

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL OR REENTER

5. Lease Serial No.  
UTU-13905

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

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

8. Lease Name and Well No.  
Lone Tree Federal 7-22-9-17

9. API Well No.  
4301333304

10. Field and Pool, or Exploratory  
Monument Butte

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

12. County or Parish  
Duchesne

13. State  
UT

1a. Type of Work:  DRILL  REENTER

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

2. Name of Operator  
Newfield Production Company

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

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

4. Location of Well (Report location clearly and in accordance with any State requirements. \*)  
At surface SW/NE 2087' FNL 1813' FEL 586265X 40.018015  
At proposed prod. zone 4430036Y -109.989165

14. Distance in miles and direction from nearest town or post office\*  
Approximatley 18.3 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. 1813' f/lse, 1813' f/unit  
Approx. 1198'

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. 1198'

19. Proposed Depth  
5650'

20. BLM/BIA Bond No. on file  
UTB000192

21. Elevations (Show whether DF, KDB, RT, GL, etc.)  
5242' GL

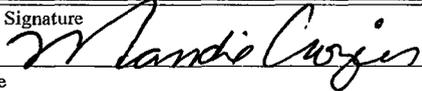
22. Approximate date work will start\*  
1st Quarter 2007

23. Estimated duration  
Approximately seven (7) days from spud to rig release.

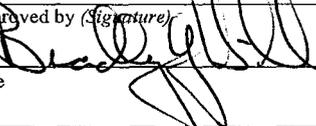
24. Attachments

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

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

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

Title Regulatory Specialist

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

Title Office ENVIRONMENTAL MANAGER

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

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

\*(Instructions on reverse)

Federal Approval of this  
Action is Necessary

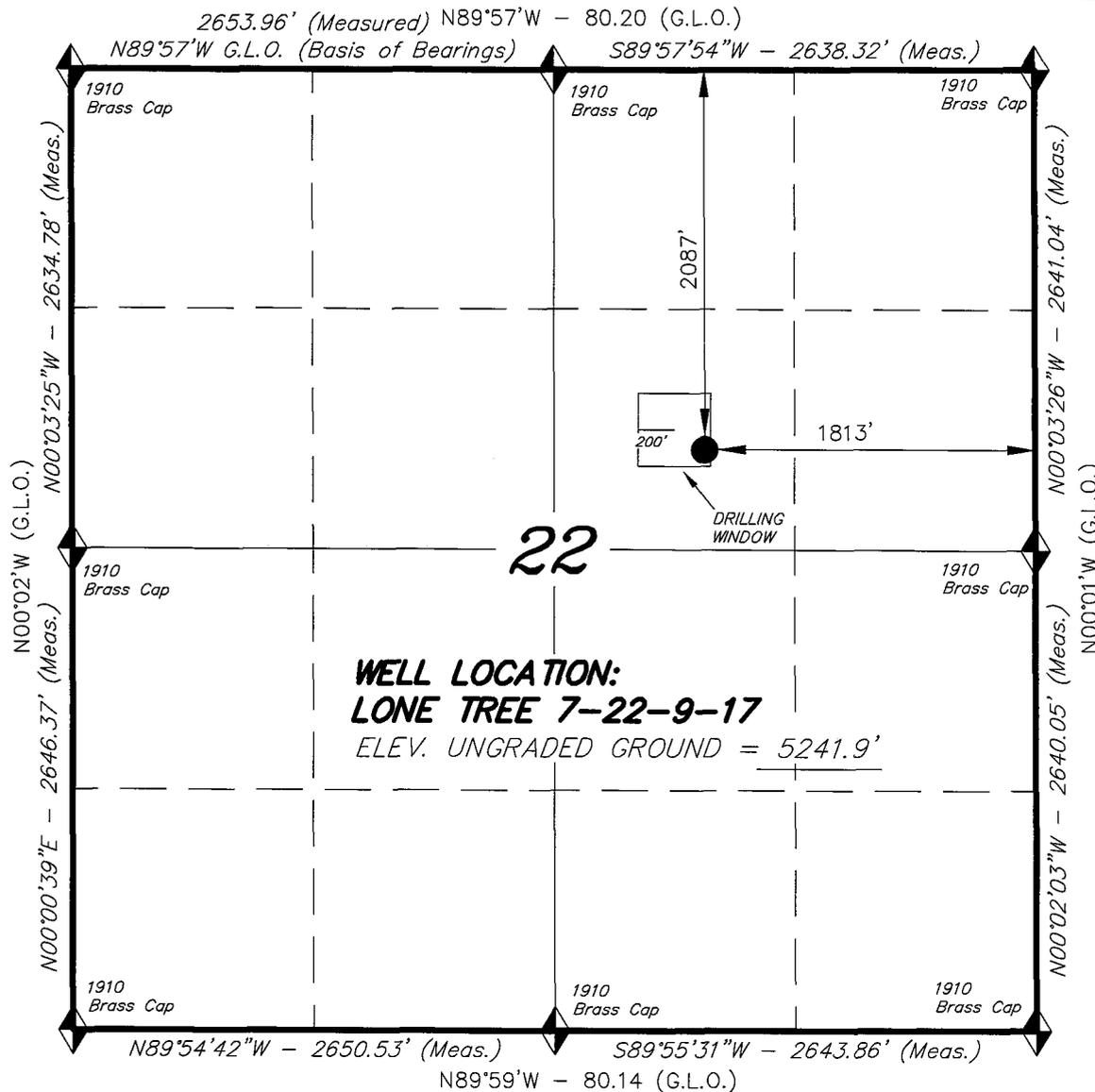
RECEIVED

SEP 08 2006

DIV. OF OIL, GAS & MINING

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

## NEWFIELD PRODUCTION COMPANY



WELL LOCATION, LONE TREE 7-22-9-17,  
 LOCATED AS SHOWN IN THE SW 1/4 NE  
 1/4 OF SECTION 22, T9S, R17E, S.L.B.&M.  
 DUCHESNE COUNTY, UTAH.



**WELL LOCATION:**  
**LONE TREE 7-22-9-17**  
 ELEV. UNGRADED GROUND = 5241.9'

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

*Stacy W. Stewart*  
 STACY W. STEWART  
 REGISTERED LAND SURVEYOR  
 REGISTRATION No. 22273  
 STATE OF UTAH

### TRI STATE LAND SURVEYING & CONSULTING

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

DATE SURVEYED: 06-22-06	SURVEYED BY: C.M.
DATE DRAWN: 06-26-06	DRAWN BY: F.T.M.
REVISED:	SCALE: 1" = 1000'

◆ = SECTION CORNERS LOCATED

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

**LONE TREE 7-22-9-17**  
 (Surface Location) NAD 83  
 LATITUDE = 40° 01' 04.67"  
 LONGITUDE = 109° 59' 23.17"

NEWFIELD PRODUCTION COMPANY  
LONE TREE FEDERAL #7-22-9-17  
SW/NE 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' – 1780'
Green River	1780'
Wasatch	5650'

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

Green River Formation 1780' – 5650' - 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 #7-22-9-17  
SW/NE 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 #7-22-9-17 located in the SW 1/4 NE 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 - 3080'  $\pm$  to it's junction with the beginning of the proposed access road to the northeast; proceed northeasterly along the proposed access road - 0.9 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. AERC Report #1592, 12/29/97. Paleontological Resource Survey prepared by, Wade E. Miller, 6/29/05. See attached report cover pages, Exhibit "D".

For the Lone Tree Federal #7-22-9-17 Newfield Production Company requests a 470' ROW be granted in Lease UTU-79015, a 1990' ROW be granted in Lease UTU-65320, and 5600' 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 1990' ROW in Lease UTU-65320, and 5600' 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 1990' ROW in Lease UTU-65320, and 5600' 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 7-22-9-17.

**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 #7-22-9-17 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 #7-22-9-17 SW/NE 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

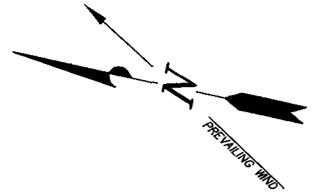
Date

  
Mandie Crozier  
Regulatory Specialist  
Newfield Production Company

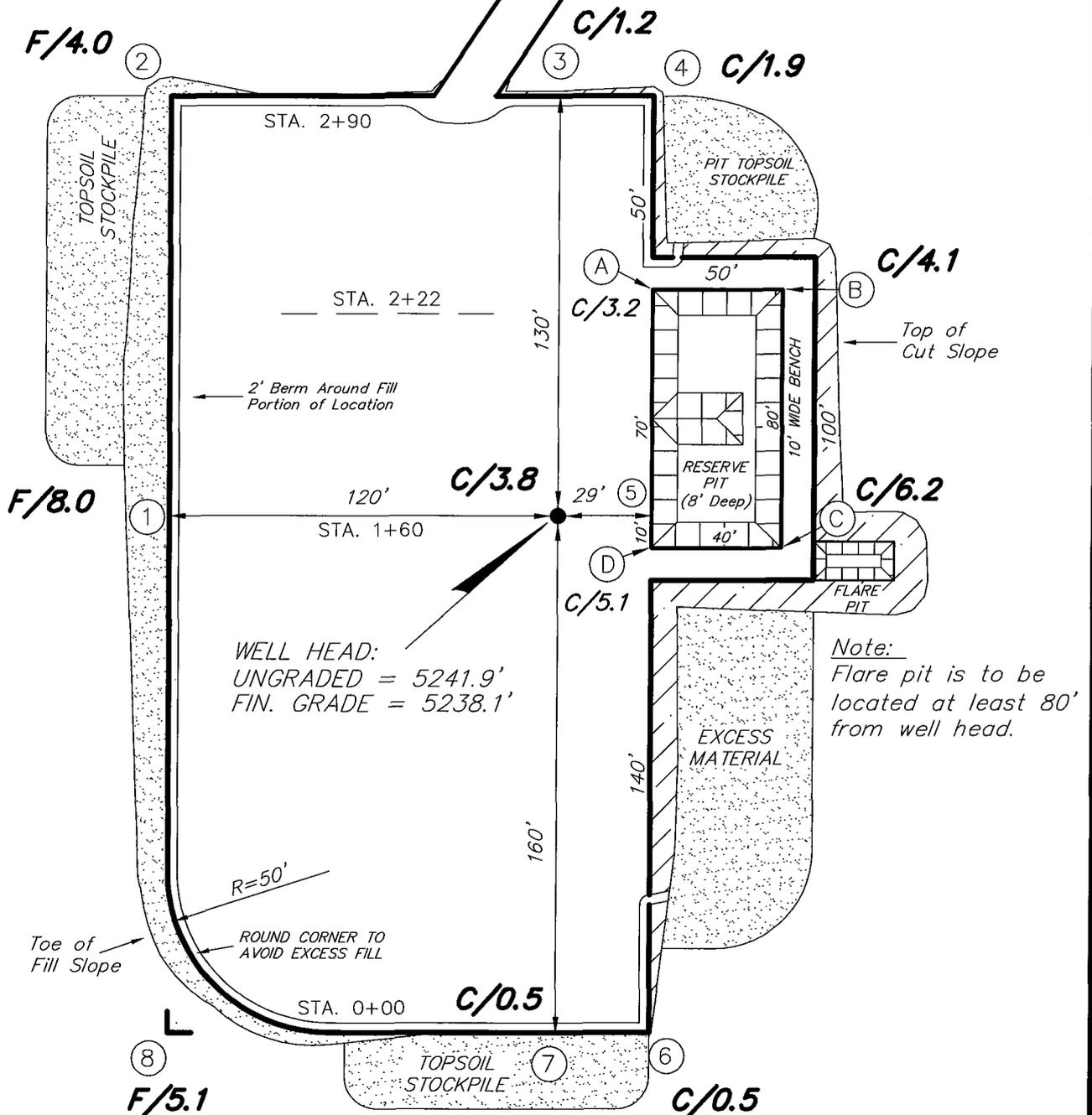
# NEWFIELD PRODUCTION COMPANY

LONE TREE 7-22-9-17

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



PROPOSED ACCESS ROAD (Max. 6% Grade)



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

### REFERENCE POINTS

- 170' NORTHERLY = 5226.5'
- 220' NORTHERLY = 5224.2'
- 210' WESTERLY = 5234.3'
- 260' WESTERLY = 5233.0'

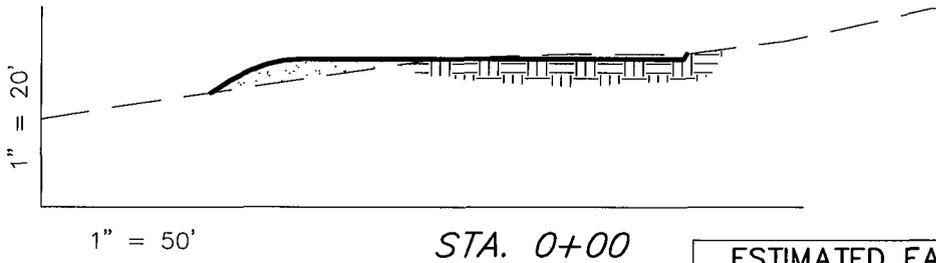
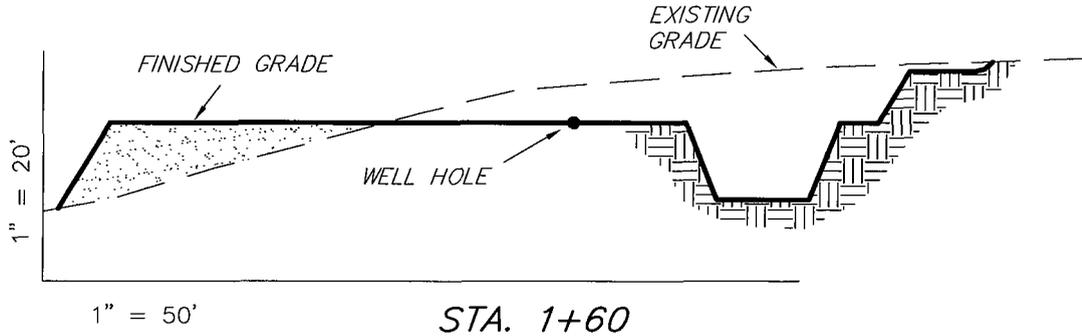
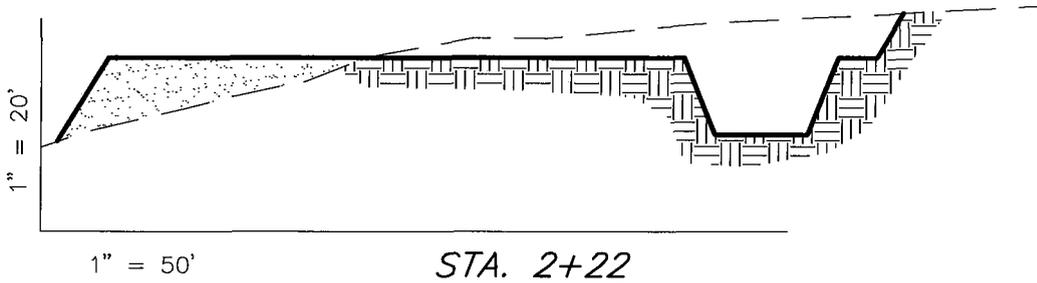
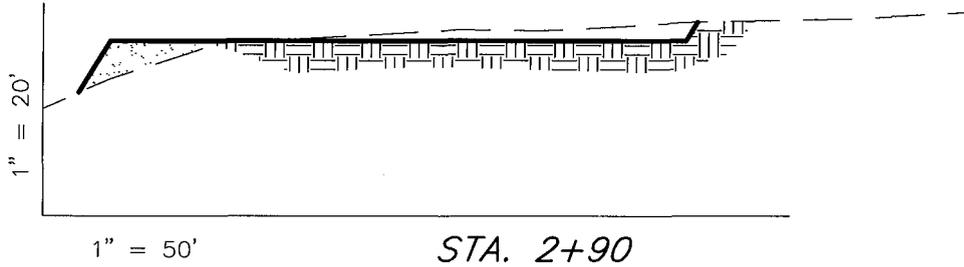
SURVEYED BY: C.M.	SCALE: 1" = 50'
DRAWN BY: F.T.M.	DATE: 06-26-06

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

# NEWFIELD PRODUCTION COMPANY

## CROSS SECTIONS

### LONE TREE 7-22-9-17



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	2,910	2,910	Topsoil is not included in Pad Cut	0
PIT	640	0		640
TOTALS	3,550	2,910	1,020	640

SURVEYED BY: C.M.

SCALE: 1" = 50'

DRAWN BY: F.T.M.

DATE: 06-26-06

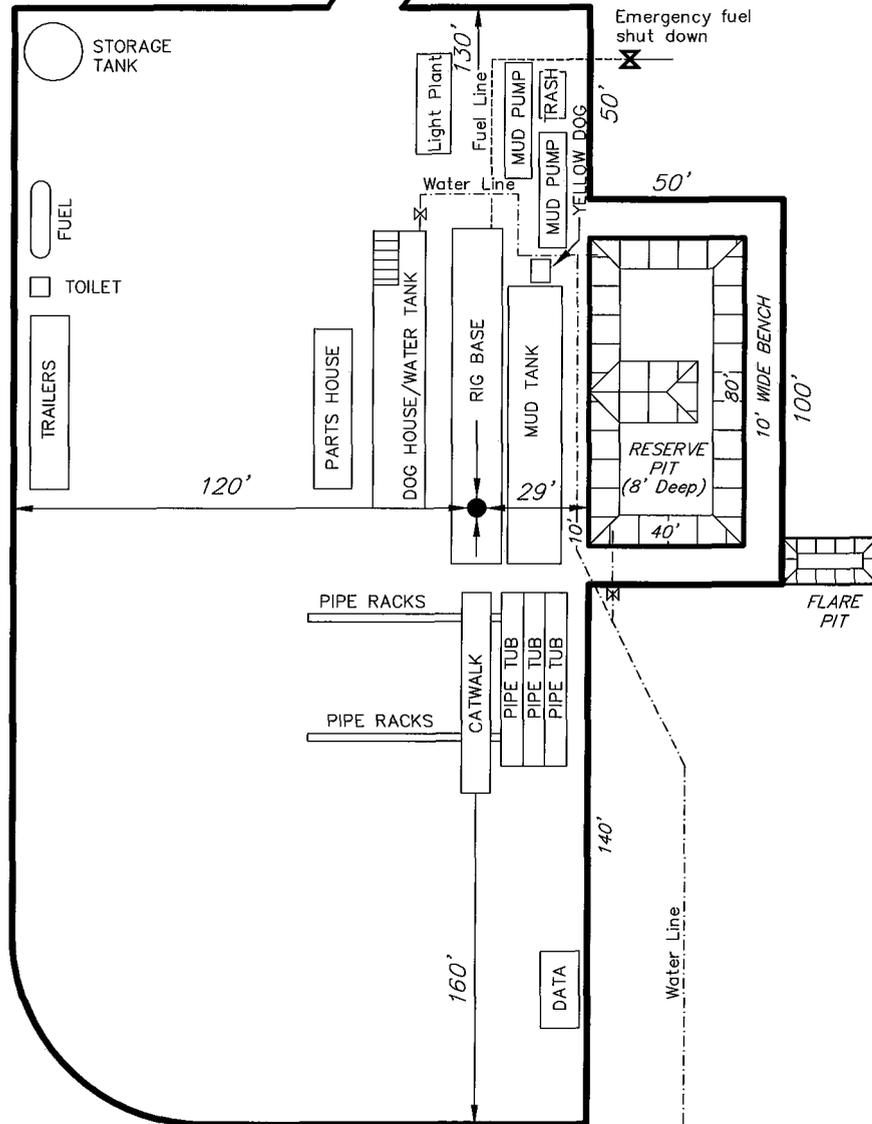
**Tri State** (435) 781-2501  
Land Surveying, Inc.  
180 NORTH VERNAL AVE. VERNAL, UTAH 84078

# NEWFIELD PRODUCTION COMPANY

## TYPICAL RIG LAYOUT

### LONE TREE 7-22-9-17

PROPOSED ACCESS ROAD (Max. 6% Grade)



SURVEYED BY: C.M.

SCALE: 1" = 50'

DRAWN BY: F.T.M.

DATE: 06-26-06

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

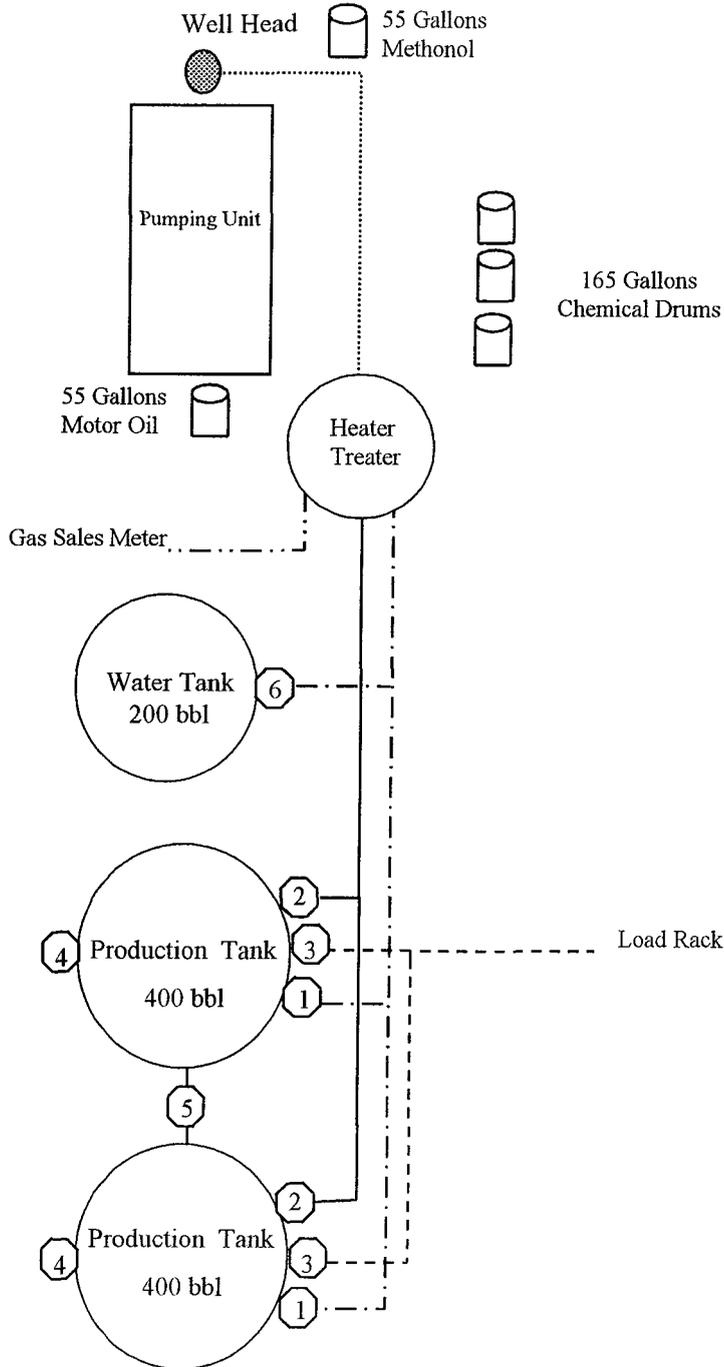
# Newfield Production Company Proposed Site Facility Diagram

Lone Tree Federal 7-22-9-17

SW/NE Sec. 22, T9S, R17E

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:

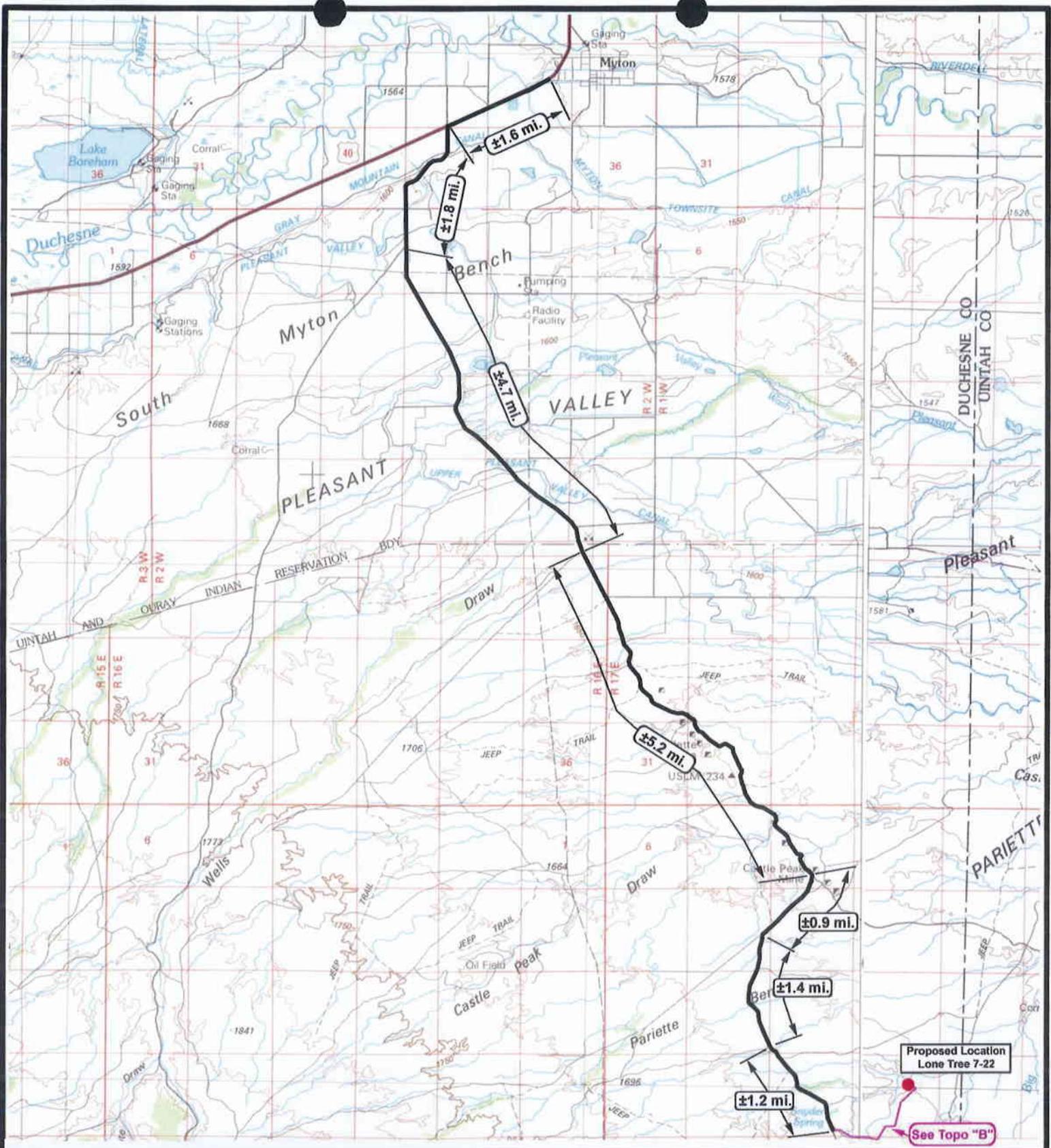
- 1) Valves 1, 2, 4, 5, and 6 sealed closed
- 2) Valve 3 open

## Draining Phase:

- 1) Valves 1 and 6 open

Diked Section






  
**NEWFIELD**  
 Exploration Company

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**Lone Tree 7-22-9-17**  
**SEC. 22, T9S, R17E, S.L.B.&M.**


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

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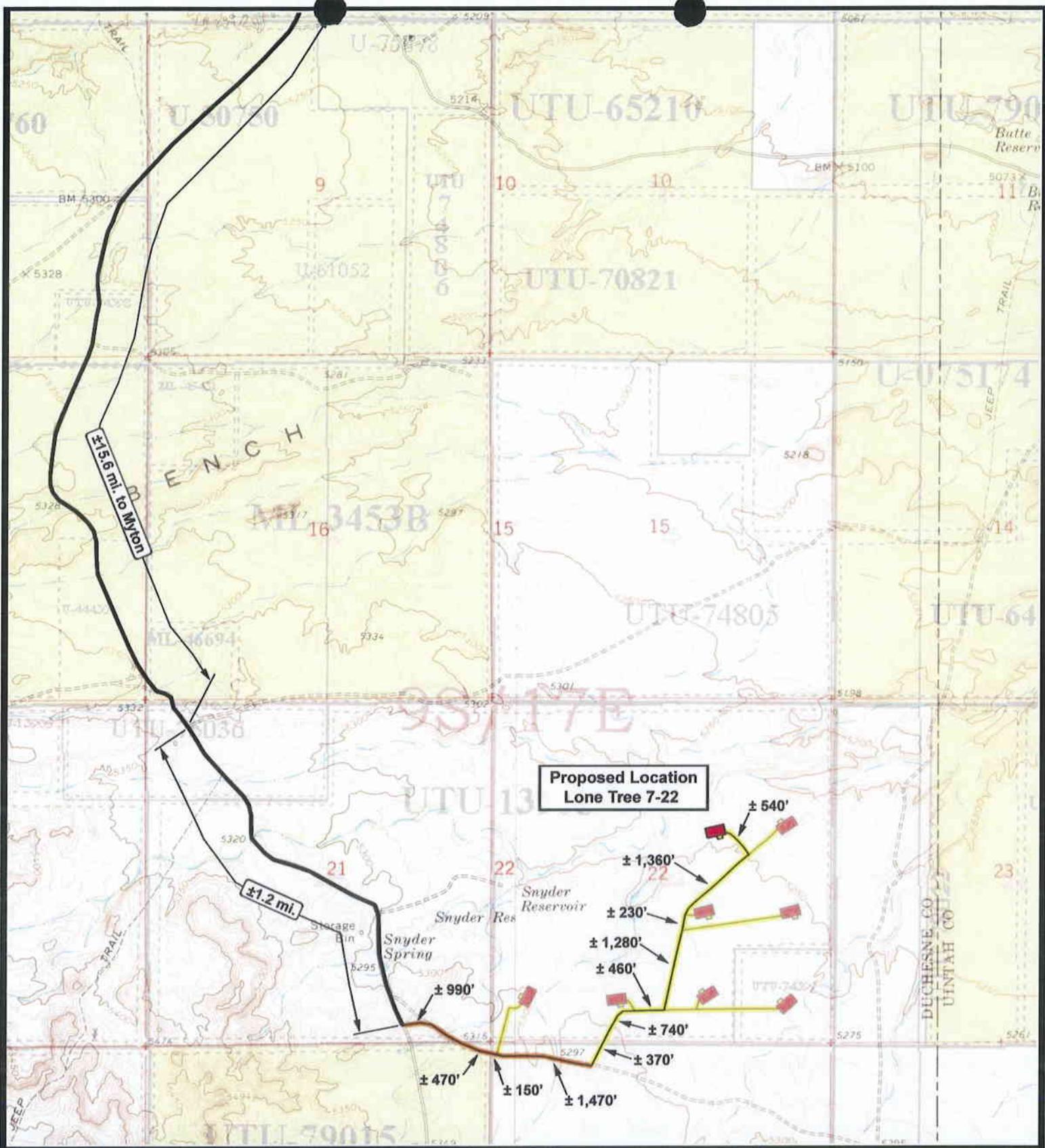
SCALE: 1 = 100,000  
 DRAWN BY: mw  
 DATE: 06-27-2006

**Legend**

-  Existing Road
-  Proposed Access

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**TOPOGRAPHIC MAP**  
"A"



**Proposed Location  
Lone Tree 7-22**



**NEWFIELD**  
Exploration Company

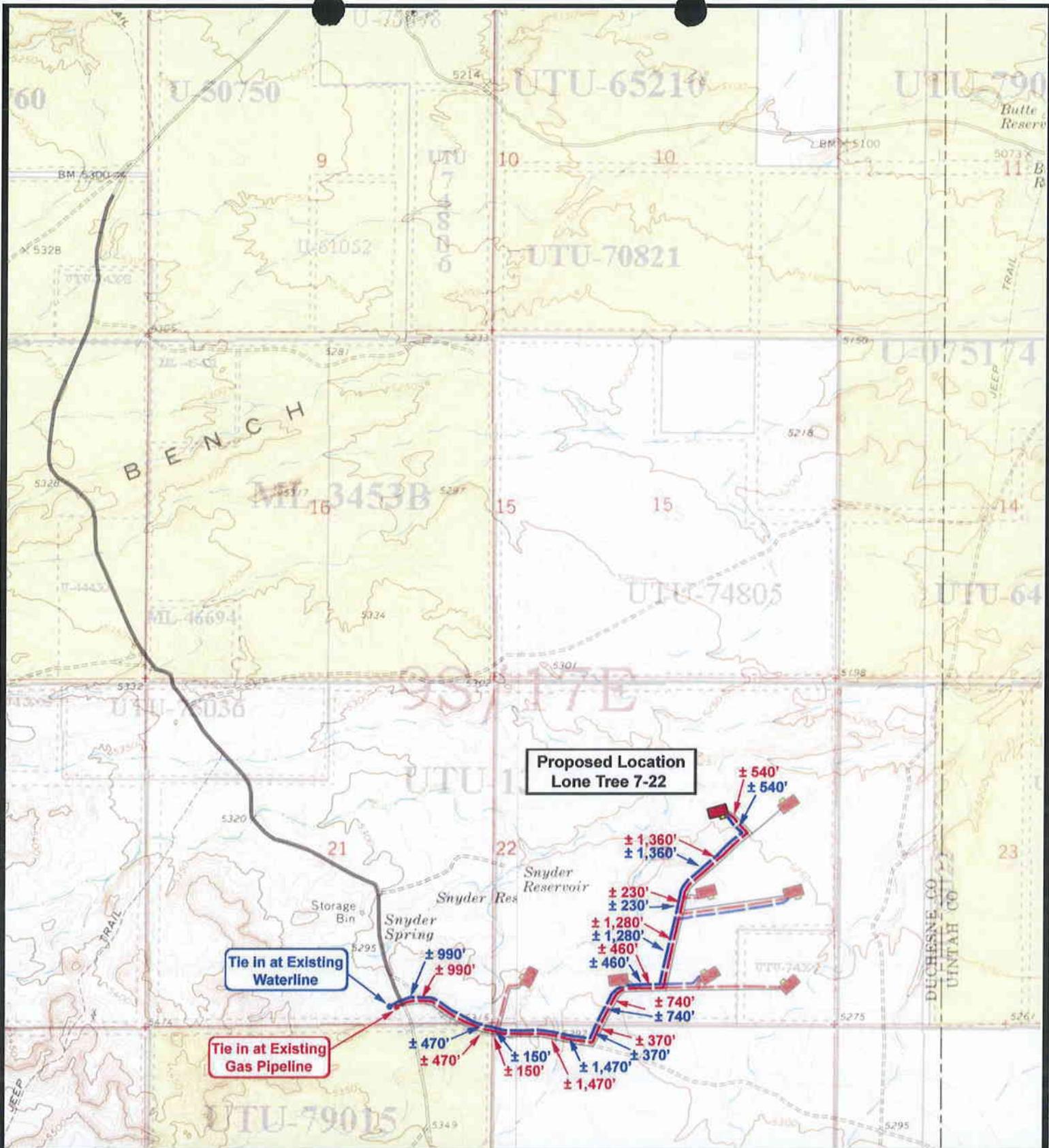
**Lone Tree 7-22-9-17  
SEC. 22, T9S, R17E, S.L.B.&M.**



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

SCALE: 1" = 2,000'  
DRAWN BY: mw  
DATE: 06-27-2006

Legend	
	Existing Road
	Proposed Access
	Existing Two-Track
TOPOGRAPHIC MAP	
<b>"B"</b>	



**Proposed Location  
Lone Tree 7-22**

**Tie in at Existing  
Waterline**

**Tie in at Existing  
Gas Pipeline**

**NEWFIELD**  
Exploration Company

**Lone Tree 7-22-9-17**  
**SEC. 22, T9S, R17E, S.L.B.&M.**



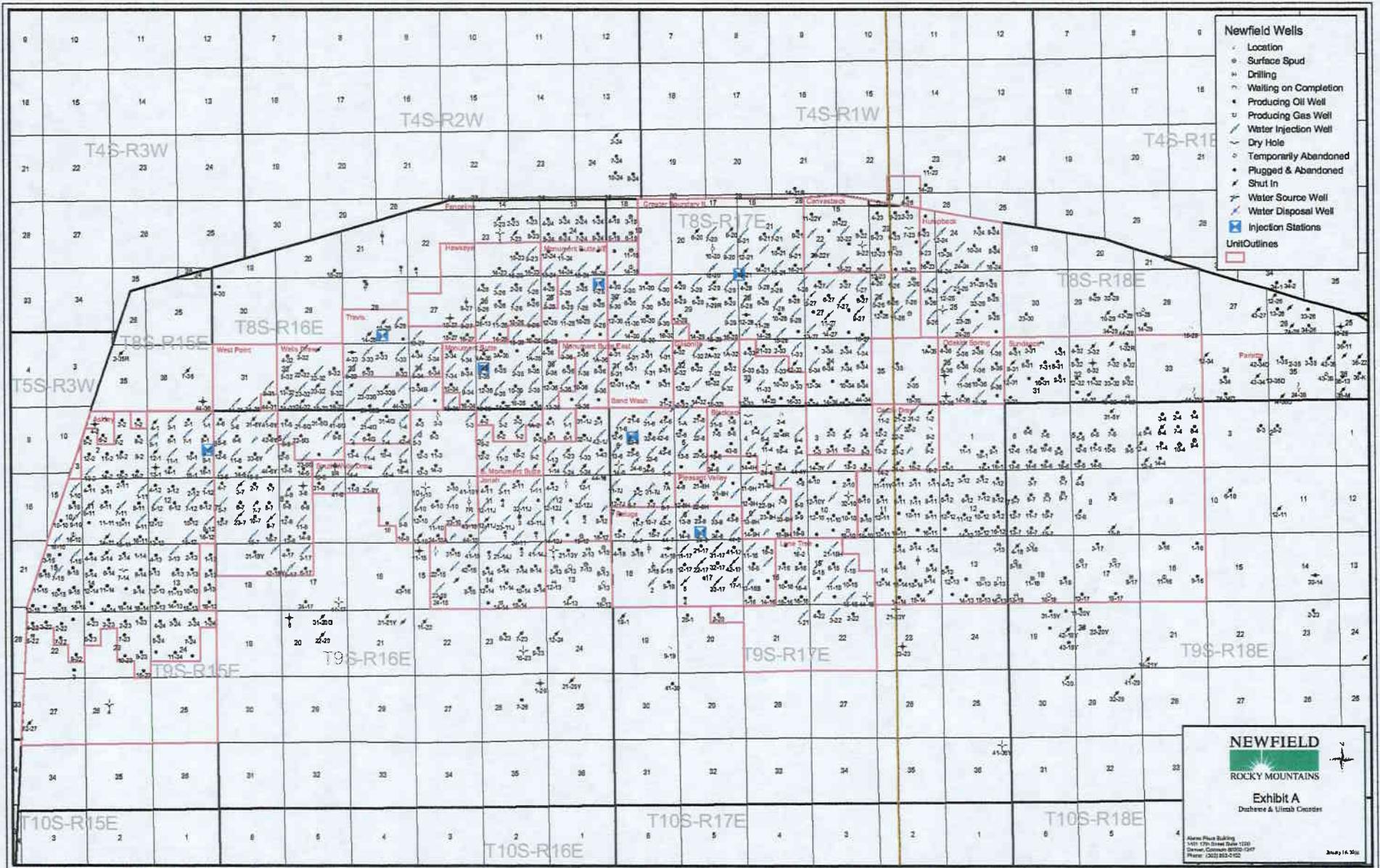
**Tri-State**  
Land Surveying Inc.  
(435) 781-2501  
180 North Vernal Ave. Vernal, Utah 84078

**SCALE: 1" = 2,000'**  
**DRAWN BY: mw**  
**DATE: 06-27-2006**

**Legend**

- Roads
- Proposed Gas Line
- Proposed Water Line

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





# 2-M SYSTEM

Blowout Prevention Equipment Systems

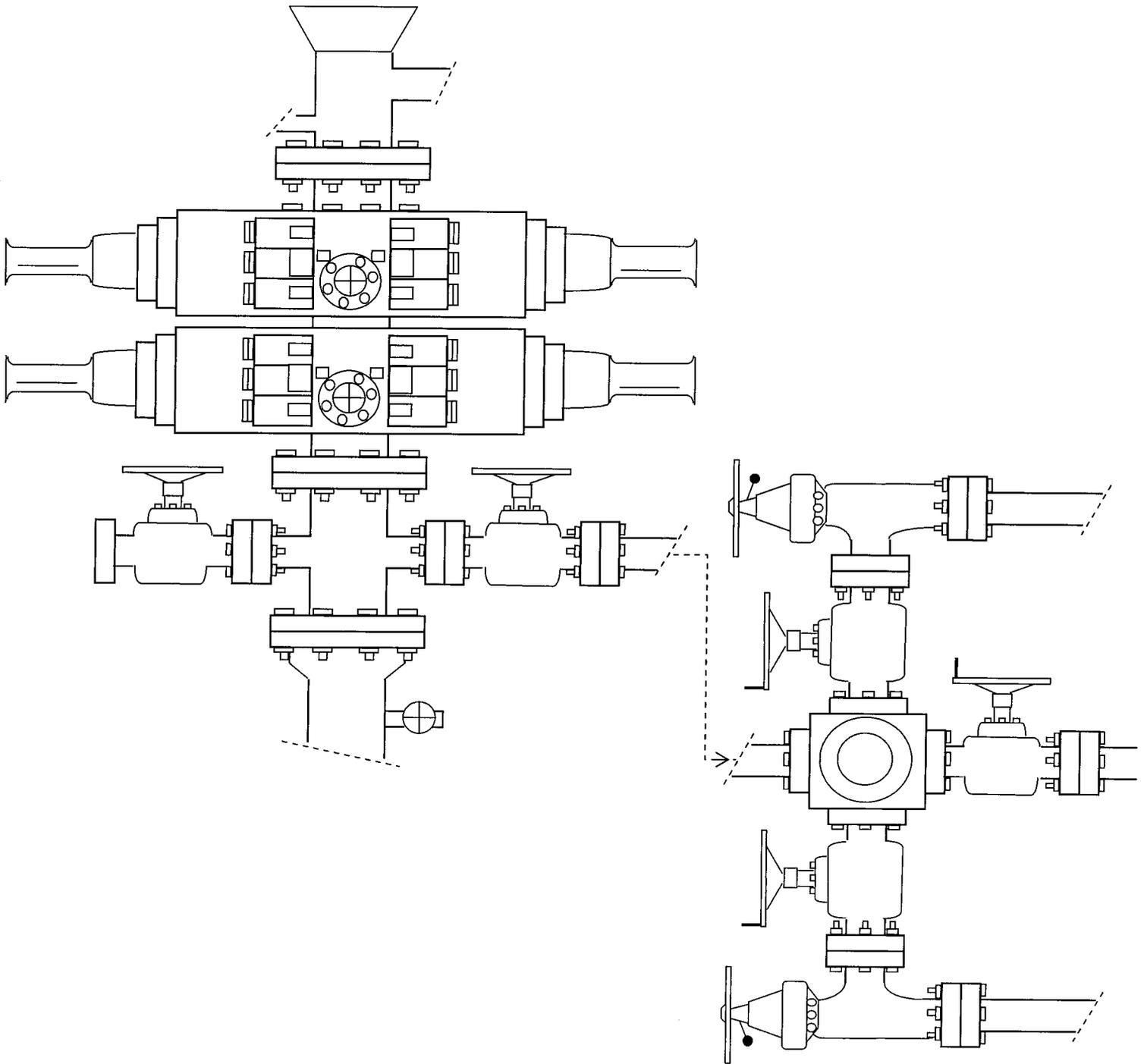


EXHIBIT C

# CULTURAL RESOURCE EVALUATION OF THE ASHLEY UNIT, SOUTH WELLS DRAW UNIT & SOUTH PLEASANT VALLEY UNIT LEASE AREAS IN THE WELLS DRAW & PLEASANT VALLEY LOCALITIES IN DUCHESNE COUNTY, UTAH

Report Prepared for Inland Production Company

Department of Interior Permit No.: UT-97-54937

Utah State Project No.: UT-97-AF-0722b,s

AERC Project 1592 (IPC-97-5A)

*[Handwritten scribbles]*

Authors of the Report:  
F. Richard Hauck & Glade Hadden



## ARCHEOLOGICAL-ENVIRONMENTAL RESEARCH CORPORATION

181 North 200 West, Suite 5 -- Bountiful, Utah 84010

P.O. Box 853, Bountiful, Utah 84011

Phone: (801) 292-7061, 292-9668

Fax: (801) 292-0614

ari@xmission.com

December 29, 1997

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**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: 09/08/2006

API NO. ASSIGNED: 43-013-33304

WELL NAME: LONE TREE FED 7-22-9-17  
 OPERATOR: NEWFIELD PRODUCTION ( N2695 )  
 CONTACT: MANDIE CROZIER

PHONE NUMBER: 435-646-3721

PROPOSED LOCATION:

SWNE 22 090S 170E  
 SURFACE: 2087 FNL 1813 FEL  
 BOTTOM: 2087 FNL 1813 FEL  
 COUNTY: DUCHESNE  
 LATITUDE: 40.01802 LONGITUDE: -109.9892  
 UTM SURF EASTINGS: 586265 NORTHINGS: 4430036  
 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:

See Separate file

STIPULATIONS:

1- Federal Approval

FEDERAL  
H-15H Δ

NGC 24-15H  
FED •

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  
⊙

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

### MONUMENT BUTTE FIELD

### LONE TREE (GR) UNIT

CAUSE: 228-5 / 8-26-1998

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**

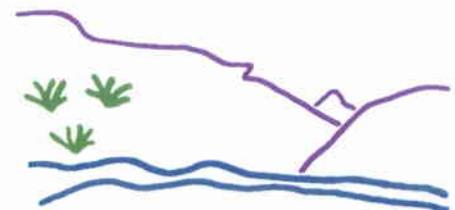
- ABANDONED
- ACTIVE
- COMBINED
- INACTIVE
- PROPOSED
- STORAGE
- TERMINATED

**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 7-22-9-17 Well, 2087' FNL, 1813' FEL, SW NE, 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 43-013-33304.

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 7-22-9-17

API Number: 43-013-33304

Lease: UTU-13905

Location: SW NE                      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

SEP - 8 2006

BLM VERNAL, UTAH  
Expires January 31, 2004

Form 3160-3  
(September 2001)

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL OR REENTER

1a. Type of Work: <input checked="" type="checkbox"/> DRILL <input type="checkbox"/> REENTER		5. Lease Serial No. UTU-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		8. Lease Name and Well No. Lone Tree Federal 7-22-9-17
3b. Phone No. (include area code) (435) 646-3721		9. API Well No. 43-013-33304
4. Location of Well (Report location clearly and in accordance with any State requirements. *) At surface SW/NE 2087' FNL 1813' FEL At proposed prod. zone		10. Field and Pool, or Exploratory Monument Butte
14. Distance in miles and direction from nearest town or post office* Approximatley 18.3 miles southeast of Myton, Utah		11. Sec., T., R., M., or Blk. and Survey or Area SW/NE Sec. 22, T9S R17E
15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any) Approx. 1813' f/lse, 1813' f/unit	16. No. of Acres in lease 1200.00	12. County or Parish Duchesne
17. Spacing Unit dedicated to this well 40 Acres	13. State UT	
18. Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft. Approx. 1198'	19. Proposed Depth 5650'	20. BLM/BIA Bond No. on file UTB000192
21. Elevations (Show whether DF, KDB, RT, GL, etc.) 5242' 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:

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

25. Signature 	Name (Printed/Typed) Mandie Crozier	Date 9/7/06
Title Regulatory Specialist		
Approved by (Signature) 	Name (Printed/Typed) Terry Kewella	Date 5-3-2007
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 ATTACHED

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

(Instructions on reverse)

RECEIVED

MAY 14 2007 NOTICE OF APPROVAL

DIV. OF OIL, GAS & MINING

UDOGM 07 CXS0074A

No NOS



**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 7-22-9-17  
**API No:** 43-013-33304

**Location:** SWNE, 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:	Melissa Hawk	(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 one-year period. An additional year extension 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)**

**General Surface COA**

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

**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) 0.5 miles east of the location, but is not in line-of-site. **With this occurrence there will be a time restriction to protect Ferruginous hawk nesting from March 1 – July 15.**

Lease Notices from Resource Management Plan:

The lessee/operator is given notice the area has been identified as containing Black-footed ferret habitat. Modifications may be required in the Surface Use Plan to protect the Black-footed ferret and/or its habitat from surface disturbance activities in accordance with Appendix 2 of the Diamond Mountain Resource Management Plan and Environmental Impact Statement, Section 6 of the lease terms, Endangered Species Act, and 43 CFR 3101.1-2.

Comments:

1. The proposed area contains poor Mountain Plover habitat due to dense vegetation and many rolling hills.
2. 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 CONDITIONS OF APPROVAL**

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

- None.

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

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

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

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

## **OPERATING REQUIREMENT REMINDERS:**

- All wells, whether drilling, producing, suspended, or abandoned, shall be identified in accordance with 43 CFR 3162.6. There shall be a sign or marker with the name of the operator, lease serial number, well number, and surveyed description of the well.
- In accordance with 43 CFR 3162.4-3, this well shall be reported on the "Monthly Report of Operations" (Oil and Gas Operations Report ((OGOR)) starting with the month in which operations commence and continue each month until the well is physically plugged and abandoned. This report shall be filed in duplicate, directly with the Minerals Management Service, P.O. Box 17110, Denver, Colorado 80217-0110, or call 1-800-525-7922 (303) 231-3650 for reporting information.
- Should the well be successfully completed for production, the BLM Vernal Field office must be notified when it is placed in a producing status. Such notification will be by written communication and must be received in this office by not later than the fifth business day following the date on which the well is placed on production. The notification shall provide, as a minimum, the following informational items:
  - Operator name, address, and telephone number.
  - Well name and number.
  - Well location (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 7-22-9-17**

9. API Well No.  
**43-013-33304**

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)  
**2087 FNL 1813 FEL SW/NE 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"/> Abandonment
<input type="checkbox"/> Subsequent Report	<input type="checkbox"/> Recompletion
<input type="checkbox"/> Final Abandonment Notice	<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 9/16/06 (expiration 9/16/07).

This APD is not yet due to expire with the BLM.

**RECEIVED**  
**SEP 13 2007**

Approved by the  
Utah Division of  
Oil, Gas and Mining

DIV. OF OIL, GAS & MINING

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

9-18-07  
RM

14. I hereby certify that the foregoing is true and correct  
Signed [Signature] Title Regulatory Specialist Date 9/10/2007  
**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:** 43-013-33304  
**Well Name:** Lone Tree Federal 7-22-9-17  
**Location:** SW/NE Section 22, T9S R17E  
**Company Permit Issued to:** Newfield Production Company  
**Date Original Permit Issued:** 9/16/2006  
9

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 7-22-9-17

Api No: 43-013-33304 Lease Type: FEDERAL

Section 22 Township 09S Range 17E County DUCHESNE

Drilling Contractor NDSI RIG # NS#1

### SPUDDED:

Date 01/03/08

Time 1:30 PM

How DRY

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

Reported by BRANDON HALL

Telephone # (435) 828-6110

Date 01/04/08 Signed CHD

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

RECEIVED  
JAN 09 2008

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

OPERATOR ACCT. NO. N2695

DIV. OF OIL, GAS & MINING

ACTION CODE	CURRENT ENTITY NO.	NEW ENTITY NO.	API NUMBER	WELL NAME	WELL LOCATION				SPUD DATE	EFFECTIVE DATE	
					QQ	SC	TP	RG			COUNTY
AB	99999	12417	4301333304	LONETREE FEDERAL 7-22-9-17	SWNE	22	9S	17E	DUCHESNE	1/3/2008	1/17/08
WELL 1 COMMENTS: GRU											
A	99999	16607	4304739411	UTE TRIBAL 5-31-4-2E	SWNW	31	4S	2E	UINTAH	1/4/2008	1/17/08
GRU											
AB	99999	12417	4301333307	LONETREE FEDERAL 10-22-9-17	NWSE	22	9S	17E	DUCHESNE	1/6/2008	1/17/08
GRU											
AB	99999	12417	4301333305	LONETREE FEDERAL 8-22-9-17	SENE	22	9S	17E	DUCHESNE	1/3/2008	1/17/08
GRU											
WELL 6 COMMENTS:											
WELL 6 COMMENTS:											

ACTION CODES (See Instructions on back of form)

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

*Tammi Lee*  
Signature

Tammi Lee

Production Clerk

01/09/08

Date

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

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.

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 7-22-9-17

9. API Well No.  
4301333304

10. Field and Pool, or Exploratory Area  
MONUMENT BUTTE

11. County or Parish, State  
DUCHESNE, UT

**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 area code)  
435.646.3721

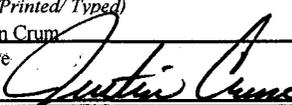
4. Location of Well (Footage, Sec., T., R., M., or Survey Description)  
2087 FNL 1813 FEL  
SWNE Section 22 T9S R17E

**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 recompleat 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 recompleat 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 1/10/08 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 @ 275'. Drill out cement & shoe. Drill a 7.875 hole with fresh water to a depth of 5570'. 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, 141 jt's of 5.5 J-55, 15.5# csgn. Set @ 5552' / KB. Cement with 300 sks cement mixed @ 11.0 ppg & 3.43 yld. Then 400 sks cement mixed @ 14.4 ppg & 1.24 yld. Returned 21 bbls of cement to reserve pit. Nipple down Bop's. Drop slips @ 85,000 #'s tension. Release rig @ 6:00 PM on 1/17/08.

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

Title  
Drilling Foreman

Date  
01/21/2008

**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)

**JAN 25 2008**

DEPT. OF OIL, GAS & MINING

# NEWFIELD PRODUCTION COMPANY - CASING & CEMENT REPORT

8 5/8 CASING SET AT 326.33

LAST CASING 8 5/8" set @ 320.34'kb  
 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 Federal 7-22-9-17  
 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 39.32'					
		WHI - 92 csg head			8rd	A	0.95
7	8 5/8"	Maverick ST&C csg	24#	J-55	8rd	A	315.43
		<b>GUIDE</b> shoe			8rd	A	0.9
CASING INVENTORY BAL.		FEET	JTS	TOTAL LENGTH OF STRING			316.33
TOTAL LENGTH OF STRING		316.33	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>326.33</b>
TOTAL		314.48	7	} COMPARE			
TOTAL CSG. DEL. (W/O THRDS)		314.48	7				
TIMING		1ST STAGE					
BEGIN RUN CSG.	Spud	1/3/2008	1:00 PM	GOOD CIRC THRU JOB _____			
CSG. IN HOLE				Bbls CMT CIRC TO SURFACE _____			
BEGIN CIRC				RECIPROCATED PIPE FOR <u>N/A</u> _____			
BEGIN PUMP CMT							
BEGIN DSPL. CMT				BUMPED PLUG TO _____ PSI			
PLUG DOWN							
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 Justin Crum DATE \_\_\_\_\_

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

RECEIVED  
FEB 20 2008  
DIV. OF OIL, GAS & MINING

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 area code)  
 435.646.3721

4. Location of Well    (Footage, Sec., T., R., M., or Survey Description)  
 2087 FNL 1813 FEL  
 SWNE 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 7-22-9-17

9. API Well No.  
 4301333304

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

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

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

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

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

I hereby certify that the foregoing is true and correct (Printed/Typed) Mandie Crozier	Title Regulatory Specialist
Signature <i>Mandie Crozier</i>	Date 02/19/2008

**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)

**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**

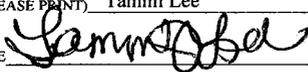
Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.

1. TYPE OF WELL: OIL WELL <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <input type="checkbox"/>		6. IF INDIAN, ALLOTTEE OR TRIBE NAME:
2. NAME OF OPERATOR: NEWFIELD PRODUCTION COMPANY		7. UNIT or CA AGREEMENT NAME: LONE TREE UNIT
3. ADDRESS OF OPERATOR: Route 3 Box 3630                      CITY Myton                      STATE UT                      ZIP 84052		8. WELL NAME and NUMBER: LONE TREE FEDERAL 7-22-9-17
4. LOCATION OF WELL: FOOTAGES AT SURFACE: 2087 FNL 1813 FEL		9. API NUMBER: 4301333304
OTR/OTR. SECTION. TOWNSHIP. RANGE. MERIDIAN: SWNE, 22, T9S, R17E		10. FIELD AND POOL, OR WILDCAT: MONUMENT BUTTE
		COUNTY: DUCHESNE
		STATE: UT

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

TYPE OF SUBMISSION	TYPE OF ACTION		
<input type="checkbox"/> NOTICE OF INTENT (Submit in Duplicate)  Approximate date work will  _____	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> REPERFORATE CURRENT FORMATION
	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> SIDETRACK TO REPAIR WELL
<input checked="" type="checkbox"/> SUBSEQUENT REPORT (Submit Original Form Only)  Date of Work Completion:  <u>02/15/2008</u>	<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: - 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 2/15/08. See attached daily activity report.

NAME (PLEASE PRINT) Tammi Lee                      TITLE Production Clerk  
SIGNATURE                       DATE 03/05/2008

(This space for State use only)

**RECEIVED**

**MAR 10 2008**

DIV. OF OIL, GAS & MINING

**Daily Activity Report**

Format For Sundry

**LONETREE 7-22-9-17****12/1/2007 To 4/29/2008****2/7/2008 Day: 1****Completion**

Rigless on 2/6/2008 - 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 @ 5478' & cement top @ 230'. Perforate stage #1. CP2 sds @ 5137- 44', CP1 sds @ 5115- 22', 5090- 94' 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. 131 BWTR. SIFN.

**2/12/2008 Day: 2****Completion**

Rigless on 2/11/2008 - Stage #1, CP1 CP2 sands. RU BJ Services. 25 psi on well. Frac CP1 & CP2 sds w/ 80,341#'s of 20/40 sand in 631 bbls of Lightning 17 fluid. Broke @ 3035 psi. Pumped 780 gals of fresh wtr mixed with 30 gals of Techni-Hib 767W. Treated w/ ave pressure of 1564 psi @ ave rate of 23.3 BPM. Pumped 504 gals of 15% HCL in flush for Stage #2. ISIP 1802 psi. Leave pressure on well. 762 BWTR Stage #2, A1 sands. RU Lone Wolf WLT, crane & lubricator. RIH w/ Weatherford 5-1/2" 5K composite flow through frac plug & 8' perf gun. Set plug @ 4800'. Perforate A1 sds @ 4680- 88' w/ 3-1/8" Slick Guns w/ 4 spf for total of 32 shots. RU BJ Services. 1408 psi on well. Frac A1 sds w/ 40,272#'s of 20/40 sand in 402 bbls of Lightning 17 fluid. Broke @ 3167 psi. Pumped 780 gals of fresh wtr mixed with 30 gals of Techni-Hib 767W. Treated w/ ave pressure of 1440 psi @ ave rate of 23.3 BPM. Pumped 504 gals of 15% HCL in flush for Stage #3. ISIP 1565 psi. Leave pressure on well. 1164 BWTR Stage #3, B.5 sands. RU Lone Wolf WLT, crane & lubricator. RIH w/ Weatherford 5-1/2" 5K composite flow through frac plug & 9' perf gun. Set plug @ 4580'. Perforate B.5 sds @ 4475- 84' w/ 3-1/8" Slick Guns w/ 4 spf for total of 36 shots. RU BJ Services. 1370 psi on well. Frac B.5 sds w/ 30,746#'s of 20/40 sand in 365 bbls of Lightning 17 fluid. Broke @ psi. Pumped 780 gals of fresh wtr mixed with 30 gals of Techni-Hib 767W. Treated w/ ave pressure of 1629 psi @ ave rate of 23.4 BPM. ISIP 1619 psi. Begin immediate flowback on 12/64 choke @ 1 BPM. Flowed for 4 hrs & died. Rec 240 BTF. SIWFN w/ 1289 BWTR

**2/13/2008 Day: 3****Completion**

Leed #731 on 2/12/2008 - MIRU Leed #731. 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 rack (tallying & drifting tbg.). Tag CBP @ 4580'. RU powerswivel & pump. SWIFN.

**2/14/2008 Day: 4****Completion**

Leed #731 on 2/13/2008 - Thaw out BOP. RIH w/ tbg. Tag @ 4575'. C/O to CBP @ 4580'. DU CBP in 25 min. Cont. RIH w/ tbg. Tag CBP 4800'. DU CBP in 30 min. Cont. RIH w/ tbg. Tag sand @ 5310'. C/O to PBDT @ 5508'. Circulate well clean. Pull up to 5443'. RU swab. SFL @ surface. Made 6 runs. Recovered 135 bbls. Trace of oil. EFL @ 2000'. RD swab. RIH w/ tbg. Tag PBDT @ 5508' (no fill). Circulate well clean. LD 9 jts 2 7/8" tbg. SWIFN.

**2/16/2008 Day: 5****Completion**

Leed #731 on 2/15/2008 - POOH w/ remaining 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 @ 5104' w/ 12,000# tension. NU wellhead. Flush tbg. w/ 60 bbls water. RIH w/ CDI rod pump, 6- 1 1/2" weight bars, 20- 3/4" guided rods, 89- 3/4" slick rods. SWIFN.

**2/19/2008 Day: 6****Completion**

Leed #731 on 2/18/2008 - Cont. RIH w/ rods. Seat pump. Stroke test to 800 psi. RU pumping unit. Hang off rods. Adjust tag. RD. Put well on production @ 1:00 p.m. 86" stroke length, 5 spm. Final

**Report.**

---

**Pertinent Files: Go to File List**

**RECEIVED**

**MAR 10 2008**

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

(See other instructions on reverse side)

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

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

5. LEASE DESIGNATION AND SERIAL NO.

UTU-13905

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

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.

43-013-33304

2. NAME OF OPERATOR

Newfield Exploration Company

9. WELL NO.

LONETREE FEDERAL 7-22-9-17

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 2087' FNL & 1813' FEL SWNE

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

SEC 22, T9S, R17E

At top prod. Interval reported below

At total depth

14. API NO. 43-013-33304 DATE ISSUED 9/19/07

12. COUNTY OR PARISH

DUCHESNE

13. STATE

UT

15. DATE SPUNDED

1/3/08

16. DATE T.D. REACHED

1/14/08

17. DATE COMPL. (Ready to prod.)

2/18/08

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

5242' GL 5254' KB

19. ELEV. CASINGHEAD

20. TOTAL DEPTH, MD & TVD

5575'

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

5508'

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 4475'-5144'

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#	326.33'	12 1/4	To surface w/ 160sx of class "G" cement	
5-1/2" J-55	15.5#	5552.95'	7 7/8	325sx of Premlite II & 400sx of 50/50 poz	

29. LINER RECORD

SIZE	TOP (MD)	BOTTOM (MD)	SACKS CEMENT*	SCREEN (MD)

30. TUBING RECORD

SIZE	DEPTH SET (MD)	PACKER SET (MD)
2-7/8"	EOT @ 5224'	TA @ 5104'

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

Interval	Size	SPF/NUMBER	Description
s 5137'-5144', CP1 sds 5115'-5122 & 5090'-5094'	.49"	4/72	5090'-5144' Frac w/80341 #'s pf 20/40 sand in 631 bbls fluid
A1 sds 4680'-4688'	.49"	4/32	4680'-4688' Frac w/ 40272 #'s of 20/40 sand in 402 bbls of fluid
B.5 sds 4475'-4484'	.49"	4/36	4475'-4484' Frac w/ 30746#'s of 20/40 sand in 365 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)					
2/18/08	2 1/2" X 1 1/2" X 14' X 18' RHAC PUMP W/ PLUNGER	PRODUCING					
DATE OF TEST	HOURS TESTED	CHOKE SIZE	PROD'N. FOR TEST PERIOD	OIL--BBL.	GAS--MCF.	WATER--BBL.	GAS-OIL RATIO
10 day ave			---	643	275	335	418
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

TEST WITNESSED BY

35. LIST OF ATTACHMENTS

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

SIGNED Tammi Lee TITLE Production Technician

Tammi Lee

RECEIVED

MAR 12 2008

DATE 3/11/2008

TL

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

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

FORMATION	TOP	BOTTOM	DESCRIPTION, CONTENTS, ETC.	GEOLOGIC MARKERS	
				NAME	TOP
				MEAS. DEPTH	TRUE VERT. DEPTH
			Well Name <b>LONETREE FEDERAL 7-22-9-17</b>	Garden Gulch Mkr 3264'	
				Garden Gulch 1 3454'	
				Garden Gulch 2 3565'	
				Point 3 Mkr 3830'	
				X Mkr 4054'	
				Y-Mkr 4090'	
				Douglas Creek Mkr 4216'	
				BiCarbonate Mkr 4444'	
				B Limestone Mkr 4555'	
				Castle Peak 5034'	
				Basal Carbonate 5438'	
				Wasatch 0	
				Total Depth (Loggers) 5577'	

# NEWFIELD



Well Name: Lone Tree 7-22-9-17

LOCATION: S22, T9S, R17E

COUNTY/STATE: Duchesne

API: 43-013-33304

Spud Date: 1-3-08

TD: 5575

CSG: 1-14-08

POP: 2-18-08

DATE	HRS	Oil (bbls)	Water (bbls)	Recovered Water (bbls)	Gas (mcf)	Casing Pressure (psi)	SPM	Comments
2/18/2008				1399				POP @ 1:00 P.M. w/ 86" SL @ 5 SPM. 1399 Total water to recover.
2/19/2008	21	0	95	1304	0	0	4	sped up to 5 SPM.
2/20/2008	24	0	80	1224	0	95	5	
2/21/2008	24	0	0	1224	0	230	5	
2/22/2008	24	0	0	1224	0	30	5	lowered rods to tag 12-15"
2/23/2008	24	0	72	1152	0	70	5 1/2	
2/24/2008	24	53	52	1100	39	55	5	
2/25/2008	12	28	39	1061	23	50	5	Down - weather
2/26/2008	24	63	12	1049	18	60	5	
2/27/2008	24	83	6	1043	18	85	5	
2/28/2008	24	0	86	957	18	65	5	
2/29/2008	24	63	33	924	35	220	5	
3/1/2008	16	5	66	858	22	110	5	Down - surface equipment repair.
3/2/2008	24	86	9	849	42	60	5	
3/3/2008	24	93	60	789	35	60	5	Drained 60 bbls water from T2 to T3, Transferred 80 bbls Oil from T3 to T2.
3/4/2008	24	66	45	744	37	60	5	
3/5/2008	24	71	16	728	25	80	5	
3/6/2008	24	86	3	725	23	85	5	
3/7/2008	24	90	11	714	20	75	5	
3/8/2008				714				
3/9/2008				714				
3/10/2008				714				
3/11/2008				714				
3/12/2008				714				
3/13/2008				714				
3/14/2008				714				
3/15/2008				714				
3/16/2008				714				
3/17/2008				714				
3/18/2008				714				
3/19/2008				714				
3/20/2008				714				
		<b>787</b>	<b>685</b>		<b>355</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)  
 2087 FNL 1813 FEL  
 SWNE 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 7-22-9-17

9. API Well No.  
 4301333304

10. Field and Pool, or Exploratory Area  
 MONUMENT BUTTE

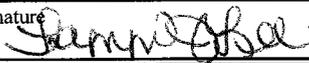
11. County or Parish, State  
 DUCHESNE, UT

**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 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.)

The above mentioned well went on production 2/15/08. See attached daily activity report.

I hereby certify that the foregoing is true and correct (Printed/ Typed) Tammi Lee	Title Production Clerk
Signature 	Date 03/05/2008

**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 U.S. States any false, fictitious and fraudulent statements or representations as to any matter within its jurisdiction

(Instructions on reverse)

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**MAR 21 2008**  
 DIV. OF OIL, GAS & MINING

**Daily Activity Report**

Format For Sundry

**LONETREE 7-22-9-17**

12/1/2007 To 4/29/2008

**2/7/2008 Day: 1****Completion**

Rigless on 2/6/2008 - 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 @ 5478' & cement top @ 230'. Perforate stage #1. CP2 sds @ 5137- 44', CP1 sds @ 5115- 22', 5090- 94' 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. 131 BWTR. SIFN.

**2/12/2008 Day: 2****Completion**

Rigless on 2/11/2008 - Stage #1, CP1 CP2 sands. RU BJ Services. 25 psi on well. Frac CP1 & CP2 sds w/ 80,341#'s of 20/40 sand in 631 bbls of Lightning 17 fluid. Broke @ 3035 psi. Pumped 780 gals of fresh wtr mixed with 30 gals of Techni-Hib 767W. Treated w/ ave pressure of 1564 psi @ ave rate of 23.3 BPM. Pumped 504 gals of 15% HCL in flush for Stage #2. ISIP 1802 psi. Leave pressure on well. 762 BWTR Stage #2, A1 sands. RU Lone Wolf WLT, crane & lubricator. RIH w/ Weatherford 5-1/2" 5K composite flow through frac plug & 8' perf gun. Set plug @ 4800'. Perforate A1 sds @ 4680- 88' w/ 3-1/8" Slick Guns w/ 4 spf for total of 32 shots. RU BJ Services. 1408 psi on well. Frac A1 sds w/ 40,272#'s of 20/40 sand in 402 bbls of Lightning 17 fluid. Broke @ 3167 psi. Pumped 780 gals of fresh wtr mixed with 30 gals of Techni-Hib 767W. Treated w/ ave pressure of 1440 psi @ ave rate of 23.3 BPM. Pumped 504 gals of 15% HCL in flush for Stage #3. ISIP 1565 psi. Leave pressure on well. 1164 BWTR Stage #3, B.5 sands. RU Lone Wolf WLT, crane & lubricator. RIH w/ Weatherford 5-1/2" 5K composite flow through frac plug & 9' perf gun. Set plug @ 4580'. Perforate B.5 sds @ 4475- 84' w/ 3-1/8" Slick Guns w/ 4 spf for total of 36 shots. RU BJ Services. 1370 psi on well. Frac B.5 sds w/ 30,746#'s of 20/40 sand in 365 bbls of Lightning 17 fluid. Broke @ psi. Pumped 780 gals of fresh wtr mixed with 30 gals of Techni-Hib 767W. Treated w/ ave pressure of 1629 psi @ ave rate of 23.4 BPM. ISIP 1619 psi. Begin immediate flowback on 12/64 choke @ 1 BPM. Flowed for 4 hrs & died. Rec 240 BTF. SIWFN w/ 1289 BWTR

**2/13/2008 Day: 3****Completion**

Leed #731 on 2/12/2008 - MIRU Leed #731. 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 rack (tallying & drifting tbg.). Tag CBP @ 4580'. RU powerswivel & pump. SWIFN.

**2/14/2008 Day: 4****Completion**

Leed #731 on 2/13/2008 - Thaw out BOP. RIH w/ tbg. Tag @ 4575'. C/O to CBP @ 4580'. DU CBP in 25 min. Cont. RIH w/ tbg. Tag CBP 4800'. DU CBP in 30 min. Cont. RIH w/ tbg. Tag sand @ 5310'. C/O to PBDT @ 5508'. Circulate well clean. Pull up to 5443'. RU swab. SFL @ surface. Made 6 runs. Recovered 135 bbls. Trace of oil. EFL @ 2000'. RD swab. RIH w/ tbg. Tag PBDT @ 5508' (no fill). Circulate well clean. LD 9 jts 2 7/8" tbg. SWIFN.

**2/16/2008 Day: 5****Completion**

Leed #731 on 2/15/2008 - POOH w/ remaining 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 @ 5104' w/ 12,000# tension. NU wellhead. Flush tbg. w/ 60 bbls water. RIH w/ CDI rod pump, 6- 1 1/2" weight bars, 20- 3/4" guided rods, 89- 3/4" slick rods. SWIFN.

**2/19/2008 Day: 6****Completion**

Leed #731 on 2/18/2008 - Cont. RIH w/ rods. Seat pump. Stroke test to 800 psi. RU pumping unit. Hang off rods. Adjust tag. RD. Put well on production @ 1:00 p.m. 86" stroke length, 5 spm. Final

**Report.**

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**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>

**APR 09 2009**

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: Additional Well: Lone Tree Area Permit  
Additional Testing Required on Injection well and  
Corrective Action Required on AOR well  
**UIC Permit No. UT20853-00000**  
**Well ID: UT20853-08353**  
Lone Tree Federal 7-22-9-17  
2087' FNL & 1813' FEL  
SWNE Sec. 22 T9S-R17E  
Duchesne County, Utah  
API #43-013-33304

Dear Mr. Sundberg:

The Newfield Production Company's request to convert the former Green River Formation oil well Lone Tree Federal 7-22-9-17 to an enhanced recovery injection well under the Lone Tree Area Permit is hereby authorized by the Environmental Protection Agency (EPA) under the terms and conditions of the Authorization for Additional Well.

The addition of the proposed 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 injection operations into the well until all Prior to Commencing Injection requirements have been submitted and evaluated by the EPA, and has received written authorization from the Director to begin injection. Please note that the Permit limits injection to the gross interval within the Green River Formation between the depths of 3,262 feet and the top of the Wasatch Formation, estimated at 5,662 feet.

**RECEIVED**  
**APR 13 2009**  
**DIV. OF OIL, GAS & MINING**

Prior to receiving authorization to inject, the EPA requires that Newfield submit for review and approval: (1) the results of a **Part 1 (Internal) mechanical integrity test (MIT)**, (2) a **pore pressure** calculation of the injection interval, (3) the results of a **radioactive tracer survey within a 180-day authorization to inject**, and (4) a **completed EPA Form No. 7520-12 (Well Rework Record)** with a new schematic diagram.

The initial Maximum Allowable Injection Pressure (MAIP) for the Lone Tree Federal 7-22-9-17 was determined to be **1,475 psig**. UIC Area Permit UT20853-00000 also provides the opportunity for the permittee to request a change in the MAIP based upon results of a step rate test that demonstrates that the formation breakdown pressure will not be exceeded.

If you have any questions, please call Sarah Bahrman at (303) 312-6243 or 1-(800)-227-8917 (Ext. 312-6243). Please submit the required data to **ATTENTION: Sarah Bahrman**, at the letterhead address, citing **MAIL CODE: 8P-W-GW** very prominently.

Sincerely,



Eddie A. Sierra  
Acting Assistant Regional Administrator  
Office of Partnerships and Regulatory Assistance

Encl: Authorization for Conversion of An Additional Well  
EPA Form No. 7520-12 (Well Rework Record)  
Proposed Wellbore and P&A Wellbore schematics for Lone Tree Federal 7-22-9-17

cc: Permit Letter:  
Uintah & Ouray Business Committee:  
Curtis Cesspooch, Chairman  
Ronald Groves, Councilman  
Irene Cuch, Vice-Chairwoman  
Steven Cesspooch, Councilman  
Phillip Chimburas, Councilman  
Frances Poowegup, Councilwoman

Daniel Picard  
BIA - Uintah & Ouray Indian Agency

All Enclosures:

Ferron Secakuku  
Director, Natural Resources  
Ute Indian Tribe

Larry Love  
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 No: UT20853-00000**

The Lone Tree Unit Final UIC Area Permit No. UT20853-00000, effective September 1, 1998, authorizes injection for the purpose of enhanced oil recovery in the Monument Butte Field. On February 5, 2009, Newfield Production Company notified the Director concerning the following additional enhanced recovery injection well:

Well Name:	<b><u>Lone Tree Federal 7-22-9-17</u></b>
EPA Well ID Number:	<b><u>UT20853-08353</u></b>
Location:	2087' FNL & 1813' FEL SW NE Sec. 22 T9S-R17E Duchesne County, Utah API #43-013-33304

Pursuant to 40 CFR §144.33, Area UIC Permit No. 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: **APR 09 2009**

  
for **Eddie A. Sierra**  
\*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*

Authorization for Additional Well: UIC Area Permit UT20853-00000  
Well: Lone Tree Federal 7-22-9-17 EPA Well ID: UT20853-08353

## INJECTION WELL-SPECIFIC REQUIREMENTS

Well Name: **Lone Tree Federal 7-22-9-17**  
EPA Well ID Number: **UT20853-08353**

### 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. A successful Part I (internal) Mechanical Integrity test (MIT)

Once these records are received and approved by EPA, the Director will provide written authorization to inject for a limited period of 180 days, during which time a **Radioactive Tracer Survey (RTS) is required** to demonstrate no significant upward migration of injection fluids behind the casing from the injection zone. It is intended that a maximum of 180 days of injection will allow the injection zone to adequately pressurize prior to executing the RTS.

**Approved Injection Zone:** Injection is approved between the top of the Garden Gulch Member of the Green River Formation [3,262 feet (KB)] to the top of the Wasatch Formation, which is estimated to be at a depth of [5,662 feet (KB)].

**Maximum Allowable Injection Pressure (MAIP):** The initial MAIP is **1,475 psig**, based on the following calculation:

$$\begin{aligned} \text{MAIP} &= [\text{FG} - (0.433)(\text{SG})] * \text{D}, \text{ where} \\ \text{FG} &= 0.77 \text{ psi/feet} \quad \text{SG} = 1.015 \quad \text{D} = \mathbf{4,475 \text{ feet}} \text{ (top perforation depth KB)} \\ \text{MAIP} &= \mathbf{1,475 \text{ psig}} \end{aligned}$$

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 breakdown pressure will not be exceeded.

**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). However, cementing records, including the cement bond log, have not 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 50 feet 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) Because the cementing records have not satisfactorily demonstrated the presence of adequate cement to prevent migration of injection fluids behind the casing from the injection zone, a RTS is required to confirm the presence of adequate cement. If the RTS is not run, or if the RTS does not confirm adequate cement, the permittee shall demonstrate Part II (External) Mechanical Integrity pursuant to 40 CFR §146.8(a)(2) using an approved test method such as temperature log, noise log or oxygen activation log, and the demonstration of Part II Mechanical Integrity shall be repeated no less than every five years after the last successful test.

**Demonstration of Financial Responsibility:** The applicant has demonstrated financial responsibility by a Financial Statement in the amount of \$59,344 that has been approved by the 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 USDWs. 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) no more than 50 ft above the top perforation with a minimum of 20 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 Zone and the Mahogany Bench from approximately 2,411 ft to 2,573 ft (KB) unless pre-existing backside cement precludes cement-squeezing this interval. Set a minimum 162-foot balanced cement plug inside the 5-1/2" casing from approximately 2,411 to 2,573 ft (KB).

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 1,081 ft (KB) unless pre-existing backside cement precludes cement-squeezing this interval. Set a minimum 120-foot plug inside the 5-1/2" casing from approximately 1,021-1,141 ft (KB).

PLUG NO. 4: Set a Class "G" cement plug within the 5-1/2" casing to 904 ft. and up the 5-1/2" x 8-5/8" casing annulus to the surface.

## INJECTION WELL-SPECIFIC CONSIDERATIONS

Well Name: **Lone Tree Federal 7-22-9-17**  
EPA Well ID Number: **UT20853-08353**

**Underground Sources of Drinking Water (USDWs):** USDWs in the Lone Tree Unit 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 854 ft (KB) below ground surface in the Lone Tree Federal 7-22-9-17 well.

**http:NRWRT1.NR.STATE.UT.US:**

There are no reservoirs, streams, domestic or agricultural water wells within a quarter (1/4) mile of the well.

**Composition of Source, Formation, and Injectate Water: (Total Dissolved Solids [TDS]:**

- TDS of the Douglas Creek Member of the Green River Formation Water: 37,251 mg/l.  
- TDS of Beluga Facility Injection System source water: 8,822 mg/l.  
The **injectate** is water from the Beluga Facility Injection System blended with produced Green River Formation Water resulting in TDS < 10,000 mg/l.

**Aquifer Exemption** is not required because the TDS of water produced from the proposed injection well is greater than 10,000 mg/l.

**Confining Zone:** The Confining Zone, which directly overlies the Garden Gulch Member of the Green River Formation, is approximately 199 feet of shale between the depths of 3,063 ft and 3,262 ft (KB).

**Injection Zone:** The Injection Zone at this well location is approximately 2,400 ft of multiple lenticular sand units interbedded with shale, marlstone and limestone from the top of the Garden Gulch Member at 3,262 feet (KB) to the top of the Wasatch Formation which is estimated to be at 5,662 ft (KB). All formation tops are based on correlations to the Newfield Production Federal #1-26-8-17 (UT20702-04671) Type Log.

**Well Construction:** The CBL does not show at least 18 ft of 80% or greater cement bond in the Confining Zone. Thus, further demonstration that well cement is adequate to prevent significant migration of injection fluids behind casing is required.

**Surface Casing:** 8-5/8" casing is set at 326 ft (KB) 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 5,553 ft (KB) in a 7-7/8" hole secured with 725 sacks of cement. Total drilled depth 5,575 ft. Plugged back total depth is 5,508 ft. EPA calculates top of cement at 98 ft. Estimated CBL top of cement is 230 ft.

**Perforations:** Top perforation: **4,475 ft** (KB)                      Bottom perforation: **5,144 ft** (KB)

## AREA OF REVIEW (AOR) WELL REQUIREMENTS

The following five (5) wells that penetrate the confining zone within or proximate to a 1/4 mile radius around the Lone Tree Federal 7-22-9-17 were evaluated to determine if any corrective action is necessary to prevent fluid movement into USDWs.

Well: South Pleasant Valley Federal 2-22-9-17, API: 43-013-32023; NWNE Sec. 22-T9S-R17E

Well: Lone Tree Federal 6-22-9-17 API: 43-013-33303 SENW Sec. 22-T9S-R17E

Well: Lone Tree Federal 8-22-9-17 API: 43-013-33305 SENE Sec. 22-T9S-R17E

Well: Lone Tree Federal 10-22-9-17 API: 43-013-33307 NWSE Sec. 22-T9S-R17E

Well: Lone Tree Federal C-22-9-17 API: 43-013-34158 SENW Sec. 22-T9S-R17E

### Corrective Action Required on one AOR well:

Well: South Pleasant Valley Federal 2-22-9-17, API: 43-013-32023; NWNE Sec. 22-T9S-R17E

The CBL for this well does not show a section with good cement bond in either the amplitude or variable density portions of the log. Thus, a value for 80% cement bond index cannot adequately be estimated for this well. Newfield has the option of either submitting a new CBL for this well prior to receiving an authorization to inject or following the corrective action plan detailed below. If a new cement bond log is submitted that does not show at least 18 feet of 80 percent cement bond index across confining zone, corrective action will be required on this AOR well. TOC at approximately 1740 ft. Refer to corrective action plan described below.

**AOR Well Corrective Action Plan:** The S Pleasant Valley Federal 2-22-9-17 well shall be monitored weekly at the surface for evidence of fluid movement out of the injection zone.

In addition, Newfield developed a corrective action monitoring program, effective July 10, 2008, entitled "Procedure related to proposed Class II Enhanced Oil Recovery Injection Wells determined by the EPA to have specific Area of Review (AOR) wells with inadequate cement across the Confining Zone" and the permittee is referred to this document.

If possible fluid movement out of the Injection Zone is identified, either through the weekly monitoring, through Newfield's July 10, 2008 procedure described above, or through any other means, (for example, evidence of fluid flow or increased bradenhead annulus pressure readings, the Permittee will shut in the Lone Tree Federal 7-22-9-17 well immediately and notify the Director. No injection into the Lone Tree Federal 7-22-9-17 well will be permitted until the Permittee has notified the Director that the situation has been resolved, submitted Reword Records (EPA Form No. 7520-12) and a schematic diagram, and received authorization from the Director to re-commence injection.

**Corrective Action Not Required on four AOR wells:**

Well: Lone Tree Federal 6-22-9-17 API: 43-013-33303 SENW Sec. 22-T9S-R17E  
Shows 44 ft of 80 percent or greater cement bond index through the confining zone from 3,129-3,173 ft.

Well: Lone Tree Federal 8-22-9-17 API: 43-013-33305 SENE Sec. 22-T9S-R17E  
Shows 160 ft of 80 percent or greater cement bond index through the confining zone from 3,021-3,181 ft.

Well: Lone Tree Federal 10-22-9-17 API: 43-013-33307 NWSE Sec. 22-T9S-R17E  
Shows 38 ft of 80 percent or greater cement bond index through the confining zone from 3,114-3,152 ft.

Well: Lone Tree Federal C-22-9-17 API: 43-013-34158 SENW Sec. 22-T9S-R17E  
Shows 43 ft of 80 percent or greater cement bond index through the confining zone from 3,316-3,359 ft.

**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 no later than thirty (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 (5) 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 a USDW.
- (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) 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 (2) weeks of the time such information became known to him.

01 20833-00000

Spud Date: 01/03/08  
Put on Prod.: 02/18/08  
✓ GI.: 5242' KB: 5254

# Lone Tree Federal 7-22-9-17

Initial Production:

## Proposed Injection Wellbore Diagram

## FRAC JOB

### ✓ SURFACE CASING

CSG SIZE: 8-5/8"  
GRADE: J-55  
WEIGHT: 24#  
LENGTH: 7 jts. (315.43')  
DEPTH LANDED: 326.33' KB  
HOLE SIZE: 12-1/4"  
CEMENT DATA: 1- 160, sxs Class "G" cmt, est 0 bbls cmt to surf.

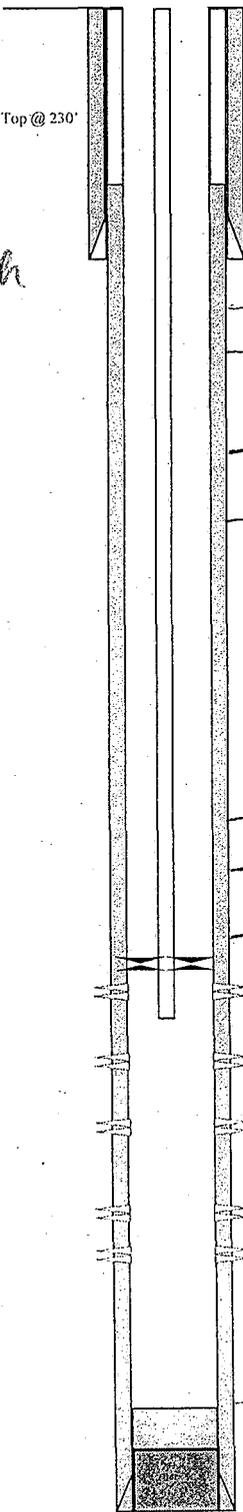
*EPATOC calc = 98'*  
*No stretch of 18ft+ of 80% cement bond index through CZ.*

### ✓ PRODUCTION CASING

CSG SIZE: 5-1/2"  
GRADE: J-55  
WEIGHT: 15.5#  
LENGTH: 129 jts. (5553.70')  
DEPTH LANDED: 3552.95' KB  
HOLE SIZE: 7-7/8"  
CEMENT DATA: 325 sxs Prem. Lite II mixed & 400 sxs 50/50 POZ.  
✓ CEMENT TOP: 230'

### TUBING

SIZE/GRADE/WT.: 2-7/8" / J-55 / 6.5#  
NO. OF JOINTS: 162 jts (5091.95')  
TUBING ANCHOR: 5103.95' KB  
NO. OF JOINTS: 2jts (6286')  
SEATING NIPPLE: 2-7/8" (1.10')  
SN LANDED AT: 5169.61' KB  
NO. OF JOINTS: 2jts (62.37')  
TOTAL STRING LENGTH: EOF @ 5233.53' KB



02/11/08 5090-5144' Frac CP2 & CP1 sands as follows:  
80341# 20/40 sand in 631 bbls Lightning 17 frac fluid. Treated @ avg press of 1564 psi w/avg rate of 23.3 BPM. ISIP 1802 psi.  
02/11/08 4680-4688' Frac A1 sands as follows:  
40272# 20/40 sand in 402 bbl Lightning 17 frac fluid. Treated @ avg press of 1440 psi w/avg rate of 23.3 BPM. ISIP 1565 psi.  
02/11/08 4475-4484' Frac B.5 sands as follows:  
30746# 20/40 sand in 365 bbls Lightning 17 frac fluid. Treated @ avg press of 1629 psi w/avg rate of 23.4 BPM. ISIP 1619 psi.

-854' Base USDW (est. Pub 92)  
-1081' Green River  
-2461' Trona  
-2501' Mahogany Bench (to 2523')

-3063' Confining Zone  
-3262' Garden Gulch  
-4214' Douglas Creek

### ✓ PERFORATION RECORD

5137-5144'	4 JSPF	28 holes
5115-5122'	4 JSPF	28 holes
5090-5094'	4 JSPF	16 holes
4680-4688'	4 JSPF	32 holes
4475-4484'	4 JSPF	36 holes

-5437' Basal Carbonate

PBTD @ 5508' ✓

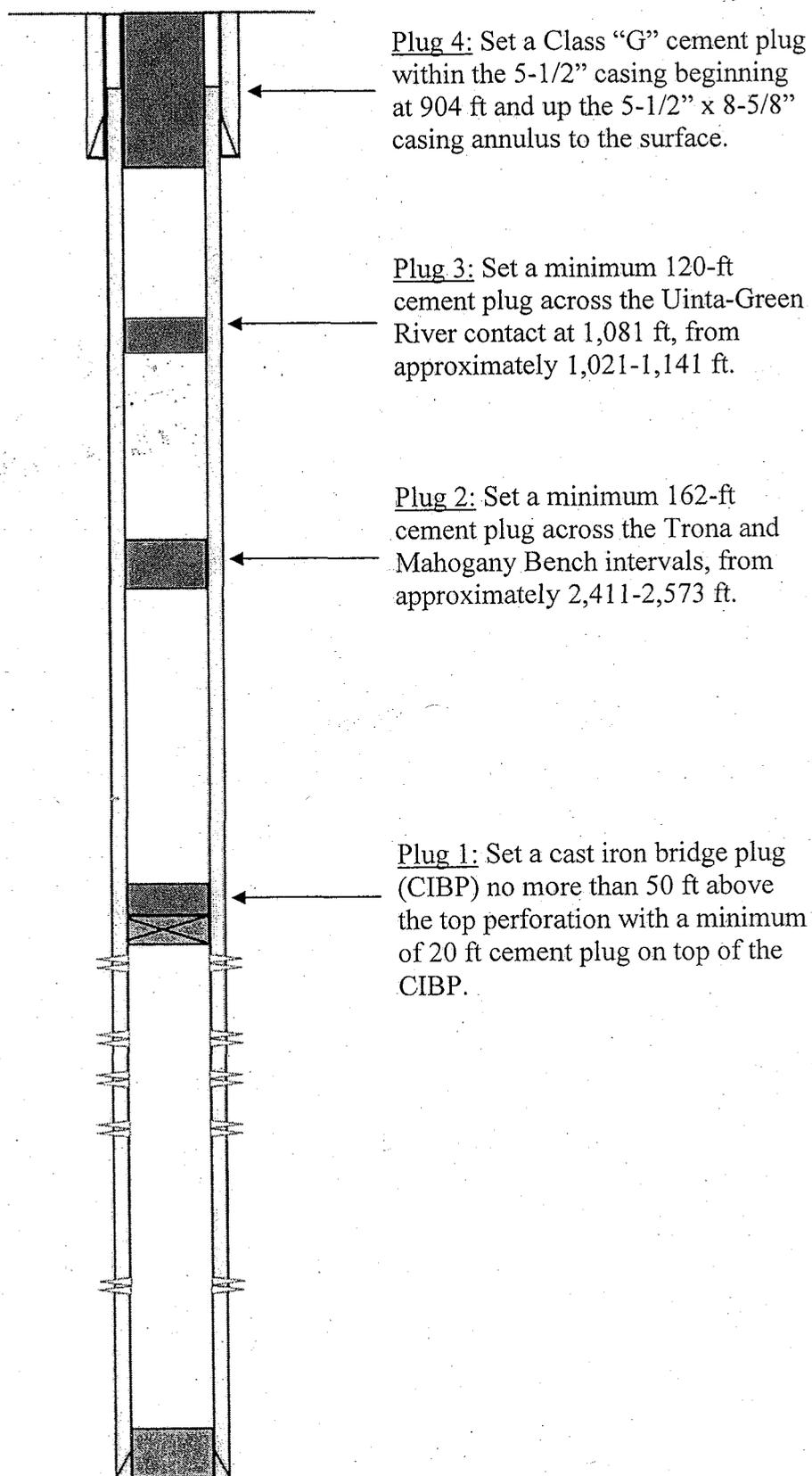
TD @ 5575 ✓

-5662' Wasatch (est.)

**NEWFIELD**

Lone Tree Federal 7-22-9-17  
2087' FNL & 1813' FEL  
SW/NE Sec. 22, T9S R17E  
Duchesne County  
API# 43-013-33304; Lease# U-13905

## Plugging and Abandonment Diagram for Beluga Federal 12-18-9-17





UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
REGION 8

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

Ref: 8P-W-UIC

MAY 10 2012

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

RECEIVED

MAY 14 2012

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

DIV. OF OIL, GAS & MINING

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 UT20853-09633  
Well: Lone Tree Federal 7-22-9-17  
SWNE Sec. 22 T9S-R17E  
Duchesne County, Utah  
API No.: 43-013-33304

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 7-22-9-17 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 Emmett Schmitz at (303) 312-6174 or (800) 227-8917, extension 312-6174.

Please submit the required data to Jason Deardorff at the letterhead address citing mail code 8P-W-UIC

Sincerely,



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

Enclosures: Authorization for Additional Well  
Proposed Conversion Wellbore Schematic for Lone Tree Federal 7-22-9-17

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 March 23, 2012, Newfield Production Company notified the Director concerning the following additional enhanced recovery injection well:

Well Name: Lone Tree Federal 7-22-9-17
EPA Permit ID Number: UT20853-09633
Location: 2087' FNL & 1813' FEL
SWNE Sec. 22-T9S-R17E
Duchesne County, Utah
API #43-013-33304

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: 5/7/12
[Signature]

for 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 7-22-9-17

EPA Well ID Number: UT20853-09633

### **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 **1,610 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 0.800 psi/ft, SG is 1.015 and D is 4,475 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.
- (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 7-22-9-17**  
EPA Well ID Number: **UT20853-09633**

**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 742 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 UT20853-00000 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

*Authorization for Additional Well: UIC Area Permit UT20853-00000*  
*Well: Lone Tree Federal 7-22-9-17 EPA Well ID: UT20853-09633*

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:** . This well was constructed 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 326 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 5,553 ft. in a 7-7/8" hole secured with 725 sacks of cement. Total driller depth is 5,575 ft. Plugged back total depth is 5,508 ft. EPA calculates top of cement at 761 ft. Estimated CBL top of cement is 230 ft.

**Perforations:** Top perforation: 4,475 ft. Bottom perforation: 5,144 ft.

## AREA OF REVIEW (AOR) WELL REQUIREMENTS

The following five wells that penetrate the confining zone within or proximate to a ¼-mile radius around the Lone Tree Federal 7-22-9-17 well were evaluated to determine if any corrective action is necessary to prevent fluid movement into USDWs:

Lone Tree Federal 8-22-9-17	API: 43-013-33305	SENE Sec. 22-T9S-R17E
Lone Tree Federal 6-22-9-17	API: 43-013-33303	SENW Sec. 22-T9S-R17E
Lone Tree Federal 2-22-9-17	API: 43-013-32023	NWNE Sec. 22-T9S-R17E
No 80% bond index cement in Confining Zone.		
Lone Tree Federal H-22-9-17	API: 43-013-34158	SHL: SENW Sec. 22-T9S-R17E BHL: NWNE Sec. 22-T9S-R17E
Lone Tree Federal 10-22-9-17	API: 43-013-33307	NWSE Sec. 22-T9S-R17E

**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.

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- 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.

Spud Date: 01/03/08

Put on Prod.: 02/18/08

GL:5242' KB:5254

# Lone Tree Federal 7-22-9-17

Initial Production:

## SURFACE CASING

CSG SIZE: 8-5/8"  
 GRADE: J-55  
 WEIGHT: 24#  
 LENGTH: 7 jts. (315.43')  
 DEPTH LANDED: 326.33' KB  
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 CEMENT DATA: 1- 160, sxs Class "G" cmt, est 0 bbls cmt to surf.

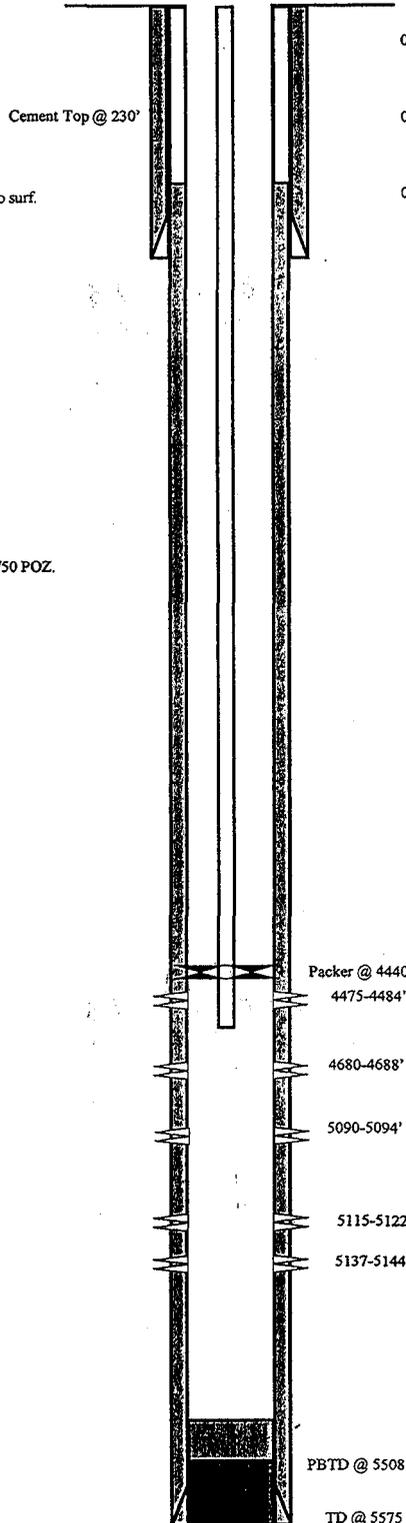
## PRODUCTION CASING

CSG SIZE: 5-1/2"  
 GRADE: J-55  
 WEIGHT: 15.5#  
 LENGTH: 129 jts. (5553.70')  
 DEPTH LANDED: 5552.95' KB  
 HOLE SIZE: 7-7/8"  
 CEMENT DATA: 325 sxs Prem. Lite II mixed & 400 sxs 50/50 POZ.  
 CEMENT TOP: 230'

## TUBING

SIZE/GRADE/WT.: 2-7/8" / J-55 / 6.5#  
 NO. OF JOINTS: 162 jts (5091.95')  
 TUBING ANCHOR: 5103.95' KB  
 NO. OF JOINTS: 2jts (6286')  
 SEATING NIPPLE: 2-7/8" (1.10')  
 SN LANDED AT: 5169.61' KB  
 NO. OF JOINTS: 2jts (62.37')  
 TOTAL STRING LENGTH: EOT @ 5233.53' KB

## Proposed Injection Wellbore Diagram



## FRAC JOB

02/11/08 5090-5144' **Frac CP2 & CP1 sands as follows:**  
 80341# 20/40 sand in 631 bbls Lightning 17 frac fluid. Treated @ avg press of 1564 psi w/avg rate of 23.3 BPM. ISIP 1802 psi.  
 02/11/08 4680-4688' **Frac A1 sands as follows:**  
 40272# 20/40 sand in 402 bbl Lightning 17 frac fluid. Treated @ avg press of 1440 psi w/avg rate of 23.3 BPM. ISIP 1565 psi.  
 02/11/08 4475-4484' **Frac B.5 sands as follows:**  
 30746# 20/40 sand in 365 bbls Lightning 17 frac fluid. Treated @ avg press of 1629 psi w/avg rate of 23.4 BPM. ISIP 1619 psi.

## PERFORATION RECORD

5137-5144'	4 JSPF	28 holes
5115-5122'	4 JSPF	28 holes
5090-5094'	4 JSPF	16 holes
4680-4688'	4 JSPF	32 holes
4475-4484'	4 JSPF	36 holes

**NEWFIELD**

Lone Tree Federal 7-22-9-17  
 2087' FNL & 1813' FEL  
 SW/NE Sec. 22, T9S R17E  
 Duchesne, County  
 API# 43-013-33304; Lease# U-13905

<b>STATE OF UTAH</b> DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING	FORM 9  <b>5. LEASE DESIGNATION AND SERIAL NUMBER:</b> UTU-13905
<b>SUNDRY NOTICES AND REPORTS ON WELLS</b>  Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.	<b>6. IF INDIAN, ALLOTTEE OR TRIBE NAME:</b>  <b>7. UNIT or CA AGREEMENT NAME:</b> GMBU (GRRV)
<b>1. TYPE OF WELL</b> Oil Well	<b>8. WELL NAME and NUMBER:</b> LONE TREE FED 7-22-9-17
<b>2. NAME OF OPERATOR:</b> NEWFIELD PRODUCTION COMPANY	<b>9. API NUMBER:</b> 43013333040000
<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> 2087 FNL 1813 FEL <b>QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:</b> Qtr/Qtr: SWNE Section: 22 Township: 09.0S Range: 17.0E Meridian: S	<b>9. FIELD and POOL or WILDCAT:</b> MONUMENT BUTTE  <b>COUNTY:</b> DUCHESNE  <b>STATE:</b> UTAH

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

TYPE OF SUBMISSION	TYPE OF ACTION		
<input 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: 8/9/2012	<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 08/08/2012. On 07/31/2012 Jason Deardorff with the EPA was contacted concerning the initial MIT on the above listed well. On 08/09/2012 the casing was pressured up to 1590 psig and charted for 30 minutes with no pressure loss. The well was not injecting during the test. The tubing pressure was 400 psig during the test. There was not an EPA representative available to witness the test. EPA# UT20853-08353

**Accepted by the  
 Utah Division of  
 Oil, Gas and Mining  
 FOR RECORD ONLY  
 August 28, 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> 8/15/2012	

# 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: 8, 9, 2012  
 Test conducted by: Cody Marx  
 Others present: \_\_\_\_\_

Well Name: <u>7-22-9-17</u>	Type: ER SWD	Status: AC TA UC
Field: <u>Monument Butte</u>		
Location: <u>SWSE</u> Sec: <u>22</u> T <u>9</u> N <u>(S)</u> 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: \_\_\_\_\_ psig

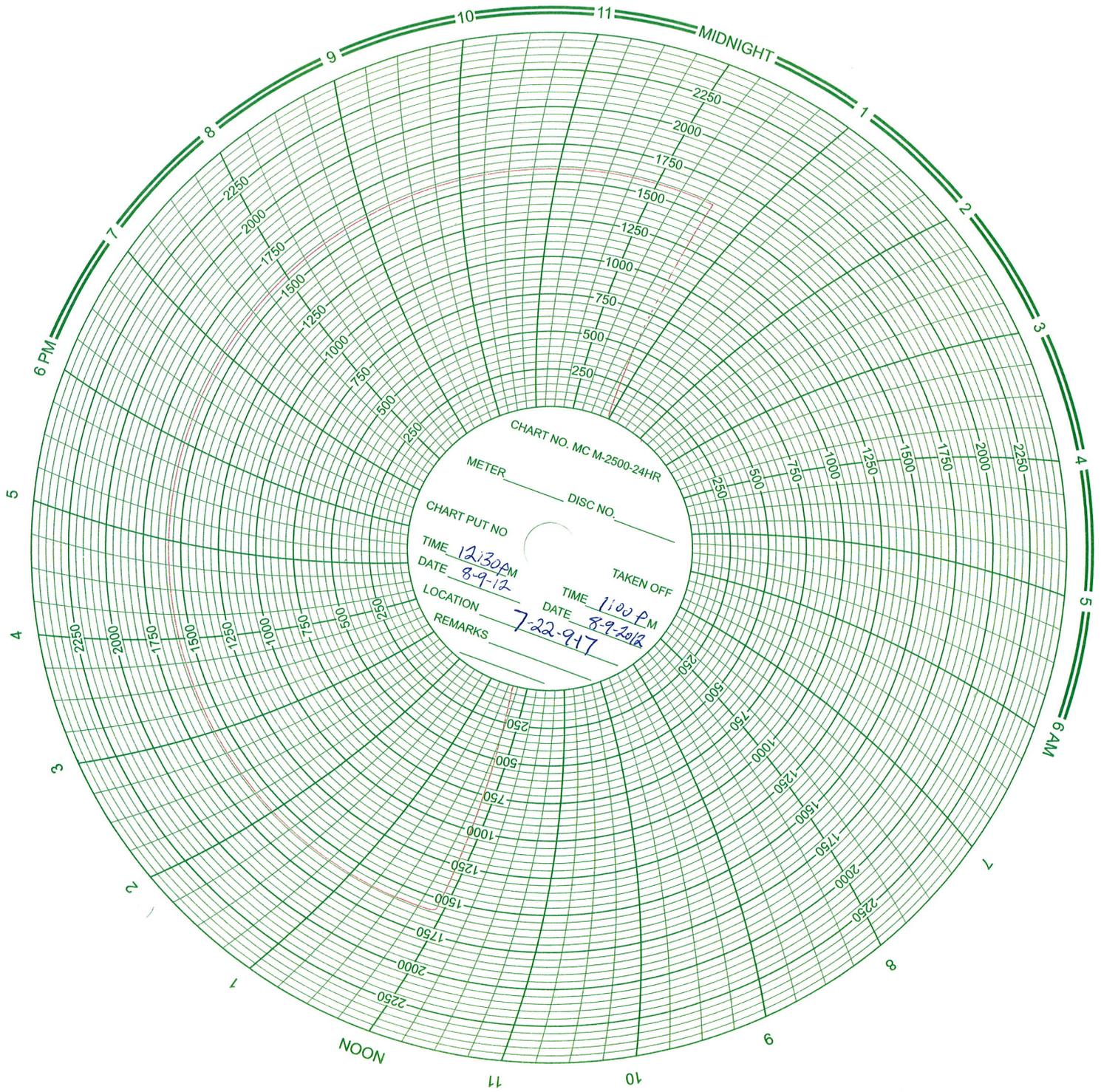
MIT DATA TABLE	Test #1	Test #2	Test #3
<b>TUBING PRESSURE</b>			
Initial Pressure	<u>400</u> psig	psig	psig
End of test pressure	<u>400</u> psig	psig	psig
<b>CASING / TUBING ANNULUS PRESSURE</b>			
0 minutes	<u>1590</u> psig	psig	psig
5 minutes	<u>1590</u> psig	psig	psig
10 minutes	<u>1590</u> psig	psig	psig
15 minutes	<u>1590</u> psig	psig	psig
20 minutes	<u>1590</u> psig	psig	psig
25 minutes	<u>1590</u> psig	psig	psig
30 minutes	<u>1590</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 7-22-9-17**  
**6/1/2012 To 10/30/2012**

**8/3/2012 Day: 1**

**Conversion**

NC #2 on 8/3/2012 - MIRUSU, POOH W/- Rods - Move From The Yard To The LT 7-22-9-17, MIRUSU, R/U H/Oiler To Csg, Pmp 60 Bbls Wtr, R/D Pmp Unit, Unseat Rod Pmp, R/U H/Oiler To Tbg, Pmp 40 Bbls Wtr, Reseat Rod Pmp, Fill & Pressure Test Tbg To 3,000 Psi, Good Test, Took 7 Bbls Wtr To Fill, POOH & L/D W/- 1- 2' x 3/4" Pony Sub, 1 1/2" x 26' Polished Rod, 1- 2', 1- 6', 1- 8' x 3/4" Pony Subs, 91- 3/4" Guided Rods, 88- 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, SWI, CSDFN @ 7:00 PM, 7:00 To 7:30 PM C/Trvl.

**Daily Cost:** \$0

**Cumulative Cost:** \$9,210

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**8/6/2012 Day: 2**

**Conversion**

NC #2 on 8/6/2012 - POOH W/-Tbg Breaking & Dopeing Every Collar - 5:30 To 6:00 Am C/Trvl, 6:00 AM OWU, Rig Maintenance, X - Over For Tbg, R/D Wellhead, R/U Weatherford BOPS, R/U Sandline, RIH W/- Sandline, Tag PBTD @ 5508', No New Fill On PBTD, R/D Sandline, POOH Breaking & Dopeing Every Collar, POOH W/- 140- Jts Tbg, SWI, CSDFN @ 7:00 PM, 7:00 To 7:30 PM C/Trvl.

**Daily Cost:** \$0

**Cumulative Cost:** \$16,685

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**8/7/2012 Day: 3**

**Conversion**

NC #2 on 8/7/2012 - TIH W/- Pkr & Tbg, Pressure Test Tbg, Set Pkr, Pressure Test Csg - 5:30 To 6:00 Am C/Trvl, 6:00 AM OWU, R/U H/Oiler To Tbg, Flush W/- 20 Bbls WTr, L/D 26- Jts Tbg On Trailer, P/U & TIH W/- 2 3/8" Re-Entry Guide, 2 3/8" "XN" 1.875 Profile Nipple, 2 3/8" x 4' Tbg Sub, 2 7/8" x 2 3/8" X -Over, 5 1/2" Arrowset Pkr, 1.875 "X" Seal Nipple, 2 7/8" On/Off Skirt, 2 7/8" SN, 140- Jts Tbg, R/U H/Oiler To Tbg, Pressure Test Tbg To 3,000 Psi For Approx. 1 Hr, Good Test, R/U Sandline, Fish Stnd Vlve, R/D Sandline, R/D Weatherford 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, Pressure Test Csg To 1,500 Psi, Lost 50 Psi In 30 Min, Bumped Up Csg To 1,500 Psi...SWIFN 5:30PM To 6:00PM

**Daily Cost:** \$0

**Cumulative Cost:** \$30,405

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**8/8/2012 Day: 4**

**Conversion**

NC #2 on 8/8/2012 - Pressure Test Csg - 5:30 To 6:00 Am C/Trvl, 6:00 AM OWU, Csg Lost 50 Psi Over Night 1500# To 1450#, RU H/ Oiler Bumped Up Csg To 1550 Psi, Csg Held Pressure For One Hour @ 1550 Psi, GOOD TEST.. Ready For MIT..RDMO To L-31-8-17

**Daily Cost:** \$0

**Cumulative Cost:** \$113,074

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**8/15/2012 Day: 5**

**Conversion**

Rigless on 8/15/2012 - Conduct initial MIT - On 07/31/2012 Jason Deardorff with the EPA was contacted concerning the initial MIT on the above listed well. On 08/09/2012 the casing was pressured up to 1590 psig and charted for 30 minutes with no pressure loss. The well was not injecting during the test. The tubing pressure was 400 psig during the test. There was not an EPA representative available to witness the test. EPA# UT20853-08353 **Finalized**

**Daily Cost:** \$0

**Cumulative Cost:** \$144,344

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

<b>STATE OF UTAH</b> DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		<b>FORM 9</b>
<b>SUNDRY NOTICES AND REPORTS ON WELLS</b>  Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.		<b>5. LEASE DESIGNATION AND SERIAL NUMBER:</b> UTU-13905
<b>1. TYPE OF WELL</b> Water Injection Well		<b>6. IF INDIAN, ALLOTTEE OR TRIBE NAME:</b>
<b>2. NAME OF OPERATOR:</b> NEWFIELD PRODUCTION COMPANY		<b>7. UNIT or CA AGREEMENT NAME:</b> GMBU (GRRV)
<b>3. ADDRESS OF OPERATOR:</b> Rt 3 Box 3630 , Myton, UT, 84052		<b>8. WELL NAME and NUMBER:</b> LONE TREE FED 7-22-9-17
<b>4. LOCATION OF WELL</b> <b>FOOTAGES AT SURFACE:</b> 2087 FNL 1813 FEL <b>QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:</b> Qtr/Qtr: SWNE Section: 22 Township: 09.0S Range: 17.0E Meridian: S		<b>9. API NUMBER:</b> 43013333040000
<b>PHONE NUMBER:</b> 435 646-4825 Ext		<b>9. FIELD and POOL or WILDCAT:</b> MONUMENT BUTTE
<b>COUNTY:</b> DUCHESNE		<b>STATE:</b> UTAH
11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA		
<b>TYPE OF SUBMISSION</b>	<b>TYPE OF ACTION</b>	
<input type="checkbox"/> NOTICE OF INTENT Approximate date work will start:	<input type="checkbox"/> ACIDIZE	
<input checked="" type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion: 9/26/2012	<input type="checkbox"/> ALTER CASING	
<input type="checkbox"/> SPUD REPORT Date of Spud:	<input type="checkbox"/> CASING REPAIR	
<input type="checkbox"/> DRILLING REPORT Report Date:	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	
	<input type="checkbox"/> CHANGE TUBING	
	<input checked="" type="checkbox"/> CHANGE WELL STATUS	
	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	
	<input type="checkbox"/> CONVERT WELL TYPE	
	<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"/> WILDCAT WELL DETERMINATION	
	<input type="checkbox"/> OTHER: <input style="width: 100px;" type="text"/>	
12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc. <p style="text-align: center;">The above reference well was put on injection at 5:45 PM on 09/26/2012. EPA # UT20853-09633</p> <div style="text-align: right; margin-top: 20px;"> <p><b>Accepted by the Utah Division of Oil, Gas and Mining FOR RECORD ONLY October 02, 2012</b></p> </div>		
<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> 9/27/2012	

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
REGION 8

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



SEP 20 2012

Ref: 8P-W-UIC

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

Mr. Reed Durfey  
District Manager  
Newfield Production Company  
Route 3 -- Box 3630  
Myton, Utah 84052

RE: Underground Injection Control (UIC)  
Limited Authorization to Inject  
EPA UIC Permit UT20853-09633  
Well: Lone Tree Federal 7-22-9-17  
SWNE Sec. 22-T9S-R17E  
Duchesne County, Utah  
API No.: 43-013-33304

Accepted by the  
Utah Division of  
Oil, Gas and Mining

Dear Mr. Durfey **FOR RECORD ONLY**

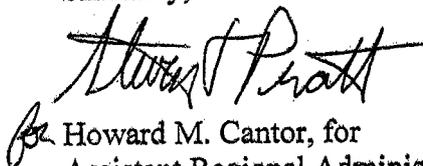
The U.S. Environmental Protection Agency Region 8 has received Newfield Production Company's (Newfield) August 15, 2012, letter with enclosures. The enclosed Part I (internal) Mechanical Integrity test, Well Rework Record (EPA Form 7520-12), schematic diagram and calculated pore pressure were reviewed and approved by the EPA, satisfactorily completing all Prior to Commencing Injection Requirements for UIC Permit UT20853-09633.

As of the date of this letter, Newfield is authorized to commence injection into the Lone Tree Federal 7-22-9-17 well at a Maximum Allowable Injection Pressure (MAIP) of 1,475 psig for a limited period of 180 days during which time a Radioactive Tracer Survey (RTS) is required according to UIC Permit UT20853-09633. If Newfield seeks a higher MAIP than 1,475 psig, it may be advantageous to run a step rate test prior to conducting the RTS because a RTS conducted at the higher MAIP will be required. Newfield must receive prior authorization from the Director to inject at pressures greater than the permitted MAIP during any test.

Please remember that it is Newfield's responsibility to be aware of, and to comply with, all conditions of Permit UT20853-09633.

If you have questions regarding the above action, please call Emmett Schmitz at (303) 312-6174 or (800) 227-8917, extension 312-6174. The RTS log with interpretation should be mailed to Jason Deardorff at the letterhead address, citing mail code 8P-W-UIC.

Sincerely,



Howard M. Cantor, for  
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

Johnna Blackhair  
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

<b>STATE OF UTAH</b> DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING	<b>FORM 9</b>
<b>SUNDRY NOTICES AND REPORTS ON WELLS</b>  Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.	5. LEASE DESIGNATION AND SERIAL NUMBER: UTU-13905
1. TYPE OF WELL Water Injection Well	6. IF INDIAN, ALLOTTEE OR TRIBE NAME:
2. NAME OF OPERATOR: NEWFIELD PRODUCTION COMPANY	7. UNIT or CA AGREEMENT NAME: GMBU (GRRV)
3. ADDRESS OF OPERATOR: Rt 3 Box 3630 , Myton, UT, 84052	8. WELL NAME and NUMBER: LONE TREE FED 7-22-9-17
4. LOCATION OF WELL FOOTAGES AT SURFACE: 2087 FNL 1813 FEL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: SWNE Section: 22 Township: 09.0S Range: 17.0E Meridian: S	9. API NUMBER: 43013333040000
9. FIELD and POOL or WILDCAT: MONUMENT BUTTE	COUNTY: DUCHESNE
9. FIELD and POOL or WILDCAT: MONUMENT BUTTE	STATE: 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: 7/17/2013	<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 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 checked="" 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 style="width: 50px;" type="text" value="MIT"/>

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

The above subject well had workover procedures performed (tubing leak), attached is a daily status report. Workover MIT performed on the above listed well. On 07/17/2013 the csg was pressured up to 1150 psig and charted for 30 minutes with no pressure loss. The well was not injecting during the test. The tbg pressure was 700 psig during the test. There was not an EPA representative available to witness the test.  
 EPA #UT22197-09633

**Accepted by the  
 Utah Division of  
 Oil, Gas and Mining  
 FOR RECORD ONLY  
 July 31, 2013**

<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> 7/23/2013	

## 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: 7 11 2013  
 Test conducted by: Brendan Curry  
 Others present: \_\_\_\_\_

-091633

Well Name: <u>Lone Tree Federal 7-22-9-17</u>	Type: ER SWD	Status: AC TA UC
Field: <u>Greater Monument Butte</u>		
Location: <u>7</u> Sec: <u>22</u> T <u>9</u> N <input checked="" type="checkbox"/> R <u>17</u> E <input checked="" type="checkbox"/> W	County: <u>Duchesne</u> State: <u>UT</u>	
Operator: <u>Newfield Production Company</u>		
Last MIT: <u>1 1</u>	Maximum Allowable Pressure: <u>1490</u>	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: 0/700 psig

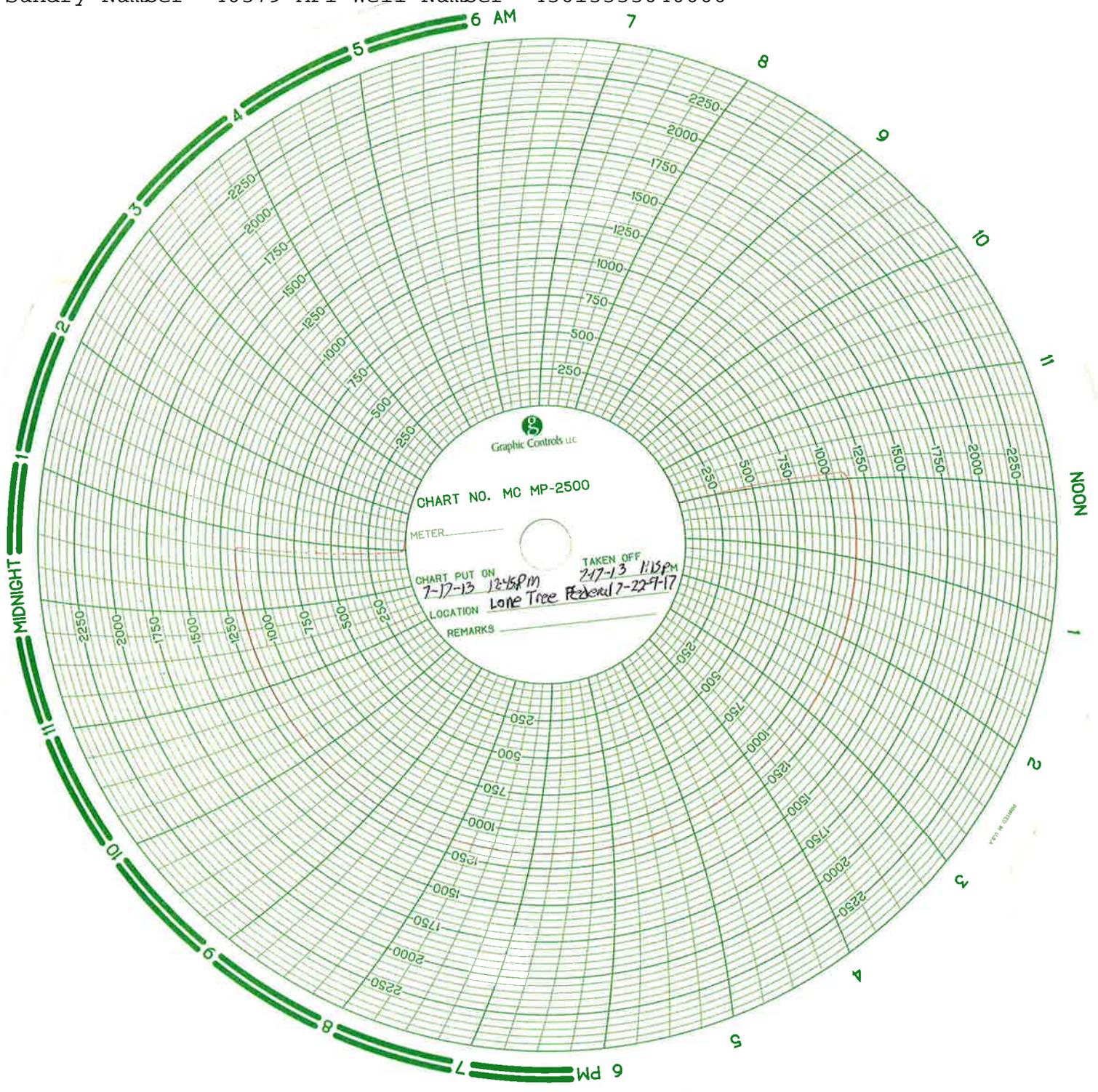
MIT DATA TABLE	Test #1	Test #2	Test #3
<b>TUBING PRESSURE</b>			
Initial Pressure	<u>700</u> psig	psig	psig
End of test pressure	<u>700</u> psig	psig	psig
<b>CASING / TUBING ANNULUS PRESSURE</b>			
0 minutes	<u>1150</u> psig	psig	psig
5 minutes	<u>1150</u> psig	psig	psig
10 minutes	<u>1150</u> psig	psig	psig
15 minutes	<u>1150</u> psig	psig	psig
20 minutes	<u>1150</u> psig	psig	psig
25 minutes	<u>1150</u> psig	psig	psig
30 minutes	<u>1150</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: \_\_\_\_\_



1" FT. IN. GRAPH

**Daily Activity Report****Format For Sundry****LONETREE 7-22-9-17****5/1/2013 To 9/30/2013****7/16/2013 Day: 1****Tubing Leak**

Basic #1629 on 7/16/2013 - road to location, spot rig at well rig up unload trucks and trailers hook well to tank tubing had 900 p.s.i., flow tubing to tank until flow rate slowed down to a manageable rate - 6:00-7:00 Crew Travel and safety meeting 7:00-8:00 road to location 8:00-9:00 spot rig at well rig up unload trucks and trailers hook well to tank tubing had 900 p.s.i. 9:00-10:30 flow tubing to tank until flow rate slowed down to a manageable rate 10:30-12:00 drop standing valve down tubing pressure test to 3000 p.s.i. held 30 minutes r.i.h. retrieve standing valve p.o.o.h. 12:00-1:00 nipple down well head nipple up b.o.p. rig up work floor release packer 1:00-2:00 p.o.o.h. with tubing lay down packer 2:00-3:00 pick up new packer r.i.h. with tubing 3:00-3:30 drop standing valve retest tubing to 3000 p.s.i. 3:30-4:30 r.i.h. retrieve standing valve p.o.o.h. 4:30-7:00 rig down floor nipple down b.o.p. nipple up wellhead packer unset pump 50 bbls water with packer fluid down casing nipple down well head set packer 18k in tension nipple up well head pressure test casing to 1500 p.s.i. hold for 30 minutes no bleed off secure well s.d.f.n. 7:00-8:00 crew travel - 6:00-7:00 Crew Travel and safety meeting 7:00-8:00 road to location 8:00-9:00 spot rig at well rig up unload trucks and trailers hook well to tank tubing had 900 p.s.i. 9:00-10:30 flow tubing to tank until flow rate slowed down to a manageable rate 10:30-12:00 drop standing valve down tubing pressure test to 3000 p.s.i. held 30 minutes r.i.h. retrieve standing valve p.o.o.h. 12:00-1:00 nipple down well head nipple up b.o.p. rig up work floor release packer 1:00-2:00 p.o.o.h. with tubing lay down packer 2:00-3:00 pick up new packer r.i.h. with tubing 3:00-3:30 drop standing valve retest tubing to 3000 p.s.i. 3:30-4:30 r.i.h. retrieve standing valve p.o.o.h. 4:30-7:00 rig down floor nipple down b.o.p. nipple up wellhead packer unset pump 50 bbls water with packer fluid down casing nipple down well head set packer 18k in tension nipple up well head pressure test casing to 1500 p.s.i. hold for 30 minutes no bleed off secure well s.d.f.n. 7:00-8:00 crew travel **Finalized**

**Daily Cost:** \$0**Cumulative Cost:** \$19,146

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**7/19/2013 Day: 2****Tubing Leak**

Rigless on 7/19/2013 - Conduct MIT - Workover MIT performed on the above listed well. On 07/17/2013 the csg was pressured up to 1150 psig and charted for 30 minutes with no pressure loss. The well was not injecting during the test. The tbg pressure was 700 psig during the test. There was not an EPA representative available to witness the test. EPA #UT22197-09633 - Workover MIT performed on the above listed well. On 07/17/2013 the csg was pressured up to 1150 psig and charted for 30 minutes with no pressure loss. The well was not injecting during the test. The tbg pressure was 700 psig during the test. There was not an EPA representative available to witness the test. EPA #UT22197-09633 **Finalized**

**Daily Cost:** \$0**Cumulative Cost:** \$20,046

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**Pertinent Files: Go to File List**

# Lone Tree Federal 7-22-9-17

Spud Date: 01/03/08  
 Put on Prod.: 02/18/08  
 GL: 5242' KB: 5254'

## Injection Wellbore Diagram

### SURFACE CASING

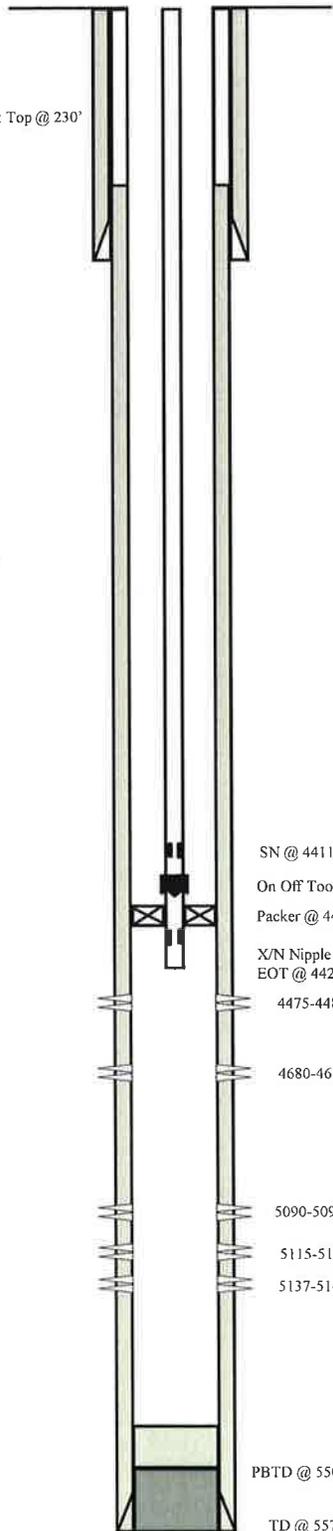
CSG SIZE: 8-5/8"  
 GRADE: J-55  
 WEIGHT: 24#  
 LENGTH: 7 jts. (315.43')  
 DEPTH LANDED: 326.33' KB  
 HOLE SIZE: 12-1/4"  
 CEMENT DATA: 1- 160, sxs Class "G" cmt, est 0 bbls cmt to surf.

### PRODUCTION CASING

CSG SIZE: 5-1/2"  
 GRADE: J-55  
 WEIGHT: 15.5#  
 LENGTH: 129 jts. (5553.70')  
 DEPTH LANDED: 5552.95' KB  
 HOLE SIZE: 7-7/8"  
 CEMENT DATA: 325 sxs Prem. Lite II mixed & 400 sxs 50/50 POZ.  
 CEMENT TOP: 230'

### TUBING

SIZE/GRADE/WT: 2-7/8" / J-55 / 6.5#  
 NO. OF JOINTS: 140 jts (4398.6')  
 SEATING NIPPLE: 2-7/8" (1.10')  
 SN LANDED AT: 4410.6' KB  
 ON/OFF SKIRT AT: 4411.7'  
 PACKER CE @ 4416.81'  
 XO 2-7/8 x 2-3/8 AT: 4420.5'  
 TBG PUP 2-3/8" AT: 4421.0'  
 XN PROFILE NIPPLE AT: 4425.0'  
 TOTAL STRING LENGTH: EOT @ 4427' KB



### FRAC JOB

02/11/08 5090-5144' **Frac CP2 & CP1 sands as follows:**  
 80341# 20/40 sand in 631 bbls Lightning 17 frac fluid. Treated @ avg press of 1564 psi w/avg rate of 23.3 BPM, ISIP 1802 psi.

02/11/08 4680-4688' **Frac A1 sands as follows:**  
 40272# 20/40 sand in 402 bbl Lightning 17 frac fluid. Treated @ avg press of 1440 psi w/avg rate of 23.3 BPM, ISIP 1565 psi.

02/11/08 4475-4484' **Frac B.5 sands as follows:**  
 30746# 20/40 sand in 365 bbls Lightning 17 frac fluid. Treated @ avg press of 1629 psi w/avg rate of 23.4 BPM, ISIP 1619 psi.

08/08/12 **Convert to Injection Well**

08/09/12 **Conversion MIT Finalized** – update tbg detail

07/17/13 **Workover MIT Finalized – Tubing Leak** – update tbg detail

### PERFORATION RECORD

5137-5144'	4 JSPF	28 holes
5115-5122'	4 JSPF	28 holes
5090-5094'	4 JSPF	16 holes
4680-4688'	4 JSPF	32 holes
4475-4484'	4 JSPF	36 holes



Lone Tree Federal 7-22-9-17  
 2087' FNL & 1813' FEL  
 SW/NE Sec. 22, T9S R17E  
 Duchesne, County  
 API# 43-013-33304; Lease# U-13905



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
REGION 8

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

**RECEIVED**  
OCT 21 2013  
DIV. OF OIL, GAS & MINING

OCT 17 2013

Ref: 8ENF-UFO

CERTIFIED MAIL 7008-3230-0003-0724-6782  
RETURN RECEIPT REQUESTED

Mr. J D Horrocks  
Newfield Exploration Company  
Route 3, Box 3630  
Myton, UT 84052

95 17E 22

Re: Underground Injection Control (UIC)  
Permission to Resume Injection  
Lone Tree Federal 7-22-9-17 Well  
EPA Well ID # UT22197-09633  
API # 43-013-33304  
Lone Tree Oil Field  
Duchesne County, UT

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

Dear Mr. Horrocks:

On September 27, 2013, the Environmental Protection Agency (EPA) received information from Newfield Exploration Company on the above referenced well concerning the workover and the followup mechanical integrity test (MIT) conducted on July 17, 2013. The data submitted shows that the well passed the required MIT. Therefore, pursuant to Title 40 of the Code of Federal Regulations Section 144.51(q)(2) (40 C.F.R. §144.51(q)(2)), permission to resume injection is granted. Under continuous service, the next MIT will be due on or before July 17, 2018.

Pursuant to 40 C.F.R. §144.52(a)(6), if the well is not used for a period of at least two (2) years ("temporary abandonment"), it shall be plugged and abandoned unless the EPA is notified and procedures are described to the EPA ensuring the well will not endanger underground sources of drinking water ("non-endangerment demonstration") during its continued temporary abandonment. A successful MIT is an acceptable non-endangerment demonstration and would be necessary every two (2) years the well continues in temporary abandonment.

Failure to comply with a UIC Permit, or the UIC regulations found at 40 C.F.R. Parts 144 through 148 constitute one or more violations of the Safe Drinking Water Act, 42 U.S.C. §300h. Such non-compliance may subject you to formal enforcement by the EPA, as codified at 40 C.F.R. Part 22.

If you have any questions concerning this letter, you may contact Sarah Roberts at (303) 312-7056. Please direct all correspondence to the attention of Sarah Roberts at Mail Code 8ENF-UFO.

Sincerely,



Darcy O'Connor, Director  
UIC/FIFRA/OPA Technical Enforcement Programs

cc: Gordon Howell, Chairman  
Uintah & Ouray Business Committee  
P.O. Box 190  
Fort Duchesne, Utah 84026

Ronald Wopsock, Vice-Chairman  
Uintah & Ouray Business Committee  
P.O. Box 190  
Fort Duchesne, Utah 84026

Reannin Tapoof, Executive Assistant  
Uintah & Ouray Business Committee  
P.O. Box 190  
Fort Duchesne, Utah 84026

Stewart Pike, Councilman  
Uintah & Ouray Business Committee  
P.O. Box 190  
Fort Duchesne, Utah 84026

Tony Small, Councilman  
Uintah & Ouray Business Committee  
P.O. Box 190  
Fort Duchesne, Utah 84026

Bruce Ignacio, Councilman  
Uintah & Ouray Business Committee  
P.O. Box 190  
Fort Duchesne, Utah 84026

Phillip Chimburas, Councilman  
Uintah & Ouray Business Committee  
P.O. Box 190  
Fort Duchesne, Utah 84026

Manuel Myore, Director of Energy,  
Minerals and Air Programs  
Ute Indian Tribe  
P.O. Box 190  
Fort Duchesne, Utah 84026

Mike Natchees, Environmental  
Coordinator  
Ute Indian Tribe  
P.O. Box 190  
Fort Duchesne, Utah 84026

✓ John Rogers  
Utah Division of Oil, Gas and Mining  
P.O. Box 145801  
Salt Lake City, Utah 84114

