

NEWFIELD



May 24, 2005

State of Utah  
Division of Oil, Gas & Mining  
Attn: Diana Whitney  
1594 West North Temple - Suite 1210  
P.O. Box 145801  
Salt Lake City, Utah 84114-5801

RE: Applications for Permit to Drill: 4-1-9-17, 7-33-8-16, 1A-3-9-17, 2A-3-9-17,  
and 5-3-9-17.

Dear Diana:

Enclosed find APD's on the above referenced wells. The proposed 4-1-9-17 and 2A-3-9-17 are Exception Locations. Our Land Department will send you the required Exception Location Letters. If you have any questions, feel free to give either Brad or myself a call.

Sincerely,

Mandie Crozier  
Regulatory Specialist

mc  
enclosures

RECEIVED  
MAY 31 2005  
DIV. OF OIL, GAS & MINING

MAY 31 2005

DIV. OF OIL, GAS & MINING

Form 3160-3  
(September 2001)

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL OR REENTER

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

1a. Type of Work: <input checked="" type="checkbox"/> DRILL <input type="checkbox"/> REENTER		5. Lease Serial No. UTU-61252
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. Greater Boundary II
3a. Address Route #3 Box 3630, Myton UT 84052		8. Lease Name and Well No. Greater Boundary Federal 5-3-9-17
3b. Phone No. (include area code) (435) 646-3721		9. API Well No. 43-013-32797
4. Location of Well (Report location clearly and in accordance with any State requirements.)* At surface SW/NW 1846' FNL 775' FWL 585400X 40.062181 At proposed prod. zone 4434922Y -109.992632		10. Field and Pool, or Exploratory Monument Butte
14. Distance in miles and direction from nearest town or post office* Approximatley 14.6 miles southeast of Myton, Utah		11. Sec., T., R., M., or Blk. and Survey or Area SW/NW Sec. 3, T9S R17E
15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any) Approx. 775' f/lse, 775' f/unit	16. No. of Acres in lease 279.57	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. 1276'	19. Proposed Depth 6065'	20. BLM/BIA Bond No. on file UT0056
21. Elevations (Show whether DF, KDB, RT, GL, etc.) 5107' GL	22. Approximate date work will start* 3rd Quarter 2005	23. Estimated duration Approximately seven (7) days from spud to ng release.

24. Attachments

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

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

25. Signature 	Name (Printed/Typed) Mandie Crozier	Date 5/24/05
Title Regulatory Specialist		
Approved by (Signature) 	Name (Printed/Typed) BRADLEY G. HILL	Date 06-07-05
Title Office	ENVIRONMENTAL SCIENTIST III	

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.

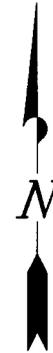
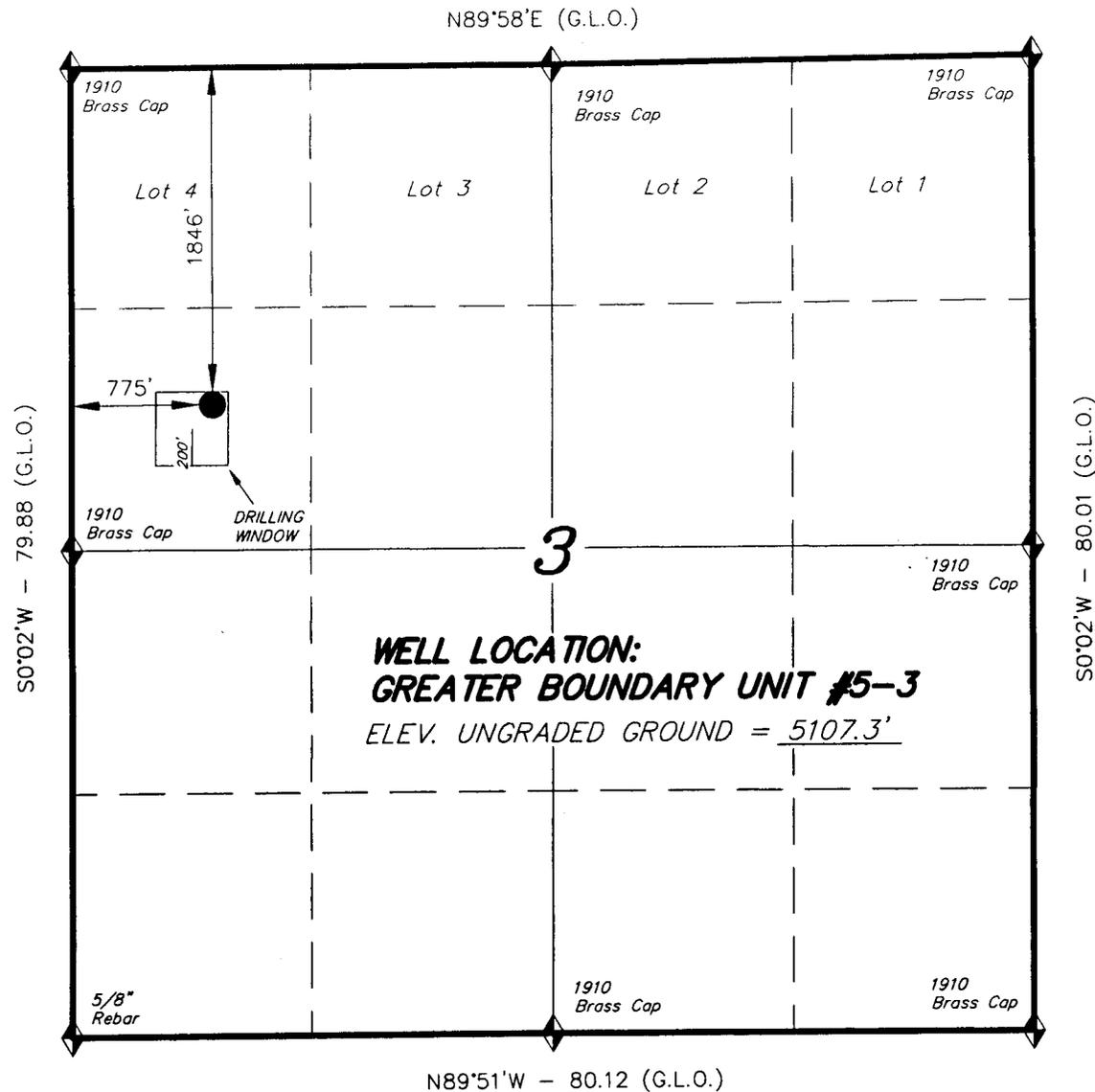
\*(Instructions on reverse)

Federal Approval of this  
action is Necessary

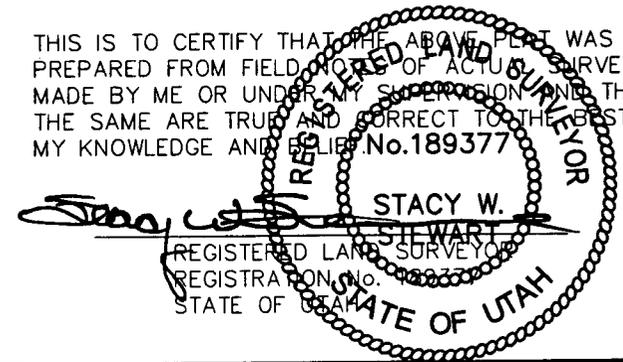
# T9S, R17E, S.L.B.&M.

## NEWFIELD PRODUCTION COMPANY

WELL LOCATION, GREATER BOUNDARY UNIT #5-3, LOCATED AS SHOWN IN THE SW 1/4 NW 1/4 OF SECTION 3, T9S, R17E, S.L.B.&M. DUCHESNE COUNTY, UTAH.



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



= SECTION CORNERS LOCATED

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

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

SCALE: 1" = 1000'	SURVEYED BY: C.M.
DATE: 10-28-04	DRAWN BY: F.T.M.
NOTES:	FILE #

## 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)

June 7, 2005

## Memorandum

To: Assistant District Manager Minerals, Vernal District  
From: Michael Coulthard, Petroleum Engineer  
Subject: 2003 Plan of Development Greater Boundary  
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 2003 within the Greater Boundary Unit, Duchesne County, Utah.

API#	WELL NAME	LOCATION
------	-----------	----------

(Proposed PZ Green River)

43-013-32795	GB Fed 1A-3-9-17 Sec 3 T09S R17E 0804 FNL 0521 FEL	
43-013-32796	GB Fed 2A-3-9-17 Sec 3 T09S R17E 1018 FNL 1628 FEL	
43-013-32797	GB Fed 5-3-9-17 Sec 3 T09S R17E 1846 FNL 0775 FWL	

This office has no objection to permitting the wells at this time.

/s/ Michael L. Coulthard

bcc: File - Greater Boundary Unit  
Division of Oil Gas and Mining  
Central Files  
Agr. Sec. Chron  
Fluid Chron

MCoulthard:mc:6-7-05

NEWFIELD PRODUCTION COMPANY  
GREATER BOUNDARY FEDERAL #5-3-9-17  
SW/NW SECTION 3, 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' - 2215'
Green River	2215'
Wasatch	6065'

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

Green River Formation 2215' - 6065' - 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  
GREATER BOUNDARY FEDERAL #5-3-9-17  
SW/NW SECTION 3, 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 Greater Boundary Federal #5-3-9-17 located in the SW 1/4 NW 1/4 Section 3, 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 - 11.9 miles  $\pm$  to it's junction with an existing road to the north; proceed northeasterly - 0.9 miles  $\pm$  to it's junction with the beginning of the proposed access road; proceed northwesterly along the proposed access road - 1,310'  $\pm$  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**

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

12. OTHER ADDITIONAL INFORMATION

The Archaeological Resource Survey and Paleontological Resource Survey for this area are attached. MOAC Report #05-69, 3/22/05. Paleontological Resource Survey prepared by, Wade E. Miller, 5/11/05. See attached report cover pages, Exhibit "D".

For the Greater Boundary Federal #5-3-9-17 Newfield Production Company requests 370' of disturbed area be granted in Lease UTU-44004 and 940' of disturbed area be granted in Lease UTU-61252 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 370' of disturbed area be granted in Lease UTU-44004 and 940' of disturbed area be granted in Lease UTU-61252 to allow for construction of the proposed gas lines. It is proposed that the disturbed area will be 50' wide to allow for construction of a 3" gas gathering line, and a 2" 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 370' of disturbed area be granted in Lease UTU-44004 and 940' of disturbed area be granted in Lease UTU-61252 to allow for construction of the proposed water lines. It is proposed that the disturbed area will be 50' wide to allow for construction of a buried 3" steel water injection line and a 3" poly water return line. **Refer to Topographic Map "C."** For a ROW plan of development, please refer to the Monument Butte Field SOP.

An Erosion Dam will be constructed at the same time the proposed location is being built. Contact Byron Tolman (Bureau of Land Management) to monitor location construction.

**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**

**Red Tail Hawk:** Due to this proposed well location's proximity (less than 0.5 mile) to an existing inactive red tail hawk nest site, no new construction or surface disturbing activities will be allowed between April 1 and July 15. In the event that this well becomes a producing well, it must be equipped with a multi-cylinder engine or hospital muffler to reduce noise levels.

**Reserve Pit Liner**

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)

Gardner Saltbush	<i>Atriplex gardneri</i>	4 lbs/acre
Crested Wheatgrass	<i>Agropyron cristatum</i>	4 lbs/acre

**Details of the On-Site Inspection**

The proposed Greater Boundary Federal #5-3-9-17 was on-sited on 8/11/04. The following were present; Brad Mecham (Newfield Production), David Gerbig (Newfield Production), and Byron Tolman (Bureau of Land Management). Weather conditions were clear.

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

Representative

Name: Brad Mecham

Address: Route #3 Box 3630  
Myton, UT 84052

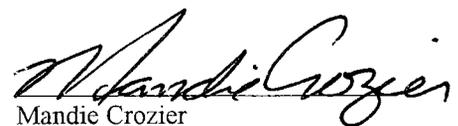
Telephone: (435) 646-3721

Certification

Please be advised that NEWFIELD PRODUCTION COMPANY is considered to be the operator of well #5-3-9-17 SW/NW Section 3, Township 9S, Range 17E: Lease UTU-61252 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 Hartford Accident #4488944.

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.

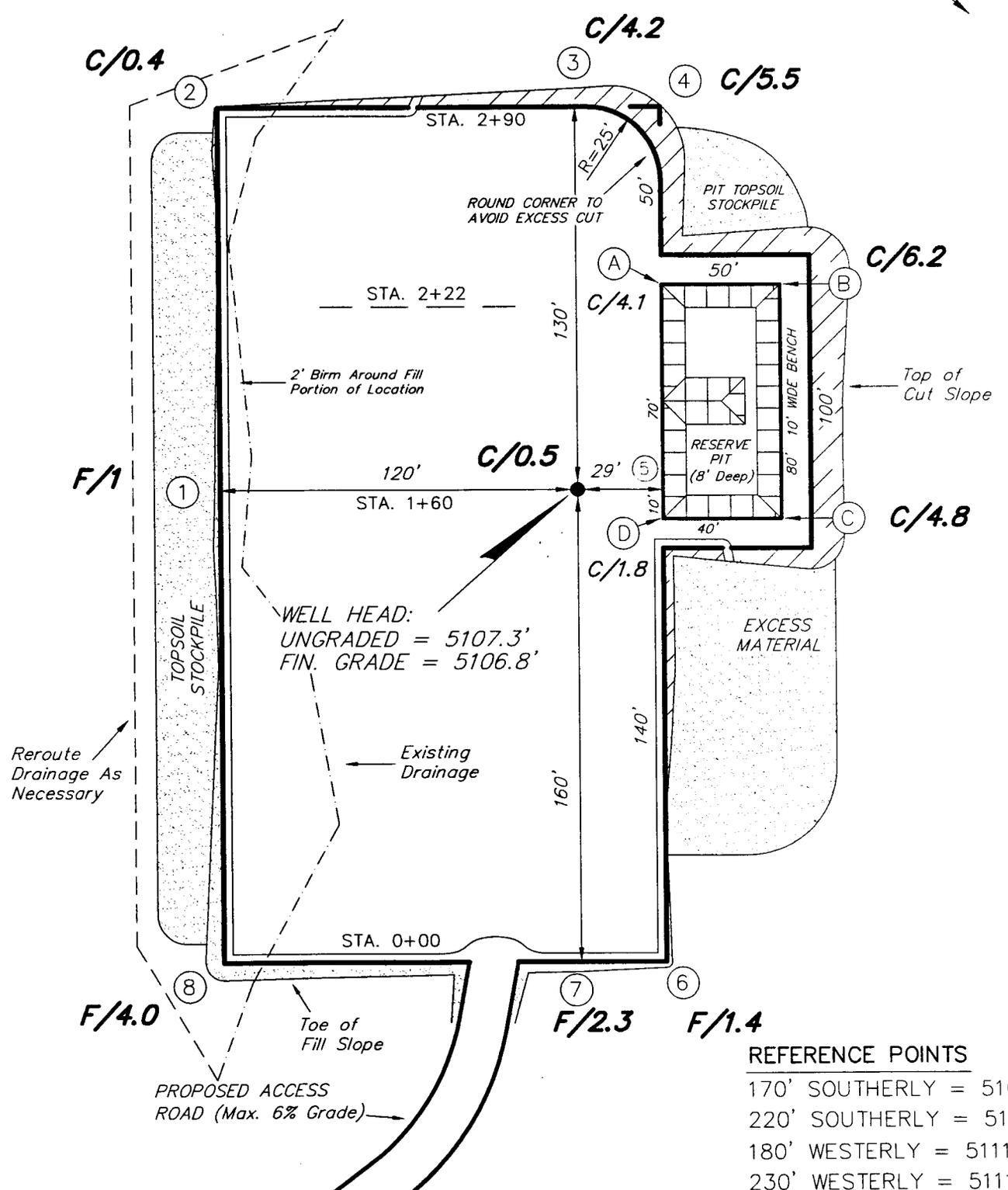
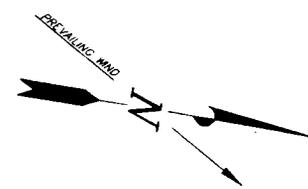
5/24/05  
Date

  
Mandie Crozier  
Regulatory Specialist  
Newfield Production Company

# NEWFIELD PRODUCTION COMPANY

## GREATER BOUNDARY UNIT #5-3

Section 3, T9S, R17E, S.L.B.&M.

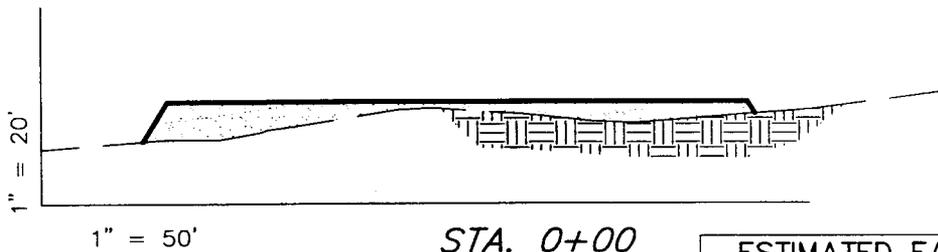
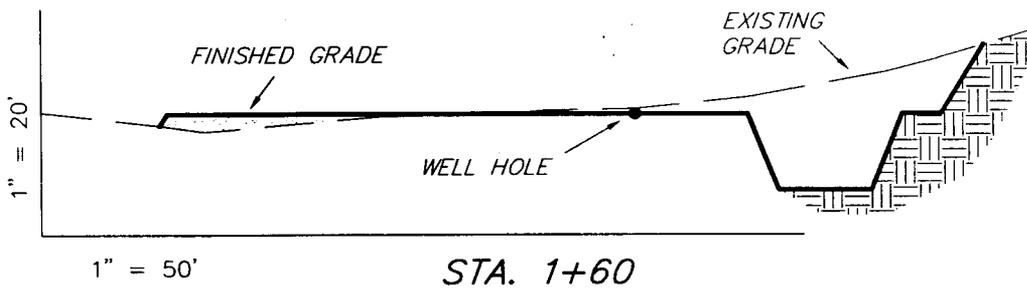
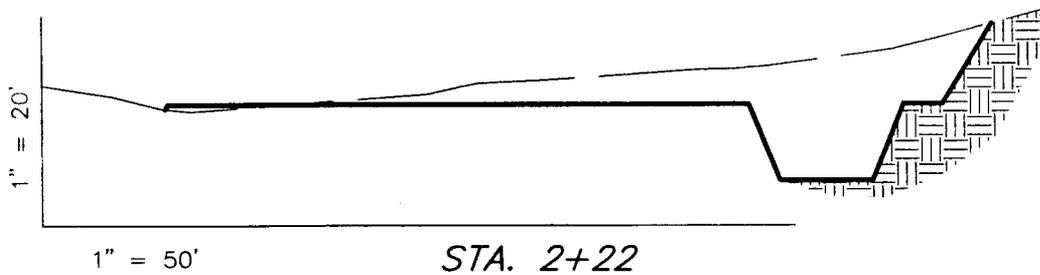
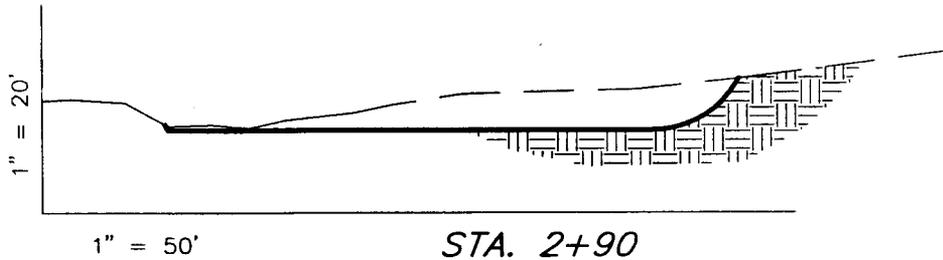


### REFERENCE POINTS

- 170' SOUTHERLY = 5107.7'
- 220' SOUTHERLY = 5108.3'
- 180' WESTERLY = 5111.2'
- 230' WESTERLY = 5111.0'

SURVEYED BY: C.M.	SCALE: 1" = 50'	 Tri State Land Surveying, Inc. 180 NORTH VERNAL AVE. VERNAL, UTAH 84078 (435) 781-2501
DRAWN BY: F.T.M.	DATE: 10-28-04	

**NEWFIELD PRODUCTION COMPANY**  
**CROSS SECTIONS**  
**GREATER BOUNDARY UNIT #5-3**



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

ITEM	CUT	FILL	6" TOPSOIL	EXCESS
PAD	1,890	1,880	Topsoil is not included in Pad Cut	10
PIT	640	0		640
<b>TOTALS</b>	<b>2,530</b>	<b>1,880</b>	<b>890</b>	<b>650</b>

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

SURVEYED BY: C.M.

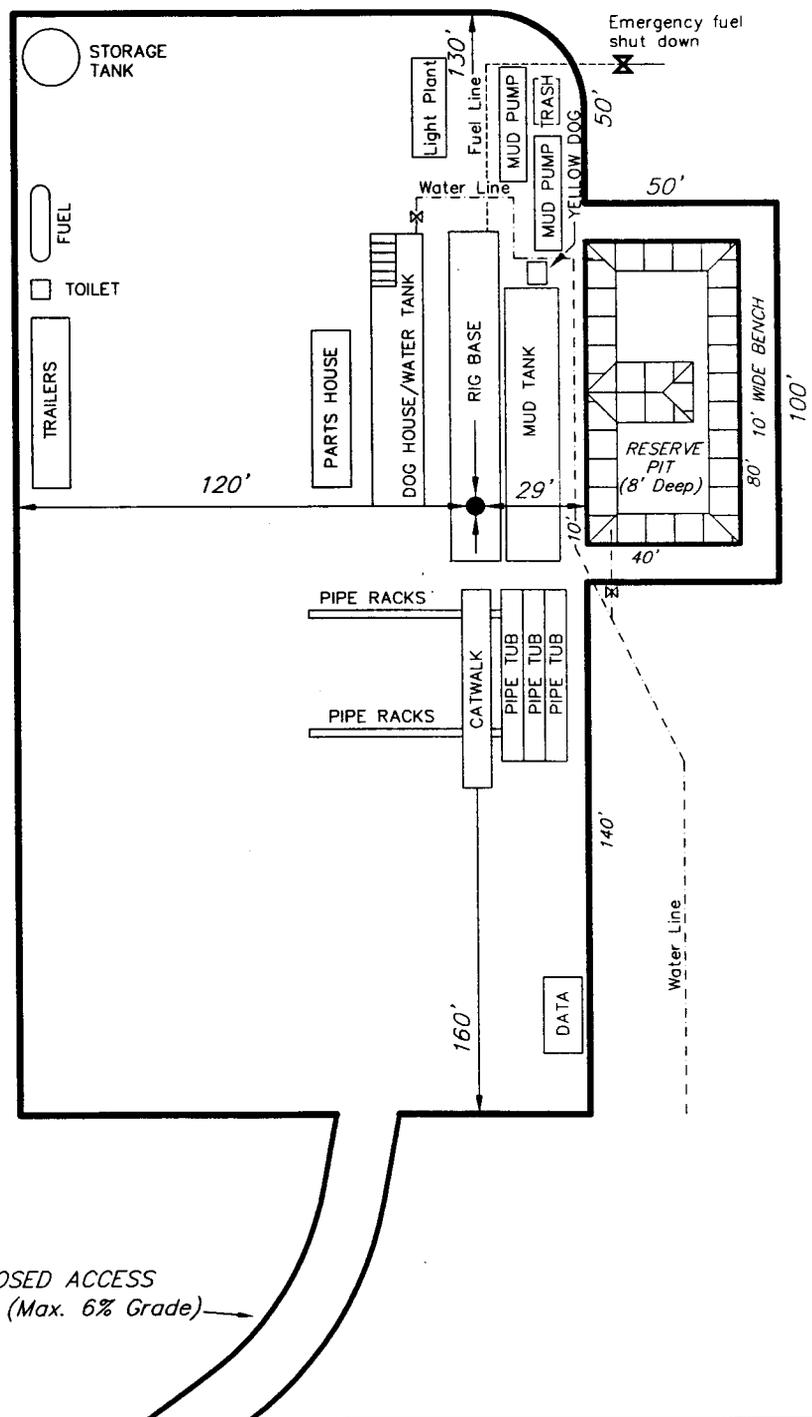
SCALE: 1" = 50'

DRAWN BY: F.T.M.

DATE: 10-28-04

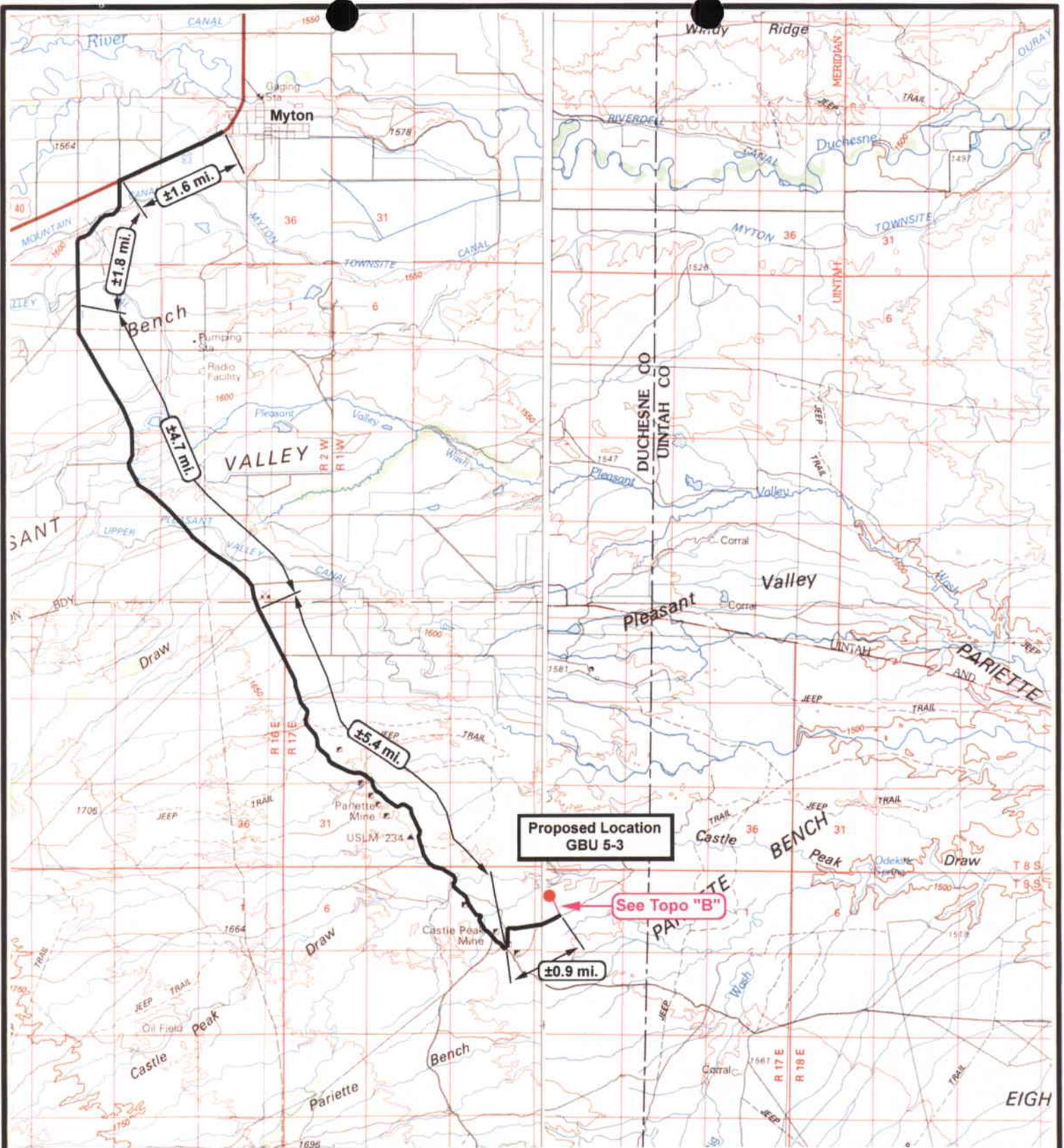
**Tri State**  
 Land Surveying, Inc.  
 180 NORTH VERNAL AVE. VERNAL, UTAH 84078  
 (435) 781-2501

**NEWFIELD PRODUCTION COMPANY**  
**TYPICAL RIG LAYOUT**  
**GREATER BOUNDARY UNIT #5-3**



PROPOSED ACCESS ROAD (Max. 6% Grade)

SURVEYED BY: C.M.	SCALE: 1" = 50'	<b>Tri State</b> Land Surveying, Inc. 180 NORTH VERNAL AVE. VERNAL, UTAH 84078	(435) 781-2501
DRAWN BY: F.T.M.	DATE: 10-28-04		



**Proposed Location  
GBU 5-3**

See Topo "B"

**NEWFIELD**  
Exploration Company

---

**Greater Boundary Unit 5-3  
SEC. 3, T9S, R17E, S.L.B.&M.**



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

---

SCALE: 1 = 100,000  
DRAWN BY: bgm  
DATE: 11-02-2004

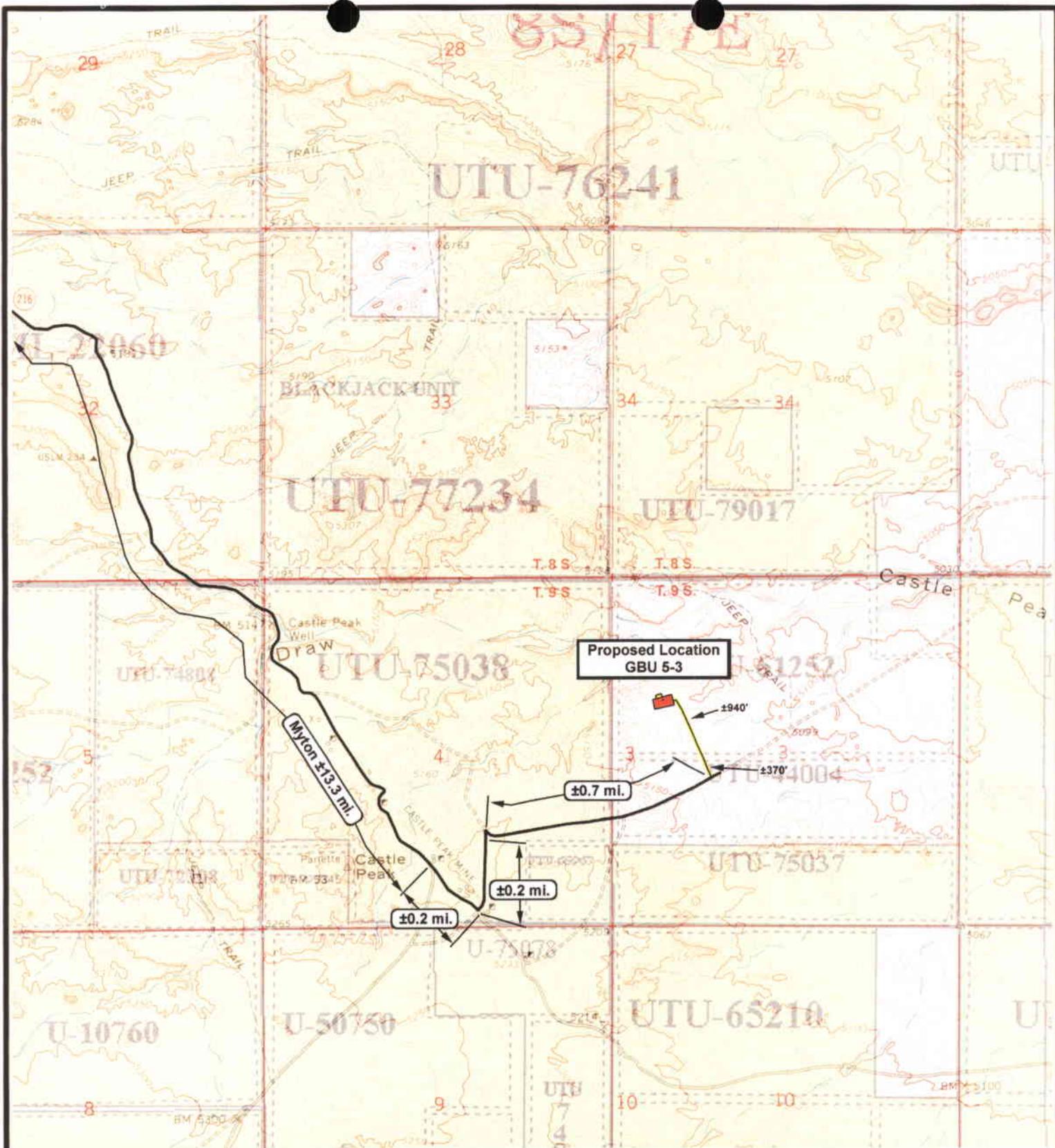
**Legend**

- Existing Road
- Proposed Access

---

**TOPOGRAPHIC MAP**

**"A"**



  
**NEWFIELD**  
 Exploration Company

---

**Greater Boundary Unit 5-3**  
**SEC. 3, 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: bgm  
 DATE: 11-02-2004

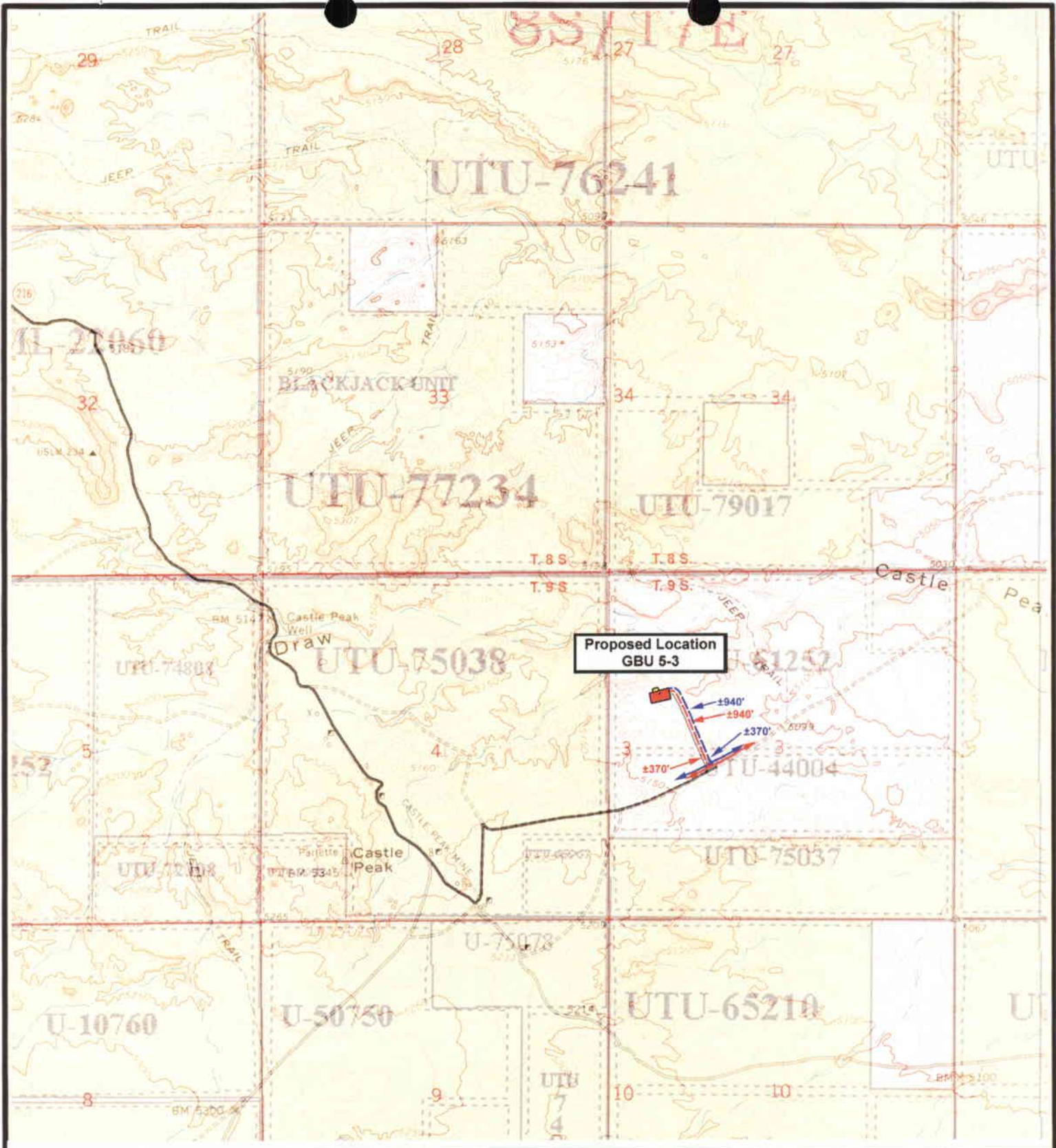
**Legend**

---

 Existing Road  
 Proposed Access

---

**TOPOGRAPHIC MAP**  
"B"



**NEWFIELD**  
Exploration Company

**Greater Boundary Unit 5-3**  
**SEC. 3, T9S, R17E, S.L.B.&M.**

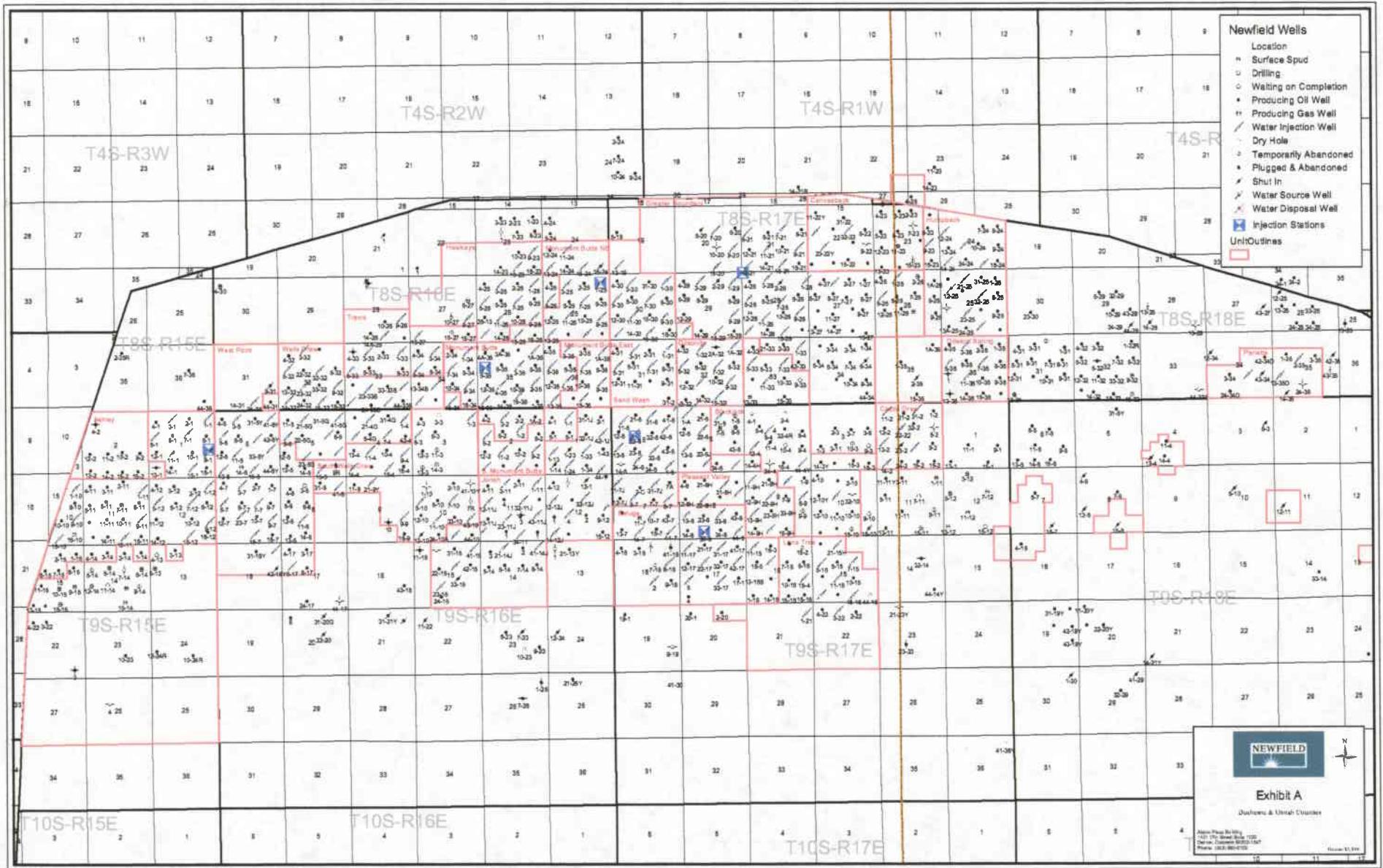


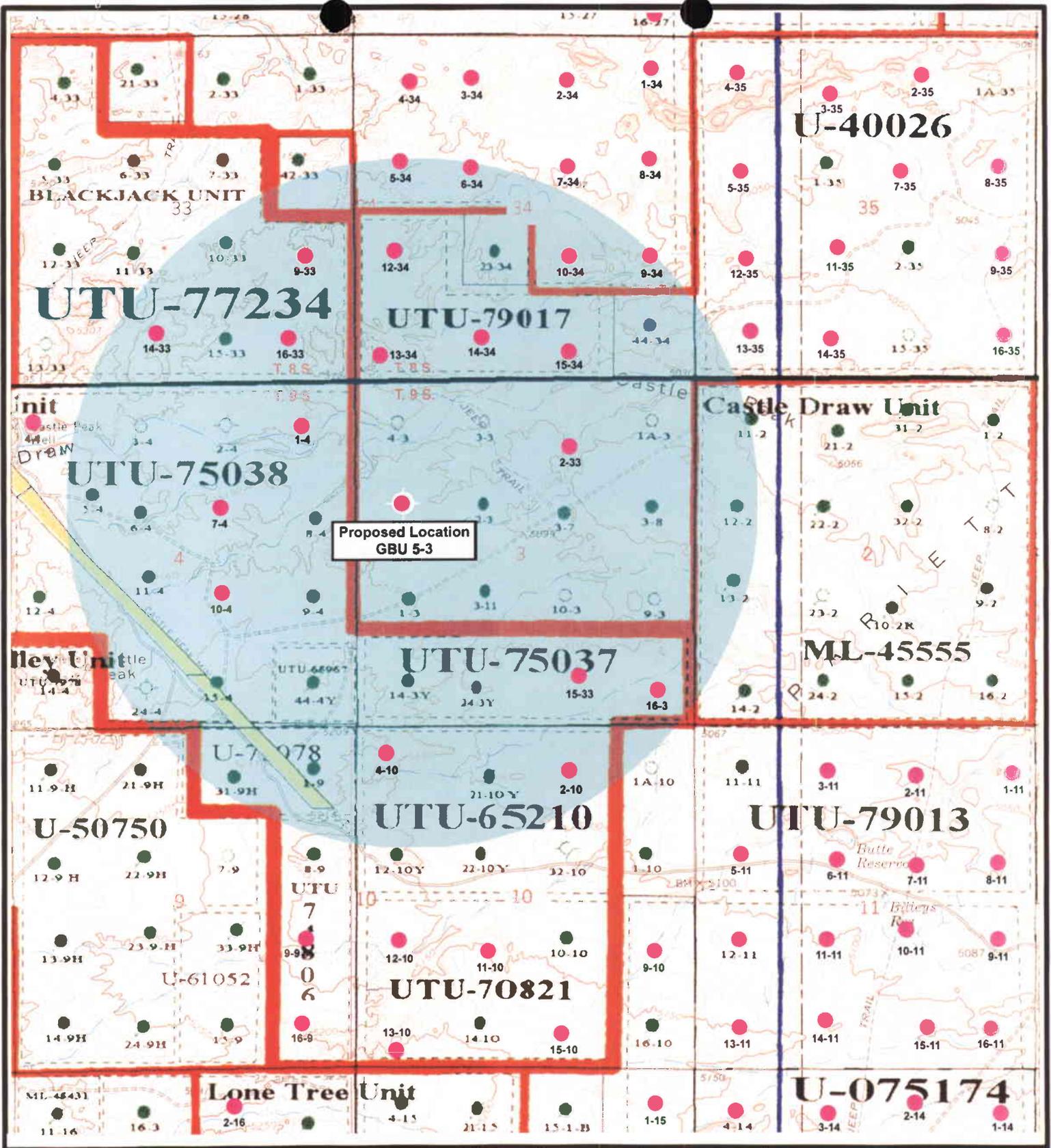
**Tri-State**  
*Land Surveying Inc.*  
(435) 781-2501  
180 North Vernal Ave., Vernal, Utah 84078

SCALE: 1" = 2,000'  
DRAWN BY: bgm  
DATE: 11-02-2004

Legend	
	Roads
	Existing Gas Line
	Proposed Gas Line
	Existing Water Line
	Proposed Water Line

TOPOGRAPHIC MAP  
**"C"**





Proposed Location  
GBU 5-3

**NEWFIELD**  
Exploration Company

---

**Greater Boundary Unit 5-3**  
SEC. 3, 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: bgm  
DATE: 11-02-2004

**Legend**

- Well Locations
- One-Mile Radius

---

**Exhibit "B"**

Exhibit "D"  
Page 1 of 4

CULTURAL RESOURCE INVENTORY OF  
NEWFIELD EXPLORATION'S 520 ACRE BLOCK  
PARCELS (T8S, R17E, SEC. 20; T9S R16E SEC. 34;  
T9S R17E SEC. 1, 3, 28; and T9S R18E SEC. 35)  
UINTAH AND DUCHESNE COUNTIES, UTAH

By:

Katie Simon

Prepared For:

Bureau of Land Management  
Vernal Field Office

Prepared Under Contract With:

Newfield Exploration Company  
Route 3 Box 3630  
Myton, Utah 84052

Prepared By:

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

MOAC Report No. 05-69

March 22, 2005

United States Department of Interior (FLPMA)  
Permit No. 04-UT-60122

State of Utah Antiquities Project (Survey)  
Permit No. U-05-MQ-0149b,p

# 2-M SYSTEM

Blowout Prevention Equipment Systems

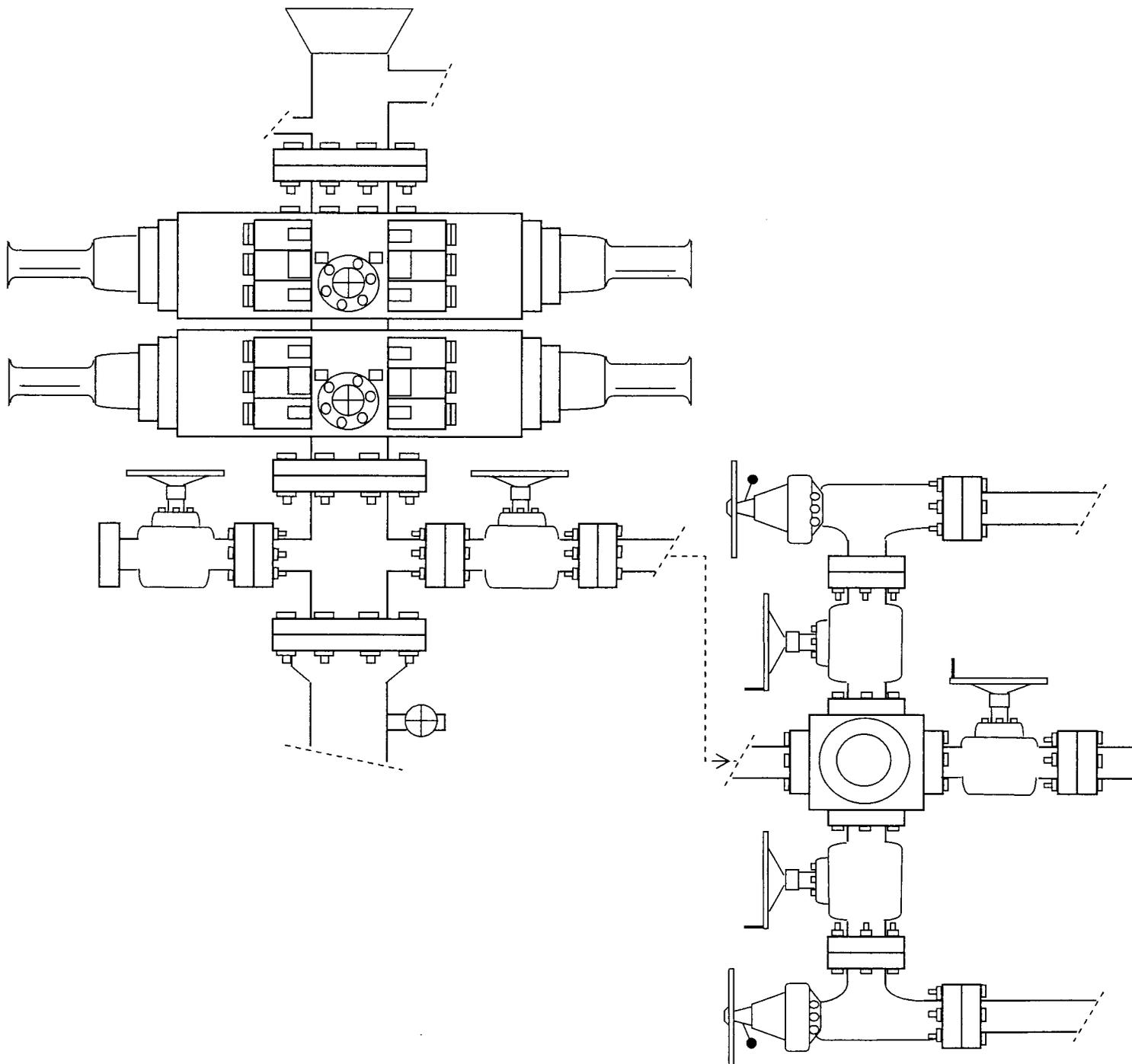
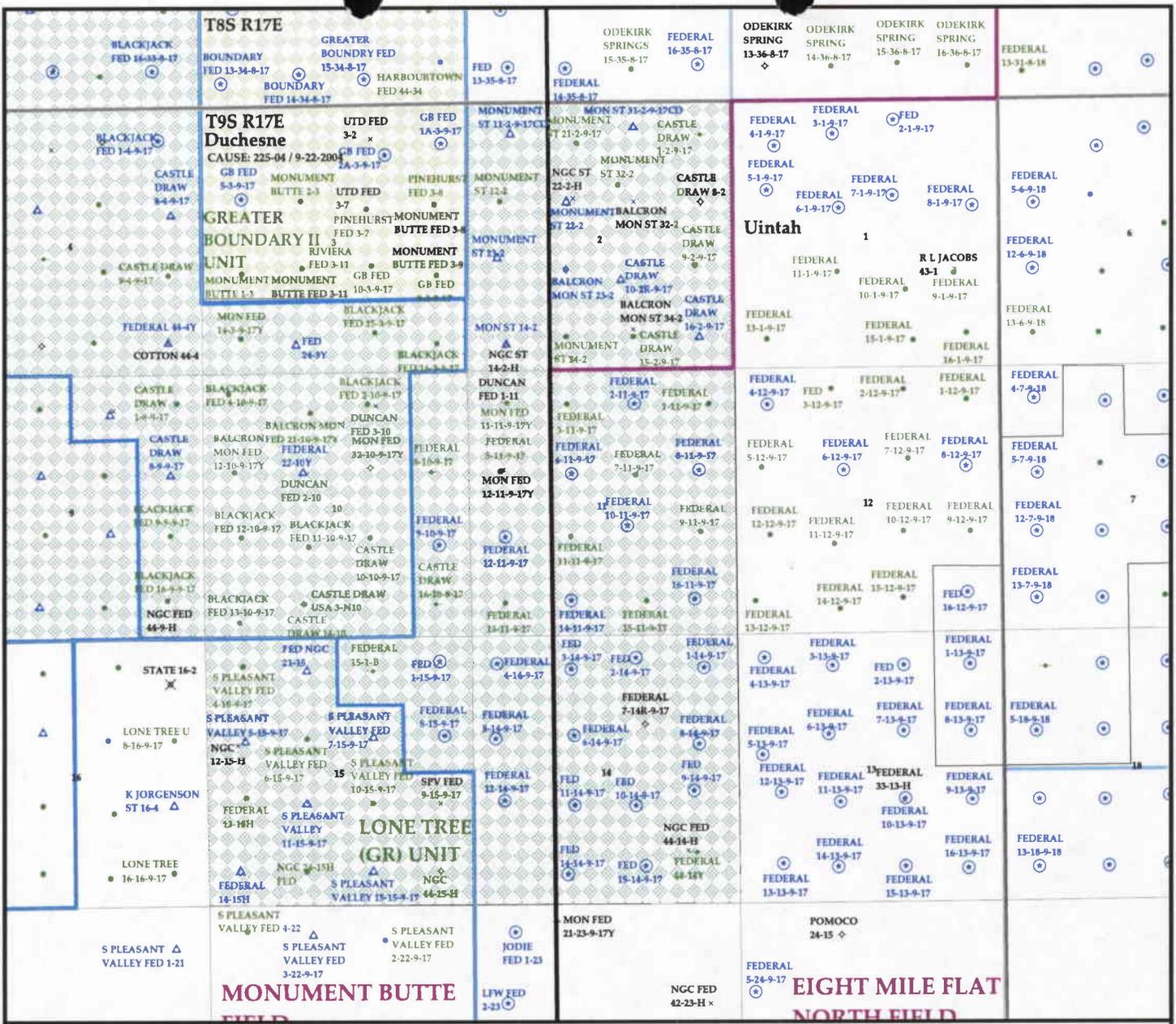


EXHIBIT C



**OPERATOR: NEWFIELD PROD CO (N2695)**  
**SEC: 3 T. 9S R. 17E**  
**FIELD: MONUMENT BUTTE (105)**  
**COUNTY: DUCHESNE**  
**CAUSE: 225-04 / 9-22-2004**

- |  |   |  |
|--|---|--|
| <b>Wells</b>   | <b>Units.shp</b>  | <b>Fields.shp</b>  |
| <ul style="list-style-type: none"> <li>⊕ GAS INJECTION</li> <li>⊙ GAS STORAGE</li> <li>× LOCATION ABANDONED</li> <li>⊕ NEW LOCATION</li> <li>⊕ PLUGGED &amp; ABANDONED</li> <li>⊕ PRODUCING GAS</li> <li>⊕ PRODUCING OIL</li> <li>⊕ SHUT-IN GAS</li> <li>⊕ SHUT-IN OIL</li> <li>× TEMP. ABANDONED</li> <li>⊕ TEST WELL</li> <li>⊕ WATER INJECTION</li> <li>⊕ WATER SUPPLY</li> <li>⊕ WATER DISPOSAL</li> </ul> | <ul style="list-style-type: none"> <li>□ EXPLORATORY</li> <li>□ GAS STORAGE</li> <li>□ NF PP OIL</li> <li>□ NF SECONDARY</li> <li>□ PENDING</li> <li>□ PI OIL</li> <li>□ PP GAS</li> <li>□ PP GEOTHERML</li> <li>□ PP OIL</li> <li>□ SECONDARY</li> <li>□ TERMINATED</li> </ul> | <ul style="list-style-type: none"> <li>□ ABANDONED</li> <li>□ ACTIVE</li> <li>□ COMBINED</li> <li>□ INACTIVE</li> <li>□ PROPOSED</li> <li>□ STORAGE</li> <li>□ TERMINATED</li> </ul> |



PREPARED BY: DIANA WHITNEY  
 DATE: 6-JUNE-2005

**NEWFIELD PRODUCTION COMPANY**

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

Section 3, T 9 S, R 17 E [NE 1/4 & NW 1/4, NE 1/4 and NE 1/4, NW 1/4  
& SW 1/4, NW 1/4, and NE 1/4 & NW 1/4, SE 1/4]; Section 18, T 9 S, R 16 E  
[excluding NE 1/4, NW 1/4, & SE 1/4, NE 1/4]; Section 15, T 9 S, R 17 E [SE 1/4/ NE 1/4];  
Section 18, T 9 S, R 17 E [western half of section plus SE 1/4 & SW 1/4, SE 1/4];  
Section 33, T 8 S, R 16 E [NW 1/4, NW 1/4 and SW 1/4, NE 1/4]

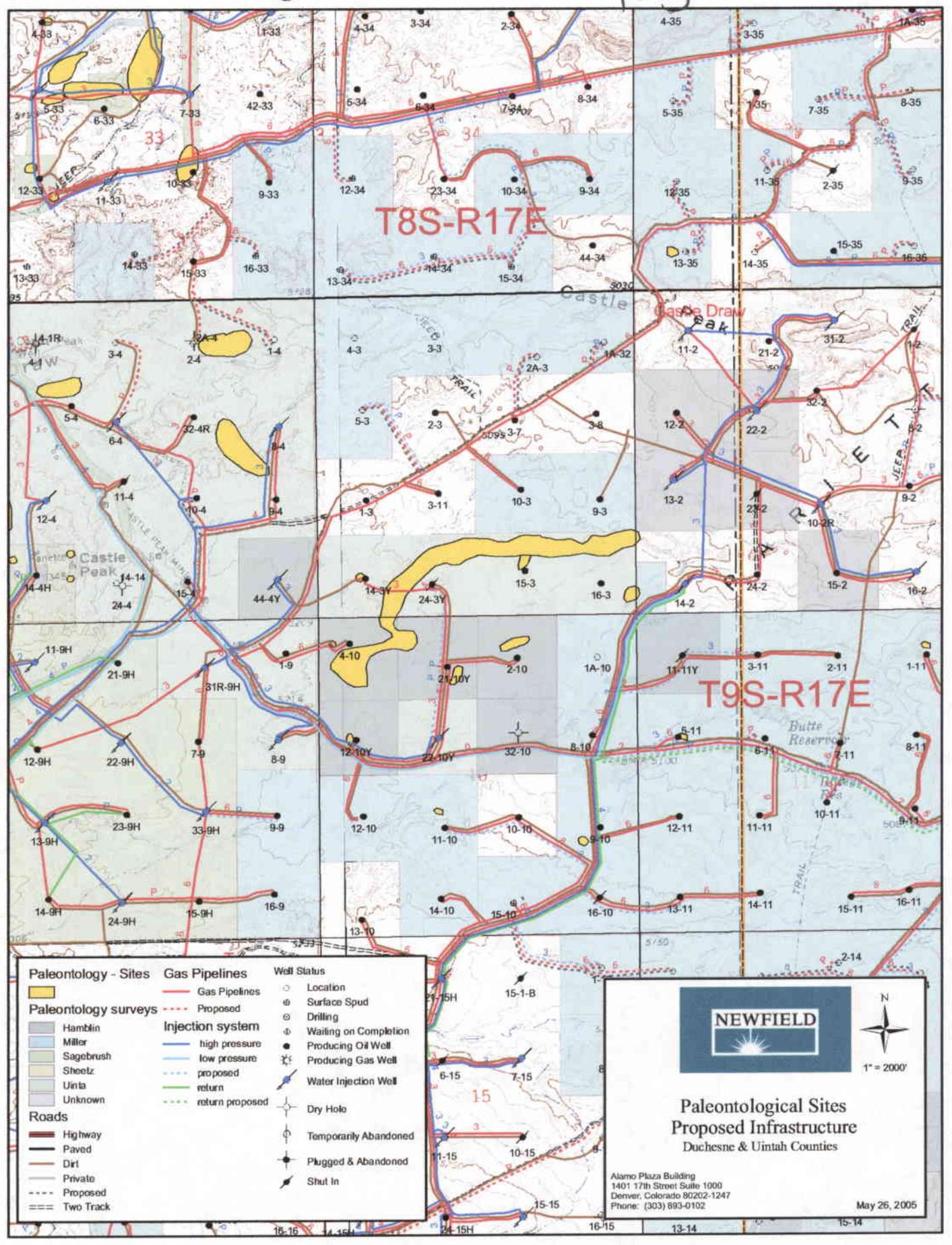
**REPORT OF SURVEY**

Prepared for:

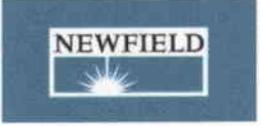
**Newfield Production Company**

Prepared by:

Wade E. Miller  
Consulting Paleontologist  
May 11, 2005



Paleontology - Sites	Gas Pipelines	Well Status
Paleontology surveys	Gas Pipelines	Location
Hamblin	Proposed	Surface Spud
Miller	Injection system	Drilling
Sagebrush	high pressure	Waiting on Completion
Sheetz	low pressure	Producing Oil Well
Uinta	proposed	Producing Gas Well
Unknown	return	Water Injection Well
Roads	return proposed	Dry Hole
Highway		Temporarily Abandoned
Paved		Plugged & Abandoned
Dirt		Shut In
Private		
Proposed		
Two Track		



**Paleontological Sites  
Proposed Infrastructure**  
Duchesne & Uintah Counties

Alamo Plaza Building  
1401 17th Street Suite 1000  
Denver, Colorado 80202-1247  
Phone: (303) 893-0102

May 26, 2005

WORKSHEET  
APPLICATION FOR PERMIT TO DRILL

APD RECEIVED: 05/31/2005

API NO. ASSIGNED: 43-013-32797

WELL NAME: GB FED 5-3-9-17  
OPERATOR: NEWFIELD PRODUCTION ( N2695 )  
CONTACT: MANDIE CROZIER

PHONE NUMBER: 435-646-3721

PROPOSED LOCATION:

SWNW 03 090S 170E  
SURFACE: 1846 FNL 0775 FWL  
BOTTOM: 1846 FNL 0775 FWL  
DUCHESNE  
MONUMENT BUTTE ( 105 )

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

LEASE TYPE: 1 - Federal  
LEASE NUMBER: UTU-61252  
SURFACE OWNER: 1 - Federal  
PROPOSED FORMATION: GRRV  
COALBED METHANE WELL? NO

LATITUDE: 40.06218  
LONGITUDE: -109.9987

RECEIVED AND/OR REVIEWED:

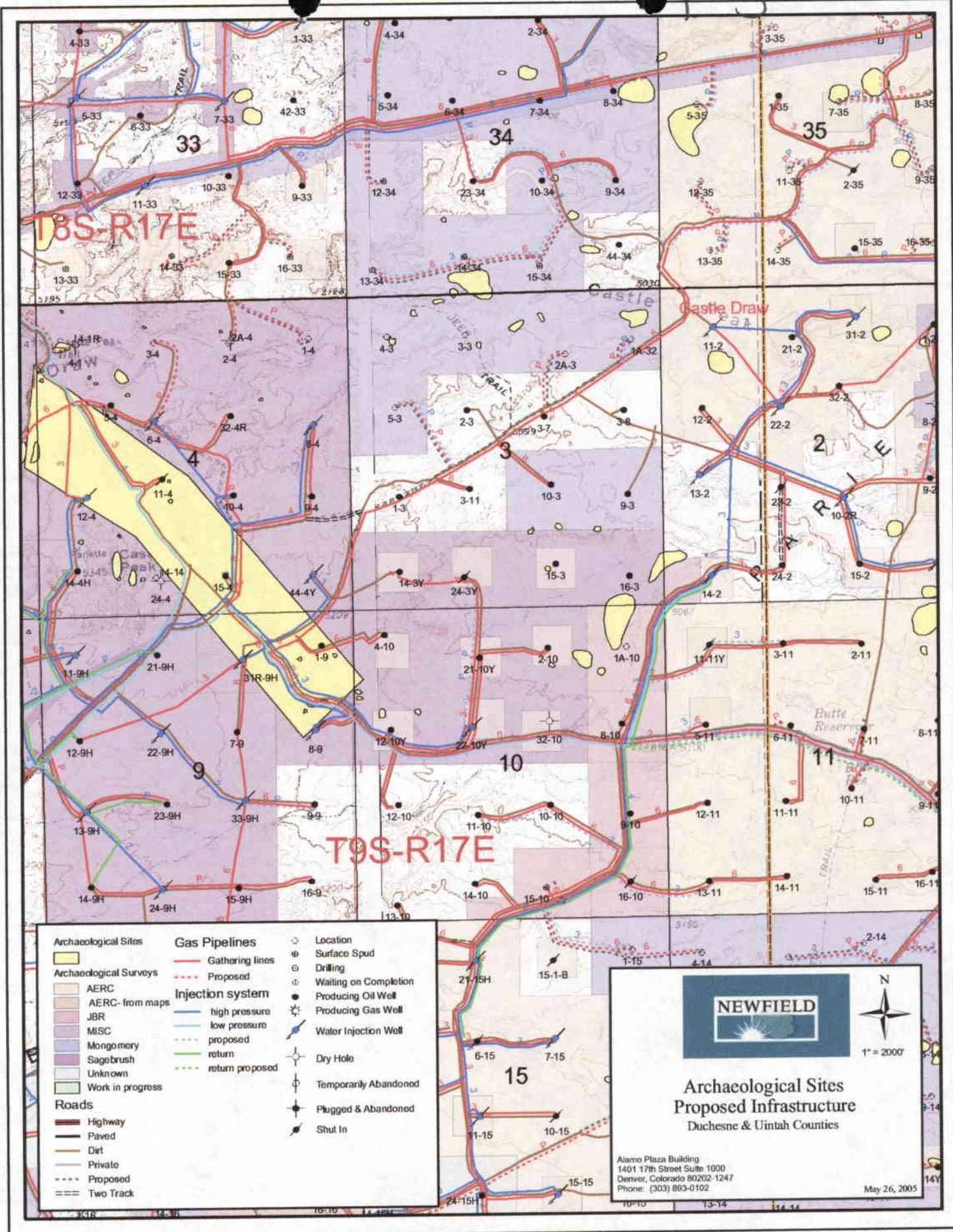
- Plat
- Bond: Fed[1] Ind[] Sta[] Fee[]  
(No. UT0056 )
- Potash (Y/N)
- Oil Shale 190-5 (B) or 190-3 or 190-13
- Water Permit  
(No. MUNICIPAL )
- RDCC Review (Y/N)  
(Date: \_\_\_\_\_ )
- Fee Surf Agreement (Y/N)

LOCATION AND SITING:

- \_\_\_ R649-2-3.
- Unit GREATER BOUNDARY II (GR)
- \_\_\_ R649-3-2. General  
Siting: 460 From Qtr/Qtr & 920' Between Wells
- \_\_\_ R649-3-3. Exception
- Drilling Unit  
Board Cause No: 225-04  
Eff Date: 9-22-2004  
Siting: Suspends General Siting
- \_\_\_ R649-3-11. Directional Drill

COMMENTS: SDP, Separate file

STIPULATIONS: 1- Local MO Approval



Archaeological Sites	Gas Pipelines	Location
Archaeological Surveys	Gathering lines	Surface Spud
AERC	Proposed	Drilling
AERC- from maps	Injection system	Waiting on Completion
JBR	high pressure	Producing Oil Well
MISC	low pressure	Producing Gas Well
Montgomery	proposed	Water Injection Well
Sagebrush	return	Dry Hole
Unknown	return proposed	Temporarily Abandoned
Work in progress		Plugged & Abandoned
<b>Roads</b>		Shut In
Highway		
Paved		
Dirt		
Private		
Proposed		
Two Track		



**Archaeological Sites  
Proposed Infrastructure**  
Duchesne & Uintah Counties

Alamo Plaza Building  
1401 17th Street Suite 1000  
Denver, Colorado 80202-1247  
Phone: (303) 893-0102

May 26, 2005

**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*

June 7, 2005

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

Re: Greater Boundary Federal 5-3-9-17 Well, 1846' FNL, 775' FWL, SW NW,  
Sec. 3, 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 43-013-32797.

Sincerely,

Gil Hunt  
Acting Associate Director

pab  
Enclosures

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

Operator: Newfield Production Company

Well Name & Number Greater Boundary Federal 5-3-9-17

API Number: 43-013-32797

Lease: UTU-61252

Location: SW NW                      Sec. 3                      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.

**DIVISION OF OIL, GAS AND MINING**

**SPUDDING INFORMATION**

Name of Company: NEWFIELD PRODUCTION COMPANY

Well Name: GB FED 5-3-9-17

Api No: 43-013-32797 Lease Type: FEDERAL

Section 03 Township 09S Range 17E County DUCHESNE

Drilling Contractor ROSS DRILLING RIG # 24

**SPUDDED:**

Date 01/16/06

Time 2:00 PM

How DRY

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

Reported by TROY

Telephone # 1-435-823-6013

Date 01/17/2006 Signed CHD

RECEIVED  
MAY 31 2005  
BLM VERNAL, UTAH

Form 3160-3  
(September 2001)

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

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

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-61252
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. Greater Boundary II
3a. Address Route #3 Box 3630, Myton UT 84052		8. Lease Name and Well No. Greater Boundary Federal 5-3-9-17
3b. Phone No. (include area code) (435) 646-3721		9. API Well No. 43-013-32797
4. Location of Well (Report location clearly and in accordance with any State requirements. *) At surface SW/NW 1846' FNL 775' FWL 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 14.6 miles southeast of Myton, Utah		11. Sec., T., R., M., or Bk. and Survey or Area SW/NW Sec. 3, T9S R17E
15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any) Approx. 775' flse, 775' f/unit	16. No. of Acres in lease 279.57	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. 1276'	19. Proposed Depth 6065'	20. BLM/BIA Bond No. on file UT0056
21. Elevations (Show whether DF, KDB, RT, GL, etc.) 5107' GL	22. Approximate date work will start* 3rd Quarter 2005	23. Estimated duration Approximately seven (7) days from spud to ng 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 5/24/05
Title Regulatory Specialist		
Approved by (Signature) 	Name (Printed/Typed) Howard B. Cleaves	Date 12/12/2005
Title Assistant Field Manager Mineral Resources	Office	

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

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

\*(Instructions on reverse)

NOTICE OF APPROVAL

CONDITIONS OF APPROVAL ATTACHED

RECEIVED  
DEC 16 2005

POSTED  
FROM SHERIDAN CO. WY. 12 17 2005

DIV. OF OIL, GAS & MINING



**UNITED STATES DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT  
VERNAL FIELD OFFICE  
170 South 500 East VERNAL, UT 84078 (435) 781-4400**



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

**Company:** Newfield Production Company      **Location:** SWNW Sec. 3, T9S, R17E  
**Well No:** Greater Boundary Federal 5-3-9-17      **Lease No:** UTU-61252  
**API No:** 43-013-32797      **Agreement:** N/A

Petroleum Engineer: Matt Baker      Office: 435-781-4490      Cell: 435-828-4470  
Petroleum Engineer: Michael Lee      Office: 435-781-4432      Cell: 435-828-7875  
Supervisory Petroleum Technician: Jamie Sparger      Office: 435-781-4502      Cell: 435-828-3913  
Environmental Scientist: Paul Buhler      Office: 435-781-4475      Cell: 435-828-4029  
Environmental Scientist: Karl Wright      Office: 435-781-4484  
Natural Resource Specialist: Holly Villa      Office: 435-781-4404  
Natural Resource Specialist: Melissa Hawk      Office: 435-781-4476  
**After hours contact number: (435) 781-4513      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.

**NOTIFICATION REQUIREMENTS**

- Location Construction (Notify Melissa Hawk)      - Forty-Eight (48) hours prior to construction of location and access roads.
- Location Completion (Notify Melissa Hawk)      - Prior to moving on the drilling rig.
- Spud Notice (Notify PE)      - Twenty-Four (24) hours prior to spudding the well.
- Casing String & Cementing (Notify SPT)      - Twenty-Four (24) hours prior to running casing and cementing) all casing strings.
- BOP & Related Equipment Tests (Notify SPT)      - Twenty-Four (24) hours prior to initiating pressure tests.
- First Production Notice (Notify PE)      - 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)**

This well is being approved in accordance with Washington Instruction Memorandum 2005-247 and Section 390 (Category 3) of the Energy Policy Act which establishes statutory categorical exclusions (CX) under the National Environmental Policy Act (NEPA). Category 3 states that an oil or gas well can be drilled within a developed field for which an approved land use plan or any environmental document prepared pursuant to NEPA analyzed drilling as a reasonably foreseeable activity, so long as such plan or document was approved within five (5) years prior to the date of spudding the well. This well is covered under the *Final Environmental Impact Statement and Record of Decision Castle Peak and Eightmile Flat Oil and Gas Exploration Project Newfield Rocky Mountains Inc.*, signed November 21, 2005. If the well has not been spudded by November 21, 2010, a new environmental document will have to be prepared prior to the approval of the APD.

The construction of the access road and location shall be monitored by a certified paleontologist and a report of the findings provided to the Vernal Field Office of the Bureau of Land Management.

An erosion control dam shall be constructed east of the access road and well location. Contact Byron Tolman at the Vernal Field Office of the Bureau of Land Management when it comes time to construct the reservoir.

4 to 6 inches of topsoil shall be stripped from the location and placed where it can most easily be accessed for interim reclamation. Once the well has been converted to water injection, the fill slopes shall be recontoured and the topsoil shall be spread over the entire well location. The well location shall then be seeded with crested wheatgrass (Variety Hycrest) at a 12 lb/acre rate (pure live seed). After seeding has been completed, an access road loop to the well head can be established. The reserve pit will be allowed to stay open until interim reclamation is completed so the entire area can be seeded at the same time. The interim seeding of the well location and reserve pit shall be done by either drilling the seed or by broadcasting the seed and dragging it with a spike tooth harrow.

The pipeline trench shall be dug in the borrow ditch of the road and the trench material side cast into the existing vegetation. Both the water line and the gas line shall be buried in the same trench. When backfilling the trenches, care should be taken to disturb as little of the vegetation as possible and thus allowing the existing plants to reestablish on their own, however, these disturbed areas should also be seeded with crested wheatgrass at the 12 lb/acre rate to ensure vegetation establishment and to keep invasive weeds to a minimum. All seeding of the pipelines shall be completed using a seed drill.

The temporary gas lines used during the temporary production phase shall be laid on the surface, and then removed once the well is turned to water injection.

No pipeline construction will be allowed outside of already disturbed areas when soils are muddy and rutting of soils becomes apparent from the use of vehicles. If rutting occurs, operations must cease until soils are dry or frozen.

## **DOWNHOLE CONDITIONS OF APPROVAL**

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

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

1.

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

1. There shall be no deviation from the proposed drilling, completion, and/or workover program as approved. Safe drilling and operating practices must be observed. 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. Any changes in operation must have prior approval from the BLM, Vernal Field Office Petroleum Engineers.
2. The spud date and time shall be reported orally to Vernal Field Office within 24 hours of spudding.
3. **Notify Vernal Field Office Supervisory Petroleum Engineering Technician at least 24 hours in advance of casing cementing operations and BOPE & casing pressure tests.**
4. Blowout prevention equipment (BOPE) will remain in use until the well is completed or abandoned. Closing unit controls must remain unobstructed and readily accessible at all times. Choke manifolds must be located outside of the rig substructure.

All BOPE components will 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 must be performed by a test pump with a chart recorder and **NOT** by the rig pumps. Test must be reported in the driller's log.

BOP drills must 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.

5. All shows of fresh water and minerals will be reported and protected. A sample will be taken of any water flows and a water analysis furnished the BLM, Vernal Field Office. All oil and gas shows will be adequately tested for commercial possibilities, reported, and protected.
6. No location will be constructed or moved, no well will be plugged, and no drilling or workover equipment will 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 must be obtained and notification given before resumption of operations.

7. Chronologic drilling progress reports must 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.

Any change in the program must be approved by the BLM, Vernal Field Office. "Sundry Notices and Reports on Wells" (Form BLM 3160-5) must be filed for all changes of plans and other operations in accordance with 43 CFR 3162.3-2.

Emergency approval may be obtained orally, but such approval does not waive the written report requirement. Any additional construction, reconstruction, or alterations of facilities, including roads, gathering lines, batteries, etc., which will result in the disturbance of new ground, will require the filing of a suitable plan pursuant to Onshore Oil & Gas Order No. 1 of 43 CFR 3164.1 and prior approval by the BLM, Vernal Field Office.

In accordance with 43 CFR 3162.4-3, this well must 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.

8. Whether the well is completed as a dry hole or as a producer, "Well Completion and Recompletion Report and Log" (BLM Form 3160-4) will 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, will 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) will be submitted only when requested by the BLM, Vernal Field Office.

**Please submit an electronic copy of all logs run on this well in LAS format to UT\_VN\_Welllogs@BLM.gov. This submission will supersede the requirement for submittal of paper logs to the BLM. The cement bond log must be submitted in raster format (TIF, PDF other).**

9. All off-lease storage, off-lease measurement, or commingling on-lease or off-lease will have prior written approval from the BLM, Vernal Field Office.

All measurement points shall be identified as point of sales or allocation for royalty determination prior to the installation of facilities.

10. Oil and gas meters will be calibrated in place prior to any deliveries. The 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 will 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.

11. 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.
12. This APD is approved subject to the requirement that, 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:
  - a. Operator name, address, and telephone number.
  - b. Well name and number.
  - c. Well location ( $\frac{1}{4}$ , Sec., Twn, Rng, and P.M.).
  - d. Date well was placed in a producing status (date of first production for which royalty will be paid).
  - e. 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).
  - f. 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.
  - g. Unit agreement and / or participating area name and number, if applicable.
  - h. Communitization agreement number, if applicable.
13. Any venting or flaring of gas will be done in accordance with Notice to Lessees (NTL) 4A and needs prior approval from Field Office Petroleum Engineers.
14. 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, will 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.
15. 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.

16. 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.

RECEIVED

JAN 20 2006

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

DIV. OF OIL, GAS & MINING

OPERATOR: NEWFIELD PRODUCTION COMPANY  
ADDRESS: RT. 3 BOX 3830  
MYTON, UT 84082

OPERATOR ACCT. NO. 12696

ACTION CODE	CURRENT ENTITY NO.	NEW ENTITY NO.	API NUMBER	WELL NAME	WELL LOCATION					SPUD DATE	EFFECTIVE DATE
					QQ	SC	TP	RG	COUNTY		
B	99999	12308	43-013- <del>43443</del> 32443	SANDWASH FEDERAL 14-31-8-17	NESW	31	8S	17E	DUCHESNE	01/07/06	1/26/06

WELL COMMENTS: *GRRV* - K

ACTION CODE	CURRENT ENTITY NO.	NEW ENTITY NO.	API NUMBER	WELL NAME	WELL LOCATION					SPUD DATE	EFFECTIVE DATE
					QQ	SC	TP	RG	COUNTY		
B	99999	14844	43-047-35976	FEDERAL 10-33-8-18	NWSE	33	8S	18E	UINTAH	01/10/06	1/26/06

WELL COMMENTS: *GRRV Sundance Unit* - J

ACTION CODE	CURRENT ENTITY NO.	NEW ENTITY NO.	API NUMBER	WELL NAME	WELL LOCATION					SPUD DATE	EFFECTIVE DATE
					QQ	SC	TP	RG	COUNTY		
B	99999	11880	43-013-32638	BELUGA FEDERAL 16-17-9-17	SESE	17	9S	17E	DUCHESNE	01/13/06	1/26/06

WELL COMMENTS: *GRRV* - J

ACTION CODE	CURRENT ENTITY NO.	NEW ENTITY NO.	API NUMBER	WELL NAME	WELL LOCATION					SPUD DATE	EFFECTIVE DATE
					QQ	SC	TP	RG	COUNTY		
B	99999	12391	43-013-32797	GREATER BOUNDARY 5-3-9-17	SWNW	3	9S	17E	DUCHESNE	01/16/06	1/26/06

WELL COMMENTS: *GRRV* - J

ACTION CODE	CURRENT ENTITY NO.	NEW ENTITY NO.	API NUMBER	WELL NAME	WELL LOCATION					SPUD DATE	EFFECTIVE DATE
					QQ	SC	TP	RG	COUNTY		
B	99999	14844	43-047-35768	FEDERAL 1-9-9-18	NENE	9	9S	18E	UINTAH	01/18/06	1/26/06

WELL COMMENTS: *GRRV Sundance Unit* - J

ACTION CODE	CURRENT ENTITY NO.	NEW ENTITY NO.	API NUMBER	WELL NAME	WELL LOCATION					SPUD DATE	EFFECTIVE DATE
					QQ	SC	TP	RG	COUNTY		
B	99999	14844	43-047-36048	FEDERAL 2-9-9-18	NWNE	9	9S	18E	UINTAH	01/19/06	1/26/06

WELL COMMENTS: *Sundance Unit* - J

- ACTION CODES - See instructions on back of form:
- 1 - Establish new entity for new well; single well entity
  - 2 - Add new well to existing entity (group or unit well)
  - 3 - Re-assign well from one existing entity to another existing entity
  - 4 - Re-assign well from one existing entity to a new entity
  - 5 - Other (explain in comments section)

*Kim Kettle*  
Signature Kim Kettle

Production Clerk January 20, 2006  
Title Date

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

01/20/2006 14:01

4356453031

INLAND

PAGE 02

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.  
UTU61252

6. If Indian, Allottee or Tribe Name.

7. If Unit or CA/Agreement, Name and/or No.  
GREATER BOUNDARY II

8. Well Name and No.  
GREATER BOUNDARY FEDERAL 5-3-9-17

9. API Well No.  
4301332797

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 No. (include are code)  
435.646.3721

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)  
1846 FNL 775 FWL  
SW/NW Section 3 T9S R17S

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 Notice	<input type="checkbox"/> Casing Repair	<input type="checkbox"/> New Construction	<input type="checkbox"/> Recomplete	<input checked="" type="checkbox"/> Other _____
	<input type="checkbox"/> Change Plans	<input type="checkbox"/> Plug & Abandon	<input type="checkbox"/> Temporarily Abandon	Spud Notice
	<input type="checkbox"/> Convert to Injector	<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.)

On 1/16/2006 MIRU Ross Rig # 24. Spud well @ 2:00 PM. Drill 325' of 12 1/4" hole with air mist. TIH W/ 7 Jt's 8 5/8" J-55 24 # csgn. Set @ 328.15'/ KB On 1/18/2006 cement with 160 sks of class "G" w/ 3% CaCL2 + 1/4# sk Cello- Flake Mixed @ 15.8 ppg > 1.17 cf/ sk yeild. Return 3 bbls cement to pit. WOC.

I hereby certify that the foregoing is true and correct Name (Printed/ Typed) Floyd Mitchell	Title Drilling Supervisor
Signature 	Date 01/20/2006

**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 24 2006

BUREAU OF LAND MANAGEMENT

# NEWFIELD PRODUCTION COMPANY - CASING & CEMENT REPORT

\_\_\_\_\_ **8 5/8** \_\_\_\_\_ CASING SET AT \_\_\_\_\_ **328.15** \_\_\_\_\_

LAST CASING **8 5/8"** set @ **328.15**  
 DATUM **12' KB**  
 DATUM TO CUT OFF CASING \_\_\_\_\_  
 DATUM TO BRADENHEAD FLANGE \_\_\_\_\_  
 TD DRILLER **325'** \_\_\_\_\_ LOGGER \_\_\_\_\_  
 HOLE SIZE **12 1/4** \_\_\_\_\_

OPERATOR **Newfield Production Company**  
 WELL **Greater Boundary Federal 5-3-9-17**  
 FIELD/PROSPECT **Monument Butte**  
 CONTRACTOR & RIG # **Ross Rig # 24**

LOG OF CASING STRING:							
PIECES	OD	ITEM - MAKE - DESCRIPTION	WT / FT	GRD	THREAD	CONDT	LENGTH
		Shoe Joint 44.72'					
		WHI - 92 csg head			8rd	A	0.95
7	8 5/8"	Maverick ST&C csg	24#	J-55	8rd	A	316.3
		<b>GUIDE</b> shoe			8rd	A	0.9
CASING INVENTORY BAL.		FEET	JTS	TOTAL LENGTH OF STRING			318.15
TOTAL LENGTH OF STRING		318.15	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>328.15</b>
TOTAL		316.3	7	} COMPARE			
TOTAL CSG. DEL. (W/O THRDS)		316.3	7				
TIMING		1ST STAGE					
BEGIN RUN CSG.	Spud	1/16/2006	2:00 PM	GOOD CIRC THRU JOB <u>YES</u>			
CSG. IN HOLE		1/17/2006	1:30 PM	Bbls CMT CIRC TO SURFACE <u>3</u>			
BEGIN CIRC		1/18/2006	9:49 AM	RECIPROCATED PIPE FOR <u>N/A</u>			
BEGIN PUMP CMT		1/18/2006	10:00 AM				
BEGIN DSPL. CMT		1/18/2006	10:11 AM	BUMPED PLUG TO <u>202</u> PSI			
PLUG DOWN		<b>1/18/2006</b>	<b>10:17 AM</b>				
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 \_\_\_\_\_ **Troy Zufelt** \_\_\_\_\_ DATE **1/17/2006** \_\_\_\_\_

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.  
UTU61252

6. If Indian, Allottee or Tribe Name.

7. If Unit or CA/Agreement, Name and/or No.  
GREATER BOUNDARY II

8. Well Name and No.  
GREATER BOUNDARY 5-3-9-17

9. API Well No.  
4301332797

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 No. (include are code)  
435.646.3721

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)  
1846 FNL 775 FWL  
SW/NW Section 3 T9S R17S

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

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

On 1/22/06 MIRU Patterson #155. 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 @ 265'. Drill out cement & shoe. Drill a 7.875 hole with fresh water to a depth of 6185'. 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, 145 jt's of 5.5 J-55, 15.5# csgn. Set @ 6159.16/ KB. Cement with 325 sks cement mixed @ 11.0 ppg & 3.43 yld. The 450 sks cement mixed @ 14.4 ppg & 1.24 yld. Returned 20 bbls of cement to reserve pit. Nipple down Bop's. Drop slips @ 95,000 #'s tension. Release rig @ 5:30 pm 1/27/06.

I hereby certify that the foregoing is true and correct Name (Printed/ Typed) Don Bastian	Title Drilling Foreman
Signature 	Date 01/28/2006

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

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

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

(Instructions on reverse)

**RECEIVED**

**FEB 01 2006**

DIV. OF OIL, GAS & MINING

# NEWFIELD PRODUCTION COMPANY - CASING & CEMENT REPORT

5 1/2" CASING SET AT 6159.16

LAST CASING 8 5/8" SET AT 301'  
 DATUM 12' KB  
 DATUM TO CUT OFF CASING 12'  
 DATUM TO BRADENHEAD FLANGE \_\_\_\_\_  
 TD DRILLER 6195' Loggers TD 6185'  
 HOLE SIZE 7 7/8"

Fit cllr @ 5917.92  
 OPERATOR Newfield Production Company  
 WELL Federal 5-3-9-17  
 FIELD/PROSPECT Monument Butte  
 CONTRACTOR & RIG # Patterson #155

**LOG OF CASING STRING:**

PIECES	OD	ITEM - MAKE - DESCRIPTION	WT / FT	GRD	THREAD	CONDT	LENGTH
		Landing Jt					
		<b>Short jt</b> 4129.39'(5.90)					
<b>144</b>	<b>5 1/2"</b>	ETC LT & C casing	<b>15.5#</b>	<b>J-55</b>	<b>8rd</b>	<b>A</b>	6132.36
		Float collar					0.6
<b>1</b>	<b>5 1/2"</b>	ETC LT&C csg	<b>15.5#</b>	<b>J-55</b>	<b>8rd</b>	<b>A</b>	42.55
		<b>GUIDE</b> shoe			<b>8rd</b>	<b>A</b>	0.65
CASING INVENTORY BAL.		FEET	JTS	TOTAL LENGTH OF STRING			6161.16
TOTAL LENGTH OF STRING		6190.16	145	LESS CUT OFF PIECE			14
LESS NON CSG. ITEMS		15.25		PLUS DATUM TO T/CUT OFF CSG			12
PLUS FULL JTS. LEFT OUT		85.28	2	CASING SET DEPTH			<b>6159.16</b>
<b>TOTAL</b>		<b>6260.19</b>	<b>147</b>	} COMPARE			
TOTAL CSG. DEL. (W/O THRDS)		6260.19	147				
TIMING		1ST STAGE	2nd STAGE				
BEGIN RUN CSG.		5:00am	1/27/2006	GOOD CIRC THRU JOB <u>Yes</u>			
CSG. IN HOLE		9:00am	1/27/2006	Bbls CMT CIRC TO SURFACE <u>20 bbls</u>			
BEGIN CIRC		10:00am	1/27/2006	RECIPROCATED PIPE FOR <u>THRUSTROKE</u>			
BEGIN PUMP CMT		11:20am	1/27/2006	DID BACK PRES. VALVE HOLD ? <u>Yes</u>			
BEGIN DSPL. CMT		12:09pm	1/27/2006	BUMPED PLUG TO <u>2300</u> PSI			
PLUG DOWN		<b>12:35pm</b>	<b>1/27/2006</b>				
CEMENT USED		CEMENT COMPANY- <b>B. J.</b>					
STAGE	# SX	CEMENT TYPE & ADDITIVES					
<b>1</b>	<b>325</b>	Premilite II w/ 10% gel + 3% KCL, 3#/sk CSE + 2# sk/kolseal + 1/4#/sk Cello Flake					
		mixed @ 11.0 ppg W / 3.43 cf/sk yield					
<b>2</b>	<b>450</b>	50/50 poz W/ 2% Gel + 3% KCL, .5%EC1, 1/4# sk C.F. 2% gel. 3% SM mixed @ 14.4 ppg W/ 1.24 YLD					
CENTRALIZER & SCRATCHER PLACEMENT			SHOW MAKE & SPACING				
Centralizers - Middle first, top second & third. Then every third collar for a total of 20.							

COMPANY REPRESENTATIVE Don Bastian

DATE January 27 2006

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

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

5. Lease Serial No.  
UTU61252

6. If Indian, Allottee or Tribe Name.

7. If Unit or CA/Agreement, Name and/or No.  
GREATER BOUNDARY II

8. Well Name and No.  
GREATER BOUNDARY 5-3-9-17

9. API Well No.  
4301332797

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 No. (include are code)  
435.646.3721

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)  
1846 FNL 775 FWL  
SW/NW Section 3 T9S R17S

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 Notice	<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 Injector	<input type="checkbox"/> Plug Back	<input checked="" type="checkbox"/> Water Disposal	_____

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

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

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

*Handwritten notes and stamps:*  
Approved by  
Title Specialist  
Date  
02/16/2006

I hereby certify that the foregoing is true and correct Name (Printed/Typed) Mandie Crozier	Title Regulatory Specialist
Signature <i>Mandie Crozier</i>	Date 02/16/2006

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

Instructions on reverse

**RECEIVED**

**FEB 21 2006**

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.  
UTU61252

6. If Indian, Allottee or Tribe Name.

7. If Unit or CA/Agreement, Name and/or No.  
GREATER BOUNDARY II

8. Well Name and No.  
GREATER BOUNDARY 5-3-9-17

9. API Well No.  
4301332797

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 No. (include area code)  
435.646.3721

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)  
1846 FNL 775 FWL  
SW/NW Section 3 T9S R17S

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 Notice	<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	Variance _____
	<input type="checkbox"/> Convert to Injector	<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.)

Newfield Production Company is requesting a variance from Onshore Order 43 CFR Part 3160 Section 4 requiring production tanks to be equipped with Enardo or equivalent vent line valves. Newfield operates wells that produce from the Green River formation, which are relatively low gas producers (20 mcfpd). The majority of the wells are equipped with a three phase separator to maximize gas separation and sales.

Newfield is requesting a variance for safety reasons. Crude oil production tanks equipped with back pressure devices will emit a surge of gas when the thief hatches are open. While gauging tanks, lease operators will be subject to breathing toxic gases as well as risk a fire hazard, under optimum conditions

2-27-06  
CHO

I hereby certify that the foregoing is true and correct

Name (Printed/Typed) Mandie Crozier Title Regulatory Specialist

Signature [Signature] Date 02-16-2006

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

Approved by \_\_\_\_\_ 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.

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.

RECEIVED  
FEB 21 2006  
By: \_\_\_\_\_  
Date: \_\_\_\_\_  
Oil, Gas and Mining Division  
Federal Approval of This Action Is Necessary

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 No. (include are code)  
435.646.3721

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)  
1846 FNL 775 FWL  
SW/NW Section 3 T9S R17S

5. Lease Serial No.

UTU61252

6. If Indian, Allottee or Tribe Name.

7. If Unit or CA/Agreement, Name and/or No.

GREATER BOUNDARY II

8. Well Name and No.

GREATER BOUNDARY 5-3-9-17

9. API Well No.

4301332797

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

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

Status report for time period 02/07/06 - 02/14/06

Subject well had completion procedures initiated in the Green River formation on 02-07-06 without the use of a service rig over the well. A cement bond log was run and a total of one Green River intervals were perforated and hydraulically fracture treated with 20/40 mesh sand. Perforated intervals are as follows: Stage #1 (6050'-6068'), (6000'-6020'), (5950'-5960'). All perforations, were 4 JSPF. Composite flow-through frac plugs were used between stages. Fracs were flowed back through chokes. A service rig was moved over the well on 02-08-2006. Bridge plugs were drilled out and well was cleaned to 6127'. Zones were swab tested for sand cleanup. A new 1 1/2" bore rod pump was run in well on sucker rods. Well was placed on production via rod pump on 02-14-2006.

I hereby certify that the foregoing is true and correct

Name (Printed/ Typed)  
Lana Nebeker

Signature

Title

Production Clerk

Date

03/07/2006

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

Approved by \_\_\_\_\_

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

Title

Date

Office

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

(Instructions on reverse)

RECEIVED

MAR 09 2006

DIV. OF OIL, GAS & MINING

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

5. LEASE DESIGNATION AND SERIAL NO.

UTU-61252

**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

Greater Boundary II Unit

1b. TYPE OF WELL

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

8. FARM OR LEASE NAME, WELL NO.

Greater Boundary Federal 5-3-9-17

2. NAME OF OPERATOR

Newfield Exploration Company

9. WELL NO.

43-013-32797

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 1846' FNL & 775' FWL (SW/NW) Sec. 3, T9S, R17E

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

Sec. 3, T9S, R17E

At total depth

14. API NO. 43-013-32797 DATE ISSUED 6/7/05

12. COUNTY OR PARISH  
Duchesne

13. STATE  
UT

15. DATE SPUDDED  
1/16/06

16. DATE T.D. REACHED  
1/27/06

17. DATE COMPL. (Ready to prod.)  
2/14/06

18. ELEVATIONS (DF, RKB, RT, GR, ETC.)\*  
5107' GL

5119' KB

19. ELEV. CASINGHEAD

20. TOTAL DEPTH, MD & TVD

6195'

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

6144'

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 5950'-6068'

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

28. 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#	328'	12-1/4"	To surface with 160 sx Class "G" cmt	
5-1/2" - J-55	15.5#	6188'	7-7/8"	325 sx Premlite II and 450 sx 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 @ 6041'	TA @ 5835'

31. PERFORATION RECORD (Interval, size and number)

INTERVAL	SIZE	SPF/NUMBER
(BLS) 5950'-60', 6000'-20', 6050'-68'	.46"	4/192

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

DEPTH INTERVAL (MD)	AMOUNT AND KIND OF MATERIAL USED
5950'-6068'	Frac w/ 105,211# 20/40 sand in 1381 bbls fluid

33.\* PRODUCTION

DATE FIRST PRODUCTION 2/14/06	PRODUCTION METHOD (Flowing, gas lift, pumping--size and type of pump) 2-1/2" x 1-1/2" x 14' RHAC SM Plunger Pump	WELL STATUS (Producing or shut-in) PRODUCING					
DATE OF TEST 30 day ave	HOURS TESTED	CHOKE SIZE	PROD'N. FOR TEST PERIOD ----->	OIL--BBL. 5	GAS--MCF. 1	WATER--BBL. 27	GAS-OIL RATIO 200
FLOW TUBING PRESS.	CASING PRESSURE	CALCULATED 24-HOUR RATE ----->	OIL-BBL.	GAS--MCF.	WATER--BBL.	OIL GRAVITY-API (CORR.)	

**RECEIVED**

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

TEST WITNESSED BY

**MAR 24 2006**

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 Mandie Cozler  
Mandie Cozler

DATE \_\_\_\_\_  
Regulatory Specialist

DATE 3/23/2006

37. SUMMARY OF POROUS ZONES: (Show all important zones of porosity and contents thereof, cored intervals, and all drill-stem, tests, including depth interval tested, cushion used, time tool open, flowing and shut-in pressures, and recoveries);				38. GEOLOGIC MARKERS		
FORMATION	TOP	BOTTOM	DESCRIPTION, CONTENTS, ETC.	NAME	TOP	
					MEAS. DEPTH	TRUE VERT. DEPTH
			Well Name Greater Boundary Federal 5-3-9-17	Garden Gulch Mkr	3727'	
				Garden Gulch 1	3920'	
				Garden Gulch 2	4038'	
				Point 3 Mkr	4299'	
				X Mkr	4535'	
				Y-Mkr	4568'	
				Douglas Creek Mkr	4696'	
				BiCarbonate Mkr	4937'	
				B Limestone Mkr	5093'	
				Castle Peak	5535'	
				Basal Carbonate	5947'	
				Total Depth (LOGGERS)	6185'	

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

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

1. Type of Well <input checked="" type="checkbox"/> Oil Well <input type="checkbox"/> Gas Well <input type="checkbox"/> Other		5. Lease Serial No. UTU61252
2. Name of Operator NEWFIELD PRODUCTION COMPANY		6. If Indian, Allottee or Tribe Name.
3a. Address    Route 3 Box 3630 Myton, UT    84052	3b. Phone No. (include are code) 435.646.3721	7. If Unit or CA/Agreement, Name and/or No. GREATER BOUNDARY II
4. Location of Well (Footage, Sec., T., R., M., or Survey Description) 1846 FNL 775 FWL SW/NW Section 3 T9S R17E		8. Well Name and No. GREATER BOUNDARY 5-3-9-17
		9. API Well No. 4301332797
		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 Notice	<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 Injector	<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.)

Status report for time period 04/20/06 - 04/27/06

Subject well had completion procedures initiated in the Green River formation on 04-20-06 without the use of a service rig over the well. A cement bond log was run and a total of seven Green River intervals were perforated and hydraulically fracture treated with 20/40 mesh sand. Perforated intervals are as follows: Stage #1 (was perviously fractured); Stage #2 (5640'-5648'),(5587'-5598'); Stage #3 (5245'-5250'),(5196'-5201'); Stage #4 (5021'-5029'); Stage #5 (4954'-4963'); Stage #6 (4791'-4798'); Stage #7(4288'-4294'). All perforations, were 4 JSPF. Composite flow-through frac plugs were used between stages. Fracs were flowed back through chokes. A service rig was moved over the well on 04-20-2006. Bridge plugs were drilled out and well was cleaned to 6127'. Zones were swab tested for sand cleanup. A new 1 1/2" bore rod pump was run in well on sucker rods. Well was placed on production via rod pump on 04-27-2006.

I hereby certify that the foregoing is true and correct		Title
Name (Printed/ Typed) Lana Nebeker		Production Clerk
Signature 		Date 05/31/2006

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

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

(Instructions on reverse)

RECEIVED

JUN 02 2006



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

REGION 8
1595 Wynkoop Street
DENVER, CO 80202-1129
Phone 800-227-8917
http://www.epa.gov/region08

APR 17 2007

CERTIFIED MAIL
RETURN RECEIPT REQUESTED

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

David Gerbig
Operations Engineer
Newfield Production Company
1401 Seventeenth Street - Suite 1000
Denver, CO 80202

43.013.32797

9S 17E 3

RE: Additional Well to Boundary Area Permit
UIC Permit No. UT20702-00000
Well ID: UT20702-07602
Greater Boundary Federal No. 5-3-9-17
Duchesne County, Utah

Dear Mr. Gerbig:

Newfield Production Company (Newfield) request to convert Greater Boundary Federal No. 5-3-9-17 to a Green River Formation enhanced recovery injection well is hereby authorized by the Environmental Protection Agency (EPA) under the terms and conditions of this Authorization For Additional Well.

The addition of Greater Boundary Federal No. 5-3-9-17, within the exterior boundary of the Uintah & Ouray Indian Reservation, is being made under the authority of 40 Code of Federal Regulations (CFR) §144.33 (c) and terms of the Boundary Area Permit, Underground Injection Control (UIC) Area Permit No. UT20702-00000, and subsequent modifications. Unless specifically mentioned in the enclosed Authorization For Additional Well, Greater Boundary Federal No. 5-3-9-17 is subject to all terms and conditions of the UIC Area Permit UT20702-00000 as modified.

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 Newfield 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 3732 feet and the top of the Wasatch Formation at 6070 feet.

RECEIVED
APR 20 2007
DIV. OF OIL, GAS & MINING



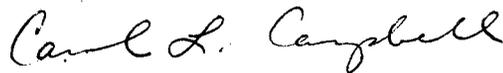
Printed on Recycled Paper

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

The initial Maximum Allowable Injection Pressure (MAIP) for Greater Boundary Federal No. 5-3-9-17 was determined to be **1160 psig**. UIC Area Permit UT20702-00000 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.

**FOR RECORD ONLY**  
If you have any questions, please call Emmett Schmitz at (303) 312-6174 or 1-800-227-8917 (Ext. 312-6174). Please submit the required data to the **ATTENTION: EMMETT SCHMITZ** at the letterhead address citing **MAIL CODE: 8P-W-GW** very prominently.

Sincerely,



Stephen S. Tuber  
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)  
Schematic Diagram Proposed Conversion: Greater Boundary Federal No. 5-3-9-17  
Schematic Diagram Proposed P&A Plan: Greater Boundary Federal No. 5-3-9-17

cc: without enclosures:

Maxine Natchees  
Chairperson  
Uintah & Ouray Business Committee  
Ute Indian Tribe

Chester Mills  
Superintendent  
U.S. Bureau of Indian Affairs  
Uintah & Ouray Indian Agency

cc: with enclosures:

Lynn Becker  
Director  
Energy & Minerals Dept.  
Ute Indian Tribe

Shaun Chapoose  
Director  
Land Use Dept.  
Ute Indian Tribe

Michael Guinn  
Vice President - Operations  
Newfield Production Company  
Myton, UT 84052

Gilbert Hunt  
Associate Director  
State of Utah  
Division of Oil, Gas, and Mining

Fluid Minerals Engineering Office  
U.S. Bureau of Land Management  
Vernal, Utah

Irene Cuch  
Councilwoman  
Uintah & Ouray Business Committee  
Ute Indian Tribe

Smiley Arrowchis  
Councilman  
Uintah & Ouray Business Committee  
Ute Indian Tribe

Ronald Grove  
Councilman  
Uintah & Ouray Business Committee  
Ute Indian Tribe

Richard Jenks, Jr.  
Councilman  
Uintah & Ouray Business Committee  
Ute Indian Tribe

Francis Poowegup  
Councilman  
Uintah & Ouray Business Committee  
Ute Indian Tribe



**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**

The Final Boundary UIC Area Permit No. UT20702-00000, effective February 8, 1994, authorized enhanced recovery injection into portions of the Douglas Creek Member of the Green River Formation. Major Permit Modification No. 3, effective May 19, 2003, authorized injection for the purpose of enhanced oil recovery into multiple lenticular sand and carbonate units which are distributed throughout the Garden Gulch-Douglas Creek-Basal Carbonate Members of the Green River Formation. On January 22, 2007, the permittee provided notice to the Director concerning the following additional enhanced recovery injection well:

Well Name: Greater Boundary Federal No. 5-3-9-17  
EPA Well ID Number: UT20702-07602  
Location: 1846 ft FNL & 775 ft FWL  
SW NW Sec. 3 - T9S - R17E  
Duchesne County, Utah.

Pursuant to Code of Federal Regulations Title 40 (40 CFR) §144.33, UIC Area Permit No. UT20702-00000 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. UT20702-00000, as modified and as specified in the 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. Authorization is effective upon signature.

Date: \_\_\_\_\_

*Carl S. Campbell*

**Stephen S. Tuber**

\*Assistant Regional Administrator  
Office of Partnerships and Regulatory Assistance

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

Authorization for Additional Well: UIC Area Permit UT20702-00000  
Well: Greater Boundary Federal No. 5-3-9-17 EPA Well ID: UT20702-07602



## WELL-SPECIFIC REQUIREMENTS

Well Name: **Greater Boundary Federal No. 5-3-9-17**

EPA Well ID Number: **UT20702-07602**

Prior to commencing injection operations, the permittee shall submit the following information and receive written Authority to Inject from the Director:

1. a successful Part I (Internal) Mechanical Integrity Test (MIT);
2. pore pressure calculation of the proposed injection zone;
3. completed Well Rework Record (EPA Form No. 7520-12) and schematic diagram.

**Approved Injection Zone:** The Approved Injection Zone is the interval between the top of the Green River Formation Garden Gulch Member at 3732 feet and the top of the Wasatch Formation at 6070 feet. The permittee is authorized to perforate additional intervals within the Approved Injection Zone for enhanced recovery injection.

**Maximum Allowable Injection Pressure (MAIP):** The initial MAIP is **1160 psig**, based on the following calculation:

$$\begin{aligned} \text{MAIP} &= [\text{FG} - (0.433)(\text{SG})] D, \text{ where} \\ \text{FG} &= 0.710 \text{ psi/ft} \\ \text{SG} &= 1.015 \\ D &= 4288 \text{ ft (Top perforation depth)} \\ \text{MAIP} &= \mathbf{1160 \text{ psig}}. \end{aligned}$$

UIC Area Permit No. UT20702-00000 also provides the opportunity for the permittee to request a change of the MAIP based upon results of a Step-Rate Test that demonstrates the formation breakdown pressure will not be exceeded.

**Well Construction and Corrective Action:** No Corrective Action is required.

**Tubing** 2-3/8" or similar size injection tubing is approved; the packer shall be set at  
**and Packer:** a depth no more than 100 ft above the top perforation.

**Corrective Action for Wells in Area of Review:** No pre-injection Corrective Action is required. The permittee shall observe the surface location of all wells within the one-quarter (1/4) mile AOR on a weekly basis. Should injectate contamination be observed at the surface, the permittee shall immediately suspend injection into the Greater Boundary Federal No. 5-3-9-17. Injection shall not resume until the noncompliance has been resolved and injection is approved by letter from the Director.

**Demonstration of Mechanical Integrity:** A successful demonstration of Part I (Internal) Mechanical Integrity using a standard Casing-Tubing pressure test is required prior to injection and at least once every five years thereafter. EPA reviewed the cement bond log 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 via an Annual Statement that has been reviewed and approved by the EPA. The present Plugging and Abandonment cost has been estimated by the permittee to be \$33,500.

**Plugging and Abandonment:** The well shall be plugged in a manner that isolates the injection zone and prevents movement of fluid into or between USDWs and in accordance with other applicable federal, State or local law or regulation. 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. 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: Seal Injection Zone:** Set a cast iron bridge plug (CIBP) at approximately 4193 feet or no more than 100 feet above the top injection perforation. Place at least 100-foot of cement plug on top of the CIBP.

**PLUG NO. 2: Seal Mahogany Shale zone:** Squeeze a cement plug on the backside of the 5-1/2" casing across the Trona Zone and the Mahogany Shale between approximately 2865 feet to 3025 feet (unless pre-existing backside cement precludes cement-squeezing this interval), followed by a minimum 160-foot balanced cement plug inside the 5-1/2" casing across the Trona Zone and the Mahogany Shale, approximately 2865 feet to 3025 feet.

**PLUG NO. 3: Seal USDWs:** Squeeze a cement plug (2200 feet - 2300 feet) on the backside of the 5-1/2" casing across the base of the Uinta formation (unless pre-existing backside cement precludes cement-squeezing this interval), followed by a minimum 100-foot balanced cement plug inside the 5-1/2" casing across the base of the Uinta Formation, from approximately 2200 feet to 2300 feet.

**PLUG NO.4: Seal surface:** Set a Class "G" cement plug within the 5-1/2" casing to 363 feet and up the 5-1/2" by 8-5/8" inch casings annulus to the surface.

Cut off surface and 5-1/2" casing at least 4 feet below ground level and set P&A marker. Submit Sundry Notices and all necessary data as required by the EPA and other regulatory agencies.

**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 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.

## WELL-SPECIFIC CONSIDERATIONS

Well Name: Greater Boundary Federal No. 5-3-9-17

EPA Well ID Number: UT20702-07602

**Current Status:** The Greater Boundary Federal No. 5-3-9-17 is currently a Garden Gulch and Douglas Creek Members oil well waiting on EPA authorization to convert to a Class II Green River Formation enhanced recovery injection well.

**Underground Sources of Drinking Water (USDWs):** USDWs in the Area Permit generally occur within the Uinta Formation. According to the "*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, within the Greater Boundary Federal No. 5-3-9-17, may be found at approximately 150 feet below ground surface.

**<http://NRWRT1.NR.STATE.UT.US>:** (Water Rights...Queries...POD). Within the one-quarter (1/4) mile Area-of-Review (AOR) around the Greater Boundary Federal No. 5-3-9-17 there are no reservoirs, streams, springs, domestic or agricultural water wells.

### **Composition of Injectate and Formation Water: (Total Dissolved Solids [TDS])**

- TDS of Injection Zone water: **19,118 mg/l** (Analysis: 1/17/06).
- TDS of injectate: **12,465 mg/l**. Unit-produced water is blended at pump facility with Johnson Water District (Analysis 11/02/06).

### **Confining Zone:**

The Confining Zone, which directly overlies the Garden Gulch Member of the Green River Formation, is approximately seventy-four (74) feet of shale between the depths of 3652 feet and 3732 feet (KB).

### **Injection Zone:**

The Injection Zone is an approximately 2338 feet section of multiple lenticular sand units interbedded with shale, marlstone and limestone, from the top of the Garden Gulch Member at 3652 feet (KB) to the top of the Wasatch Formation at 6070 feet (KB). All formation top depths are based on correlation to the Federal No.1-26-8-17 Type Log (pursuant to Major Permit Modification No. 2, UT20847-00000, dated September 9, 2003).

**Well Construction:** There is 80% bond index cement bond across the Confining Zone.

**Surface:** 8-5/8" casing is set at 328 feet (KB) in a 12-1/4" hole, using 160 sacks of cement which was circulated to the surface.

**Longstring:** 5-1/2" casing is set at 6188 feet (KB) in a 7-7/8" hole and secured with 775 sacks of cement. Top of cement (TOC) calculated by EPA = 1162 feet.

**Perforations:** Gross Perforations: 4288 feet to 6068 feet.

*Authorization for Additional Well:* UIC Area Permit UT20702-00000

*Well:* Greater Boundary Federal No. 5-3-9-17 EPA Well ID: UT20702-07602

**Determination of a Fracture Gradient:** Of the seven (7) sand/fracture treatments conducted on the Greater Boundary Federal No. 5-3-9-17, the minimum calculated fracture gradient (FG) is 0.710 psi/ft; a value in accord with FGs derived from Step-Rate Tests (STR) conducted in injection wells proximate to the subject well. Until an SRT has been run on the subject well, the EPA will use a FG of 0.710 psi/ft to calculate the MAIP.

**Step-Rate Test (SRT):** A Step-Rate Test may be required to confirm that the initial maximum authorized injection pressure (MAIP), based on sand/frac treatments, is appropriate to ensure that pressure during injection will not initiate new fractures or propagate existing fractures in the confining zone.

**Wells in Area of Review (AOR):** The following Green River oil wells within or proximate to a one-quarter (1/4) mile radius around the Greater Boundary Federal No. 5-3-9-17 were evaluated to determine if any corrective action is necessary to prevent fluid movement into USDWs. Other than a weekly inspection of each location for surface injectate leakage, no corrective action is required.

Monument Federal 1-3-9-17	NW SW Section 3 - T9S - R17E
Monument Butte Federal 2-3	SE NW Section 3 - T9S - R17E
Castle Draw 8-4-9-17 (UT20916-04630)	SE NE Section 4 - T9S - R17E

# Greater Boundary Federal 5-3-9-17

Spud Date: 1-16-06  
 Put on Production: 2-14-06  
 GL: 5107' KB: 5119'

Initial Production: BOPD,  
 MCFD, BWPD

## Proposed Injection Wellbore Diagram

**SURFACE CASING** *Base USDWs 1110'*  
 CSG SIZE: 8-5/8"  
 GRADE: J-55  
 WEIGHT: 24#  
 LENGTH: 7 jts (316.30') *TOC/EPA 1162'*  
 DEPTH LANDED: 328.15' KB  
 HOLE SIZE: 12-1/4" *Green River 2266'*  
 CEMENT DATA: 160 sxs Class "G" cmt, est 3 bbls cmt to surf.

**PRODUCTION CASING**  
 CSG SIZE: 5-1/2" *Trona/Birds Nest 2994'*  
 GRADE: J-55  
 WEIGHT: 15.5# *M2hos2ny Bench 2984-2974*  
 LENGTH: 145 jts (6174.91') *Confine Zone 3658-3732*  
 DEPTH LANDED: 6188.16' KB *Garden Gulch 3732'*  
 HOLE SIZE: 7-7/8"  
 CEMENT DATA: 325 sxs Prem. Lite II mixed & 450 sxs 50/50 POZ.  
 CEMENT TOP AT: 80'

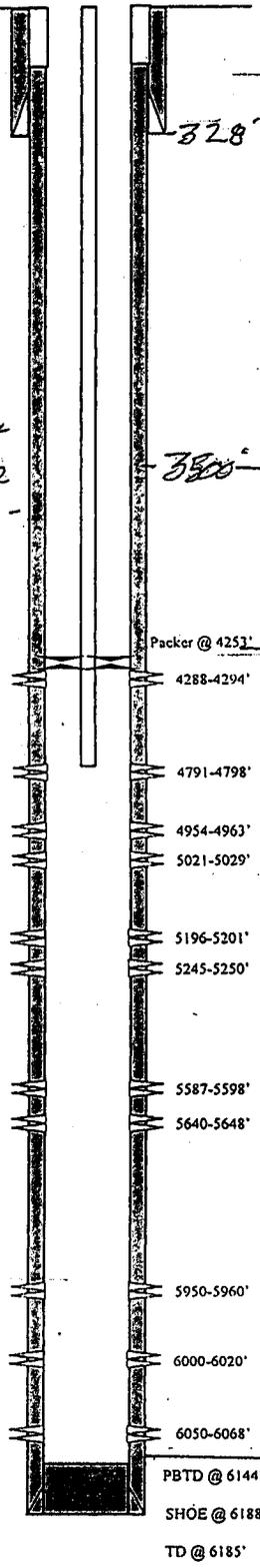
**TUBING**  
 SIZE/GRADE/WT.: 2-7/8" / J-55 / 6.5#  
 NO. OF JOINTS: 179 jts (5823.20') *Douglas Creek 4705'*  
 TUBING ANCHOR: 5835.20' KB  
 NO. OF JOINTS: 2 jts (65.08')  
 SEATING NIPPLE: 2-7/8" (1.10')  
 SN LANDED AT: 5903' KB  
 NO. OF JOINTS: 1 jts (32.56')  
 TOTAL STRING LENGTH: EOT @ 6040.97' KB

*Base Concrete 5941'*

FRAC JOB		
02-11-06	5950-6068'	Frac BLS sands as follows: 10521# 20/40 sand in 1381 bbls Lightning 17 frac fluid. Treated @ avg press of 2695 psi w/avg rate of 41.4 BPM. ISIP 2950 psi. Calc flush: 5948 gal. Actual flush: 5838 gal.
04-21-06	5587-5648'	Frac CP1&2 sands as follows: 70,601# 20/40 sand in 735 bbls Lightning 17 frac fluid. Treated @ avg press of 2094 psi w/avg rate of 25.3 BPM. ISIP 1550 psi. Calc flush: 5585 gal. Actual flush: 5486 gal
04-21-06	5196-5250'	Frac A1&3 sands as follows: 25,023# 20/40 sand in 340 bbls Lightning 17 frac fluid. Treated @ avg press of 2000 psi w/avg rate of 25.2 BPM. ISIP 1950 psi. Calc flush: 5194 gal. Actual flush: 5250 gal
04-21-06	5021-5029'	Frac B1 sands as follows: 25,068# 20/40 sand in 338 bbls Lightning 17 frac fluid. Treated @ avg press of 2001 psi w/avg rate of 25.2 BPM. ISIP 2000 psi. Calc flush: 5019 gal. Actual flush: 5040 gal
04-25-06	4954-4963'	Frac B.5 sands as follows: 25,443# 20/40 sand in 422 bbls Lightning 17 frac fluid. Treated @ avg press of 2053 psi w/avg rate of 24.8BPM. ISIP 2160 psi. Calc flush: 4952 gal. Actual flush: 4998 gal
04-25-06	4791-4798'	Frac D2 sands as follows: 69,231# 20/40 sand in 538 bbls Lightning 17 frac fluid. Treated @ avg press of 1883 psi w/avg rate of 24.7 BPM. ISIP 2080 psi. Calc flush: 4789 gal. Actual flush: 4788 gal
04-25-06	4288-4294'	Frac GD6 sands as follows: 13,816# 20/40 sand in 258 bbls Lightning 17 frac fluid. Treated @ avg press of 2133 psi w/avg rate of 24.7 BPM. ISIP 2185 psi. Calc flush: 4286 gal. Actual flush: 4200 gal

**PERFORATION RECORD**

02-07-06	6050-6068'	4 JSPF	72 holes
02-07-06	6000-6020'	4 JSPF	80 holes
02-07-06	5950-5960'	4 JSPF	40 holes
04-21-06	5640-5648'	4 JSPF	32 holes
04-21-06	5587-5598'	4 JSPF	44 holes
04-21-06	5245-5250'	4 JSPF	20 holes
04-21-06	5196-5201'	4 JSPF	20 holes
04-21-06	5021-5029'	4 JSPF	32 holes
04-21-06	4954-4963'	4 JSPF	36 holes
04-25-06	4791-4798'	4 JSPF	28 holes
04-25-06	4288-4294'	4 JSPF	24 holes



**NEWFIELD**

---

Greater Boundary Federal 5-3-9-17  
 1846' FNL & 775' FWL  
 SW/NW Section 3-T9S-R17E  
 Duchesne Co, Utah  
 API #43-013-32797; Lease #UTU-61252

Greater Boundary Federal 5-3-9-17

Spud Date: 1-16-06  
 Put on Production: 2-14-06  
 GL: 5107' KB: 5119'

Proposed P & A  
 Wellbore Diagram

SURFACE CASING

CSG SIZE: 8-5/8" *Base USDWs 4110'*  
 GRADE: J-55  
 WEIGHT: 24#  
 LENGTH: 7 jts (316.30')  
 DEPTH LANDED: 328.15' KB  
 HOLE SIZE: 12-1/4" *Green River 2262'*  
 CEMENT DATA: 160 sxs Class "G" cmt, est 3 bbls cmt to surf.

PRODUCTION CASING

CSG SIZE: 5-1/2" *Tromps Birds Nest 2914'*  
 GRADE: J-55 *Mahogany Ranch 2954' - 2974'*  
 WEIGHT: 15.5#  
 LENGTH: 145 jts (6174.91') *Leaf Zone 3452' - 3732'*  
 DEPTH LANDED: 6188.16' KB *Garden Gulch 3732'*  
 HOLE SIZE: 7-7/8"  
 CEMENT DATA: 325 sxs Prein. Lite II mixed & 450 sxs 50/50 POZ.  
 CEMENT TOP AT: 80'

Cement top @ 80'

Pump 44 sx Class G Cement down 5-1/2" casing to 378'

Casing Shoe @ 328'

*-1162' TOC/ EPA*

*2200' - 2300' Cement Plug*

*2865' - 3025' Cement Plug*

*3500'*

100' (12 sx) Class G Cement plug on top of CIBP

CIBP @ 4193'

4288-4294'

*4253'*

80% bond

*Doughs Creek 4700'*

4791-4798'

4954-4963'

5021-5029'

5196-5201'

5245-5250'

5587-5598'

5640-5648'

*Bassi Carbonate 5947'*

5950-5960'

6000-6020'

6050-6068'

PBTD @ 6144'

SHOE @ 6188'

TD @ 6185'

*6070' Nestle*

 <p><b>NEWFIELD</b></p>
<p><b>Greater Boundary Federal 5-3-9-17</b></p> <p>1846' FNL &amp; 775' FWL</p> <p>SW/NW Section 3-T9S-R17E</p> <p>Duchesne Co, Utah</p> <p>API #43-013-32797; Lease #UTU-61252</p>



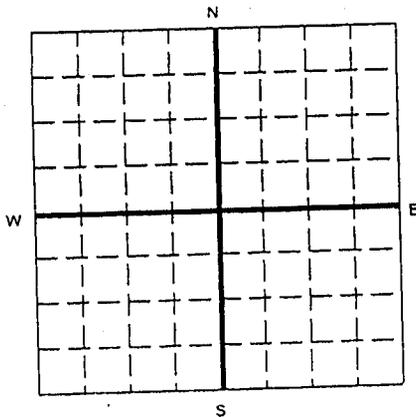
United States Environmental Protection Agency  
Washington, DC 20460

### WELL REWORK RECORD

Name and Address of Permittee

Name and Address of Contractor

Locate Well and Outline Unit on  
Section Plat - 640 Acres



State \_\_\_\_\_ County \_\_\_\_\_ Permit Number \_\_\_\_\_  
 Surface Location Description  
 \_\_\_ 1/4 of \_\_\_ 1/4 of \_\_\_ 1/4 of \_\_\_ 1/4 of Section \_\_\_ Township \_\_\_ Range \_\_\_

Locate well in two directions from nearest lines of quarter section and drilling unit  
 Surface  
 Location \_\_\_ ft. frm (N/S) \_\_\_ Line of quarter section  
 and \_\_\_ ft. from (E/W) \_\_\_ Line of quarter section.

WELL ACTIVITY <input type="checkbox"/> Brine Disposal <input type="checkbox"/> Enhanced Recovery <input type="checkbox"/> Hydrocarbon Storage  Lease Name _____	Total Depth Before Rework _____	TYPE OF PERMIT <input type="checkbox"/> Individual <input type="checkbox"/> Area Number of Wells _____  Well Number _____
	Total Depth After Rework _____	
	Date Rework Commenced _____	
	Date Rework Completed _____	

#### WELL CASING RECORD -- BEFORE REWORK

Casing		Cement		Perforations		Acid or Fracture Treatment Record
Size	Depth	Sacks	Type	From	To	

#### WELL CASING RECORD -- AFTER REWORK (Indicate Additions and Changes Only)

Casing		Cement		Perforations		Acid or Fracture Treatment Record
Size	Depth	Sacks	Type	From	To	

DESCRIBE REWORK OPERATIONS IN DETAIL  
USE ADDITIONAL SHEETS IF NECESSARY

#### WIRE LINE LOGS, LIST EACH TYPE

Log Types	Logged Intervals

#### Certification

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

Name and Official Title (Please type or print)	Signature	Date Signed
--	-----------	-------------

<b>STATE OF UTAH</b> DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		FORM 9
<b>SUNDRY NOTICES AND REPORTS ON WELLS</b>  Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.		<b>5. LEASE DESIGNATION AND SERIAL NUMBER:</b> UTU-61252
		<b>6. IF INDIAN, ALLOTTEE OR TRIBE NAME:</b>
<b>1. TYPE OF WELL</b> Oil Well		<b>7. UNIT or CA AGREEMENT NAME:</b> GMBU (GRRV)
<b>2. NAME OF OPERATOR:</b> NEWFIELD PRODUCTION COMPANY		<b>8. WELL NAME and NUMBER:</b> GB FED 5-3-9-17
<b>3. ADDRESS OF OPERATOR:</b> Rt 3 Box 3630 , Myton, UT, 84052		<b>9. API NUMBER:</b> 43013327970000
<b>PHONE NUMBER:</b> 435 646-4825 Ext		<b>9. FIELD and POOL or WILDCAT:</b> MONUMENT BUTTE
<b>4. LOCATION OF WELL</b> <b>FOOTAGES AT SURFACE:</b> 1846 FNL 0775 FWL <b>QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:</b> Qtr/Qtr: SWNW Section: 03 Township: 09.0S Range: 17.0E Meridian: S		<b>COUNTY:</b> DUCHESNE
		<b>STATE:</b> UTAH

11.

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

TYPE OF SUBMISSION	TYPE OF ACTION		
<input type="checkbox"/> NOTICE OF INTENT Approximate date work will start:	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> CASING REPAIR
<input checked="" type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion: 6/7/2012	<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 06/04/2012. On 05/31/2012 Jason Deardorff with the EPA was contacted concerning the initial MIT on the above listed well. On 06/07/2012 the casing was pressured up to 1320 psig and charted for 30 minutes with no pressure loss. The well was not injecting during the test. The tubing pressure was 0 psig during the test. There was not an EPA representative available to witness the test. EPA# UT20702-07602

**Accepted by the  
Utah Division of  
Oil, Gas and Mining  
FOR RECORD ONLY  
June 18, 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> 6/12/2012	

# 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: 6/17/12  
 Test conducted by: Chris Walters  
 Others present: \_\_\_\_\_

Well Name: <u>5-3-9-17 Greater Boundary Federal</u> Type: ER SWD		Status: AC TA UC
Field: <u>Monument Butte</u>		
Location: <u>SW/NW</u> Sec: <u>3</u> T <u>9</u> N <u>18</u> R <u>17</u> E/W		County: <u>Duchesne</u> State: <u>UT</u>
Operator: <u>Chris Walters (Newfield)</u>		
Last MIT: <u>1</u> / <u>1</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: 0 psig

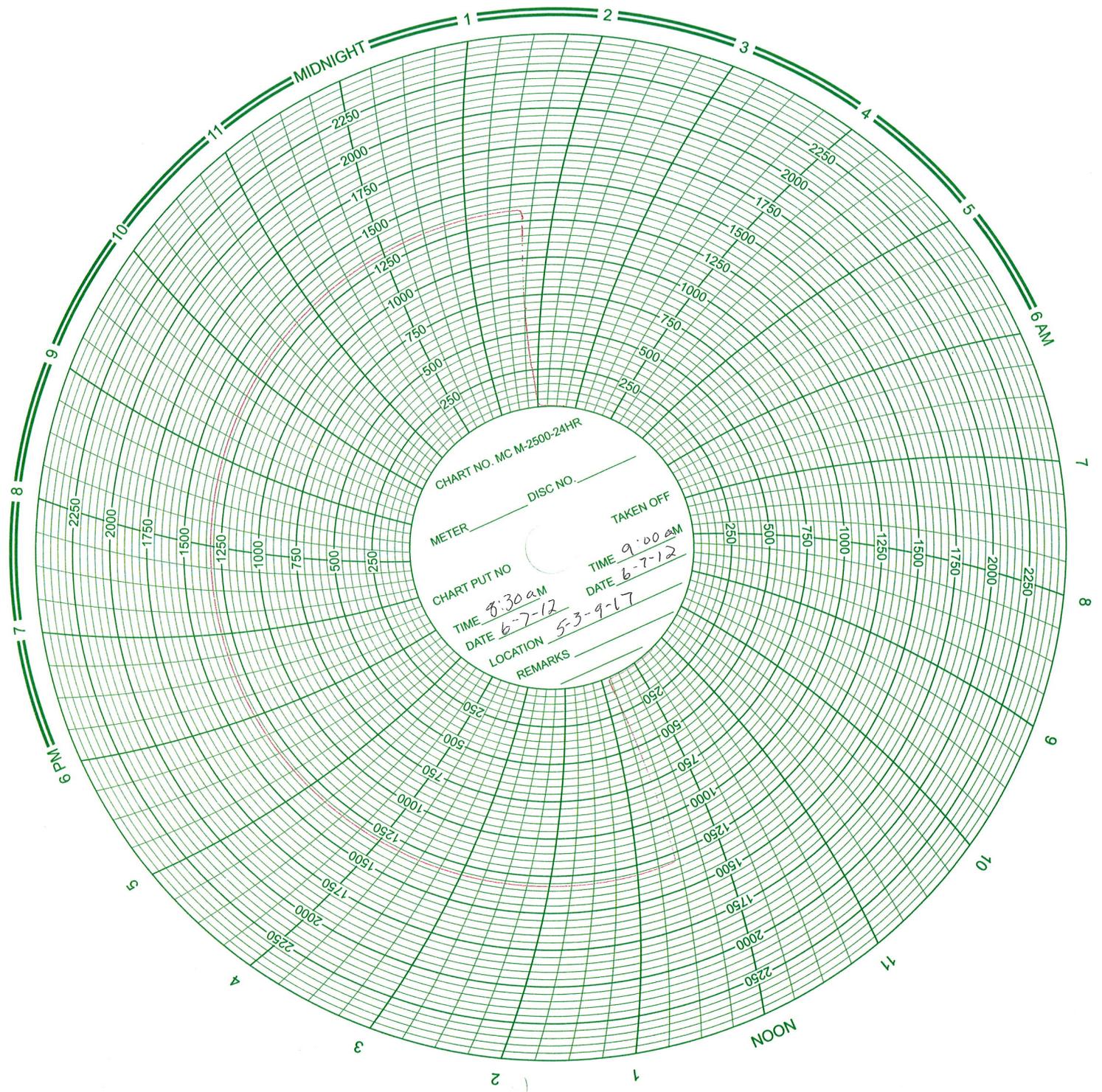
MIT DATA TABLE	Test #1	Test #2	Test #3
<b>TUBING PRESSURE</b>			
Initial Pressure	<u>0</u> psig	psig	psig
End of test pressure	<u>0</u> psig	psig	psig
<b>CASING/TUBING ANNULUS PRESSURE</b>			
0 minutes	<u>1320</u> psig	psig	psig
5 minutes	<u>1320</u> psig	psig	psig
10 minutes	<u>1320</u> psig	psig	psig
15 minutes	<u>1320</u> psig	psig	psig
20 minutes	<u>1320</u> psig	psig	psig
25 minutes	<u>1320</u> psig	psig	psig
30 minutes	<u>1320</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****GRTR BNDRY II 5-3-9-17****3/1/2012 To 7/30/2012****5/31/2012 Day: 1****Conversion**

NC #3 on 5/31/2012 - MIRUSU, TOH & LD Rods. - Road rig to location. MIRUSU. Pump 60 bbls water down csg @ 250. RD pumping unit. Unseat rod pump. Flush tbg & rods w/ 40 bbls water @ 250. Softseat & pressure test tbg to 3000 psi w/ 20 bbls water. Good test. TOH & LD 6', 8' 3/4 pony, 100- 3/4 guided. Flush tbg & rods w/ 20 bbls water @ 250. Cont. to LD 63- 3/4 slick, 64- 3/4 guided, 6- wt bars, pump. Release TA. ND wellhead. NU BOPs. RU rig floor. TOH w/ 40- jts 2 7/8. SDFD. - Road rig to location. MIRUSU. Pump 60 bbls water down csg @ 250. RD pumping unit. Unseat rod pump. Flush tbg & rods w/ 40 bbls water @ 250. Softseat & pressure test tbg to 3000 psi w/ 20 bbls water. Good test. TOH & LD 6', 8' 3/4 pony, 100- 3/4 guided. Flush tbg & rods w/ 20 bbls water @ 250. Cont. to LD 63- 3/4 slick, 64- 3/4 guided, 6- wt bars, pump. Release TA. ND wellhead. NU BOPs. RU rig floor. TOH w/ 40- jts 2 7/8. SDFD. - Road rig to location. MIRUSU. Pump 60 bbls water down csg @ 250. RD pumping unit. Unseat rod pump. Flush tbg & rods w/ 40 bbls water @ 250. Softseat & pressure test tbg to 3000 psi w/ 20 bbls water. Good test. TOH & LD 6', 8' 3/4 pony, 100- 3/4 guided. Flush tbg & rods w/ 20 bbls water @ 250. Cont. to LD 63- 3/4 slick, 64- 3/4 guided, 6- wt bars, pump. Release TA. ND wellhead. NU BOPs. RU rig floor. TOH w/ 40- jts 2 7/8. SDFD.

**Daily Cost:** \$0**Cumulative Cost:** \$79,204

---

**6/1/2012 Day: 2****Conversion**

NC #3 on 6/1/2012 - Cont. to TOH w/ tbg, TIH w/ tbg & packer - Flush tbg w/ 20 bbls water @ 250. Cont. to TOH w/ 89- jts 2 7/8 tbg breaking collars using teflon dope. LD 56-jts 2 7/8 tbg. TIH w/ 2 3/8 sn, packer, 129-jts 2 7/8 tbg. Pump 5 bbls water pad. Drop STD. Pressure test tbg to 3000 psi w/ 20 bbls water. Tbg had small bleed off. Repressure tbg to 3000 psi. Leave pressure on tbg. SDFD. - Flush tbg w/ 20 bbls water @ 250. Cont. to TOH w/ 89- jts 2 7/8 tbg breaking collars using teflon dope. LD 56-jts 2 7/8 tbg. TIH w/ 2 3/8 sn, packer, 129-jts 2 7/8 tbg. Pump 5 bbls water pad. Drop STD. Pressure test tbg to 3000 psi w/ 20 bbls water. Tbg had small bleed off. Repressure tbg to 3000 psi. Leave pressure on tbg. SDFD. - Flush tbg w/ 20 bbls water @ 250. Cont. to TOH w/ 89- jts 2 7/8 tbg breaking collars using teflon dope. LD 56-jts 2 7/8 tbg. TIH w/ 2 3/8 sn, packer, 129-jts 2 7/8 tbg. Pump 5 bbls water pad. Drop STD. Pressure test tbg to 3000 psi w/ 20 bbls water. Tbg had small bleed off. Repressure tbg to 3000 psi. Leave pressure on tbg. SDFD. **Finalized**

**Daily Cost:** \$0**Cumulative Cost:** \$92,994

---

**6/4/2012 Day: 3****Conversion**

NC #3 on 6/4/2012 - Pressure test tbg & csg. - Tbg pressure dropped to 2600 psi. Repressure tbg to 3000 psi for 1 hr. Good test. RU sandline to retrieve std valve. RD sandline. RD rig floor. ND BOP. NU wellhead. Pump 50 bbls fresh water w/ pkr fluid down csg. ND wellhead. Set Pkr w/ 15000 tension. NU wellhead. Fill tbg w/ 15 bbls fresh water w/ pkr fluid. Pressure test csg & Pkr to 1500 psi for 1 hr. Good test. RDMOSU. READY FOR MIT!! - Tbg pressure dropped to 2600 psi. Repressure tbg to 3000 psi for 1 hr. Good test. RU sandline to retrieve std valve. RD sandline. RD rig floor. ND BOP. NU wellhead. Pump 50 bbls fresh water w/ pkr fluid down csg. ND wellhead. Set Pkr w/ 15000 tension. NU wellhead. Fill tbg w/ 15 bbls fresh water w/ pkr fluid. Pressure test csg & Pkr to 1500 psi for 1 hr. Good test. RDMOSU. READY

FOR MIT!! - Tbg pressure dropped to 2600 psi. Repressure tbg to 3000 psi for 1 hr. Good test. RU sandline to retrieve std valve. RD sandline. RD rig floor. ND BOP. NU wellhead. Pump 50 bbls fresh water w/ pkr fluid down csg. ND wellhead. Set Pkr w/ 15000 tension. NU wellhead. Fill tbg w/ 15 bbls fresh water w/ pkr fluid. Pressure test csg & Pkr to 1500 psi for 1 hr. Good test. RDMOSU. READY FOR MIT!!

**Daily Cost:** \$0

**Cumulative Cost:** \$98,685

---

**6/7/2012 Day: 4**

**Conversion**

Rigless on 6/7/2012 - Conduct initial MIT - On 05/31/2012 Jason Deardorff with the EPA was contacted concerning the initial MIT on the above listed well. On 06/07/2012 the casing was pressured up to 1320 psig and charted for 30 minutes with no pressure loss. The well was not injecting during the test. The tubing pressure was 0 psig during the test. There was not an EPA representative available to witness the test. EPA# UT20702-07602 - On 05/31/2012 Jason Deardorff with the EPA was contacted concerning the initial MIT on the above listed well. On 06/07/2012 the casing was pressured up to 1320 psig and charted for 30 minutes with no pressure loss. The well was not injecting during the test. The tubing pressure was 0 psig during the test. There was not an EPA representative available to witness the test. EPA# UT20702-07602 - On 05/31/2012 Jason Deardorff with the EPA was contacted concerning the initial MIT on the above listed well. On 06/07/2012 the casing was pressured up to 1320 psig and charted for 30 minutes with no pressure loss. The well was not injecting during the test. The tubing pressure was 0 psig during the test. There was not an EPA representative available to witness the test. EPA# UT20702-07602 **Finalized**

**Daily Cost:** \$0

**Cumulative Cost:** \$123,455

---

**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>

MAY 09 2012

Ref: 8P-W-UIC

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

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

RECEIVED

MAY 14 2012

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 Castle Draw Area Permit  
EPA UIC Permit UT20776-09629  
Well: Greater Boundary Federal 5-3-9-17  
SWNW Sec. 3-T9S-R17E  
Duchesne County, Utah  
API No.: 43-013-32797

Dear Mr. Sundberg:

The U.S. Environmental Protection Agency Region 8 hereby authorizes Newfield Production Company (Newfield) to convert the oil well Greater Boundary Federal 5-3-9-17 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 Castle Draw Area Permit UT20776-00000 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 Greater Boundary Federal 5-3-9-17

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, Energy & Minerals Department  
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 UT20776-00000**

The Castle Rock UIC Area Permit UT20776-00000, effective November 29, 1995 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:	Greater Boundary Federal 5-3-9-17
EPA Permit ID Number:	UT20776-09629
Location:	1846' FNL & 775' FWL SWNW Sec. 3-T9S-R17E Duchesne County, Utah API #43-013-32797

Pursuant to 40 CFR §144.33, Area UIC Permit UT20776-00000 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. UT20776-00000, 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

**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: Greater Boundary Federal 5-3-9-17

EPA Well ID Number: UT20776-09629

### **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 **1,545 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 4,288 ft.

UIC Area Permit No. UT20776-00000 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: Greater Boundary Federal 5-3-9-17

EPA Well ID Number: UT20776-09629

**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 10 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 UT20776-00000 and Statement of Basis describe originally in place formation fluid within the injection zone to be greater than 10,000 mg/l Total Dissolved Solids (TDS) content. However, due to injection of relatively fresh water for the purpose of enhanced oil recovery within the permit area, produced water samples showing TDS values less than 10,000 mg/l have occurred and this occurrence has been observed to increase in frequency with time. Newfield has demonstrated and EPA has confirmed that freshening of the injection zone is occurring and that more recent water samples

*Authorization for Additional Well: UIC Area Permit UT20776-00000*

*Well: Greater Boundary Federal 5-3-9-17 EPA Well ID: UT20776-09629*

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 328 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 6,188 ft. in a 7-7/8" hole secured with 775 sacks of cement. Total driller depth is 6,195 ft. Plugged back total depth is 6,188 ft. EPA calculates top of cement at 1,049 ft. Estimated CBL top of cement is 80 ft.

**Perforations:** Top perforation: 4,288 ft. Bottom perforation: 6,068 ft.



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

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

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

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

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

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

# Greater Boundary Federal 5-3-9-17

Spud Date: 1-16-06  
 Put on Production: 2-14-06  
 GL: 5107' KB: 5119'

Initial Production: BOPD,  
 MCFD, BWPD

## Proposed Injection Wellbore Diagram

### SURFACE CASING

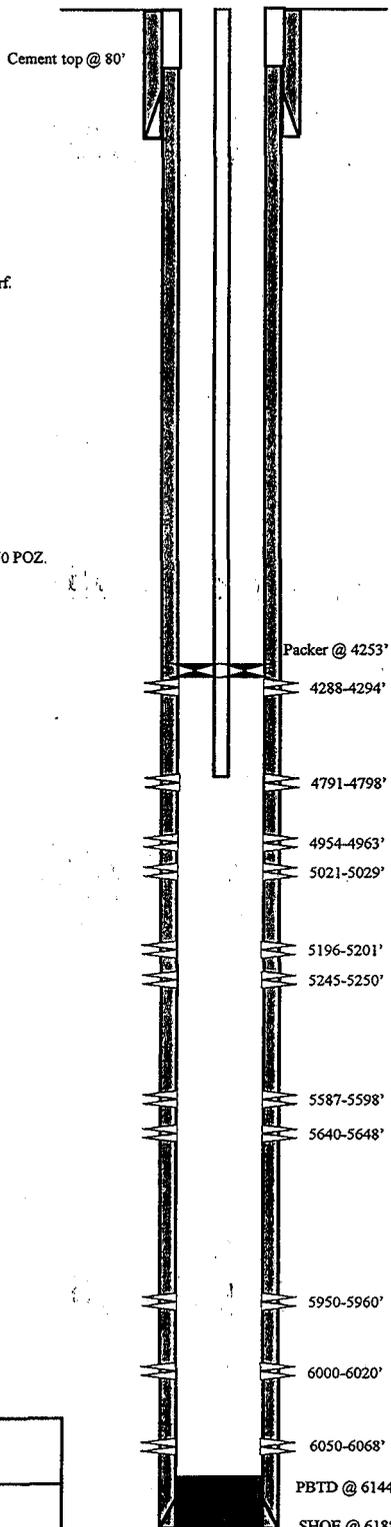
CSG SIZE: 8-5/8"  
 GRADE: J-55  
 WEIGHT: 24#  
 LENGTH: 7 jts (316.30')  
 DEPTH LANDED: 328.15' KB  
 HOLE SIZE: 12-1/4"  
 CEMENT DATA: 160 sxs Class "G" cmt, est 3 bbls cmt to surf.

### PRODUCTION CASING

CSG SIZE: 5-1/2"  
 GRADE: J-55  
 WEIGHT: 15.5#  
 LENGTH: 145 jts (6174.91')  
 DEPTH LANDED: 6188.16' KB  
 HOLE SIZE: 7-7/8"  
 CEMENT DATA: 325 sxs Prem. Lite II mixed & 450 sxs 50/50 POZ.  
 CEMENT TOP AT: 80'

### TUBING

SIZE/GRADE/WT.: 2-7/8" / J-55 / 6.5#  
 NO. OF JOINTS: 179 jts (5823.20')  
 TUBING ANCHOR: 5835.20' KB  
 NO. OF JOINTS: 2 jts (65.08')  
 SEATING NIPPLE: 2-7/8" (1.10')  
 SN LANDED AT: 5903' KB  
 NO. OF JOINTS: 1 jts (32.56')  
 TOTAL STRING LENGTH: EOT @ 6040.97' KB



### FRAC JOB

Date	Depth Range	Fracture Job Details
02-11-06	5950-6068'	<b>Frac BLS sands as follows:</b> 105211# 20/40 sand in 1381 bbls Lightning 17 frac fluid. Treated @ avg press of 2695 psi w/avg rate of 41.4 BPM. ISIP 2950 psi. Calc flush: 5948 gal. Actual flush: 5838 gal.
04-21-06	5587-5648'	<b>Frac CP1&amp;2 sands as follows:</b> 70,601# 20/40 sand in 735 bbls Lightning 17 frac fluid. Treated @ avg press of 2094 psi w/avg rate of 25.3 BPM. ISIP 1550 psi. Calc flush: 5585 gal. Actual flush: 5486 gal
04-21-06	5196-5250'	<b>Frac A1&amp;3 sands as follows:</b> 25,023# 20/40 sand in 340 bbls Lightning 17 frac fluid. Treated @ avg press of 2000 psi w/avg rate of 25.4 BPM. ISIP 1950 psi. Calc flush: 5194 gal. Actual flush: 5250 gal
04-21-06	5021-5029'	<b>Frac B1 sands as follows:</b> 25,068# 20/40 sand in 338 bbls Lightning 17 frac fluid. Treated @ avg press of 2001 psi w/avg rate of 25.2 BPM. ISIP 2000 psi. Calc flush: 5019 gal. Actual flush: 5040 gal
04-25-06	4954-4963'	<b>Frac B.5 sands as follows:</b> 35,443# 20/40 sand in 422 bbls Lightning 17 frac fluid. Treated @ avg press of 2053 psi w/avg rate of 24.8BPM. ISIP 2160 psi. Calc flush: 4952 gal. Actual flush: 4998 gal
04-25-06	4791-4798'	<b>Frac D2 sands as follows:</b> 69,231# 20/40 sand in 538 bbls Lightning 17 frac fluid. Treated @ avg press of 1883 psi w/avg rate of 24.7 BPM. ISIP 2080 psi. Calc flush: 4789 gal. Actual flush: 4788 gal
04-25-06	4288-4294'	<b>Frac CB6 sands as follows:</b> 13,816# 20/40 sand in 258 bbls Lightning 17 frac fluid. Treated @ avg press of 2133 psi w/avg rate of 24.7 BPM. ISIP 2185 psi. Calc flush: 4286 gal. Actual flush: 4200 gal

### PERFORATION RECORD

Date	Depth Range	Perforation Details
02-07-06	6050-6068'	4 JSPF 72 holes
02-07-06	6000-6020'	4 JSPF 80 holes
02-07-06	5950-5960'	4 JSPF 40 holes
04-21-06	5640-5648'	4 JSPF 32 holes
04-21-06	5587-5598'	4 JSPF 44 holes
04-21-06	5245-5250'	4 JSPF 20 holes
04-21-06	5196-5201'	4 JSPF 20 holes
04-21-06	5021-5029'	4 JSPF 32 holes
04-21-06	4954-4963'	4 JSPF 36 holes
04-25-06	4791-4798'	4 JSPF 28 holes
04-25-06	4288-4294'	4 JSPF 24 holes

**NEWFIELD**

**Greater Boundary Federal 5-3-9-17**

1846' FNL & 775' FWL  
 SW/NW Section 3-T9S-R17E  
 Duchesne Co, Utah  
 API #43-013-32797; Lease #UTU-61252

<b>STATE OF UTAH</b> DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		<b>FORM 9</b>
		<b>5. LEASE DESIGNATION AND SERIAL NUMBER:</b> UTU-61252
<b>SUNDRY NOTICES AND REPORTS ON WELLS</b>		<b>6. IF INDIAN, ALLOTTEE OR TRIBE NAME:</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>7. UNIT or CA AGREEMENT NAME:</b> GMBU (GRRV)
<b>1. TYPE OF WELL</b> Water Injection Well		<b>8. WELL NAME and NUMBER:</b> GB FED 5-3-9-17
<b>2. NAME OF OPERATOR:</b> NEWFIELD PRODUCTION COMPANY		<b>9. API NUMBER:</b> 43013327970000
<b>3. ADDRESS OF OPERATOR:</b> Rt 3 Box 3630 , Myton, UT, 84052	<b>PHONE NUMBER:</b> 435 646-4825 Ext	<b>9. FIELD and POOL or WILDCAT:</b> MONUMENT BUTTE
<b>4. LOCATION OF WELL</b> <b>FOOTAGES AT SURFACE:</b> 1846 FNL 0775 FWL <b>QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:</b> Qtr/Qtr: SWNW Section: 03 Township: 09.0S Range: 17.0E Meridian: S		<b>COUNTY:</b> DUCHESNE  <b>STATE:</b> UTAH

11.

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

TYPE OF SUBMISSION	TYPE OF ACTION		
<input type="checkbox"/> NOTICE OF INTENT Approximate date work will start:	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> CASING REPAIR
<input checked="" type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion: 7/13/2012	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> CHANGE WELL NAME
<input type="checkbox"/> SPUD REPORT Date of Spud:	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input checked="" type="checkbox"/> CONVERT WELL TYPE
<input type="checkbox"/> DRILLING REPORT Report Date:	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> NEW CONSTRUCTION
	<input type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> PLUG BACK
	<input type="checkbox"/> PRODUCTION START OR RESUME	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION
	<input type="checkbox"/> REPERFORATE CURRENT FORMATION	<input type="checkbox"/> SIDETRACK TO REPAIR WELL	<input type="checkbox"/> TEMPORARY ABANDON
	<input type="checkbox"/> TUBING REPAIR	<input type="checkbox"/> VENT OR FLARE	<input type="checkbox"/> WATER DISPOSAL
	<input type="checkbox"/> WATER SHUTOFF	<input type="checkbox"/> SI TA STATUS EXTENSION	<input type="checkbox"/> APD EXTENSION
	<input type="checkbox"/> WILDCAT WELL DETERMINATION	<input checked="" type="checkbox"/> OTHER	OTHER: <input type="text" value="Put on Injection"/>

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

The above reference well was put on injection at 12:20 PM on  
07/13/2012. EPA # UT20776-09629

**Accepted by the  
Utah Division of  
Oil, Gas and Mining  
FOR RECORD ONLY  
July 16, 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> 7/16/2012	



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
REGION 8

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

JUL 09 2012

Ref: 8P-W-UIC

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

RECEIVED

JUL 16 2012

DIV. OF OIL, GAS & MINING

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

Accepted by the  
Utah Division of  
Oil, Gas and Mining

FOR RECORD ONLY

RE: Underground Injection Control (UIC)  
Authorization to Commence Injection  
EPA UIC Permit UT20776-09629  
Well: Greater Boundary Federal 5-3-9-17  
SWNW Sec. 3-T9S-R17E  
Duchesne County, Utah  
API No.: 43-013-32797

Dear Mr. Durfey:

The U.S. Environmental Protection Agency Region 8 has received Newfield Production Company's (Newfield) June 11, 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 UT20776-09629.

As of the date of this letter, Newfield is authorized to commence injection into the Greater Boundary Federal 5-3-9-17 well at a Maximum Allowable Injection Pressure (MAIP) of 1,545 psig. You may apply for a higher MAIP at a later date. Your application should be accompanied by the interpreted results of a step rate test that measures the fracture parting pressure and calculates the fracture gradient at this depth and location. Newfield must receive prior authorization from the Director to inject at pressures greater than the permitted MAIP during any test.

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

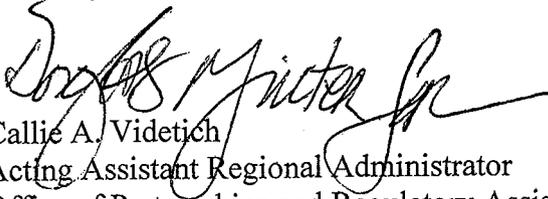
Ms. Sarah Roberts  
U.S. EPA Region 8: 8ENF-UFO  
1595 Wynkoop Street  
Denver, Colorado 80202-1129

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

Please remember that it is your responsibility to be aware of and to comply with all conditions of injection well Permit UT20776-09629.

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

Sincerely,

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

cc: Uintah & Ouray Business Committee:

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

Daniel Picard  
BIA - Uintah & Ouray Indian Agency

Mike Natchees  
Environmental Coordinator  
Ute Indian Tribe

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

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

Fluid Minerals Engineering Office  
BLM - Vernal Office

Eric Sundberg, Regulatory Analyst  
Newfield Production Company



*Printed on Recycled Paper*

<b>STATE OF UTAH</b> DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		<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-61252
		<b>6. IF INDIAN, ALLOTTEE OR TRIBE NAME:</b>
<b>1. TYPE OF WELL</b> Water Injection Well		<b>7. UNIT or CA AGREEMENT NAME:</b> GMBU (GRRV)
<b>2. NAME OF OPERATOR:</b> NEWFIELD PRODUCTION COMPANY		<b>8. WELL NAME and NUMBER:</b> GB FED 5-3-9-17
<b>3. ADDRESS OF OPERATOR:</b> Rt 3 Box 3630 , Myton, UT, 84052		<b>9. API NUMBER:</b> 43013327970000
<b>PHONE NUMBER:</b> 435 646-4825 Ext		<b>9. FIELD and POOL or WILDCAT:</b> MONUMENT BUTTE
<b>4. LOCATION OF WELL</b> <b>FOOTAGES AT SURFACE:</b> 1846 FNL 0775 FWL <b>QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:</b> Qtr/Qtr: SWNW Section: 03 Township: 09.0S Range: 17.0E Meridian: S		<b>COUNTY:</b> DUCHESNE
		<b>STATE:</b> UTAH

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

TYPE OF SUBMISSION	TYPE OF ACTION		
<input type="checkbox"/> NOTICE OF INTENT Approximate date work will start:	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> CASING REPAIR
<input checked="" type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion: 11/23/2013	<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 type="text" value="W/O 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 11/23/2013 the csg was pressured up to 1447 psig and charted for 30 minutes with no pressure loss. The well was not injecting during the test. The tbq pressure was 0 psig during the test. There was not an EPA representative available to witness the test. EPA #UT22197-09629

**Accepted by the  
Utah Division of  
Oil, Gas and Mining  
FOR RECORD ONLY  
November 26, 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> 11/26/2013	

## 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: 11 / 23 / 13  
 Test conducted by: Rocky CURRY  
 Others present: KODY OLSON

Well Name: <u>GREATER BOUNDARY 5-3-9-17</u>	Type: ER SWD	Status: AC TA UC
Field: <u>GREATER MONUMENT BUTTE</u>		
Location: <u>SW/NW</u> Sec: <u>3</u> T: <u>9</u> N/S: <u>R</u> E/W: <u>17</u> County: <u>DUCHESNE</u> State: <u>UT</u>		
Operator: <u>NEWFIELD EXPLORATION</u>		
Last MIT: _____	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: 0/0 psig

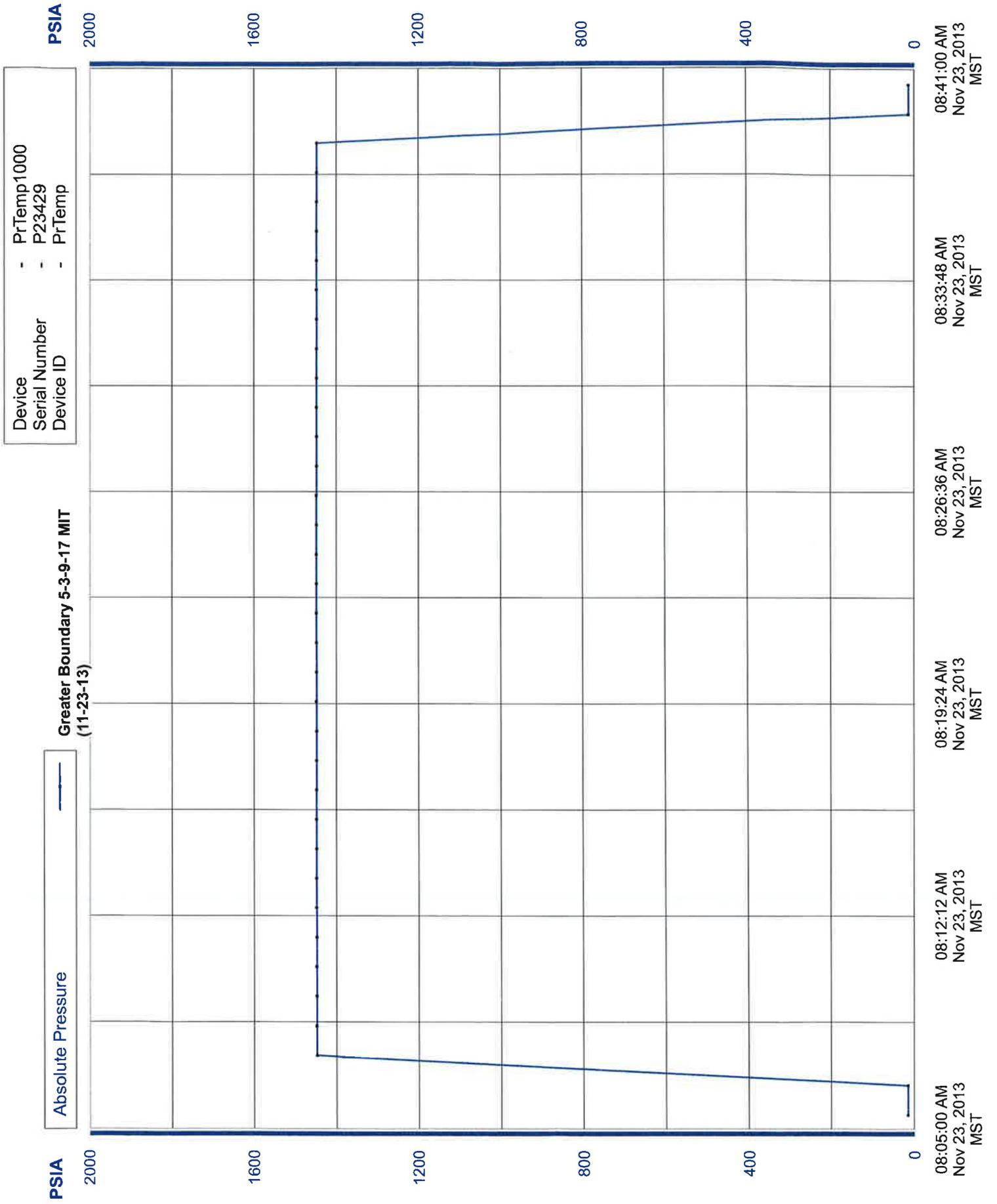
MIT DATA TABLE	Test #1	Test #2	Test #3
<b>TUBING PRESSURE</b>			
Initial Pressure	○ psig	psig	psig
End of test pressure	○ psig	psig	psig
<b>CASING / TUBING ANNULUS PRESSURE</b>			
0 minutes	<u>1448</u> psig	psig	psig
5 minutes	<u>1448</u> psig	psig	psig
10 minutes	<u>1448</u> psig	psig	psig
15 minutes	<u>1448</u> psig	psig	psig
20 minutes	<u>1448</u> psig	psig	psig
25 minutes	<u>1448</u> psig	psig	psig
30 minutes	<u>1447</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

**GRTR BNDRY II 5-3-9-17**

**9/1/2013 To 1/30/2014**

**11/20/2013 Day: 1**

**Tubing Leak**

NC #1 on 11/20/2013 - MIRUSU, Bleed Off Well - Moved from V-10-9-17: MIRUSU @ 4:00PM, SICP 2000psi SITP 1000psi, OWU, Bleed down well from Csg, 10BW in 15min, 0psi when SI, XO for Tbg, SWIFN.. 5:30PM to 6:00PM c/travl - Moved from V-10-9-17: MIRUSU @ 4:00PM, SICP 2000psi SITP 1000psi, OWU, Bleed down well from Csg, 10BW in 15min, 0psi when SI, XO for Tbg, SWIFN.. 5:30PM to 6:00PM c/travl - Moved from V-10-9-17: MIRUSU @ 4:00PM, SICP 2000psi SITP 1000psi, OWU, Bleed down well from Csg, 10BW in 15min, 0psi when SI, XO for Tbg, SWIFN.. 5:30PM to 6:00PM c/travl - Moved from V-10-9-17: MIRUSU @ 4:00PM, SICP 2000psi SITP 1000psi, OWU, Bleed down well from Csg, 10BW in 15min, 0psi when SI, XO for Tbg, SWIFN.. 5:30PM to 6:00PM c/travl

**Daily Cost:** \$0

**Cumulative Cost:** \$3,288

---

**11/21/2013 Day: 2**

**Tubing Leak**

NC #1 on 11/21/2013 - NU BOP, PT Tbg, GOOD TEST, POOH & XO AS1-X PKR, TIH w/ Tbg, PU 1- Jt, SWIFN - 5:30AM to 6:00AM c/travl: SICP 1400psi SITP 500psi, Bleed down pressure, ND 3K injection tree, NU Weatherford BOP, RU workfloor, Released PKR, Preferred H/Oiler flushed Tbg w/ 60BW w/ biocied, MU & RIH w/ SL to seat SV, Hole remaining full, PT Tbg to 3500psi, Observed pressure for 60min, No Pressure Loss, Retrieved SV, POOH w/ PKR (CE RUBBERS WERE COMPLETELY GONE) Weatherford Tool Hand on location observed, MU & RIH w/ NEW AS1-X PKR w/ on off tool, TIH w/ 129- jts applying liquid O-ring to pins, PU 1- Jt NEW, SWIFN...5:30PM to 6:00PM c/travl - 5:30AM to 6:00AM c/travl: SICP 1400psi SITP 500psi, Bleed down pressure, ND 3K injection tree, NU Weatherford BOP, RU workfloor, Released PKR, Preferred H/Oiler flushed Tbg w/ 60BW w/ biocied, MU & RIH w/ SL to seat SV, Hole remaining full, PT Tbg to 3500psi, Observed pressure for 60min, No Pressure Loss, Retrieved SV, POOH w/ PKR (CE RUBBERS WERE COMPLETELY GONE) Weatherford Tool Hand on location observed, MU & RIH w/ NEW AS1-X PKR w/ on off tool, TIH w/ 129- jts applying liquid O-ring to pins, PU 1- Jt NEW, SWIFN...5:30PM to 6:00PM c/travl - 5:30AM to 6:00AM c/travl: SICP 1400psi SITP 500psi, Bleed down pressure, ND 3K injection tree, NU Weatherford BOP, RU workfloor, Released PKR, Preferred H/Oiler flushed Tbg w/ 60BW w/ biocied, MU & RIH w/ SL to seat SV, Hole remaining full, PT Tbg to 3500psi, Observed pressure for 60min, No Pressure Loss, Retrieved SV, POOH w/ PKR (CE RUBBERS WERE COMPLETELY GONE) Weatherford Tool Hand on location observed, MU & RIH w/ NEW AS1-X PKR w/ on off tool, TIH w/ 129- jts applying liquid O-ring to pins, PU 1- Jt NEW, SWIFN...5:30PM to 6:00PM c/travl **Finalized**

**Daily Cost:** \$0

**Cumulative Cost:** \$19,859

---

**11/25/2013 Day: 4**

**Tubing Leak**

Rigless on 11/25/2013 - Conduct MIT - Workover MIT performed on the above listed well. On11/23/2013 the csg was pressured up to 1447 psig and charted for 30 minutes with no pressure loss. The well was not injecting during the test. The tbg pressure was 0 psig during the test. There was not an EPA representative available to witness the test. EPA #UT22197-09629 - Workover MIT performed on the above listed well. On11/23/2013 the csg was pressured up to 1447 psig and charted for 30 minutes with no pressure loss. The well was not injecting during the test. The tbg pressure was 0 psig during the test. There was not an EPA representative available to witness the test. EPA #UT22197-09629 - Workover MIT performed on the above listed well. On11/23/2013 the csg was pressured up to 1447 psig and charted for 30 minutes with no pressure loss. The well was not injecting during the test. The tbg pressure was 0 psig during the test. There was not an EPA representative available to witness the test. EPA #UT22197-09629 - Workover MIT performed on the above listed well. On11/23/2013 the csg was pressured up to 1447 psig and charted for 30 minutes with no pressure loss. The well was not injecting during the test. The tbg pressure was 0 psig during the test. There was not an EPA representative available to witness the test. EPA #UT22197-09629 - 5:30AM to 6:00AM c/travl: SICP 400psi SITP 400psi, Bleed off, OWU, Preferred H/Oiler flushed Tbg w/ 60BW, Drop SV, RU & RIH w/ SL to seat SV, Hole remaining full, PT tbg to 3000psi, Observe pressure, NO PRESSURE LOSS in 60min, GOOD TEST!!, Retrieved SV, RD work floor, ND BOP, MU 3K injection tree, H/Oiler pmped 60BW d/Csg w/ PKR fluids, Set PKR CE @ 4237.5' w/ 1500# of tension, NU Injection tree, Hole remaining full, PT Csg to 1550psi @ 2:30PM, Observe pressure, 85psi loss in 60min 1.41 pounds per min, Bumped Pressure to 1550psi @ 3:30PM, NO PRESSURE LOSS in 60 Min, GOOD TEST!!, RDSU 5:30PM to 6:00PM c/travl....FINAL RIG REPORT.....READY FOR MIT - 5:30AM to 6:00AM c/travl: SICP 400psi SITP 400psi, Bleed off, OWU, Preferred H/Oiler flushed Tbg w/ 60BW, Drop SV, RU & RIH w/ SL to seat SV, Hole remaining full, PT tbg to 3000psi, Observe pressure, NO PRESSURE LOSS in 60min, GOOD TEST!!, Retrieved SV, RD work floor, ND BOP, MU 3K injection tree, H/Oiler pmped 60BW d/Csg w/ PKR fluids, Set PKR CE @ 4237.5' w/ 1500# of tension, NU Injection tree, Hole remaining full, PT Csg to 1550psi @ 2:30PM, Observe pressure, 85psi loss in 60min 1.41 pounds per min, Bumped Pressure to 1550psi @ 3:30PM, NO PRESSURE LOSS in 60 Min, GOOD TEST!!, RDSU 5:30PM to 6:00PM c/travl....FINAL RIG REPORT.....READY FOR MIT - Workover MIT performed on the above listed well. On11/23/2013 the csg was pressured up to 1447 psig and charted for 30 minutes with no pressure loss. The well was not injecting during the test. The tbg pressure was 0 psig during the test. There was not an EPA representative available to witness the test. EPA #UT22197-09629 - Workover MIT performed on the above listed well. On11/23/2013 the csg was pressured up to 1447 psig and charted for 30 minutes with no pressure loss. The well was not injecting during the test. The tbg pressure was 0 psig during the test. There was not an EPA representative available to witness the test. EPA #UT22197-09629 - 5:30AM to 6:00AM c/travl: SICP 400psi SITP 400psi, Bleed off, OWU, Preferred H/Oiler flushed Tbg w/ 60BW, Drop SV, RU & RIH w/ SL to seat SV, Hole remaining full, PT tbg to 3000psi, Observe pressure, NO PRESSURE LOSS in 60min, GOOD TEST!!, Retrieved SV, RD work floor, ND BOP, MU 3K injection tree, H/Oiler pmped 60BW d/Csg w/ PKR fluids, Set PKR CE @ 4237.5' w/ 1500# of tension, NU Injection tree, Hole remaining full, PT Csg to 1550psi @ 2:30PM, Observe pressure, 85psi loss in 60min 1.41 pounds per min, Bumped Pressure to 1550psi @ 3:30PM, NO PRESSURE LOSS in 60 Min, GOOD TEST!!, RDSU 5:30PM to 6:00PM c/travl....FINAL RIG REPORT.....READY FOR MIT - 5:30AM to 6:00AM c/travl: SICP 400psi SITP 400psi, Bleed off, OWU, Preferred H/Oiler flushed Tbg w/ 60BW, Drop SV, RU & RIH w/ SL to seat SV, Hole remaining full, PT tbg to 3000psi, Observe pressure, NO PRESSURE LOSS in 60min, GOOD TEST!!, Retrieved SV, RD work floor, ND BOP, MU 3K injection tree, H/Oiler pmped 60BW d/Csg w/ PKR fluids, Set PKR CE @ 4237.5' w/ 1500# of tension, NU Injection tree, Hole remaining full, PT Csg to 1550psi @ 2:30PM, Observe pressure, 85psi loss in 60min 1.41 pounds per min, Bumped Pressure to 1550psi @ 3:30PM, NO PRESSURE LOSS in 60 Min, GOOD TEST!!, RDSU 5:30PM to 6:00PM c/travl....FINAL RIG REPORT.....READY FOR MIT - 5:30AM to 6:00AM c/travl: SICP 400psi SITP 400psi, Bleed off, OWU, Preferred H/Oiler flushed Tbg w/ 60BW, Drop SV, RU & RIH w/ SL to seat SV, Hole remaining full, PT tbg to 3000psi, Observe pressure, NO PRESSURE LOSS in 60min, GOOD TEST!!, Retrieved SV, RD work floor, ND BOP, MU 3K injection tree, H/Oiler

pmped 60BW d/Csg w/ PKR fluids, Set PKR CE @ 4237.5' w/ 1500# of tension, NU Injection tree, Hole remaining full, PT Csg to 1550psi @ 2:30PM, Observe pressure, 85psi loss in 60min 1.41 pounds per min, Bumped Pressure to 1550psi @ 3:30PM, NO PRESSURE LOSS in 60 Min, GOOD TEST!!, RDSU 5:30PM to 6:00PM c/travl....FINAL RIG REPORT.....READY FOR MIT - 5:30AM to 6:00AM c/travl: SICP 400psi SITP 400psi, Bleed off, OWU, Preferred H/Oiler flushed Tbg w/ 60BW, Drop SV, RU & RIH w/ SL to seat SV, Hole remaining full, PT tbg to 3000psi, Observe pressure, NO PRESSURE LOSS in 60min, GOOD TEST!!, Retrieved SV, RD work floor, ND BOP, MU 3K injection tree, H/Oiler pmped 60BW d/Csg w/ PKR fluids, Set PKR CE @ 4237.5' w/ 1500# of tension, NU Injection tree, Hole remaining full, PT Csg to 1550psi @ 2:30PM, Observe pressure, 85psi loss in 60min 1.41 pounds per min, Bumped Pressure to 1550psi @ 3:30PM, NO PRESSURE LOSS in 60 Min, GOOD TEST!!, RDSU 5:30PM to 6:00PM c/travl....FINAL RIG REPORT.....READY FOR MIT - 5:30AM to 6:00AM c/travl: SICP 400psi SITP 400psi, Bleed off, OWU, Preferred H/Oiler flushed Tbg w/ 60BW, Drop SV, RU & RIH w/ SL to seat SV, Hole remaining full, PT tbg to 3000psi, Observe pressure, NO PRESSURE LOSS in 60min, GOOD TEST!!, Retrieved SV, RD work floor, ND BOP, MU 3K injection tree, H/Oiler pmped 60BW d/Csg w/ PKR fluids, Set PKR CE @ 4237.5' w/ 1500# of tension, NU Injection tree, Hole remaining full, PT Csg to 1550psi @ 2:30PM, Observe pressure, 85psi loss in 60min 1.41 pounds per min, Bumped Pressure to 1550psi @ 3:30PM, NO PRESSURE LOSS in 60 Min, GOOD TEST!!, RDSU 5:30PM to 6:00PM c/travl....FINAL RIG REPORT.....READY FOR MIT - 5:30AM to 6:00AM c/travl: SICP 400psi SITP 400psi, Bleed off, OWU, Preferred H/Oiler flushed Tbg w/ 60BW, Drop SV, RU & RIH w/ SL to seat SV, Hole remaining full, PT tbg to 3000psi, Observe pressure, NO PRESSURE LOSS in 60min, GOOD TEST!!, Retrieved SV, RD work floor, ND BOP, MU 3K injection tree, H/Oiler pmped 60BW d/Csg w/ PKR fluids, Set PKR CE @ 4237.5' w/ 1500# of tension, NU Injection tree, Hole remaining full, PT Csg to 1550psi @ 2:30PM, Observe pressure, 85psi loss in 60min 1.41 pounds per min, Bumped Pressure to 1550psi @ 3:30PM, NO PRESSURE LOSS in 60 Min, GOOD TEST!!, RDSU 5:30PM to 6:00PM c/travl....FINAL RIG REPORT.....READY FOR MIT - Workover MIT performed on the above listed well. On11/23/2013 the csg was pressured up to 1447 psig and charted for 30 minutes with no pressure loss. The well was not injecting during the test. The tbg pressure was 0 psig during the test. There was not an EPA representative available to witness the test. EPA #UT22197-09629 - Workover MIT performed on the above listed well. On11/23/2013 the csg was pressured up to 1447 psig and charted for 30 minutes with no pressure loss. The well was not injecting during the test. The tbg pressure was 0 psig during the test. There was not an EPA representative available to witness the test. EPA #UT22197-09629 **Finalized**

**Daily Cost:** \$0

**Cumulative Cost:** \$30,043

---

**Pertinent Files: Go to File List**

Spud Date: 1-16-06  
 Put on Production: 2-14-06  
 GL: 5107' KB: 5119'

## Greater Boundary Federal 5-3-9-17

### Injection Wellbore Diagram

**SURFACE CASING**

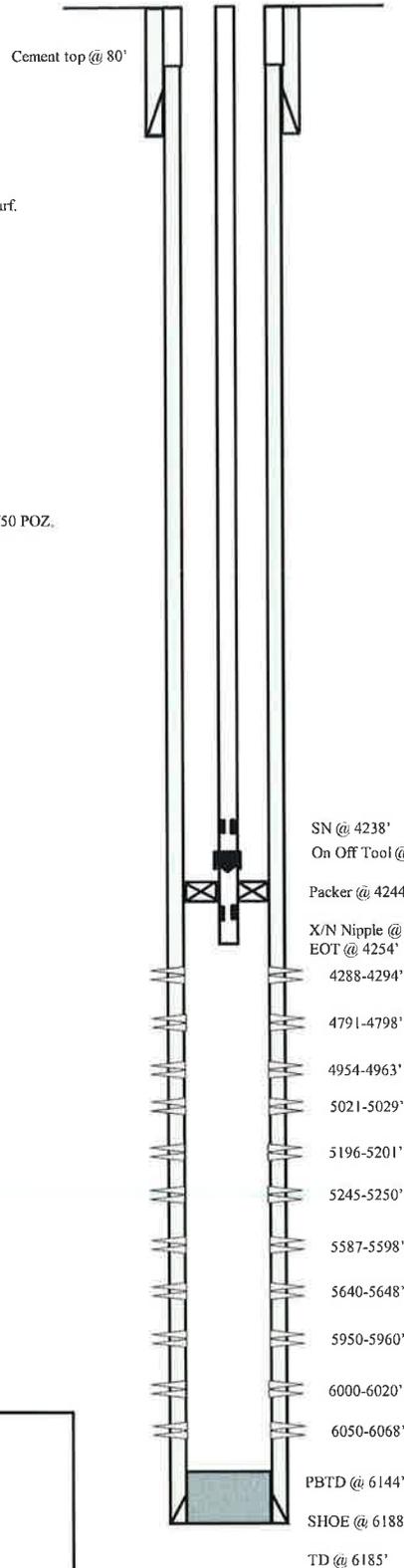
CSG SIZE: 8-5/8"  
 GRADE: J-55  
 WEIGHT: 24#  
 LENGTH: 7 jts (316.30')  
 DEPTH LANDED: 328.15' KB  
 HOLE SIZE: 12-1/4"  
 CEMENT DATA: 160 sxs Class "G" cmt, est 3 bbls cmt to surf.

**PRODUCTION CASING**

CSG SIZE: 5-1/2"  
 GRADE: J-55  
 WEIGHT: 15.5#  
 LENGTH: 145 jts (6174.91')  
 DEPTH LANDED: 6188.16' KB  
 HOLE SIZE: 7-7/8"  
 CEMENT DATA: 325 sxs Prem. Lite II mixed & 450 sxs 50/50 POZ.  
 CEMENT TOP AT: 80'

**TUBING**

SIZE/GRADE/WT.: 2-7/8" / J-55 / 6.5#  
 NO. OF JOINTS: 130 jts (4226.4')  
 SEATING NIPPLE: 2-7/8" (1.10')  
 SN LANDED AT: 4238.4' KB  
 ON/OFF TOOL AT: 4239.5'  
 XSEAL NIPPLE AT: 4240.9'  
 ARROW #1 PACKER CE AT: 4244.5'  
 XO 2-3/8 x 2-7/8 J-55 AT: 4248.2'  
 TBG PUP 2-3/8 J-55 AT: 4248.7'  
 X/N NIPPLE AT: 4252.8'  
 TOTAL STRING LENGTH: EOT @ 4254.37'



**FRAC JOB**

02-11-06	5950-6068'	<b>Frac BLS sands as follows:</b> 105211# 20/40 sand in 1381 bbls Lightning 17 frac fluid. Treated @ avg press of 2695 psi w/avg rate of 41.4 BPM. ISIP 2950 psi. Calc flush: 5948 gal. Actual flush: 5838 gal.
04-21-06	5587-5648'	<b>Frac CPl&amp;2 sands as follows:</b> 70,601# 20/40 sand in 735 bbls Lightning 17 frac fluid. Treated @ avg press of 2094 psi w/avg rate of 25.3 BPM. ISIP 1550 psi. Calc flush: 5585 gal. Actual flush: 5486 gal
04-21-06	5196-5250'	<b>Frac A1&amp;3 sands as follows:</b> 25,023# 20/40 sand in 340 bbls Lightning 17 frac fluid. Treated @ avg press of 2000 psi w/avg rate of 25.4 BPM. ISIP 1950 psi. Calc flush: 5194 gal. Actual flush: 5250 gal
04-21-06	5021-5029'	<b>Frac B1 sands as follows:</b> 25,068# 20/40 sand in 338 bbls Lightning 17 frac fluid. Treated @ avg press of 2001 psi w/avg rate of 25.2 BPM. ISIP 2000 psi. Calc flush: 5019 gal. Actual flush: 5040 gal
04-25-06	4954-4963'	<b>Frac B.5 sands as follows:</b> 35,443# 20/40 sand in 422 bbls Lightning 17 frac fluid. Treated @ avg press of 2053 psi w/avg rate of 24.8BPM. ISIP 2160 psi. Calc flush: 4952 gal. Actual flush: 4998 gal
04-25-06	4791-4798'	<b>Frac D2 sands as follows:</b> 69,231# 20/40 sand in 538 bbls Lightning 17 frac fluid. Treated @ avg press of 1883 psi w/avg rate of 24.7 BPM. ISIP 2080 psi. Calc flush: 4789 gal. Actual flush: 4788 gal
04-25-06	4288-4294'	<b>Frac GB6 sands as follows:</b> 13,816# 20/40 sand in 258 bbls Lightning 17 frac fluid. Treated @ avg press of 2133 psi w/avg rate of 24.7 BPM. ISIP 2185 psi. Calc flush: 4286 gal. Actual flush: 4200 gal
2/4/08		<b>Tubing Leak.</b> Updated rod & tubing details.
6/17/08		<b>Pump change.</b> Updated rod and tubing details.
3/3/09	SN @ 4238'	<b>Tubing Leak.</b> Updated r & t details.
3/6/2012	On Off Tool @ 4239.5'	<b>Parted Rods.</b> Updated rod & tubing detail
06/04/12	Packer @ 4244'	<b>Convert to Injection Well</b>
06/07/12	X/N Nipple @ 4283'	<b>Conversion MIT Finalized</b> – update tbg detail
11/23/13	EOT @ 4254'	<b>Workover MIT Finalized</b> - tbg leak – update tbg detail

**PERFORATION RECORD**

Date	Depth Range	Tool	Holes
02-07-06	6050-6068'	4 JSPF	72 holes
02-07-06	6000-6020'	4 JSPF	80 holes
02-07-06	5950-5960'	4 JSPF	40 holes
04-21-06	5640-5648'	4 JSPF	32 holes
04-21-06	5587-5598'	4 JSPF	44 holes
04-21-06	5245-5250'	4 JSPF	20 holes
04-21-06	5196-5201'	4 JSPF	20 holes
04-21-06	5021-5029'	4 JSPF	32 holes
04-21-06	4954-4963'	4 JSPF	36 holes
04-25-06	4791-4798'	4 JSPF	28 holes
04-25-06	4288-4294'	4 JSPF	24 holes



**Greater Boundary Federal 5-3-9-17**  
 1846' FNL & 775' FWL  
 SW/NW Section 3-T9S-R17E  
 Duchesne Co, Utah  
 API #43-013-32797; Lease #UTU-61252

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
REGION 8

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

DEC 04 2013



RECEIVED

DEC 09 2013

DIV. OF OIL, GAS & MINING

Ref: 8ENF-UFO

CERTIFIED MAIL 7008-3230-0003-0724-6874  
RETURN RECEIPT REQUESTED

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

95 17E 3

Re: Underground Injection Control (UIC)  
Permission to Resume Injection  
Greater Boundary Federal 5-3-9-17 Well  
EPA ID# UT22197-09629  
API # 43-013-32797  
Greater Boundary Oil Field  
Duchesne County, UT

Accepted by the  
Utah Division of  
Oil, Gas and Mining

FOR RECORD ONLY

Dear Mr. Horrocks:

On December 2, 2013, the Environmental Protection Agency (EPA) received information from Newfield Exploration Company on the above referenced well concerning the workover to address a tubing leak and the followup mechanical integrity test (MIT) conducted on November 23, 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 November 23, 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

Reannin Tapoof, Executive Assistant  
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

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

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

Ronald Wopsock, Vice-Chairman  
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

Bruce Ignacio, 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

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

