bond in the amount of \$42,000 and a Standby Trust Agreement that have been approved by EPA. The Director may revise the amount required and may require the permittee to obtain and provide updated estimates of costs for plugging the well according to the approved Plugging and Abandonment plan.

**Plugging and Abandonment:** The well shall be plugged in a manner that isolates the injection zone and prevents movement of fluids into or between Underground Sources of Drinking Water (USDW). Tubing, packers, and any downhole apparatus shall be removed. Class A, C, G, and H cements, with additives such as accelerators and retarders that control or enhance cement properties, may be used for plugs; however, volume extending additives and gel cements are not approved for plug use. Plug placement shall be verified by tagging. Plugging gel of at least 9.2 lb/gal shall be placed between all plugs. A minimum 50 ft. surface plug shall be set inside and outside of the surface casing to seal pathways for fluid migration into the subsurface. Within sixty (60) days after plugging the owner or operator shall submit Plugging Record (EPA Form 7520-13) to the Director. The Plugging Record must be certified as accurate and complete by the person responsible for the plugging operation. At a minimum, the following plugs are required:

- (1) Isolate the injection zone: Remove down hole apparatus from the well and perform necessary clean out; displace well fluid with plugging gel. Set a cast iron bridge plug (CIBP) within the innermost casing string no more than 50 ft. above the top perforation with a minimum of 20 ft. cement plug on top of the CIBP.
- (2) Isolate the Trona-Bird's Nest water zone and Mahogany Oil Shale: Perforate and squeeze cement up the backside of the outermost casing string across the Mahogany Oil Shale and Trona-Bird's Nest water zone, from at least 55 ft. above the top of the Trona-Bird's Nest to at least 55 ft. below the base of Mahogany Oil Shale, unless there is existing cement across this interval.
- (3) Isolate the Uinta Formation from the Green River Formation: Perforate and squeeze a minimum of 110 ft. cement up the backside of the outermost casing string to isolate the contact between the Uinta Formation and the Green River Formation, unless there is existing cement across this interval. Set a minimum 110 ft. cement plug in the innermost casing string, centered on the contact between the Green River Formation and Uinta Formation.
- (4) Isolate Surface Fluid Migration Paths:

- a. If the depth of the lowermost USDW is above the base of surface casing, perforate the outermost casing string 50 ft. below the base of surface casing and circulate cement to the surface, unless there is existing cement across this interval; OR
- b. If the depth of the lowermost USDW is below the base of surface casing, perforate the outermost casing string 50 ft. below the base of the lowermost USDW and circulate cement to surface; AND
- c. Set a cement plug inside the innermost casing string from 50 ft. below the base of the surface casing to surface.

### **INJECTION WELL-SPECIFIC CONSIDERATIONS**

Well Name: **Lone Tree Federal 11-22-9-17**  
EPA Well ID Number: **UT20853-09508**

**Underground Sources of Drinking Water (USDWs):** USDWs in the Lone Tree Area Permit generally occur within the Uinta Formation. According to "*Base of Moderately Saline Ground Water in the Uinta Basin, Utah, State of Utah Technical Publication No. 92.*" the base of moderately saline ground water may be found at approximately 773 ft. below ground surface in the Lone Tree Federal 11-22-9-17 well. Water samples from the Green River Formation taken in conjunction with oil production show that USDWs do occur at deeper depths within the Humpback unit and as deep as 6,026 ft. in the Balcron Monument Federal 33-25-8-17 well. Freshening of the injection zone due to the injection of relatively fresh water for the purpose of enhanced oil recovery has been demonstrated to be occurring in parts of the Monument Butte Field, including this permit area.

**http:NRWRT1.NR.STATE.UT.US:** According to the state of Utah, any water wells present within the permit area are shallow and do not intersect the injection zone.

**Composition of Source, Formation, and Injectate Water:** A water sample analysis was not required as part of the application to add this well to the area permit because EPA considers the water quality of the injection zone to be well documented. Area UIC Permit UT20771-00000 and Statement of Basis describe originally in place formation fluid within the injection zone to be greater than 10,000 mg/l Total Dissolved Solids (TDS) content. However, due to injection of relatively fresh water for the purpose of enhanced oil recovery within the permit area, produced water samples showing TDS values less than 10,000 mg/l have occurred and this occurrence has been observed to increase in frequency with time. Newfield has demonstrated and EPA has confirmed that freshening of the injection zone is occurring and that more recent water samples showing TDS values less than 10,000 mg/l are not likely representative of the original formation fluid at or near this well. EPA considers the presence of waters less than 10,000 mg/l within the injection zone to be a temporary, artificial condition and therefore does not require an aquifer exemption to allow injection to occur.

The injectate is water from a Monument Butte Field Injection Facility and consists of culinary water from the Johnson Water District and/or water from the Green River, blended with produced Green River Formation water and resulting in TDS content less than 10,000 mg/l.

**Confining Zone:** A *Confining Zone* is a geological formation, group of formations, or part of a formation that is capable of limiting fluid movement above an injection zone. The designated Confining Zone for this well consists of three interbedded, thick impervious shales, confining marlstones and siltstones. The Confining Zone extends from approximately 200 feet above the Garden Gulch Marker to the top of the Garden Gulch Number 2 Sand within the Garden Gulch Member of the Green River Formation. This interval is found between the depths of 3,970 feet to 4,466 feet in the Federal 1-26-8-17 Type Gamma Log for the Monument Butte Field.

**Injection Zone:** An *injection zone* is a geological formation, group of formations, or part of a formation that receives fluids through a well. The Injection Zone for this well consists of the lower part of the Garden Gulch member starting at the top of the Garden Gulch #2 Sand and includes the Douglas Creek and Basal Carbonate members of the Green River Formation to the top of the Wasatch Formation.

**Well Construction:** according to BLM requirements and controls for production wells at the time of well completion. EPA has reviewed and approved the construction and determined that it is adequate to protect USDWs.

Surface Casing: 8-5/8" casing is set at 321 ft. in a 12-1/4" hole, using 160 sacks Class "G" cement, cemented to the surface.

Longstring Casing: 5-1/2" casing is set at 5,603 ft. in a 7-7/8" hole secured with 725 sacks of cement. Total driller depth is 5,603 ft. Plugged back total depth is 5,558 ft. EPA calculates top of cement at 904 ft. Estimated CBI top of cement is 157 ft.

Perforations: Top perforation: 4,264 ft. Bottom perforation: 5,164 ft.

## **AREA OF REVIEW (AOR) WELL REQUIREMENTS**

The following two wells that penetrate the confining zone within or proximate to a 1/4-mile radius around the Lone Tree Federal 11-22-9-17 well were evaluated to determine if any corrective action is necessary to prevent fluid movement into USDWs:

Lone Tree Federal 6-22-9-17      API: 43-013-33303      SENW Sec. 22-T9S-R17E  
This well has adequate Cement Bond Index and shows the top of cement to be above the base of the Confining Zone

Lone Tree Federal 12-22-9-17      API: 43-013-33309      NWSW Sec. 22-T9S-R17E  
This well has adequate Cement Bond Index and shows the top of cement to be above the base of the Confining Zone.

Authorization for Additional Well: UIC Area Permit UT20853-00000  
Well: Lone Tree Federal 11-22-9-17 EPA Well ID: UT20853-09508

**No Corrective Action Required on AOR wells:** EPA reviewed all wells penetrating the Confining Zone within a ¼-mile radius of the proposed injection well and determined that cement in these wells is adequate to prevent the movement of fluid into USDWs. Top of cement is above the base of the Confining Zone in all AOR wells.

**Reporting of Noncompliance:**

- 1) Anticipated Noncompliance. The operator shall give advance notice to the Director of any planned changes in the permitted facility or activity which may result in noncompliance with permit requirements.
- 2) Compliance Schedules. Reports of compliance or noncompliance with, or any progress on, interim and final requirements contained in any compliance schedule of this Permit shall be submitted no later than 30 days following each schedule date.
- 3) (Written Notice of any noncompliance which may endanger health or the environment shall be reported to the Director within five days of the time the operator becomes aware of the noncompliance. The written notice shall contain a description of the noncompliance and its cause, the period of noncompliance including dates and times, if the noncompliance has not been corrected the anticipated time it is expected to continue, and steps taken or planned to prevent or reduce recurrence of the noncompliance.

**Twenty-Four Hour Noncompliance Reporting:** The operator shall report to the Director any noncompliance which may endanger health or environment. Information shall be provided, either orally or by leaving a message, within twenty-four (24) hours from the time the operator becomes aware of the circumstances by telephoning 1-(800)-227-8917 and asking for the EPA Region 8 UIC Program Compliance and Enforcement Director, or by contacting the Region 8 Emergency Operations Center at (303)-293-1788, if calling from outside EPA Region 8. The following information shall be included in the verbal report:

- 1) Any monitoring or other information which indicates that any contaminant may cause an endangerment to an underground source of drinking water.
- 2) Any noncompliance with a Permit condition or malfunction of the injection system which may cause fluid migration into or between underground sources of drinking water.

**Oil Spill and Chemical Release Reporting:** The operator shall comply with all other reporting requirements related to oil spills and chemical releases or other potential impacts to human health or the environment by contacting the **National Response Center (NRC) 1-(800)-424-8802 or 1-(202)-267-2675**, or through the **NRC website at <http://www.nrc.uscg.mil/index.htm>**

**Other Noncompliance:** The operator shall report all other instances of noncompliance not otherwise reported at the time monitoring reports are submitted.

**Other Information:** Where the operator becomes aware that he failed to submit any relevant facts in the Permit application, or submitted incorrect information in a Permit application, or in any report to the Director, the operator shall submit such correct facts or information within two weeks of the time such information became known.

# Lone Tree Federal 11-22-9-17

Spud Date: 11/12/07  
 Put on Production: 2/22/08  
 GI.: 5273' KB: 5285'

## SURFACE CASING

CSG SIZE: 8-5/8"  
 GRADE: J-55  
 WEIGHT: 24#  
 LENGTH: 7 jts. (309.03')  
 DEPTH LANDED: 320.88  
 HOLE SIZE: 12-1/4"  
 CEMENT DATA: 160 sxs Class "G" cement

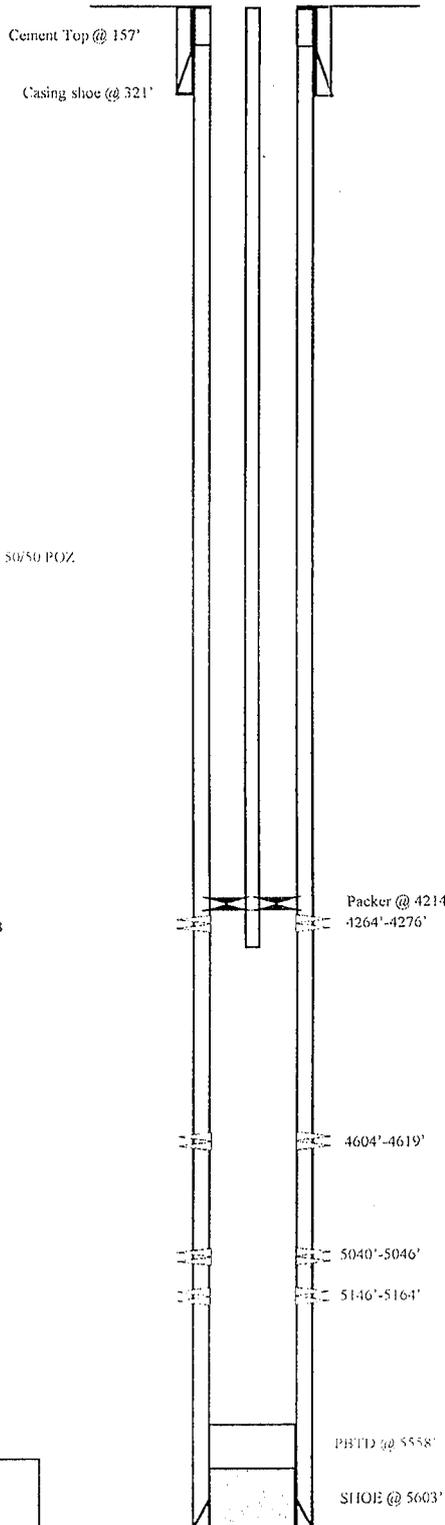
## PRODUCTION CASING

CSG SIZE: 5-1/2"  
 GRADE: J-55  
 WEIGHT: 15.5#  
 LENGTH: 130jts (5603.38')  
 HOLE SIZE: 7-7/8"  
 TOTAL DEPTH: 5602.83'  
 CEMENT DATA: 325 sxs Prem. Lite II mixed & 400 sxs 50/50 POZ.  
 CEMENT TOP AT: 157'

## TUBING

SIZE/GRADE/WT.: 2-7/8" / J-55 / 6.5#  
 NO. OF JOINTS: 162 jts (5113.87')  
 TUBING ANCHOR: 5109.52'  
 NO. OF JOINTS: 2 jts (62.85')  
 SEATING NIPPLE: 2-7/8" (1.10')  
 SN LANDED AT: 5175.17' KB  
 NO. OF JOINTS: 2 jts (63.10')  
 TOTAL STRING LENGTH: ROT @ 5239.82' w/12' KB

## Proposed Injection Wellbore Diagram



## FRAC JOB

Date	Interval	Description
2/13/08	5146'-5164'	Frac CP3 sands as follows: Frac with 79912# 20/40 sand in 638bbbls Lightning 17 fluid. Treat at ave pressure of 2078 psi @ 23.3 BPM. ISIP 2055 psi
2/13/08	5040'-5046'	Frac CP1 sands as follows: Frac with 19648# 20/40 sand in 315 bbbls Lightning 17 fluid. Treat at ave pressure of 2304psi @ 23.3 BPM. ISIP 2122psi.
2/14/08	4604'-4619'	Frac A1 sands as follows: Frac with 39873# 20/40 sand in 424 bbbls Lightning 17 fluid. Treat at ave pressure of 1478psi @ 23.3 BPM. ISIP 1679 psi.
2/14/08	4264'-4276'	Frac D2 sand as follows: Frac with 67666# 20/40 sand in 578 bbbls Lightning 17 fluid. Treat at ave pressure of 1628 psi @ 23.5 BPM. ISIP 1670 psi.
4/22/09		Cement Repair. Updated r & t details.

## PERFORATION RECORD

Interval	JSPP	Holes
4264-4276'	4 JSPP	48 holes
4604-4619'	4 JSPP	60 holes
5040-5046'	4 JSPP	24 holes
5146-5164'	4 JSPP	72 holes

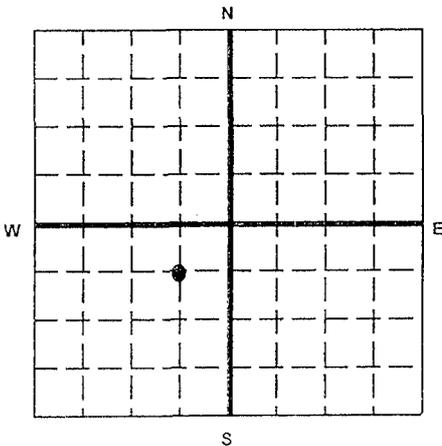


**Lone Tree Federal 11-22-9-17**  
 2055' FSL & 1813' FWL  
 N1/4 Section 22-T9S-R17E  
 Duchesne Co, Utah  
 API #43-013-33308; Lease #UTU-13905

United States Environmental Protection Agency  
Washington, DC 20460

## PLUGGING AND ABANDONMENT PLAN

<b>Name and Address of Facility</b> Lone Tree Federal #11-22-9-17 Duchesne County, Utah	<b>Name and Address of Owner/Operator</b> Newfield Production Company 1001 17th Street, Suite 2000, Denver, CO 80202
---	--

<b>Locate Well and Outline Unit on Section Plat - 640 Acres</b>  	<b>State</b> Utah	<b>County</b> Duchesne	<b>Permit Number</b> 43-013-33308
<b>Surface Location Description</b> 1/4 of ___ 1/4 of <u>NE</u> 1/4 of <u>SW</u> 1/4 of Section <u>22</u> Township <u>9S</u> Range <u>17E</u>			
Locate well in two directions from nearest lines of quarter section and drilling unit Surface 2055' FSL x 1813' FWL Location ___ ft. frm (N/S) ___ Line of quarter section and ___ ft. from (E/W) ___ Line of quarter section.			
<b>TYPE OF AUTHORIZATION</b> <input type="checkbox"/> Individual Permit <input checked="" type="checkbox"/> Area Permit (Lone Tree UT20853-00000) <input type="checkbox"/> Rule  Number of Wells <u>40</u>		<b>WELL ACTIVITY</b> <input type="checkbox"/> CLASS I <input checked="" type="checkbox"/> CLASS II <input type="checkbox"/> Brine Disposal <input checked="" type="checkbox"/> Enhanced Recovery <input type="checkbox"/> Hydrocarbon Storage <input type="checkbox"/> CLASS III	
Lease Name Lone Tree Federal		Well Number 11-22-9-17	

CASING AND TUBING RECORD AFTER PLUGGING					METHOD OF EMPLACEMENT OF CEMENT PLUGS	
SIZE	WT (LB/FT)	TO BE PUT IN WELL (FT)	TO BE LEFT IN WELL (FT)	HOLE SIZE	<input checked="" type="checkbox"/> The Balance Method <input type="checkbox"/> The Dump Bailer Method <input type="checkbox"/> The Two-Plug Method <input type="checkbox"/> Other	
8-5/8"	24	321	321	12-1/4"		
5-1/2"	15.5	5603	5603	7-7/8"		

CEMENTING TO PLUG AND ABANDON DATA:				PLUG #1	PLUG #2	PLUG #3	PLUG #4	PLUG #5	PLUG #6	PLUG #7
Size of Hole or Pipe in which Plug Will Be Placed (inche)				5-1/2"	5-1/2"	5-1/2"	5-1/2"			
Depth to Bottom of Tubing or Drill Pipe (ft)				5603	5603	5603	5603			
Sacks of Cement To Be Used (each plug)				12	20	14	43			
Slurry Volume To Be Pumped (cu. ft.)										
Calculated Top of Plug (ft.)				4104	2385	1017	Surface			
Measured Top of Plug (if tagged ft.)										
Slurry Wt. (Lb./Gal.)				15.8	15.8	15.8	15.8			
Type Cement or Other Material (Class III)				Class G	Class G	Class G	Class G			

LIST ALL OPEN HOLE AND/OR PERFORATED INTERVALS AND INTERVALS WHERE CASING WILL BE VARIED (if any)			
From	To	From	To
No open holes			

Estimated Cost to Plug Wells  
\$42,000.

**Certification**

I certify under the penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment. (Ref. 40 CFR 144.32)

<b>Name and Official Title (Please type or print)</b> Eric Sundberg / Regulatory Lead	<b>Signature</b> 	<b>Date Signed</b> 02/17/2012
--	--	----------------------------------

# Lone Tree Federal 11-22-9-17

Spud Date: 11/12/07  
 Put on Production: 2/22/08  
 GL: 5273' KB: 5285'

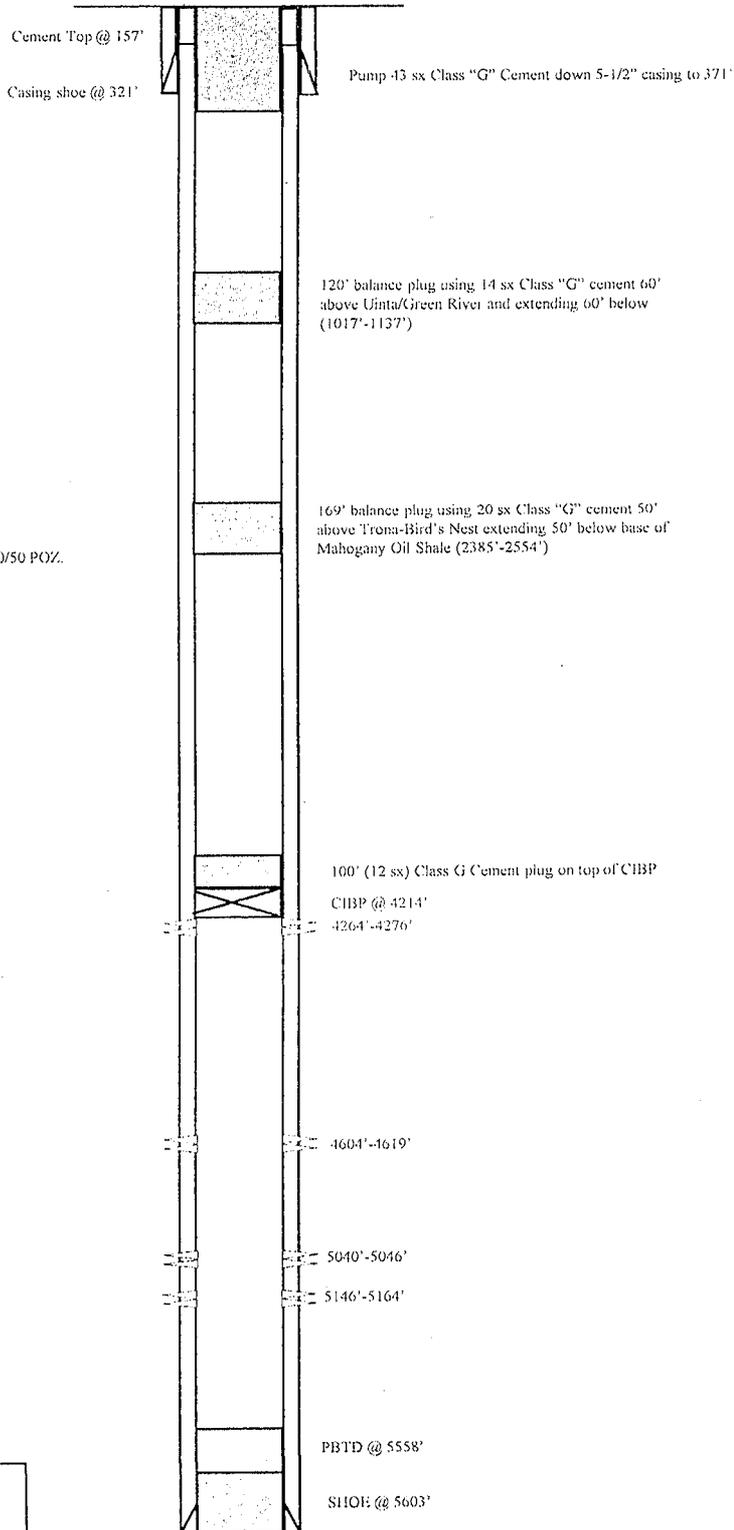
## SURFACE CASING

CSG SIZE: 8-5/8"  
 GRADE: J-55  
 WEIGHT: 24#  
 LENGTH: 7 jts. (309.03')  
 DEPTH LANDED: 320.88  
 HOLE SIZE: 12-1/4"  
 CEMENT DATA: 160 sxs Class "G" cement

## PRODUCTION CASING

CSG SIZE: 5-1/2"  
 GRADE: J-55  
 WEIGHT: 15.5#  
 LENGTH: 130jts. (5603.38')  
 HOLE SIZE: 7-7/8"  
 TOTAL DEPTH: 5602.83'  
 CEMENT DATA: 325 sxs Prem. Lite II mixed & 400 sxs 50/50 POZ.  
 CEMENT TOP AT: 157'

## Proposed P & A Wellbore Diagram



**Lone Tree Federal 11-22-9-17**  
 2055' FSL & 1813' FWL  
 N3SW Section 22-T9S-R17E  
 Duchesne Co, Utah  
 API #43-013-33308; Lease #UTU-13905

<b>STATE OF UTAH</b> DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		FORM 9
<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>1. TYPE OF WELL</b> Oil Well		<b>7. UNIT or CA AGREEMENT NAME:</b> GMBU (GRRV)
<b>2. NAME OF OPERATOR:</b> NEWFIELD PRODUCTION COMPANY		<b>8. WELL NAME and NUMBER:</b> LONE TREE FED 11-22-9-17
<b>3. ADDRESS OF OPERATOR:</b> Rt 3 Box 3630 , Myton, UT, 84052		<b>9. API NUMBER:</b> 43013333080000
<b>PHONE NUMBER:</b> 435 646-4825 Ext		<b>9. FIELD and POOL or WILDCAT:</b> MONUMENT BUTTE
<b>4. LOCATION OF WELL</b> <b>FOOTAGES AT SURFACE:</b> 2055 FSL 1813 FWL <b>QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:</b> Qtr/Qtr: NESW Section: 22 Township: 09.0S Range: 17.0E Meridian: S		<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 type="checkbox"/> NOTICE OF INTENT Approximate date work will start:	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> CASING REPAIR
<input checked="" type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion: 5/17/2012	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> CHANGE WELL NAME
<input type="checkbox"/> SPUD REPORT Date of Spud:	<input checked="" type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input checked="" type="checkbox"/> CONVERT WELL TYPE
<input type="checkbox"/> DRILLING REPORT 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 type="checkbox"/> APD EXTENSION
	<input type="checkbox"/> WILDCAT WELL DETERMINATION	<input type="checkbox"/> OTHER	OTHER: <input style="width: 100px;" type="text"/>

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

The subject well has been converted from a producing oil well to an injection well on 05/16/2012. New interval added: 5110-5113' 3JSPF.  
On 05/09/2012 Jason Deardorff with the EPA was contacted concerning the initial MIT on the above listed well. On 05/17/2012 the casing was pressured up to 1740 psig and charted for 30 minutes with no pressure loss. The well was not injecting during the test. The tubing pressure was 0 psig during the test. There was not an EPA representative available to witness the test. EPA# UT20853-09508

**Accepted by the  
Utah Division of  
Oil, Gas and Mining  
FOR RECORD ONLY  
June 04, 2012**

<b>NAME (PLEASE PRINT)</b> Lucy Chavez-Naupoto	<b>PHONE NUMBER</b> 435 646-4874	<b>TITLE</b> Water Services Technician
<b>SIGNATURE</b> N/A	<b>DATE</b> 5/29/2012	

## Mechanical Integrity Test Casing or Annulus Pressure Mechanical Integrity Test

U.S. Environmental Protection Agency  
Underground Injection Control Program  
999 18<sup>th</sup> Street, Suite 500 Denver, CO 80202-2466

EPA Witness: \_\_\_\_\_ Date: 5/17/2012  
 Test conducted by: Cody Marx  
 Others present: \_\_\_\_\_

Well Name: <u>Lone Tree Federal 11-22-9-17</u>	Type: ER SWD	Status: AC TA UC
Field: <u>Monument Butte</u>		
Location: <u>NE/SW</u> Sec: <u>22</u> T <u>9</u> N/(S) R <u>17</u> E/W	County: <u>Duchesne</u>	State: <u>Ut.</u>
Operator: <u>Cody Marx</u>		
Last MIT: <u>/ /</u>	Maximum Allowable Pressure: _____	PSIG

Is this a regularly scheduled test?  Yes  No  
 Initial test for permit?  Yes  No  
 Test after well rework?  Yes  No  
 Well injecting during test?  Yes  No      If Yes, rate: \_\_\_\_\_ bpd

Pre-test casing/tubing annulus pressure: 1740 psig

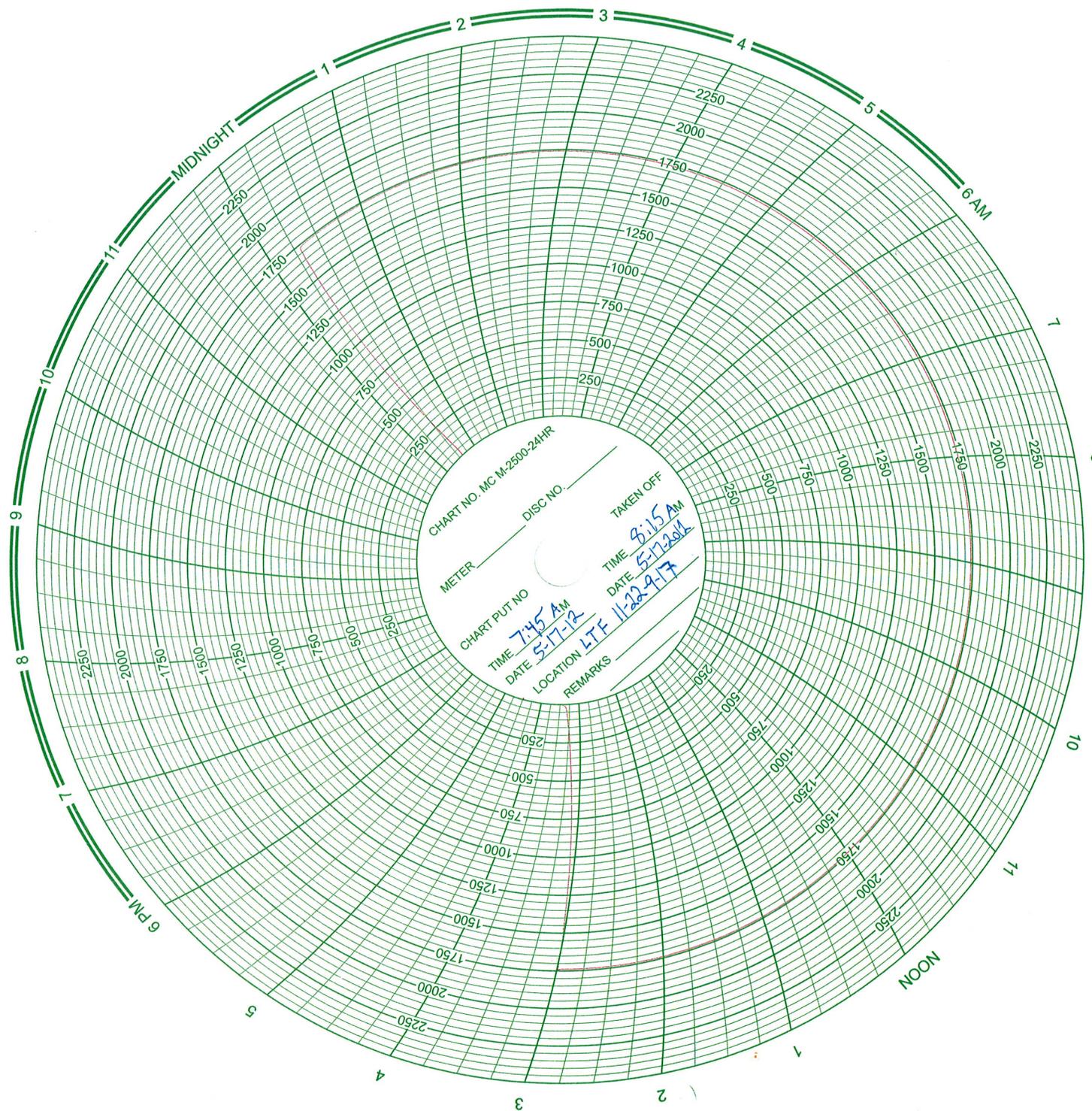
MIT DATA TABLE	Test #1	Test #2	Test #3
<b>TUBING PRESSURE</b>			
Initial Pressure	<u>0</u> psig	psig	psig
End of test pressure	<u>0</u> psig	psig	psig
<b>CASING / TUBING ANNULUS PRESSURE</b>			
0 minutes	<u>1740</u> psig	psig	psig
5 minutes	<u>1740</u> psig	psig	psig
10 minutes	<u>1740</u> psig	psig	psig
15 minutes	<u>1740</u> psig	psig	psig
20 minutes	<u>1740</u> psig	psig	psig
25 minutes	<u>1740</u> psig	psig	psig
30 minutes	<u>1740</u> psig	psig	psig
_____ minutes	psig	psig	psig
_____ minutes	psig	psig	psig
<b>RESULT</b>	<input checked="" type="checkbox"/> Pass <input type="checkbox"/> Fail	<input type="checkbox"/> Pass <input type="checkbox"/> Fail	<input type="checkbox"/> Pass <input type="checkbox"/> Fail

Does the annulus pressure build back up after the test?  Yes  No

### MECHANICAL INTEGRITY PRESSURE TEST

Additional comments for mechanical integrity pressure test, such as volume of fluid added to annulus and bled back at end of test, reason for failing test (casing head leak, tubing leak, other), etc.:

Signature of Witness: \_\_\_\_\_



## Daily Activity Report

Format For Sundry

LONETREE 11-22-9-17

3/1/2012 To 7/30/2012

**5/9/2012 Day: 1**

**Conversion**

NC #2 on 5/9/2012 - MIRUSU - Move From The LTF 13-24-9-16 To The LTF 11-22-9-17, Spot In Rig, Rig Maintenance, Wait For Benco, CSDFN @ 7:00 PM, 7:00 To 7:30 PM C/Trvl.

**Daily Cost:** \$0

**Cumulative Cost:** \$3,030

---

**5/10/2012 Day: 2**

**Conversion**

NC #2 on 5/10/2012 - L/D Rods, Tag Fill, Start To POOH W/- Tbg Breaking & Dopeing Collars - 5:30 To 6:00 AM C/Trvl, 6:00 AM OWU, R/U NC #2, R/U H/Oiler To Csg, Pmp 60 Bbls Wtr, R/D Pmp Unit, Unseat Rod Pmp, R/U H/Oiler To Tbg, Flush Rods W/- 40 Bbls Wtr, Reseat Pmp, R/U H/Oiler To Tbg, Fill & Test To 3,000 Psi, Good Test, Took 12 Bbls Wtr To Fill, L/D 1- 2' x 3/4" Ponhy Sub, 1 1/2" x 26' Polished Rod, 1- 2', 2- 4' x 3/4" Pony Subs, 100- 3/4" Guided Rods, 80- 3/4" Plain Rods, 20- 3/4" Guided Rods, 6- 1 1/2" x 25' Wt Bars, Rod Pmp, Flush Rods W/- 20 Bbls Wtr On TOH, X - Over For Tbg, R/D Wellehad, R/U Weatherford BOPS, Release TA, R/U Sandline, RIH & Tag Fill, Tag Fill @ 5384', No New Fill On PBTD, POOH W/- 80- Jts Tbg Breaking & Dopeing Every Collar, SWI, CSDFN @ 7:30 PM, 7:30 To 8:00 PM C/Trvl.

**Daily Cost:** \$0

**Cumulative Cost:** \$13,015

---

**5/11/2012 Day: 3**

**Conversion**

NC #2 on 5/11/2012 - Finish POOH W/- J-55 Tbg Breaking & Dopeing, Shoot Perf, P/U N-80 Tbg W/- Plg & Pkr - 5:30 To 6:00 AM C/Trvl, 6:00 AM OWU, POOH W/- 53 Jts Tbg, L/D 33 Jts Tbg On A Float, R/U Extreme Wirleine, RIH & Perf CP-2 Zone @ 5110' - 5113, POOH W/- Wirline, R/D Wirleine, P/U & TIH W/- Weatherford Plg, RH, 4' Tbg Sub, Pkr, 163- Jts Tbg (N-80), Set Plg @ 5129', POOH W/- 2- Jts Tbg, R/U Frac Valve, SWI, CSDFN @ 7:00 PM, 7:00 To 7:30 PM C/Trvl.

**Daily Cost:** \$0

**Cumulative Cost:** \$23,602

---

**5/14/2012 Day: 4**

**Conversion**

NC #2 on 5/14/2012 - Frac Well, L/D N-80 Tbg, TIH W/- J-55 Tbg - 5:30 To 6:00 AM C/Trvl, 6:00 AM OWU, Set Pkr, R/U Baker Hughes, Break Down Zone, Zone Would Not Break, Spot Acid, Break Down Zone, Frac CP-2 Zone, R/D Baker Hughes, Flowback For Approx 30 Min, Release Pkr, TIH W/- 2- Jts Tbg Circ Plg Top Clean, Latch Onto Plg, Release Plg, L/D 164- Jts Tbg (N-80), Pkr & Plg, P/U & TIH W/- Arrowset Pkr, SN, 40- Jts Tbg (J -55), SWI, CSDFN @ 7:00 PM, 7:00 To 7:30 PM C/Trvl.

**Daily Cost:** \$0

**Cumulative Cost:** \$47,268

---

**5/15/2012 Day: 5**

**Conversion**

NC #2 on 5/15/2012 - TIH W/- Tbg, Pressure Test Tbg, Pmp Pkr Fluid, Pressure Test Csg - 5:30 To 6:00 AM C/Trvl, 6:00 AM OWU, TIH W/- 91- Jts Tbg (J-55), R/U H/Oiler To Tbg, Pmp 7 Bbls Wtr For A Pad, Drop Stnd Vlve, Pressure Test Tbg To 3,000 Psi, Pressure Dropped Approx. 150 Psi In 35 Min, Bump Back Up To 3,000 Psi, Try & Hold For 1 Hr, Pressure Bled Off Approx. 60 Psi In 45 Min, Bump Back Up Again, Hold Solid For 1 Hr, Good Test, R/U Sandline, Fish Stnd Vlve, R/D Sandline, R/D BOPS, R/U Injection Tree, R/U H/Oiler To Csg, Pmp 70 Bbls Fresh Wtr W/- Pkr Fluid, R/D Inj. Tree, Set Pkr, R/U Inj. Tree, Fill & Test Csg To 1,500 Psi, Try To Hold For 1 Hr, Pressure Bled Off 100 Psi In 40 Min, Bump Back Up, Test Again, Pressure Bled Off 50 Psi In 45 Min, Bump Back Up Again, Let Stnd Over Night, SWI, CSDFN @ 7:00 PM, 7:00 To 7:30 PM C/Trvl.

**Daily Cost:** \$0

**Cumulative Cost:** \$55,283

---

**5/16/2012 Day: 6**

**Conversion**

NC #2 on 5/16/2012 - Finish Testing Csg - 5:30 To 6:00 AM C/Trvl, 6:00 AM OWU, Check Pressure, Held Solid Over Night, R/D NC #2, Well Ready For MIT

**Daily Cost:** \$0

**Cumulative Cost:** \$146,612

---

**5/23/2012 Day: 7**

**Conversion**

Rigless on 5/23/2012 - Conduct initial MIT - On 05/09/2012 Jason Deardorff with the EPA was contacted concerning the initial MIT on the above listed well. On 05/17/2012 the casing was pressured up to 1740 psig and charted for 30 minutes with no pressure loss. The well was not injecting during the test. The tubing pressure was 0 psig during the test. There was not an EPA representative available to witness the test. EPA# UT20853-09508 **Finalized**

**Daily Cost:** \$0

**Cumulative Cost:** \$178,432

---

**Pertinent Files: [Go to File List](#)**



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
REGION 8

1595 Wynkoop Street  
DENVER, CO 80202-1129  
Phone 800-227-8917  
<http://www.epa.gov/region08>

JUL 02 2012

Ref: 8P-W-UIC

**CERTIFIED MAIL**  
**RETURN RECEIPT REQUESTED**

RECEIVED

JUL 11 2012

DIV. OF OIL, GAS & MINING

Mr. Reed Durfey  
District Manager  
Newfield Production Company  
Route 3 – Box 3630  
Myton, Utah

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

RE: Underground Injection Control (UIC)  
Authorization to Commence Injection  
EPA UIC Permit UT20853-09508  
Well: Lone Tree Federal 11-22-9-17  
NESW Sec. 22-T9S-R17E  
Duchesne County, Utah  
API No.: 43-013-33308

Dear Mr. Durfey:

The U.S. Environmental Protection Agency Region 8 has received Newfield Production Company's (Newfield) May 25, 2012, letter with enclosures. The enclosed Part I (internal) Mechanical Integrity test, Well Rework Record (EPA Form 7520-12), schematic diagram and calculated pore pressure were reviewed and approved by the EPA, satisfactorily completing all Prior to Commencing Injection Requirements for UIC Permit UT20853-09508.

As of the date of this letter, Newfield is authorized to commence injection into the Lone Tree Federal 11-22-9-17 well at a Maximum Allowable Injection Pressure (MAIP) of 1,420 psig. You may apply for a higher MAIP at a later date. Your application should be accompanied by the interpreted results of a step rate test that measures the fracture parting pressure and calculates the fracture gradient at this depth and location. Newfield must receive prior authorization from the Director to inject at pressures greater than the permitted MAIP during any test.

As of this approval, responsibility for permit compliance and enforcement is transferred to the EPA's UIC Technical Enforcement Program. Therefore, please direct all monitoring and compliance correspondence to Sarah Roberts at the following address, referencing the well name and UIC Permit number on all correspondence:

Ms. Sarah Roberts  
U.S. EPA Region 8: 8ENF-UFO  
1595 Wynkoop Street  
Denver, Colorado 80202-1129

Or, you may reach Ms. Roberts by telephone at (303) 312-6211 or (800) 227-8927, extension 312-6211.

Please remember that it is your responsibility to be aware of and to comply with all conditions of injection well Permit UT20853-09508.

If you have questions regarding the above action, please call Emmett Schmitz at (303) 312-6174 or (800) 227-8917, extension 312-6174.

Sincerely,



for

Callie A Videtich  
Acting Assistant Regional Administrator  
Office of Partnerships and Regulatory Assistance

cc: Uintah & Ouray Business Committee:

Irene Cuch, Chairman  
Richard Jenks Jr., Councilman  
Frances Poowegup, Councilwoman  
Ronald Wopsock, Vice-Chairman  
Phillip Chimburas, Councilman  
Stewart Pike, Councilman

Daniel Picard  
BIA - Uintah & Ouray Indian Agency

Mike Natchees  
Environmental Coordinator  
Ute Indian Tribe

Manual Myore  
Director of Energy & Minerals Dept.  
Ute Indian Tribe

Brad Hill  
Acting Associate Director  
Utah Division of Oil, Gas, and Mining

Fluid Minerals Engineering Office  
BLM - Vernal Office

Eric Sundberg, Regulatory Analyst  
Newfield Production Company



*Printed on Recycled Paper*

<b>STATE OF UTAH</b> DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING	FORM 9
<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>8. WELL NAME and NUMBER:</b> LONE TREE FED 11-22-9-17
<b>1. TYPE OF WELL</b> Water Injection Well	<b>9. API NUMBER:</b> 43013333080000
<b>2. NAME OF OPERATOR:</b> NEWFIELD PRODUCTION COMPANY	<b>9. FIELD and POOL or WILDCAT:</b> MONUMENT BUTTE
<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> 2055 FSL 1813 FWL <b>QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:</b> Qtr/Qtr: NESW Section: 22 Township: 09.0S Range: 17.0E Meridian: S	<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 type="checkbox"/> NOTICE OF INTENT Approximate date work will start:	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> CASING REPAIR
<input checked="" type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion: 9/14/2012	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> CHANGE WELL NAME
<input type="checkbox"/> SPUD REPORT Date of Spud:	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input checked="" type="checkbox"/> CONVERT WELL TYPE
<input type="checkbox"/> DRILLING REPORT 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 type="checkbox"/> APD EXTENSION
	<input type="checkbox"/> WILDCAT WELL DETERMINATION	<input checked="" type="checkbox"/> OTHER	OTHER: <input type="text" value="Put on Injection"/>

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

The above reference well was put on injection at 7:00 PM on 09/14/2012. EPA # UT20853-09508

**Accepted by the  
 Utah Division of  
 Oil, Gas and Mining  
 FOR RECORD ONLY  
 September 25, 2012**

<b>NAME (PLEASE PRINT)</b> Lucy Chavez-Naupoto	<b>PHONE NUMBER</b> 435 646-4874	<b>TITLE</b> Water Services Technician
<b>SIGNATURE</b> N/A	<b>DATE</b> 9/20/2012	

Spud Date: 11/12/07  
 Put on Production: 2/22/08  
 GL: 5273' KB: 5285'

# Lone Tree Federal 11-22-9-17

## SURFACE CASING

CSG SIZE: 8-5/8"  
 GRADE: J-55  
 WEIGHT: 24#  
 LENGTH: 7 jts. (309.03')  
 DEPTH LANDED: 320.88  
 HOLE SIZE: 12-1/4"  
 CEMENT DATA: 160 sxs Class "G" cmt

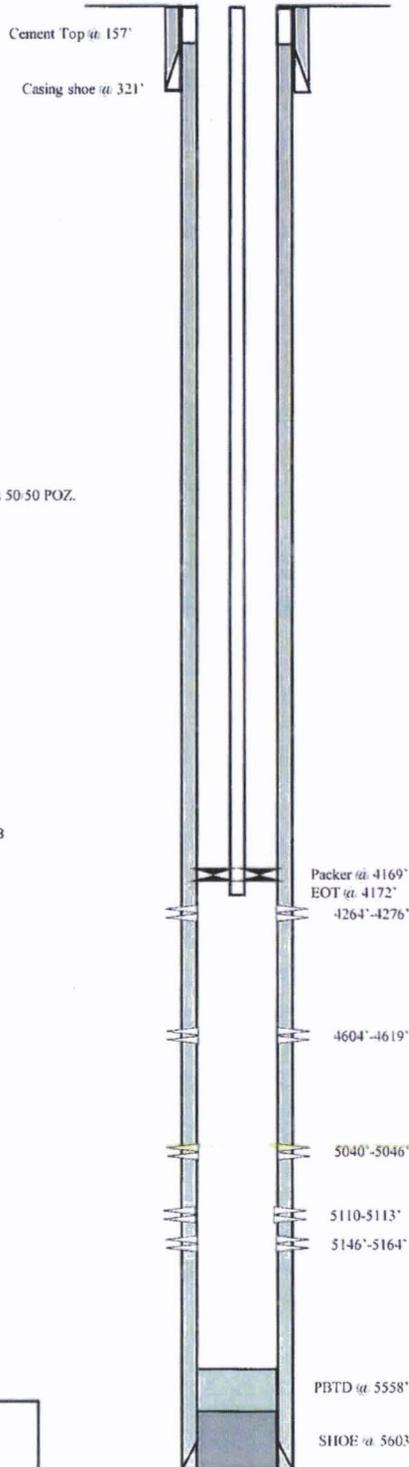
## PRODUCTION CASING

CSG SIZE: 5-1/2"  
 GRADE: J-55  
 WEIGHT: 15.5#  
 LENGTH: 130jts. (5603.38')  
 HOLE SIZE: 7-7/8"  
 TOTAL DEPTH: 5602.83'  
 CEMENT DATA: 325 sxs Prem. Lite II mixed & 400 sxs 50-50 POZ.  
 CEMENT TOP AT: 157'

## TUBING

SIZE-GRADE/WT.: 2-7/8" - J-55 - 6.5#  
 NO. OF JOINTS: 131 jts (4153')  
 SEATING NIPPLE: 2-7/8" (1.10')  
 SN LANDED AT: 4165' KB  
 PACKER CE @ 4169.37'  
 TOTAL STRING LENGTH: EOT @ 4172.47' w/12' KB

## Injection Wellbore Diagram



## FRAC JOB

2/13/08 5146'-5164' **Frac CP3 sands as follows:**  
 Frac with 79912# 20-40 sand in 638bbbs Lightning 17 fluid. Treat at ave pressure of 2078 psi @ 23.3 BPM. ISIP 2055 psi.

2/13/08 5040'-5046' **Frac CPI sands as follows:**  
 Frac with 19648# 20-40 sand in 315 bbbs Lightning 17 fluid. Treat at ave pressure of 2304psi @ 23.3 BPM. ISIP 2122psi.

2/14/08 4604'-4619' **Frac A1 sands as follows:**  
 Frac with 39873# 20-40 sand in 424 bbbs Lightning 17 fluid. Treat at ave pressure of 1478psi @ 23.3 BPM. ISIP 1679 psi.

2/14/08 4264'-4276' **Frac D2 sand as follows:**  
 Frac with 67666# 20-40 sand in 578 bbbs Lightning 17 fluid. Treat at ave pressure of 1628 psi @ 23.5 BPM. ISIP 1670 psi.

4/22/09 **Cement Repair.** Updated r & t details.

05/14/12 5110-5113' **Frac CP 2 sand as follows:**  
 Frac with 8189# 20-40 sand in 179 bbbs Lightning 17 fluid

05/16/12 **Convert to Injection Well**

05/17/12 **Conversion MIT Finalized** -- update tbg detail

## PERFORATION RECORD

4264-4276'	4 JSPF	48 holes
4604-4619'	4 JSPF	60 holes
5040-5046'	4 JSPF	24 holes
5146-5164'	4 JSPF	72 holes
05/11/12 5110-5113'	3 JSPF	9 holes

**NEWFIELD**

Lone Tree Federal 11-22-9-17  
 2055' FSL & 1813' FWL  
 NESW Section 22-T9S-R17E  
 Duchesne Co, Utah  
 API #43-013-33308; Lease #UTU-13905