

**RECEIVED**  
**JUL 25 2007**  
**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

|  |   |
|--|---|
| 5. Lease Serial No.<br><b>UTU-76954</b>  |   |
| 6. If Indian, Allottee or Tribe Name<br>N/A  |   |
| 7. If Unit or CA Agreement, Name and No.<br><b>Greater Boundary II</b>   |   |
| 8. Lease Name and Well No.<br><b>Greater Boundary II Federal 15-19-8-17</b>  |   |
| 9. API Well No.<br><b>43013-33732</b>  |   |
| 1a. Type of Work: <input checked="" type="checkbox"/> DRILL <input type="checkbox"/> REENTER   | 10. Field and Pool, or Exploratory<br><b>Monument Butte</b>   |
| 1b. Type of Well: <input checked="" type="checkbox"/> Oil Well <input type="checkbox"/> Gas Well <input type="checkbox"/> Other <input checked="" type="checkbox"/> Single Zone <input type="checkbox"/> Multiple Zone | 11. Sec., T., R., M., or Blk. and Survey or Area<br><b>SW/SE Sec. 19, T8S R17E</b>  |
| 2. Name of Operator<br><b>Newfield Production Company</b>  | 12. County or Parish<br><b>Duchesne</b>   |
| 3a. Address<br><b>Route #3 Box 3630, Myton UT 84052</b>  | 13. State<br><b>UT</b>  |
| 3b. Phone No. (include area code)<br><b>(435) 646-3721</b>   | 14. Distance in miles and direction from nearest town or post office*<br><b>Approximatley 12.5 miles southeast of Myton, Utah</b>                                       |
| 4. Location of Well (Report location clearly and in accordance with any State requirements. *)<br>At surface SW/SE 543' FSL 1952' FEL <b>581315X 40.09 7670</b><br>At proposed prod. zone <b>44388234 -110.046052</b>  | 15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any) Approx. 543' f/lse, 543' f/unit<br><b>1561.03</b> |
| 16. No. of Acres in lease<br><b>1561.03</b>  | 17. Spacing Unit dedicated to this well<br><b>40 Acres</b>  |
| 18. Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft. Approx. 884'<br><b>6650'</b>  | 20. BLM/BIA Bond No. on file<br><b>UTB000192</b>  |
| 21. Elevations (Show whether DF, KDB, RT, GL, etc.)<br><b>5353' GL</b>   | 22. Approximate date work will start*<br><b>3rd Quarter 2007</b>  |
| 23. Estimated duration<br>Approximately seven (7) days from spud to rig release.   |   |

**24. Attachments**

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

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

|                                       |  |                         |
|---------------------------------------|--|-------------------------|
| 25. Signature<br>                     | Name (Printed/Typed)<br><b>Mandie Crozier</b>  | Date<br><b>7/13/07</b>  |
| Title<br><b>Regulatory Specialist</b> |  |                         |
| Approved by (Signature)<br>           | Name (Printed/Typed)<br><b>BRADLEY G. HILL</b> | Date<br><b>07-30-07</b> |
| Title<br><b>ENVIRONMENTAL MANAGER</b> |  |                         |

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.

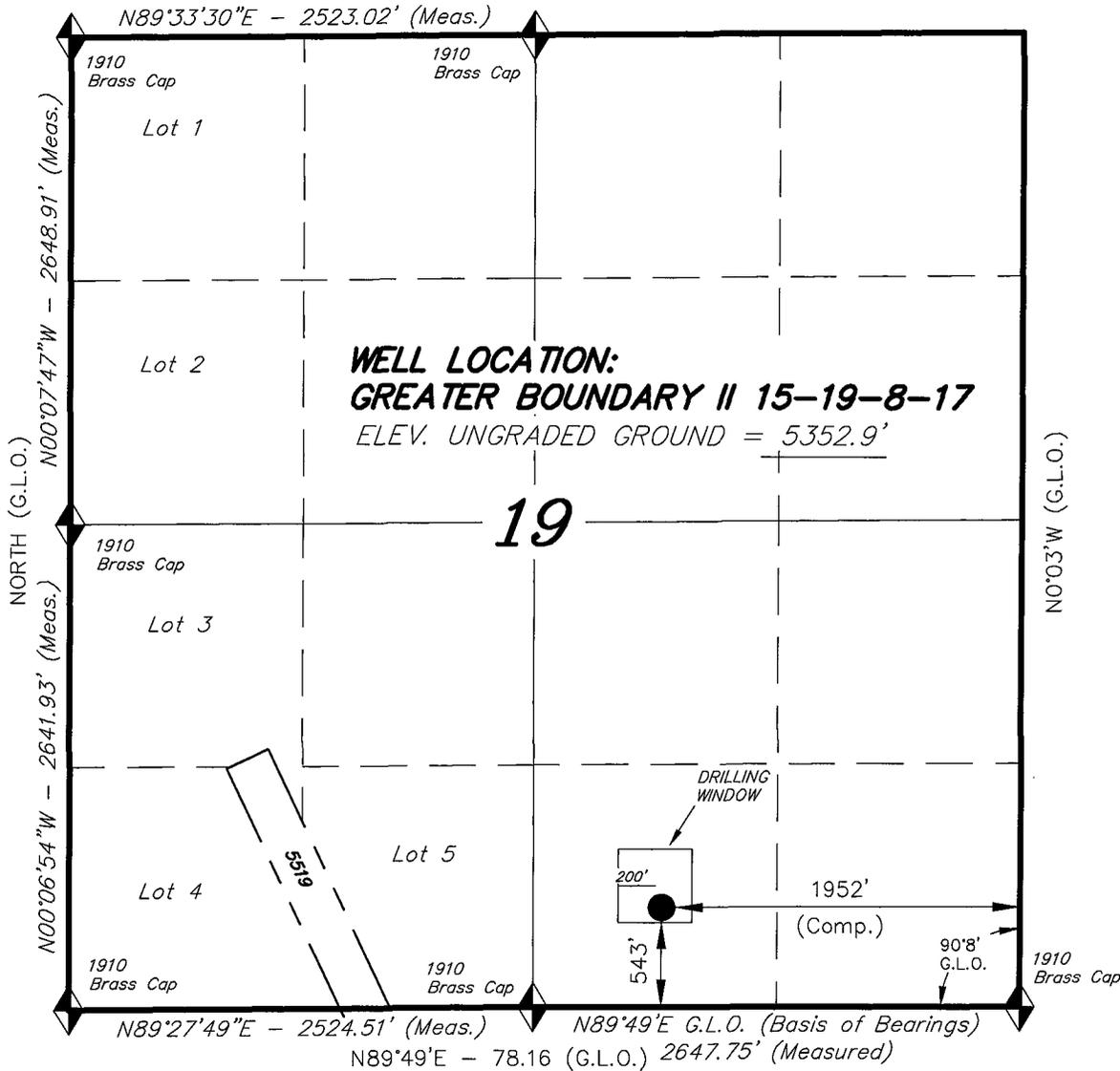
Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

\*(Instructions on reverse)

**Federal Approval of this  
 Action is Necessary**

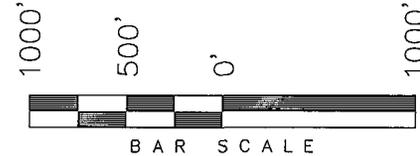
# T8S, R17E, S.L.B.&M.

N89°48'E - 78.12 (G.L.O.)



## NEWFIELD PRODUCTION COMPANY

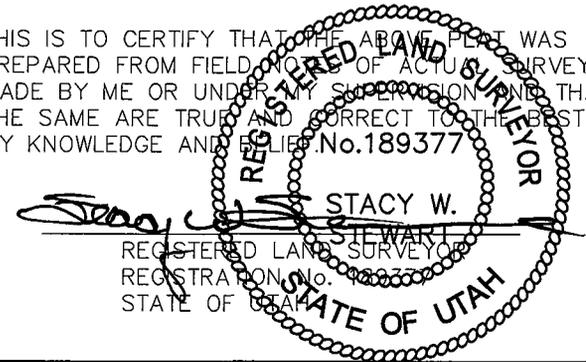
WELL LOCATION, GREATER BOUNDARY II 15-19-8-17, LOCATED AS SHOWN IN THE SW 1/4 SE 1/4 OF SECTION 19, T8S, R17E, S.L.B.&M. DUCHESNE COUNTY, UTAH.



**Note:**

The Proposed Well head bears N51°53'24"E 883.65' from the South 1/4 Corner of Section 19.

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 (MYTON SE)

**GREATER BOUNDARY II 15-19-8-17  
(Surface Location) NAD 83  
LATITUDE = 40° 05' 51.64"  
LONGITUDE = 110° 02' 48.64"**

### TRI STATE LAND SURVEYING & CONSULTING

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

|                            |                   |
|----------------------------|-------------------|
| DATE SURVEYED:<br>11-01-06 | SURVEYED BY: D.G. |
| DATE DRAWN:<br>11-09-06    | DRAWN BY: F.T.M.  |
| REVISED:                   | SCALE: 1" = 1000' |

NEWFIELD PRODUCTION COMPANY  
GREATER BOUNDARY II FEDERAL #15-19-8-17  
SW/SE SECTION 19, T8S, R17E  
DUCHESNE COUNTY, UTAH

ONSHORE ORDER NO. 1

**DRILLING PROGRAM**

1. **GEOLOGIC SURFACE FORMATION:**

Uinta formation of Upper Eocene Age

2. **ESTIMATED TOPS OF IMPORTANT GEOLOGIC MARKERS:**

|             |            |
|-------------|------------|
| Uinta       | 0' – 1755' |
| Green River | 1755'      |
| Wasatch     | 6650'      |

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

Green River Formation 1755' – 6650' - 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 II FEDERAL #15-19-8-17  
SW/SE SECTION 19, T8S, 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 II Federal #15-19-8-17 located in the SW 1/4 SE 1/4 Section 19, T8S, 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 - 8.6 miles  $\pm$  to it's junction with an existing dirt road to the east; proceed easterly - 0.9 miles  $\pm$  to it's junction with an existing road to the south; proceed southerly - 0.9 miles  $\pm$  to it's junction with an existing road to the east; proceed easterly - 0.2 miles  $\pm$  to it's junction with the beginning of the proposed access road to the south; proceed southerly along the proposed access road - 2030'  $\pm$  ; turn and continue along the proposed access road in a westerly direction - 370'  $\pm$  to the proposed well location.

**2. PLANNED ACCESS ROAD**

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

**3. LOCATION OF EXISTING WELLS**

Refer to Exhibit "B".

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

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

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

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

Johnson Water District  
Water Right: 43-10136

Neil Moon Pond  
Water Right: 43-11787

Maurice Harvey Pond  
Water Right: 47-1358

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

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

6. **SOURCE OF CONSTRUCTION MATERIALS**

Please refer to the Monument Butte Field SOP.

7. **METHODS FOR HANDLING WASTE DISPOSAL**

Please refer to the Monument Butte Field SOP.

8. **ANCILLARY FACILITIES**

Please refer to the Monument Butte Field SOP.

9. **WELL SITE LAYOUT**

See attached Location Layout Diagram.

10. **PLANS FOR RESTORATION OF SURFACE**

Please refer to the Monument Butte Field SOP.

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

12. **OTHER ADDITIONAL INFORMATION**

The Archaeological Resource Survey and Paleontological Resource Survey for this area are attached. MOAC Report #02-95, 8/16/02. Paleontological Resource Survey will be forthcoming. See attached report cover pages, Exhibit "D".

Newfield Production Company requests 2400' of disturbed area be granted in Lease UTU-76954 to allow for construction of the planned access road. **Refer to Topographic Map "B"**. For the planned access road a temporary width of 60' will be needed for construction purposes with a permanent width of 30' and a running surface of 18'. The construction phase of the planned access road will last approximately (5) days. The planned access road will be an 18' crown road (9' either side of the centerline) with drainage ditches along either side of the proposed road whether it is deemed necessary in order to handle any run-off from normal meteorological conditions that are prevalent to this area. The maximum grade will be less than 8%. There will be no culverts required along this access road. There will be barrow ditches and turnouts as needed along this road. There are no fences encountered along this proposed road. There will be no new gates or cattle guards required. All construction material for this access road will be borrowed material accumulated during construction of the access road.

Newfield Production Company requests a 540' ROW in Lease UTU-71368 and 960' of disturbed area be granted in Lease UTU-76954 to allow for construction of the proposed surface gas lines. It is proposed that the ROW and disturbed area will temporarily be 50' wide to allow for construction of a 6" gas gathering line, and a 3" poly fuel gas line, with a permanent width of 30' upon completion of the proposed gas lines. The construction phase of the proposed gas lines will last approximately (5) days. Both lines will tie in to the existing pipeline infrastructure. **Refer to Topographic Map "C."** For a ROW plan of development, please refer to the Monument Butte Field SOP.

Newfield Production Company requests a 540' ROW in Lease UTU-71368 and 960' of disturbed area be granted in Lease UTU-76954 to allow for construction of the proposed water lines. It is proposed that the ROW and disturbed area will temporarily be 50' wide to allow for construction of a buried 3" steel water injection line and a buried 3" poly water return line, with a permanent width of 30' upon completion of the proposed water return line. The construction phase of the

proposed water lines will last approximately (5) days. Refer to Topographic Map "C." For a ROW plan of development, please refer to the Monument Butte Field SOP.

**Water Disposal**

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

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

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

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

**Burrowing Owl:** Due to the proximity of the location to active prairie dog towns, there is the potential to encounter nesting burrowing owls between April 1 and August 15. If new construction or surface disturbing activities are scheduled between April 1 and August 15, pre-construction surveys will be conducted to detect the presence of nesting burrowing owls within 0.5 mile of any new construction or surface disturbing activity (see Vernal BLM Field Office Protocol). No new construction or surface disturbing activities will be allowed between April 1 and August 15 within a 0.5 mile radius of any active burrowing owl nest.

**Reserve Pit Liner**

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

**Location and Reserve Pit Reclamation**

Please refer to the Monument Butte Field SOP.

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

High Crest 12 lbs/acre

**Details of the On-Site Inspection**

The proposed Greater Boundary II Federal #15-19-8-17 was on-sited on 11/22/06. The following were present; Dave Allred (Newfield Production), Chuck MacDonald (Bureau of Land Management), and Brandon McDonald (Bureau of Land Management). Weather conditions were clear and ground cover was 100% open.

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

Representative

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

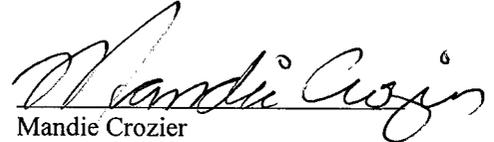
Certification

Please be advised that NEWFIELD PRODUCTION COMPANY is considered to be the operator of well #15-19-8-17 SW/SE Section 19, Township 8S, Range 17E: Lease UTU-76954 Duchesne County, Utah: and is responsible under the terms and conditions of the lease for the operations conducted upon the leased lands. Bond coverage is provided by US Specialty Insurance #B001832.

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

7/13/07

Date



Mandie Crozier

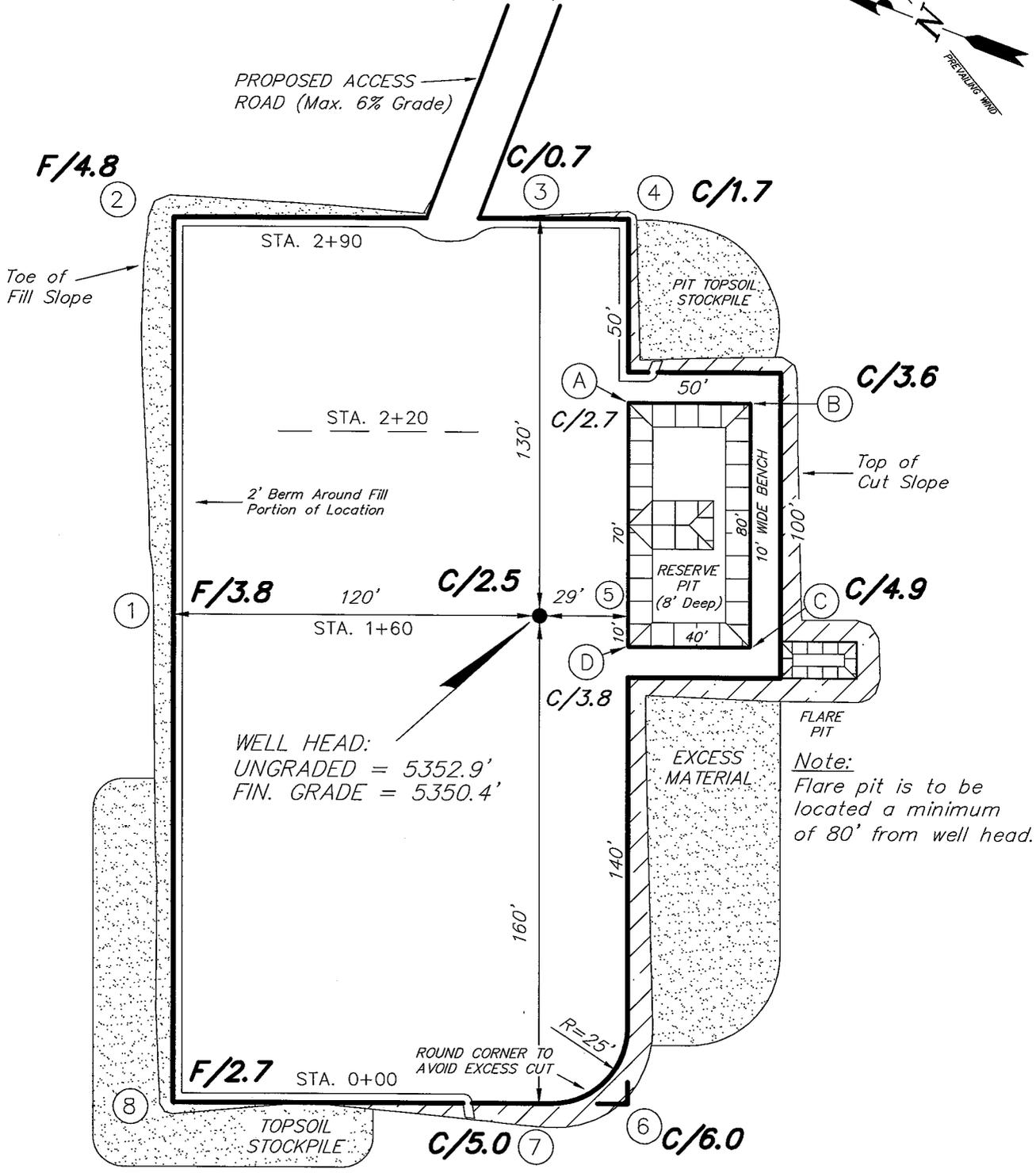
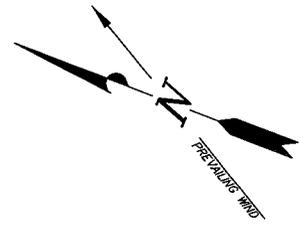
Regulatory Specialist

Newfield Production Company

# NEWFIELD PRODUCTION COMPANY

GREATER BOUNDARY II 15-19-8-17

Section 19, T8S, R17E, S.L.B.&M.



WELL HEAD:  
UNGRADED = 5352.9'  
FIN. GRADE = 5350.4'

Note:  
Flare pit is to be  
located a minimum  
of 80' from well head.

**REFERENCE POINTS**

|                    |           |
|--------------------|-----------|
| 260' SOUTHWESTERLY | = 5356.7' |
| 170' NORTHWESTERLY | = 5342.6' |
| 220' NORTHWESTERLY | = 5342.6' |

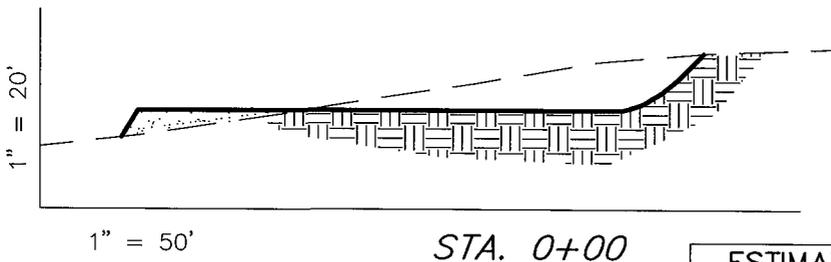
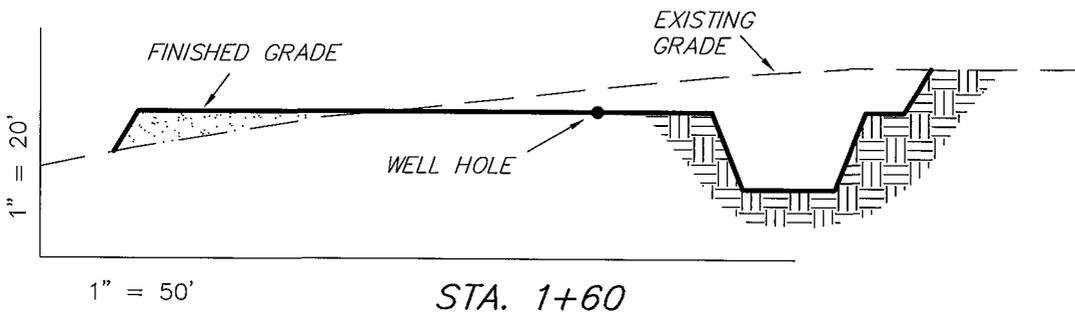
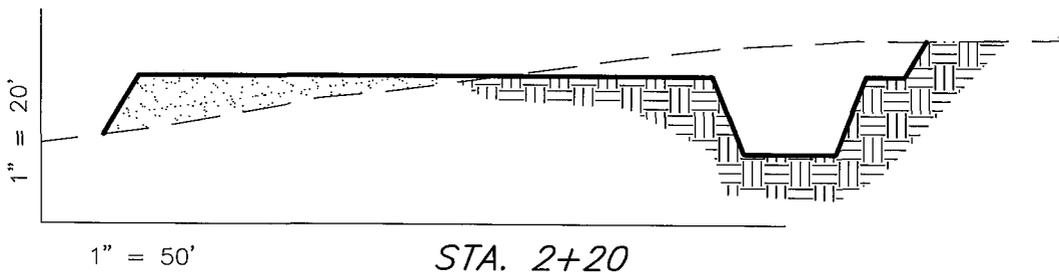
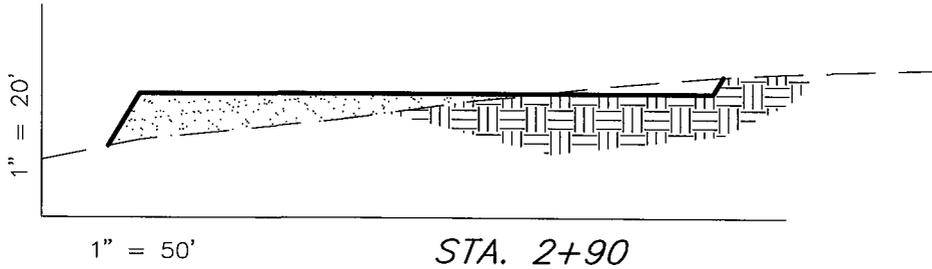
|                   |                 |
|-------------------|-----------------|
| SURVEYED BY: D.G. | SCALE: 1" = 50' |
| DRAWN BY: F.T.M.  | DATE: 11-09-06  |

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

# NEWFIELD PRODUCTION COMPANY

## CROSS SECTIONS

### GREATER BOUNDARY II 15-19-8-17



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

| ESTIMATED EARTHWORK QUANTITIES<br>(No Shrink or swell adjustments have been used)<br>(Expressed in Cubic Yards) |       |       |  |        |
|---|-------|-------|--|--------|
| ITEM  | CUT   | FILL  | 6" TOPSOIL                               | EXCESS |
| PAD   | 2,290 | 2,290 | Topsoil is<br>not included<br>in Pad Cut | 0      |
| PIT   | 640   | 0     |  | 640    |
| TOTALS  | 2,930 | 2,290 | 1,010                                    | 640    |

SURVEYED BY: D.G.

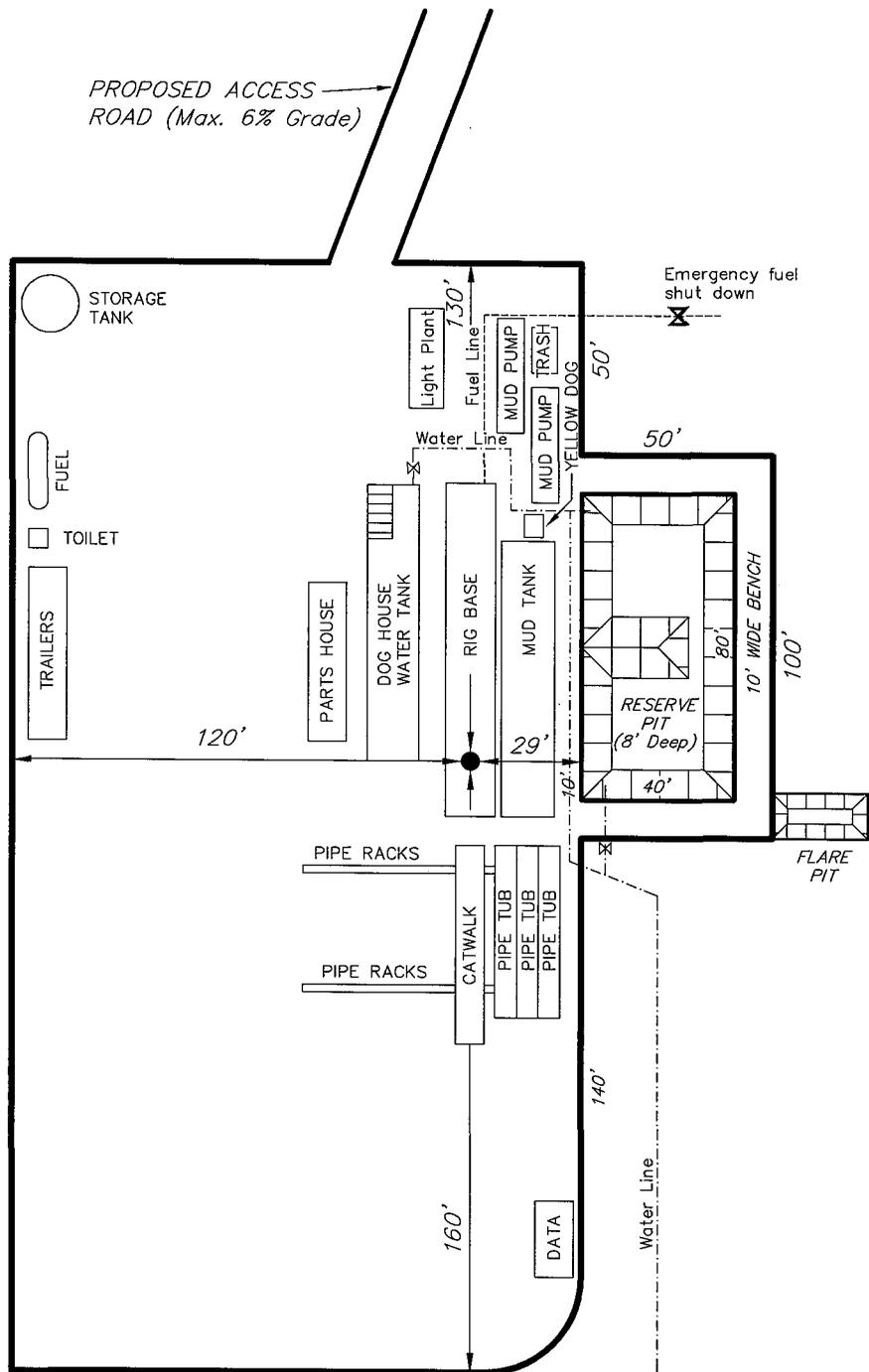
SCALE: 1" = 50'

DRAWN BY: F.T.M.

DATE: 11-09-06

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

**NEWFIELD PRODUCTION COMPANY**  
**TYPICAL RIG LAYOUT**  
**GREATER BOUNDARY II 15-19-8-17**



|                   |                 |  |
|-------------------|-----------------|--|
| SURVEYED BY: D.G. | SCALE: 1" = 50' | <b>Tri State</b><br>Land Surveying, Inc.<br>180 NORTH VERNAL AVE. VERNAL, UTAH 84078<br>(435) 781-2501 |
| DRAWN BY: F.T.M.  | DATE: 11-09-06  |  |

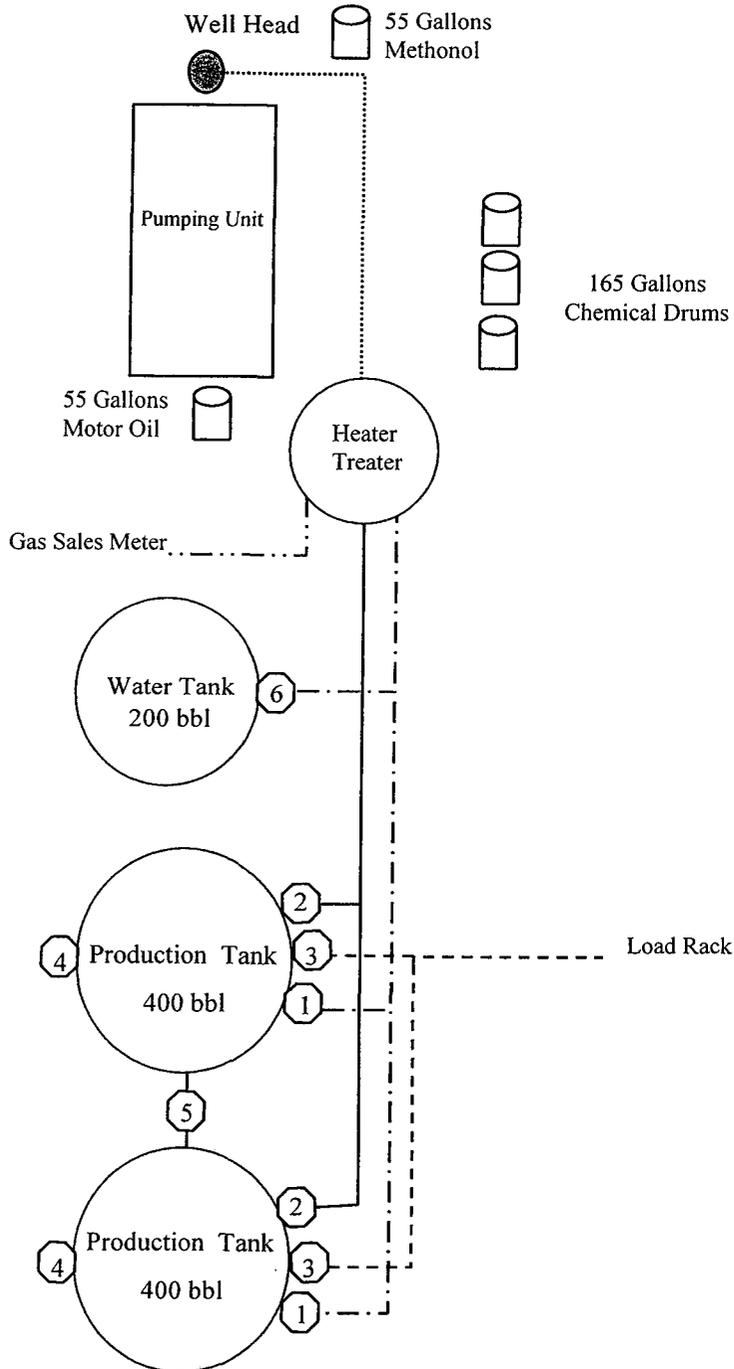
# Newfield Production Company Proposed Site Facility Diagram

Greater Boundary II Federal 15-19-8-17

SW/SE Sec. 19, T8S, R17E

Duchesne County, Utah

UTU-76954



### Legend

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

**Production Phase:**

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

**Sales Phase:**

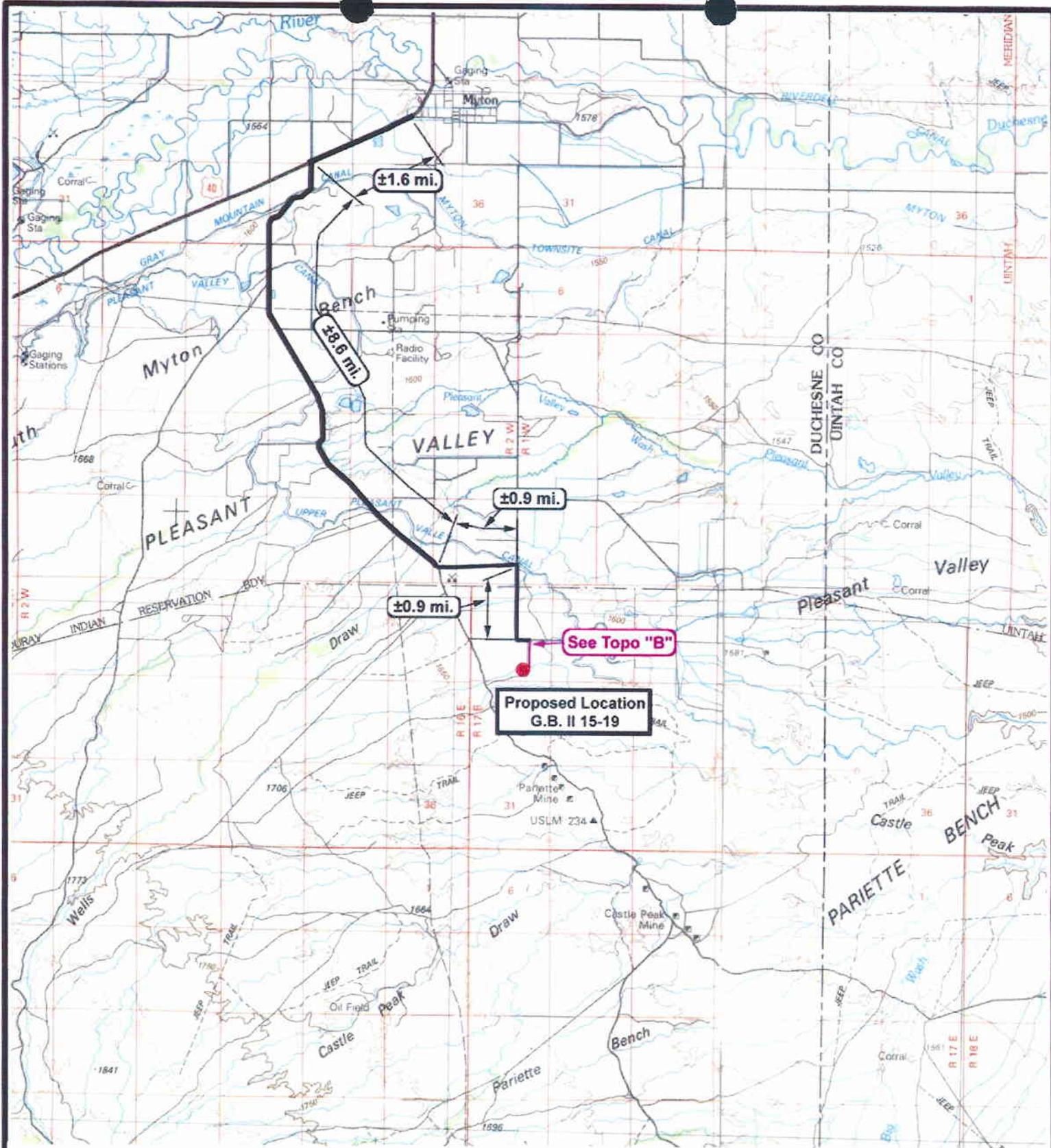
- 1) Valves 1, 2, 4, 5, and 6 sealed closed
- 2) Valve 3 open

**Draining Phase:**

- 1) Valves 1 and 6 open

Diked Section





**NEWFIELD**  
Exploration Company

**Greater Boundary II 15-19-8-17  
SEC. 19, T8S, R17E, S.L.B.&M.**



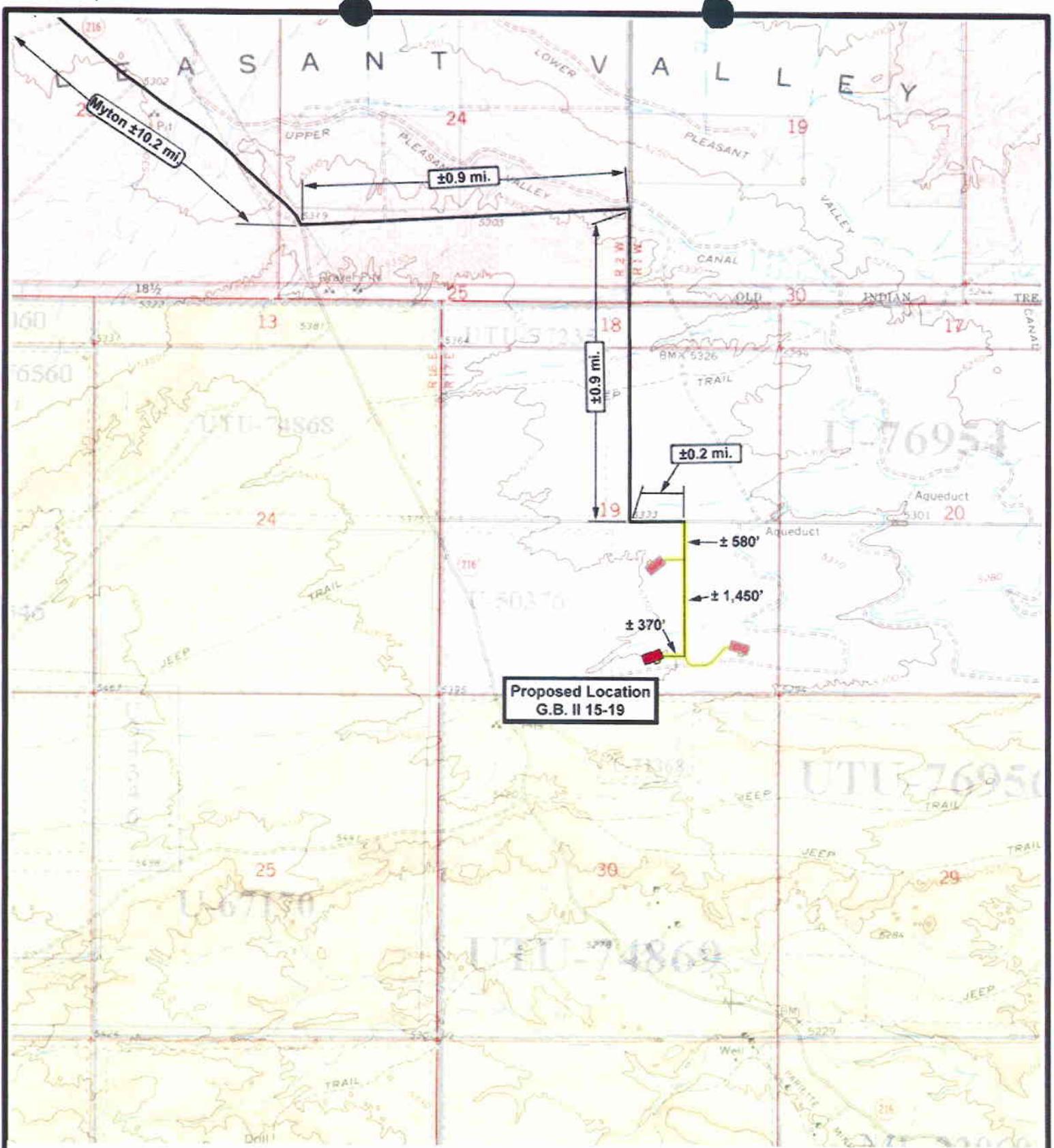
**Tri-State**  
Land Surveying Inc.  
(435) 781-2501  
180 North Vernal Ave. Vernal, Utah 84078

SCALE: 1 = 100,000  
DRAWN BY: mw  
DATE: 11-15-2006

**Legend**

- Existing Road
- Proposed Access

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



**NEWFIELD**  
Exploration Company

**Greater Boundary II 15-19-8-17**  
**SEC. 19, T8S, R17E, S.L.B.&M.**



*Tri-State*  
Land Surveying Inc.  
(435) 781-2501  
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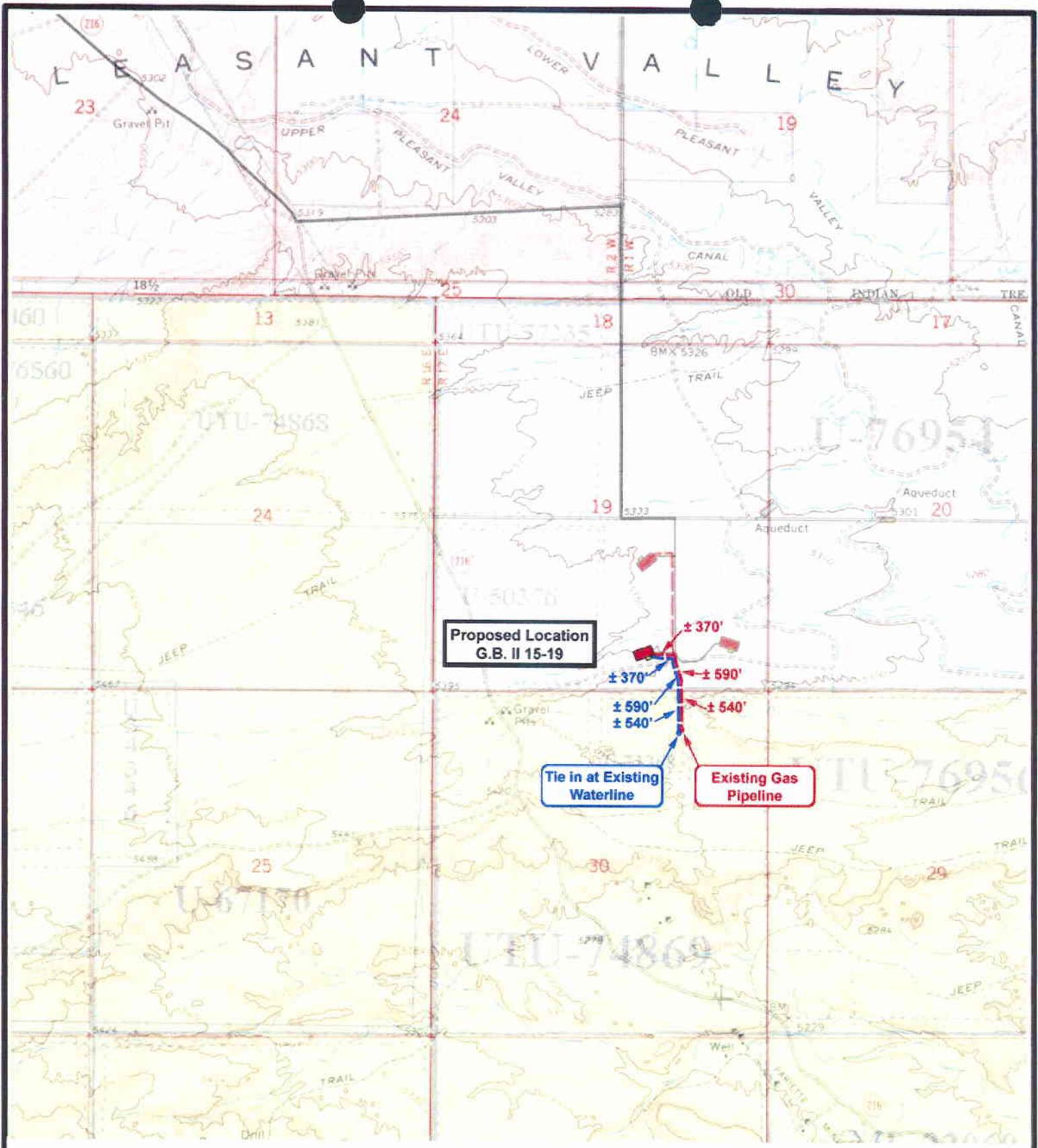
**SCALE: 1" = 2,000'**  
**DRAWN BY: mw**  
**DATE: 11-15-2006**

**Legend**

- Existing Road
- Proposed Access

**TOPOGRAPHIC MAP**

**"B"**



**NEWFIELD**  
Exploration Company



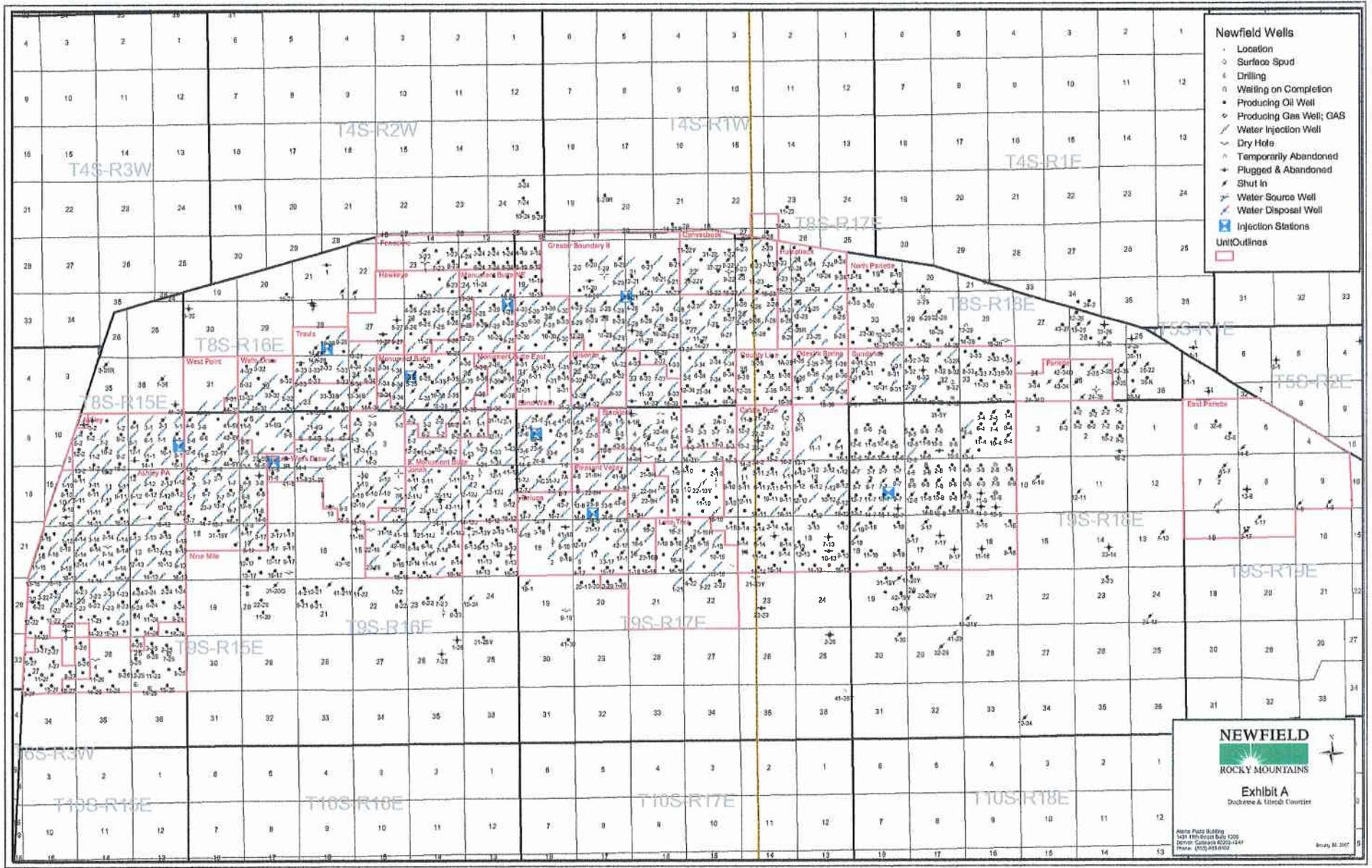
**Tri-State**  
*Land Surveying Inc.*  
(435) 781-2501  
180 North Vernal Ave. Vernal, Utah 84078

| Legend |                     |
|--------|---------------------|
|        | Roads               |
|        | Proposed Gas Line   |
|        | Proposed Water Line |

**Greater Boundary II 15-19-8-17**  
**SEC. 19, T8S, R17E, S.L.B.&M.**

SCALE: 1" = 2,000'  
DRAWN BY: mw  
DATE: 11-24-2006

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



- Newfield Wells**
- Location
  - ◊ Surface Spud
  - ◊ Drilling
  - ◊ Waiting on Completion
  - ◊ Producing Oil Well
  - ◊ Producing Gas Well, GAS
  - ◊ Water Injection Well
  - ◊ Dry Hole
  - ◊ Temporarily Abandoned
  - ◊ Plugged & Abandoned
  - ◊ Shut In
  - ◊ Water Source Well
  - ◊ Water Disposal Well
  - ◊ Injection Stations
- Unit Outlines**
- ◊

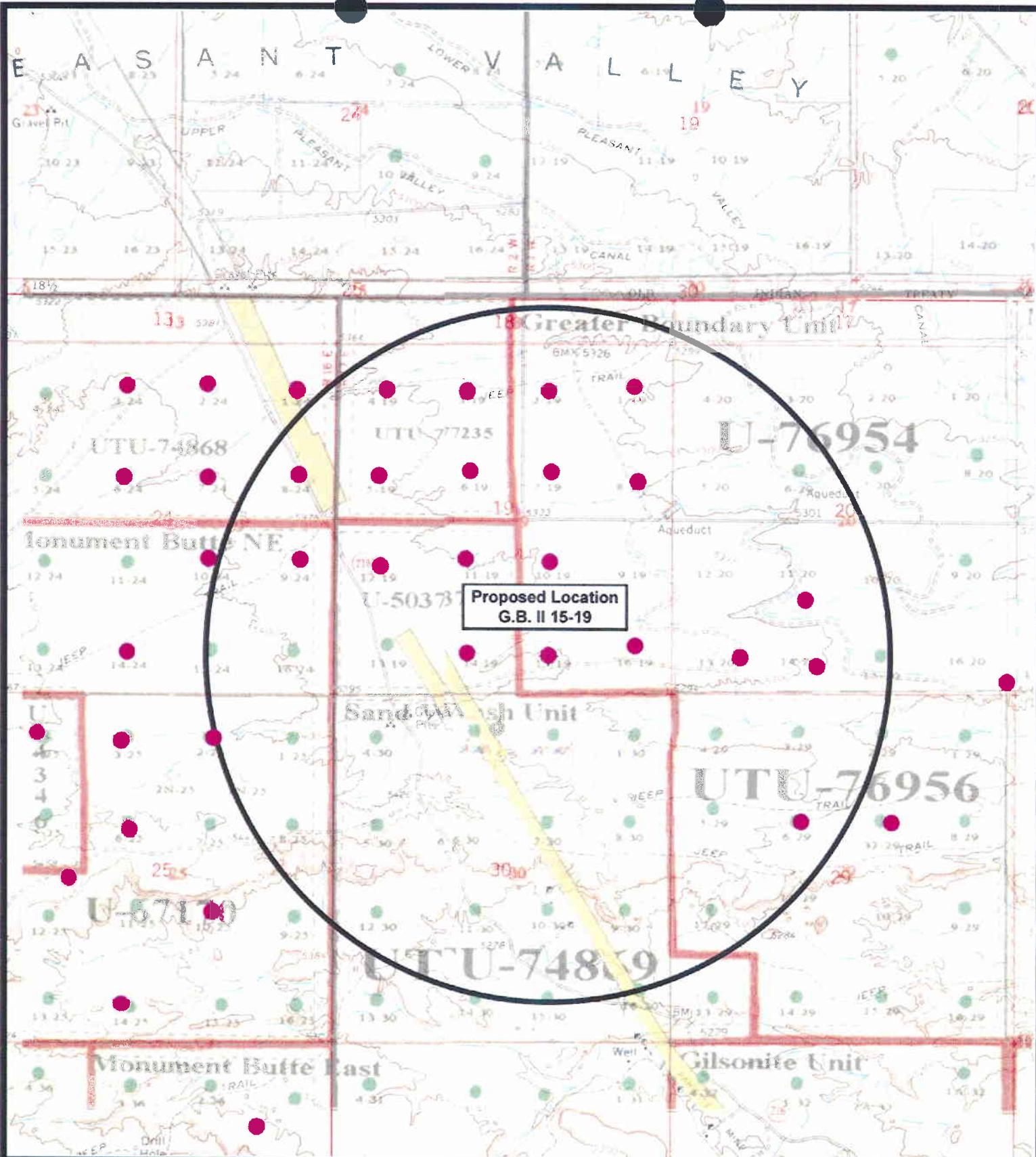
**NEWFIELD**  
 ROCKY MOUNTAINS

Exhibit A  
 Doolittle & Uintah Counties

North Arrow

Maple Plaza Building  
 5425 17th Street Suite 1200  
 Denver, Colorado 80202-1249  
 Phone: (303) 933-0000

Brady 02, 2007




**NEWFIELD**  
Exploration Company

**Greater Boundary II 15-19-8-17  
SEC. 19, T8S, R17E, S.L.B.&M.**



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

SCALE: 1" = 2,000'  
DRAWN BY: mw  
DATE: 11-15-2006

**Legend**

- Location
- One-Mile Radius

**Exhibit "B"**



CULTURAL RESOURCE INVENTORY OF INLAND  
RESOURCES' 760-ACRE PARCEL IN TOWNSHIP 8S,  
RANGE 16E, SECTION 24 AND TOWNSHIP 8S,  
RANGE 17E, SECTION 19, DUCHESNE COUNTY, UTAH

Keith R. Montgomery  
Sarah Ball

Prepared For:

Bureau of Land Management  
Vernal Field Office  
Vernal, Utah

Prepared Under Contract With:

Inland Resources  
2507 Flintridge Place  
Fort Collins CO 80521

Prepared By:

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

MOAC Report No. 02-95

August 16, 2002

United States Department of Interior (FLPMA)  
Permit No. 02-UT-60122

State of Utah Antiquities Project (Survey)  
Permit No. U-02-MQ-0471b,p

**WORKSHEET  
APPLICATION FOR PERMIT TO DRILL**

APD RECEIVED: 07/25/2007

API NO. ASSIGNED: 43-013-33732

WELL NAME: GB II FED 15-19-8-17  
 OPERATOR: NEWFIELD PRODUCTION ( N2695 )  
 CONTACT: MANDIE CROZIER

PHONE NUMBER: 435-646-3721

PROPOSED LOCATION:

SWSE 19 080S 170E  
 SURFACE: 0543 FSL 1952 FEL  
 BOTTOM: 0543 FSL 1952 FEL  
 COUNTY: DUCHESNE  
 LATITUDE: 40.09767 LONGITUDE: -110.0461  
 UTM SURF EASTINGS: 581315 NORTHINGS: 4438823  
 FIELD NAME: MONUMENT BUTTE ( 105 )

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

LEASE TYPE: 1 - Federal  
 LEASE NUMBER: UTU-76954  
 SURFACE OWNER: 1 - Federal

PROPOSED FORMATION: GRRV  
 COALBED METHANE WELL? NO

RECEIVED AND/OR REVIEWED:

- Plat
- Bond: Fed[1] Ind[] Sta[] Fee[]  
(No. UTB000192 )
- Potash (Y/N)
- Oil Shale 190-5 (B) or 190-3 or 190-13
- Water Permit  
(No. 43-10136 )
- RDCC Review (Y/N)  
(Date: \_\_\_\_\_ )
- Fee Surf Agreement (Y/N)
- Intent to Commingle (Y/N)

LOCATION AND SITING:

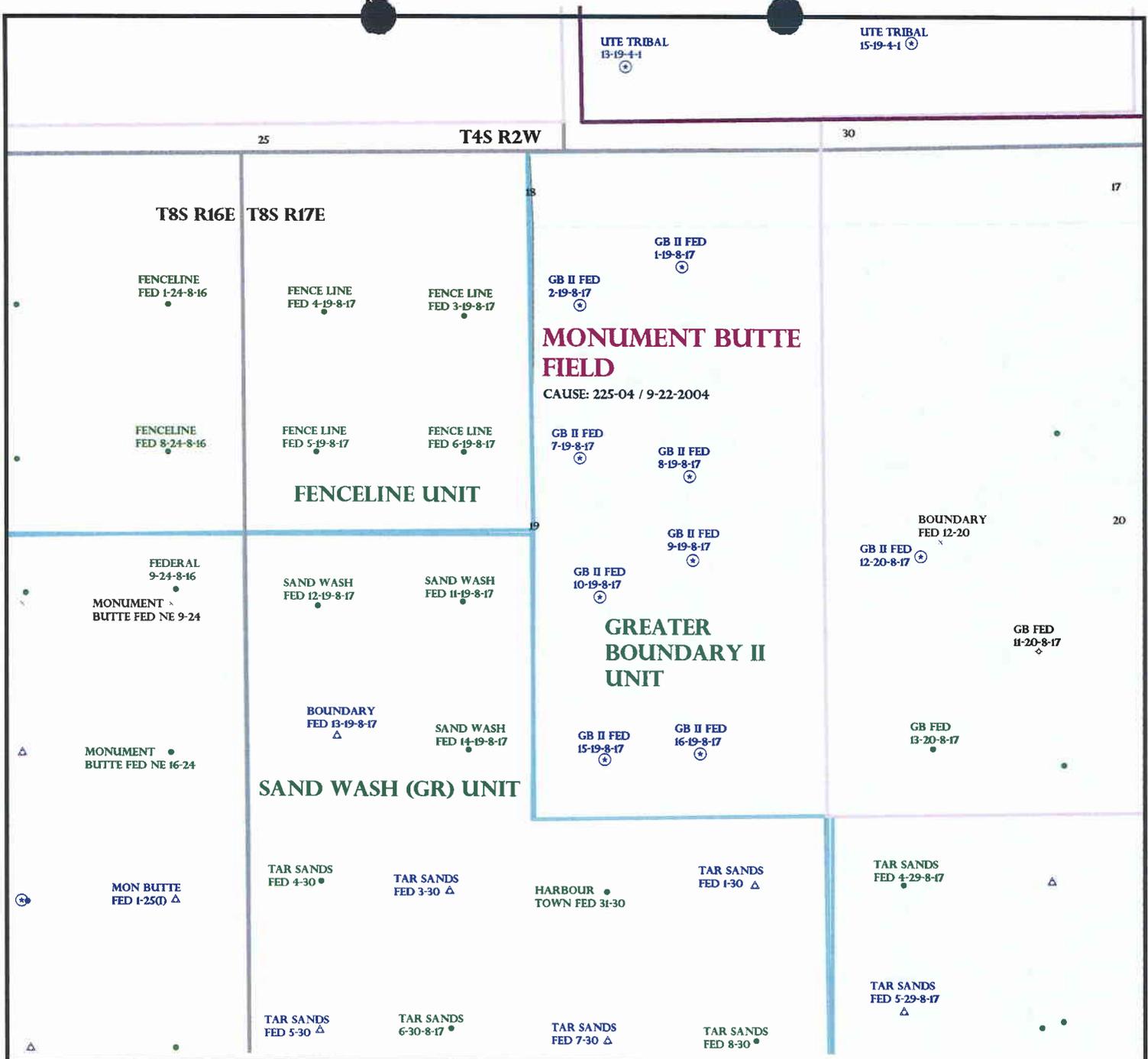
- R649-2-3.
- Unit: GREATER BOUNDARY II (GR)
- R649-3-2. General  
Siting: 460 From Qtr/Qtr & 920' Between Wells
- R649-3-3. Exception
- Drilling Unit  
Board Cause No: 225-04  
Eff Date: 9/22/04  
Siting: Suspends General Siting
- R649-3-11. Directional Drill

COMMENTS:

*Sop, Separate file*

STIPULATIONS:

*1- Federal Approval*



OPERATOR: NEWFIELD PROD CO (N2695)  
 SEC: 19 T.8S R. 17E  
 FIELD: MONUMENT BUTTE (105)  
 COUNTY: DUCHESNE  
 CAUSE: 225-04 / 9-22-2004

**Field Status**

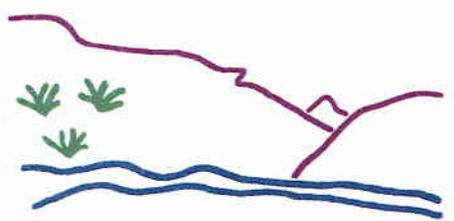
|            |
|------------|
| ABANDONED  |
| ACTIVE     |
| COMBINED   |
| INACTIVE   |
| PROPOSED   |
| STORAGE    |
| TERMINATED |

**Unit Status**

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

**Wells Status**

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



Utah Oil Gas and Mining



PREPARED BY: DIANA MASON  
 DATE: 27-JULY-2007

# United States Department of the Interior

## BUREAU OF LAND MANAGEMENT

Utah State Office

P.O. Box 45155

Salt Lake City, Utah 84145-0155

IN REPLY REFER TO:

3160

(UT-922)

July 27, 2007

Memorandum

To: Assistant District Manager Minerals, Vernal District  
From: Michael Coulthard, Petroleum Engineer  
Subject: 2007 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 2007 within the Greater Boundary Unit, Duchesne County, Utah.

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

(Proposed PZ Green River)

|              |                      |                                    |
|--------------|----------------------|------------------------------------|
| 43-013-33731 | GB II Fed 16-19-8-17 | Sec 19 T08S R17E 0580 FSL 1105 FEL |
| 43-013-33732 | GB II Fed 15-19-8-17 | Sec 19 T08S R17E 0543 FSL 1952 FEL |
| 43-013-33733 | GB II Fed 10-19-8-17 | Sec 19 T08S R17E 1979 FSL 1980 FEL |
| 43-013-33734 | GB II Fed 08-19-8-17 | Sec 19 T08S R17E 2231 FNL 1174 FEL |
| 43-013-33735 | GB II Fed 07-19-8-17 | Sec 19 T08S R17E 2065 FNL 2150 FEL |
| 43-013-33736 | GB II Fed 02-19-8-17 | Sec 19 T08S R17E 0692 FNL 2125 FEL |
| 43-013-33737 | GB II Fed 01-19-8-17 | Sec 19 T08S R17E 0361 FNL 1217 FEL |

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:7-27-07



JON M. HUNTSMAN, JR.  
Governor

GARY R. HERBERT  
Lieutenant Governor

**State of Utah**  
DEPARTMENT OF NATURAL RESOURCES

MICHAEL R. STYLER  
Executive Director

**Division of Oil Gas and Mining**

JOHN R. BAZA  
Division Director

July 30, 2007

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

Re: Greater Boundary II Federal 15-19-8-17 Well, 543' FSL, 1952' FEL, SW SE, Sec. 19,  
T. 8 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 43-013-33732.

Sincerely,

Gil Hunt  
Associate Director

pab  
Enclosures

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



**Operator:** Newfield Production Company

**Well Name & Number** Greater Boundary II Federal 15-19-8-17

**API Number:** 43-013-33732

**Lease:** UTU-76954

**Location:** SW SE                      Sec. 19                      T. 8 South                      R. 17 East

### Conditions of Approval

1. General

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

2. Notification Requirements

Notify the division within 24 hours of spudding the well.

- Contact Carol Daniels at (801) 538-5284.

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

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

3. Reporting Requirements

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

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

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

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

**SUNDRY NOTICES AND REPORTS ON WELLS**

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

5. Lease Designation and Serial No.

**UTU-76954**

6. If Indian, Allottee or Tribe Name

**NA**

7. If Unit or CA, Agreement Designation

**GREATER BOUNDARY II**

8. Well Name and No.

**GRTR BOUND II FED 15-19-8-17**

9. API Well No.

**43-013-33732**

10. Field and Pool, or Exploratory Area

**MONUMENT BUTTE**

11. County or Parish, State

**DUCHESNE COUNTY, UT.**

**SUBMIT IN TRIPLICATE**

1. Type of Well

|  |                                   |                                |
|--|-----------------------------------|--------------------------------|
| <input checked="" type="checkbox"/> Oil Well | <input type="checkbox"/> Gas Well | <input type="checkbox"/> Other |
|--|-----------------------------------|--------------------------------|

2. Name of Operator

**NEWFIELD PRODUCTION COMPANY**

3. Address and Telephone No.

**Rt. 3 Box 3630, Myton Utah, 84052 435-646-3721**

4. Location of Well (Footage, Sec., T., R., m., or Survey Description)

**543 FSL 1952 FEL SW/SE Section 19, T8S R17E**

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

**TYPE OF SUBMISSION**

|  |
|--|
| <input checked="" type="checkbox"/> Notice of Intent |
| <input type="checkbox"/> Subsequent Report           |
| <input type="checkbox"/> Final Abandonment Notice    |

**TYPE OF ACTION**

|   |  |
|---|--|
| <input type="checkbox"/> Abandonment                              | <input type="checkbox"/> Change of Plans         |
| <input type="checkbox"/> Recompletion                             | <input type="checkbox"/> New Construction        |
| <input type="checkbox"/> Plugging Back                            | <input type="checkbox"/> Non-Routine Fracturing  |
| <input type="checkbox"/> Casing Repair                            | <input type="checkbox"/> Water Shut-Off          |
| <input type="checkbox"/> Altering Casing                          | <input type="checkbox"/> Conversion to Injection |
| <input checked="" type="checkbox"/> Other <b>Permit Extension</b> | <input type="checkbox"/> Dispose Water           |

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

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

Newfield Production Company requests to extend the Permit to Drill this well for one year. The original approval date was 7/30/07.

This APD has not yet been approved by the BLM.

Approved by the  
Utah Division of  
Oil, Gas and Mining

Date: 07-07-08  
By: [Signature]

**COPY SENT TO OPERATOR**

Date: 7-9-2008  
Initials: KS

14. I hereby certify that the foregoing is true and correct

Signed

[Signature]  
**Mandie Crozier**

Title

Regulatory Specialist

Date

6/27/2008

CC: UTAH DOGM

(This space for Federal or State office use)

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

Title \_\_\_\_\_

Date \_\_\_\_\_

Conditions of approval, if any:

CC: Utah DOGM

**RECEIVED**

**JUL 01 2008**

Title 18 U.S.C. Section 1001, makes 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.



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

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

**API:** 43-013-33732  
**Well Name:** Greater Boundary II Federal 15-19-8-17  
**Location:** SW/SE Section 19,T8S R17E  
**Company Permit Issued to:** Newfield Production Company  
**Date Original Permit Issued:** 7/30/2007

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

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

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

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

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

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

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

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

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

*M. Annie Cozins*  
Signature

6/27/2008  
Date

Title: Regulatory Specialist

Representing: Newfield Production Company

**RECEIVED**  
**JUL 01 2008**  
DIV. OF OIL, GAS & MINING

RECEIVED  
VERNAL FIELD OFFICE

2007 JUL 20 PM 2:03

DEPT. OF THE INTERIOR  
BUREAU OF LAND MGMT

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

Form 3160-3  
(September 2001)

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL OR REENTER

|  |   |  |
|--|---|--|
| 1a. Type of Work: <input checked="" type="checkbox"/> DRILL <input type="checkbox"/> REENTER   |   | 5. Lease Serial No.<br>UTU-76954   |
| 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<br>N/A                                      |
| 2. Name of Operator<br>Newfield Production Company   |   | 7. If Unit or CA Agreement, Name and No.<br>Greater Boundary II                  |
| 3a. Address<br>Route #3 Box 3630, Myton UT 84052   |   | 8. Lease Name and Well No.<br>Greater Boundary II Federal 15-19-8-17             |
| 3b. Phone No. (include area code)<br>(435) 646-3721  |   | 9. API Well No.<br>43-013-33732  |
| 4. Location of Well (Report location clearly and in accordance with any State requirements. *)<br>At surface SW/SE 543' FSL 1952' FEL<br>At proposed prod. zone  |   | 10. Field and Pool, or Exploratory<br>Monument Butte                             |
| 14. Distance in miles and direction from nearest town or post office*<br>Approximatley 12.5 miles southeast of Myton, Utah   |   | 11. Sec., T., R., M., or Blk. and Survey or Area<br>SW/SE Sec. 19, T8S R17E      |
| 15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any) Approx. 543' f/lse, 543' f/unit  | 16. No. of Acres in lease<br>1561.03                      | 17. Spacing Unit dedicated to this well<br>40 Acres                              |
| 18. Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft. Approx. 884'  | 19. Proposed Depth<br>6650'                               | 20. BLM/BIA Bond No. on file<br>UTB000192 W4B000493                              |
| 21. Elevations (Show whether DF, KDB, RT, GL, etc.)<br>5353' GL  | 22. Approximate date work will start*<br>3rd Quarter 2007 | 23. Estimated duration<br>Approximately seven (7) days from spud to rig release. |

24. Attachments

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

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

|                                |  |                 |
|--------------------------------|--|-----------------|
| 25. Signature<br>              | Name (Printed/Typed)<br>Mandie Crozier | Date<br>7/13/07 |
| Title<br>Regulatory Specialist |  |                 |

|   |  |                     |
|---|--|---------------------|
| Approved by (Signature)<br>                                   | Name (Printed/Typed)<br>TERRY KENNERKA | Date<br>OCT 10 2008 |
| Title<br>Assistant Field Manager<br>Lands & Mineral Resources |  |                     |
| Office<br>VERNAL FIELD OFFICE                                 |  |                     |

Application approval does not warrant or certify the the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

Conditions of approval, if any, are attached.

**CONDITIONS OF APPROVAL ATTACHED**

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

\*(Instructions on reverse)

**NOTICE OF APPROVAL**

UDOGM

NOS 12/04/2006

07PP1053A



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

170 South 500 East

VERNAL, UT 84078

(435) 781-4400



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

|                 |   |                   |                                   |
|-----------------|---|-------------------|-----------------------------------|
| <b>Company:</b> | <b>Newfield Production Company</b>            | <b>Location:</b>  | <b>SWSE, Sec. 19, T8S, R17E</b>   |
| <b>Well No:</b> | <b>Greater Boundary II Federal 15-19-8-17</b> | <b>Lease No:</b>  | <b>UTU-76954</b>                  |
| <b>API No:</b>  | <b>43-013-33732</b>                           | <b>Agreement:</b> | <b>Greater Boundary (GR) Unit</b> |

| <b>Title</b>                      | <b>Name</b>     | <b>Office Phone Number</b> | <b>Cell Phone Number</b> |
|-----------------------------------|-----------------|----------------------------|--------------------------|
| Petroleum Engineer:               | Matt Baker      | (435) 781-4490             | (435) 828-4470           |
| Petroleum Engineer:               | Michael Lee     | (435) 781-4432             | (435) 828-7875           |
| Petroleum Engineer:               | James Ashley    | (435) 781-4470             | (435) 828-7874           |
| Petroleum Engineer:               | Ryan Angus      | (435) 781-4430             | (435) 828-7368           |
| Supervisory Petroleum Technician: | Jamie Sparger   | (435) 781-4502             | (435) 828-3913           |
| Supervisory NRS:                  | Karl Wright     | (435) 781-4484             |                          |
| NRS/Enviro Scientist:             | Holly Villa     | (435) 781-4404             | (435) 828-3544           |
| NRS/Enviro Scientist:             | James Hereford  | (435) 781-3412             | (435) 828-3546           |
| NRS/Enviro Scientist:             | Chuck Macdonald | (435) 781-4441             | (435) 828-7481           |
| NRS/Enviro Scientist:             | Dan Emmett      | (435) 781-3414             | (435) 828-4029           |
| NRS/Enviro Scientist:             | Paul Percival   | (435) 781-4493             | (435) 828-7381           |
| NRS/Enviro Scientist:             | Anna Figueroa   | (435) 781-3407             | (435) 828-3548           |
| NRS/Enviro Scientist:             | Verlyn Pindell  | (435) 781-3402             | (435) 828-3547           |
| NRS/Enviro Scientist:             | Nathan Packer   | (435) 781-3405             | (435) 828-3545           |

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

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

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

**NOTIFICATION REQUIREMENTS**

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

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

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

**STIPULATIONS:**

- An active White-tailed prairie dog colony (Burrowing owl habitat) was found near the proposed drill site. With the occurrence of Burrowing owl habitat there will be a timing restriction to minimize disturbance for burrowing owl nesting from April 1 – August 15.
- The proposed area contains Mountain plover habitat. With this occurrence there will be a timing restriction during project activity (construction and drilling) to minimize disturbance to **Mountain plover nesting from May 15 – June 15.**

**Lease Notices (field review and RMP):**

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

**Comments:**

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

**Follow-up Actions and/or Recommendations:**

**Please be aware that this Special Status Species wildlife clearance is effective for 1 year from the date of the onsite date. Any proposals submitted after the date of the onsite shall require additional surveys and clearances.**

Based on the previous field exam and existing data, and if all timing restrictions are adhered to then, it is my opinion that a no effect situation exists for Special Status Wildlife Species with the construction and drilling of this proposed drill site. Therefore, this site is cleared from a Special Status Wildlife Species perspective.

## CONDITIONS OF APPROVAL:

- All traffic related to this action will be restricted to approved routes. Cross-country vehicle travel will not be allowed.
- All pipelines (surface and buried) will be laid within one 50' wide construction ROW, on one side of the road, and will reduce down to a 30' wide permanent ROW on lease.
- A temporary road ROW will not be granted. The road ROW will be 30 foot for construction and will reduce to an 18 foot running surface.
- The access road will be crowned and ditched. Flat-bladed roads are not allowed. All roads will have an 18', crowned (2 to 3% minimum), running surface. All roads will have drainage ditches along both sides of road.
- No vehicle travel, construction or routine maintenance activities shall be performed during periods when the soil is too wet to adequately support vehicles and/or construction equipment. If such equipment creates ruts in excess of three inches deep, the soil shall be deemed too wet to adequately support construction equipment.
- If additional erosion occurs during the life of this project, more culverts, low water crossings, berms, wing ditches or etc. will be needed to control the erosion.
- Low-water crossings will be appropriately constructed to avoid sedimentation of drainage ways and other water resources.
- Pipelines will be buried at all major drainage crossings.
- Prevent fill and stock piles from entering drainages.
- To insure impermeability, the reserve pit will be lined with a 16 ml or greater liner and felt prior to spudding.
- The liner is to be cut 5 feet below ground surface or at the level of the cuttings, whichever is deeper, and the excess liner material is to be disposed of at an authorized disposal site.
- When the reserve pit contains fluids or toxic substances, the operator must ensure animals do not ingest or become entrapped in pit fluids.
- Any hydrocarbons in the reserve pit will be removed **immediately** upon well completion; in accordance with 43 CFR 3162.7-1. Pits must be free of oil and other liquid and solid wastes prior to filling.
- Monument Butte SOP, Section 9.2 - Pit Fencing Minimum Standards - will be strictly adhered to. To include 9.2.2.3 - Corner posts will be cemented and/or braced in such a manner as to keep fence tight at all times.
- If Uinta Basin hookless cactus or other special status plants are found, construction will cease and the AO will be notified to determine the appropriate mitigation.

- Within 90 calendar days of the approval date for this Application for Permit to Drill (APD), the operator/lessee shall submit to the Authorized Officer (AO), on Sundry Notice Form 3160-5, a detailed Interim and Final Surface Reclamation Plan for surface disturbance on well pads, access roads, and pipelines. If Reclamation Plan is acceptable, the AO will provide written approval or concurrence within 30 calendar days of receipt.

- **Interim Reclamation:**

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

Seed mix:

| Common name         | Latin name                    | lbs/acre | Recommended seed planting depth |
|---------------------|-------------------------------|----------|---------------------------------|
| Squirreltail grass  | <i>Elymus elymoides</i>       | 5.0      | ¼ - ½"                          |
| Siberian wheatgrass | <i>Agropyron fragile</i>      | 2.0      | ½"                              |
| Shadscale saltbush  | <i>Atriplex confertifolia</i> | 0.50     | ½"                              |
| Four-wing saltbush  | <i>Atriplex canescens</i>     | 0.50     | ½"                              |
| Gardner's saltbush  | <i>Atriplex gardneri</i>      | 0.50     | ½"                              |
| Scarlet globemallow | <i>Sphaeralcea coccinea</i>   | 0.10     | ⅛ - ¼"                          |
| Forage Kochia       | <i>Kochia prostrata</i>       | 0.10     | ⅛ - ¼"                          |

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

- **Final reclamation:**

Once the location is plugged and abandoned, the well location, access, and any disturbed areas shall be recontoured to natural topography, topsoil shall be respread, and the entire location shall be seeded following guidelines in the seed mix bullet statement above. Final seed mix: same as interim.

- Noxious and/or invasive weeds will be controlled along access roads, pipelines, well sites, and all other applicable facilities. Any noxious and/or invasive weeds outbreak, directly attributed to the activities of the Operator, will be the responsibility of the Operator to control. On BLM administered land, a Pesticide Use Proposal (PUP) must be submitted and approved prior to the application of herbicides, pesticides, or other possibly hazardous chemicals.
- The authorized officer may prohibit surface disturbing activities during severe winter conditions to minimize watershed damage. This limitation does not apply to operation and maintenance of producing wells.

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

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

**SITE SPECIFIC DOWNHOLE COAs:**

- None.

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

**DRILLING/COMPLETION/PRODUCING OPERATING STANDARDS**

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

making the report (along with a telephone number) should the BLM need to obtain additional information.

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

## OPERATING REQUIREMENT REMINDERS:

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

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

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

<sup>Spud</sup>  
BLM - Vernal Field Office - Notification Form

Operator Newfield Exploration Rig Name/#  
NDSI NS # 1 Submitted By Jim Smith Phone  
Number 823-2072  
Well Name/Number GB 15-19-8-17

Qtr/Qtr SW/SE Section 19 Township 8S Range  
17E

Lease Serial Number UTU-  
76954

API Number 43-013-  
33732

Spud Notice – Spud is the initial spudding of the well, not drilling out below a casing string.

Date/Time 11/22/08 4:00 AM   
PM

Casing – Please report time casing run starts, not cementing times.

- Surface Casing
- Intermediate Casing
- Production Casing
- Liner
- Other

Date/Time 11/23/08 11:00 AM   
PM

BOPE

- Initial BOPE test at surface casing point
- BOPE test at intermediate casing point

STATE OF UTAH  
DIVISION OF OIL, GAS AND MINING  
ENTITY ACTION FORM -FORM 8

OPERATOR: NEWFIELD PRODUCTION COMPANY  
ADDRESS: RT. 3 BOX 3630  
MYTON, UT 84062

OPERATOR ACCT. NO. N2695

| ACTION CODE              | CURRENT ENTITY NO. | NEW ENTITY NO. | API NUMBER | WELL NAME                              | WELL LOCATION |    |    |     | COUNTY   | SPUD DATE  | EFFECTIVE DATE |
|--------------------------|--------------------|----------------|------------|--|---------------|----|----|-----|----------|------------|----------------|
|                          |                    |                |            |  | QQ            | SC | TP | RG  |          |            |                |
| WELL 1 COMMENTS:         |                    |                |            |  |               |    |    |     |          |            |                |
|                          |                    |                |            |  |               |    |    |     |          |            |                |
| A                        | 99999              | 17228          | 4301333776 | FEDERAL 2-28-9-17                      | NWNE          | 28 | 9S | 17E | DUCHESNE | 11/22/2008 | 12/4/08        |
| GRPV                     |                    |                |            |  |               |    |    |     |          |            |                |
| A                        | 99999              | 17229          | 4301333992 | FEDERAL 13-20-8-16                     | SWSW          | 20 | 8S | 16E | DUCHESNE | 11/25/2008 | 12/4/08        |
| GRPV                     |                    |                |            |  |               |    |    |     |          |            |                |
| B                        | 99999              | 12391          | 4301333732 | GREATER BOUNDARY<br>FEDERAL 15-19-8-17 | SWSE          | 19 | 8S | 17E | DUCHESNE | 11/26/2008 | 12/4/08        |
| WELL 5 COMMENTS:<br>GRPV |                    |                |            |  |               |    |    |     |          |            |                |
| B                        | 99999              | 12391          | 4301333731 | GREATER BOUNDARY<br>FEDERAL 16-19-8-17 | SESE          | 19 | 8S | 17E | DUCHESNE | 11/26/2008 | 12/4/08        |
| WELL 5 COMMENTS:<br>GRPV |                    |                |            |  |               |    |    |     |          |            |                |

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

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NOV 26 2008

DIV. OF OIL, GAS & MINING

*[Signature]*  
Signature  
Production Clerk  
Date  
11/26/08  
Jentri park

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

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

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

**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 page 2**

1. Type of Well  
 Oil Well    Gas Well    Other

2. Name of Operator  
 NEWFIELD PRODUCTION COMPANY

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

3b. Phone    (include are code)  
                   435.646.3721

4. Location of Well    (Footage, Sec., T., R., M., or Survey Description)  
                             SWSE Section 19 T8S R17E

5. Lease Serial No.  
 USA UTU-76954

6. If Indian, Allottee or Tribe Name.

7. If Unit or CA/Agreement, Name and/or  
 GREATER BOUNDARY II

8. Well Name and No.  
 GRTR BNDRY II 15-19-8-17

9. API Well No.  
 4301333732

10. Field and Pool, or Exploratory Area  
 MONUMENT BUTTE

11. County or Parish, State  
 DUCHESNE, UT

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

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

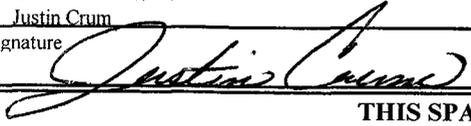
13. Describe Proposed or Completed Operation: (Clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recomplete horizontally, give subsurface locations and measured and true vertical 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 11/22/08 MIRU NDSI Rig # 1. Set all equipment. Pressure test Kelly, TIW, Choke manifold, & Bop's to 2,000 psi. Test 8.625 csgn to 1,500 psi. Vernal BLM field, & Roosevelt DOGM office was notified of test. PU BHA and tag cement @ 270'. Drill out cement & shoe. Drill a 7.875 hole with fresh water to a depth of 6550'. 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, 167 jt's of 5.5 J-55, 15.5# csgn. Set @ 6538' / KB. Cement with 300 sks cement mixed @ 11.0 ppg & 3.43 yld. Then 400 sks cement mixed @ 14.4 ppg & 1.24 yld. Returned all dyed spacers to reserve pit. Nipple down Bop's. Drop slips @ 110,000 #'s tension. Release rig @ 2:30 PM on 12/9/08.

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**DEC 23 2008**

DIV. OF OIL, GAS & MINING

|   |                           |
|---|---------------------------|
| I hereby certify that the foregoing is true and correct (Printed/ Typed)<br>Justin Crum         | Title<br>Drilling Foreman |
| Signature<br> | Date<br>12/20/2008        |

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

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

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

(Instructions on page 2)





UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

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

**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 page 2**

1. Type of Well  
 Oil Well    Gas Well    Other

2. Name of Operator  
 NEWFIELD PRODUCTION COMPANY

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

3b. Phone   (include are code)  
 435.646.3721

4. Location of Well   (Footage, Sec., T., R., M., or Survey Description)  
 SWSE Section 19 T8S R17E

5. Lease Serial No.  
 USA UTU-76954

6. If Indian, Allottee or Tribe Name.

7. If Unit or CA/Agreement, Name and/or  
 GREATER BOUNDARY II

8. Well Name and No.  
 GRTR BNDRY II 15-19-8-17

9. API Well No.  
 4301333732

10. Field and Pool, or Exploratory Area  
 MONUMENT BUTTE

11. County or Parish, State  
 DUCHESNE, UT

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

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

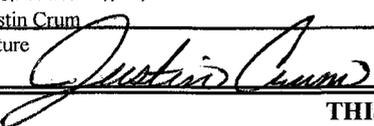
13. Describe Proposed or Completed Operation: (Clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recomplete horizontally, give subsurface locations and measured and true vertical 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 11/22/08 MIRU NDSI NS # 1. Spud well @ 4:00 PM. Drill 315' of 12 1/4" hole with air mist. TIH W/ 7 Jt's 8 5/8" J-55 24 # csgn. Set @ 324.50 KB. On 11/25/2008 cement with 160 sks of class "G" w/ 3% CaCL2 + 1/4# sk Cello- Flake Mixed @ 15.8 ppg > 1.17 cf/ sk yeild. Returned 7 bbls cement to pit. WOC.

**RECEIVED**

**DEC 23 2008**

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

|  |                           |
|--|---------------------------|
| I hereby certify that the foregoing is true and correct (Printed/ Typed)<br>Justin Crum          | Title<br>Drilling Foreman |
| Signature<br> | Date<br>12/20/2008        |

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

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

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

(Instructions on page 2)





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

3. LEASE DESIGNATION AND SERIAL NUMBER:  
USA UTU-76954

**SUNDRY NOTICES AND REPORTS ON WELLS**

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

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

7. UNIT or CA AGREEMENT NAME:  
GREATER BOUNDARY II

1. TYPE OF WELL: OIL WELL  GAS WELL  OTHER

8. WELL NAME and NUMBER:  
GRTR BNDRY II 15-19-8-17

2. NAME OF OPERATOR:  
NEWFIELD PRODUCTION COMPANY

9. API NUMBER:  
4301333732

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

PHONE NUMBER:  
435.646.3721

10. FIELD AND POOL, OR WILDCAT:  
MONUMENT BUTTE

4. LOCATION OF WELL:

FOOTAGES AT SURFACE:

COUNTY: DUCHESNE

OTR/OTR. SECTION. TOWNSHIP. RANGE. MERIDIAN: SWSE, 19, T8S, R17E

STATE: UT

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

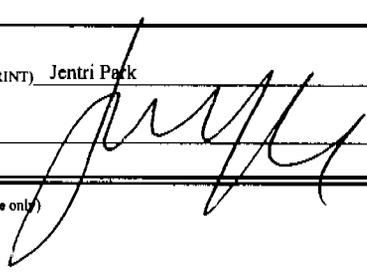
| TYPE OF SUBMISSION   | TYPE OF ACTION  |   |   |
|--|---|---|---|
| <input type="checkbox"/> NOTICE OF INTENT<br>(Submit in Duplicate)<br><br>Approximate date work will<br><br><hr/> <input checked="" type="checkbox"/> SUBSEQUENT REPORT<br>(Submit Original Form Only)<br><br>Date of Work Completion:<br><br>01/30/2009 | <input type="checkbox"/> ACIDIZE                        | <input type="checkbox"/> DEEPEN                           | <input type="checkbox"/> REPERFORATE CURRENT FORMATION            |
|  | <input type="checkbox"/> ALTER CASING                   | <input type="checkbox"/> FRACTURE TREAT                   | <input type="checkbox"/> SIDETRACK TO REPAIR WELL                 |
|  | <input type="checkbox"/> CASING REPAIR                  | <input type="checkbox"/> NEW CONSTRUCTION                 | <input type="checkbox"/> TEMPORARITLY ABANDON                     |
|  | <input type="checkbox"/> CHANGE TO PREVIOUS PLANS       | <input type="checkbox"/> OPERATOR CHANGE                  | <input type="checkbox"/> TUBING REPAIR                            |
|  | <input type="checkbox"/> CHANGE TUBING                  | <input type="checkbox"/> PLUG AND ABANDON                 | <input type="checkbox"/> VENT OR FLAIR                            |
|  | <input type="checkbox"/> CHANGE WELL NAME               | <input type="checkbox"/> PLUG BACK                        | <input type="checkbox"/> WATER DISPOSAL                           |
|  | <input type="checkbox"/> CHANGE WELL STATUS             | <input type="checkbox"/> PRODUCTION (START/STOP)          | <input type="checkbox"/> WATER SHUT-OFF                           |
|  | <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS | <input type="checkbox"/> RECLAMATION OF WELL SITE         | <input checked="" type="checkbox"/> OTHER: - Weekly Status Report |
|  | <input type="checkbox"/> CONVERT WELL TYPE              | <input type="checkbox"/> RECOMPLETE - DIFFERENT FORMATION |   |

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

The above subject well was completed on 01/10/09, attached is a daily completion status report.

NAME (PLEASE PRINT) Jentri Park

TITLE Production Clerk

SIGNATURE 

DATE 01/30/2009

(This space for State use only)

**RECEIVED**  
**FEB 02 2009**

DIV. OF OIL, GAS & MINING

## Daily Activity Report

Format For Sundry

**GRTR BNDRY II 15-19-8-17**

**11/1/2008 To 3/28/2009**

**12/20/2008 Day: 1**

**Completion**

Rigless on 12/19/2008 - Install 5m frac head. NU 6" 5K Cameron BOP. RU H/O truck & pressure test casing, blind rams, frac head, csg & casing valves to 4500 psi. RU Perforators LLC WLT w/ mast & run CBL under pressure. WLTD @ 6454' & cement top @ 382'. Perforate stage #1, B1 sds @ 5518-26' w/ 3-1/8" Slick Guns (19 gram, .49"EH, 120°) w/ 4 spf for total of 32 shots. 155 BWTR. SWIFN.

**1/2/2009 Day: 2**

**Completion**

Rigless on 1/1/2009 - Day 2a. Stage #1, B1 sds. RU BJ Services. 20 psi on well. Frac B1 w/ 39,376#'s of 20/40 sand in 453 bbls of Lightning 17 fluid. Broke @ 2348 psi. Treated w/ ave pressure of 2200 psi @ ave rate of 23.2 BPM. ISIP 2080 psi. Leave pressure on well. 608 BWTR. See Day 2b. Day 2b, Stage #2 D1/D2 sds. RU Lone Wolf, llc WLT, crane & Lubricator. RIH w/ Weatherford 5 1/2" 6K composite flow through frac plug & 10', 5', 8' perf guns. Set plug @ 5350'. Perforate D2 sds @ 5266-76' & D1 sds @ 5203-08' & 5192-5200' w/ 3-1/8" Slick Guns (.35"EH, 22.7 gram, 90°, 39" pen, Titan) w/ 4 spf for total of 92 shots. RU BJ Services. 1080 psi on well. Frac D1/D2 sds w/ 55,403#'s of 20/40 sand in 510 bbls of Lightning 17 fluid. Broke @ 3784 psi. Treated w/ ave pressure of 1415 psi w/ ave rate of 23.1 BPM. ISIP 1725 psi. Leave pressure on well. 1118 BWTR. See day 2c Day 2c, Stage #3 GB6 sds. RU Lone Wolf, llc WLT, crane & Lubricator. RIH w/ Weatherford 5 1/2" 6K composite flow through frac plug & 6' perf gun. Set plug @ 4850'. Perforate GB6 sds @ 4756-62' w/ 3-1/8" Slick Guns (.35"EH, 22.7 gram, 90°, 39" pen, Titan) w/ 4 spf for total of 24 shots. RU BJ Services. Perfs would not break. Dump bail acid on perfs.

**1/3/2009 Day: 3**

**Completion**

Rigless on 1/2/2009 - Day 3a, Stage #3 GB6 sds. Thaw BOP w/ hotoiler. RU BJ Services. 353 psi on well. Frac GB6 w/ 24,415#'s of 20/40 sand in 453 bbls of Lightning 17 fluid. Broke @ 2348 psi. Treated w/ ave pressure of 2200 psi @ ave rate of 22.8 BPM. ISIP 2194 psi. Leave pressure on well. 1465 BWTR. See Day 3b. Day 3b, Stage #4 GG-P sds. RU Lone Wolf, llc WLT, crane & Lubricator. RIH w/ Weatherford 5 1/2" 6K composite flow through frac plug & 10' perf gun. Set plug @ 4550'. Perforate GG-P sds @ 4414-24' w/ 3-1/8" Slick Guns (.35"EH, 22.7 gram, 90°, 39" pen, Titan) w/ 4 spf for total of 40 shots. RU BJ Services. 1535 psi on well. Frac GG-P sds w/ 43,655#'s of 20/40 sand in 401 bbls of Lightning 17 fluid. Broke @ 4135 psi. Treated w/ ave pressure of 1658 psi w/ ave rate of 23.0 BPM. ISIP 1538 psi. Open well to pit for immediate flowback @ approx. 3 bpm. Well flowed for 4 hrs. & died. Recovered 432 bbls. SWIFN.

**1/9/2009 Day: 4**

**Completion**

Western #4 on 1/8/2009 - MIRUSU. Thaw well out. RD Cameron BOP's & frac head. Instal 3M production tbg head. RU 4-3/4" mill & x-over sub. Tally pickup & TIH w/ new J-55, 2-7/8", 6.5# tbg, 145 jts in tag plug @ 4550'. RU swivel, pump & tanks. Drlg out plug #1. TIH w/ tbg to tag plug @ 4850'. Drlg out plug #2. Leave EOT @ 4885'. SIFN.

**1/10/2009 Day: 5**

**Completion**

Western #4 on 1/9/2009 - Thaw well out. Open well w/ 400 psi on casing. TIH w/ tbg to tag sand @ 5201'. C/O to plug @ 5350'. RU swivel pump & tanks. Drlg out plug #3. TIH w/ tbg to

tag sand @ 6386'. C/O to PBD @ 6497'. LD 2 jts tbg, EOT @ 6430'. RU swab equipment. Made 5 runs to rec'd 140 bbls of fluid, well flowed 80 bbls. Showed 10% of oil w/ no sand. RD swab. TIH w/ tbg to tag 3' of new sand. Circulate well to PBD @ 6497'. LD 28 jts to leave EOT 5612'. SIFN.

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**1/11/2009 Day: 6**

**Completion**

Western #4 on 1/10/2009 - Thaw well out. Open well w/ 150 psi on casing. TOOH w/ tbg. LD mill & x-over sub. TIH w/ NC, 2 jts tbg, SN, 2 jts tbg, TA new CDI w/ 45,000# shear, 174 jts tbg. RD BOP's. Set TA @ 5490' w/ 16,000#'s tension w/ SN @ 5556' & EOT @ 5621'. Flush tbg w/ 60 bbls. Pickup & prime pump. TIH w/ 2-1/2" x 1-1/2" x 16' x 20' RHAC new CDI pump w/ 176"SL, 6- 1-1/2" weight rods, 20- 3/4" guided rods, 96- 3/4" plain rods, 99- 3/4" guided rods, 2', 4', 4', 8' x 3/4" pony rod, 1-1/2" x 26' polished rod. Space pump. Test tbg & pump to 800 psi. RDMOSU. POP @ 5:00PM w/ 102"SL @ 5 spm. Final Report.

---

**Pertinent Files: Go to File List**

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

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

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

5. Lease Serial No.  
UTU-76954

6. If Indian, Allottee or Tribe Name  
NA

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

8. Lease Name and Well No.  
GB FEDERAL 15-19-8-17

9. AFI Well No.  
43-013-33732

10. Field and Pool or Exploratory  
MONUMENT BUTTE

11. Sec., T., R., M., on Block and  
Survey or Area  
SEC. 19, T8S, R17E

12. County or Parish  
DUCHESNE

13. State  
UT

14. Date Spudded  
11/22/2008

15. Date T.D. Reached  
12/07/2008

16. Date Completed 01/10/2009  
 D & A  Ready to Prod.

17. Elevations (DF, RKB, RT, GL)\*  
5353' GL 5365' KB

18. Total Depth: MD 6550'  
TVD

19. Plug Back T.D.: MD 6497'  
TVD

20. Depth Bridge Plug Set: MD  
TVD

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

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

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

| Hole Size | Size/Grade  | Wt. (#/ft.) | Top (MD) | Bottom (MD) | Stage Cementer<br>Depth | No. of Sk. &<br>Type of Cement | Slurry Vol.<br>(BBL) | Cement Top* | Amount Pulled |
|-----------|-------------|-------------|----------|-------------|-------------------------|--------------------------------|----------------------|-------------|---------------|
| 12-1/4"   | 8-5/8" J-55 | 24#         |          | 325'        |                         | 160 CLASS G                    |                      |             |               |
| 7-7/8"    | 5-1/2" J-55 | 15.5#       |          | 6538'       |                         | 300 PRIMLITE<br>400 50/50 POZ  |                      | 382'        |               |

24. Tubing Record

| Size   | Depth Set (MD) | Packer Depth (MD) | Size | Depth Set (MD) | Packer Depth (MD) | Size | Depth Set (MD) | Packer Depth (MD) |
|--------|----------------|-------------------|------|----------------|-------------------|------|----------------|-------------------|
| 2-7/8" | EOT@ 5621'     | TA @5491'         |      |                |                   |      |                |                   |

25. Producing Intervals

| Formation      | Top | Bottom | Perforated Interval   | Size | No. Holes | Perf. Status |
|----------------|-----|--------|-----------------------|------|-----------|--------------|
| A) GREEN RIVER |     |        | (B1) 5518-5526'       | .49" | 4         | 32           |
| B) GREEN RIVER |     |        | (D2) & (D1) see below | .49" | 4         | 92           |
| C) GREEN RIVER |     |        | (GB6) 4756-4762'      | .49" | 4         | 24           |
| D) GREEN RIVER |     |        | (GG-P) 4414-4424'     | .49" | 4         | 40           |

26. Perforation Record 4414-5526

| Depth Interval | Amount and Type of Material                |
|----------------|--|
| 5518-5526'     | Frac w/ 39376# of 20/40 snd 453 bbls fluid |
| 5192-5276'     | Frac w/ 55403# 20/40 snd 510 bbls fluid    |
| 4756-4762'     | Frac w/ 24415# 20/40 snd 453 bbls fluid    |
| 4414-4424'     | Frac w/ 43655# 20/40 snd 401 bbls fluid    |

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

| Date First Produced | Test Date            | Hours Tested | Test Production | Oil BBL | Gas MCF | Water BBL | Oil Gravity Corr. API | Gas Gravity | Production Method                                  |
|---------------------|----------------------|--------------|-----------------|---------|---------|-----------|-----------------------|-------------|--|
| 01/10/09            | 02/01/09             | 24           | →               | 50      | 22      | 45        |                       |             | 2-1/2" x 1-1/2" x 16 x 20' RHAC Pump w/ sm Plunger |
| Choke Size          | Tbg. Press. Flwg. SI | Csg. Press.  | 24 Hr. Rate     | Oil BBL | Gas MCF | Water BBL | Gas/Oil Ratio         | Well Status |  |
|                     |                      |              | →               |         |         |           |                       | PRODUCING   |  |

28. Production - Interval A

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

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

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28b. Production - Interval C

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

28c. Production - Interval D

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

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

USED FOR FUEL

30. Summary of Porous Zones (Include Aquifers):

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

31. Formation (Log) Markers

GEOLOGICAL MARKERS

| Formation | Top | Bottom | Descriptions, Contents, etc. | Name                                     | Top            |
|-----------|-----|--------|------------------------------|--|----------------|
|           |     |        |                              |  | Meas. Depth    |
|           |     |        |                              | GARDEN GULCH MRK<br>GARDEN GULCH 1       | 4148'<br>4352' |
|           |     |        |                              | GARDEN GULCH 2<br>POINT 3                | 4476'<br>4766' |
|           |     |        |                              | X MRKR<br>Y MRKR                         | 5000'<br>5035' |
|           |     |        |                              | DOUGALS CREEK MRK<br>BI CARBONATE MRK    | 5761'<br>5428' |
|           |     |        |                              | B LIMESTON MRK<br>CASTLE PEAK            | 5573'<br>6049' |
|           |     |        |                              | BASAL CARBONATE<br>TOTAL DEPTH (LOGGERS) | 6445'<br>6555' |

32. Additional remarks (include plugging procedure):

(D2) 5266-5276' (D1) 5203-5208' & 5192-5200'

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

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

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

Name (please print) Tammi Lee Title Production Clerk  
 Signature *Tammi Lee* Date 02/09/2009

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.



**UNITED STATES ENVIRONMENTAL PROTECTION AGENCY**

**REGION 8**

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

Ref: 8P-W-GW

JAN 06 2012

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JAN 19 2012

DIV. OF OIL, GAS & MINING

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

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

**CONCURRENCE COPY**

Re: Underground Injection Control (UIC)  
Additional Well to Boundary Area Permit  
EPA UIC Permit UT20702-09380  
Well: G.B. Federal 15-19-8-17  
SWSE Sec. 19 T8S-R17E  
Duchesne County, Utah  
API No.: 43-013-33732

Dear Mr. Sundberg:

The U.S. Environmental Protection Agency Region 8 hereby authorizes Newfield Production Company (Newfield) to convert the oil well G.B. Federal 15-19-8-17 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 Boundary Area Permit No UT20702-00000 and subsequent modifications.

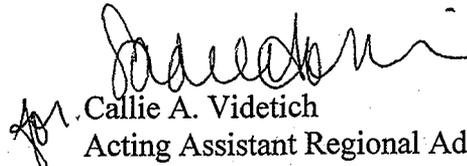
Please be aware that Newfield does not have authorization to begin well injection until all Prior to Commencing Injection requirements are met and written authorization to inject is given by the Director. Prior to receiving authorization to inject, Newfield must submit for review and approval (1) the 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.

Accepted by the  
Utah Division of  
Oil, Gas and Mining

**FOR RECORD ONLY**

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

Sincerely,

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

Enclosures: Authorization for Additional Well  
Wellbore schematic for G.B. Federal 15-19-8-17

cc: Letter Only:

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

Daniel Picard  
BIA - Uintah & Ouray Indian Agency

cc: All Enclosures:

Mike Natchees  
Environmental Coordinator  
Ute Indian Tribe

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

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

Fluid Minerals Engineering Office  
BLM - Vernal Office

Reed Durfey  
District Manager  
Newfield Production Company  
Myton, Utah



**UNITED STATES ENVIRONMENTAL PROTECTION AGENCY**

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

**AUTHORIZATION FOR ADDITIONAL WELL**

**UIC Area Permit UT20702-00000**

The Boundary Unit Final UIC Area Permit UT20702-00000, effective February 8, 1994, authorizes injection for the purpose of enhanced oil recovery in the Monument Butte Field. On October 5, 2011, Newfield Production Company notified the Director concerning the following additional enhanced recovery injection well:

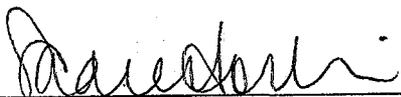
|                       |   |
|-----------------------|---|
| Well Name:            | <b>Greater Boundary Federal 15-19-8-17</b>  |
| EPA Permit ID Number: | <b>UT20702-09380</b>  |
| Location:             | 543' FSL & 1952' FEL<br>SWSE Sec. 19 T8S-R17E<br>Duchesne County, Utah<br>API #43-013-33732 |

Pursuant to 40 CFR §144.33, Area UIC Permit 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 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: 11/5/12

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

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

Authorization for Additional Well: UIC Area Permit UT20702-00000  
Well: Greater Boundary Federal 15-19-8-17 EPA Well ID: UT20702-09380

## INJECTION WELL-SPECIFIC REQUIREMENTS

Well Name: **Allen Federal 32-6-9-17**  
EPA Well ID Number: **UT20642-08173**

### 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 **1,335 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 0.742 psi/ft, SG is 1.015 and D is 4,414 ft.

UIC Area Permit No. UT20702-00000 provides the opportunity for the permittee to request a change of the MAIP based upon the submitted results of a step rate test that demonstrates the formation parting pressure.

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

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

### Demonstration of Mechanical Integrity:

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

*Authorization for Additional Well: UIC Area Permit UT20702-00000*  
*Well: Greater Boundary Federal 15-19-8-17 EPA Well ID: UT20853-09380*

- (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 15-19-8-17**  
EPA Well ID Number: **UT20702-09380**

**Underground Sources of Drinking Water (USDWs):** USDWs in the Boundary 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 353 ft. below ground surface in the G.B. Federal 15-19-8-17 well. Water samples from the Green River Formation taken in conjunction with oil production show that USDWs do occur at deeper depths within the Humpback unit and as deep as 6,026 ft. in the Balcron Monument Federal 33-25-8-17 well. Freshening of the injection zone due to the injection of relatively fresh water for the purpose of enhanced oil recovery has been demonstrated to be occurring in parts of the Monument Butte Field, including this permit area.

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

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

*Authorization for Additional Well: UIC Area Permit UT20702-00000*  
*Well: Greater Boundary Federal 15-19-8-17 EPA Well ID: UT20853-09380*

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 325ft. 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 6,538 ft. in a 7-7/8" hole secured with 700 sacks of cement. Total driller depth is 6,550 ft. Plugged back total depth is 6,497 ft. EPA calculates top of cement at 2,013 ft. Estimated CBL top of cement is 382 ft.

**Perforations:** Top perforation: 4,414 ft. Bottom perforation: 5,526 ft.

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

The following four wells that penetrate the confining zone within or proximate to a ¼-mile radius around the Greater Boundary Federal 15-19-8-17 well were evaluated to determine if any corrective action is necessary to prevent fluid movement into USDWs:

|                              |                   |                       |
|------------------------------|-------------------|-----------------------|
| G.B. Federal 10-19-8-17      | API: 43-013-33733 | NWSE Sec. 19-T8S-R17E |
| G.B. Federal 16-19-8-17      | API: 43-013-33731 | SESW Sec. 19-T8S-R17E |
| Sand Wash Federal 14-19-8-17 | API: 43-013-33948 | SESW Sec. 19-T8S-R17E |

*Authorization for Additional Well: UIC Area Permit UT20702-00000  
Well: Greater Boundary Federal 15-19-8-17 EPA Well ID: UT20702-09380*

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

**Reporting of Noncompliance:**

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

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

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

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

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

*Authorization for Additional Well: UIC Area Permit UT20702-00000  
Well: Greater Boundary Federal 15-19-8-17 EPA Well ID: UT20853-09380*

**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.

# GB Fed 15-19-8-17

Spud Date: 11/22/2008  
Put on Production: 1/10/2009

GL: 5353' \* KB: 5365'

## SURFACE CASING

CSG SIZE: 8-5/8"  
GRADE: J-55  
WEIGHT: 24#  
LENGTH: 7 jts (310.65')  
DEPTH LANDED: 324.50' KB  
HOLE SIZE: 12-1/4"  
CEMENT DATA: 160 sx class 'g'

## PRODUCTION CASING

CSG SIZE: 5-1/2"  
GRADE: J-55  
WEIGHT: 15.5#  
LENGTH: 173 jts (6762.63')  
DEPTH LANDED: 6538.27'  
HOLE SIZE: 7-7/8"  
CEMENT DATA: 300 sx primlite and 400 sx 50/50 poz  
CEMENT TOP AT: 382'

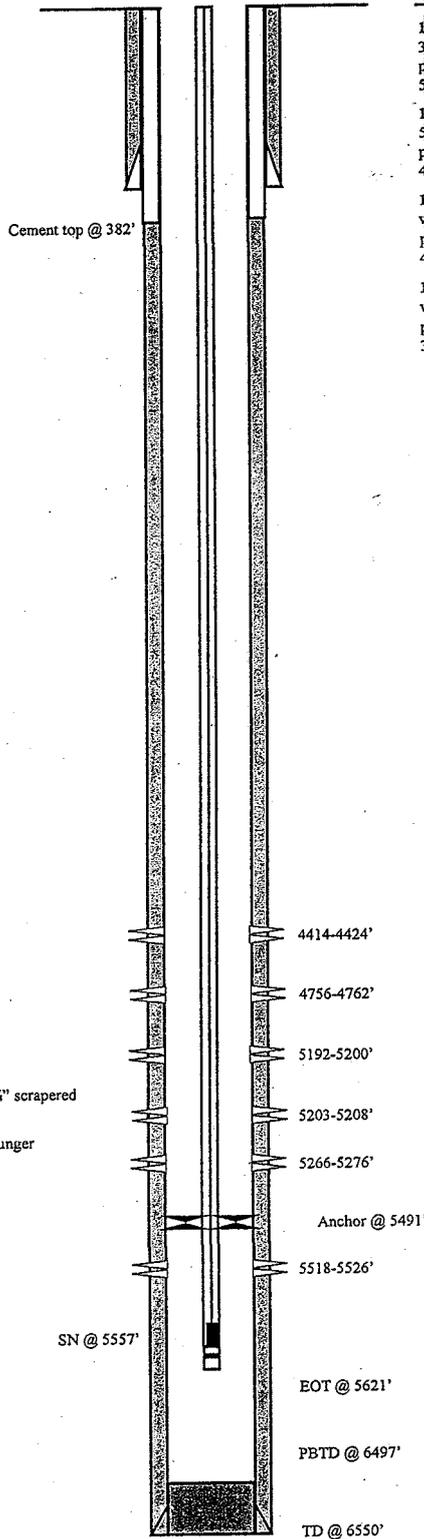
## TUBING

SIZE/GRADE/WT.: 2-7/8" / J-55  
NO. OF JOINTS: 174 jts (5478.76')  
TUBING ANCHOR: 5490.76' KB  
NO. OF JOINTS: 2 jts (63.16')  
SEATING NIPPLE: 2-7/8" (1.10')  
SN LANDED AT: 5556.72' KB  
NO. OF JOINTS: 2 jts (62.20')  
TOTAL STRING LENGTH: EOT @ 5621.47'

## SUCKER RODS

POLISHED ROD: 1 1/2" x 26' polished rod  
SUCKER RODS: 99-3/4" scraped rods, 96-3/4" plain rods, 20-3/4" scraped rods, 6-1 1/2" weight rods  
PUMP SIZE: CDI 2 1/2" x 1-1/2" x 16" x 20' RHAC pump w/sm plunger  
STROKE LENGTH: 102"  
PUMP SPEED, SPM: 5

## Wellbore Diagram



## FRAC JOB

1/1/09 5518-5526' Frac B1 sds as follows:  
39,376# 20/40 sand in 453 bbls of Lightning 17 fluid. Treated w/ ave pressure of 2200 psi @ ave rate of 23.2 BPM. ISIP 2080 psi. Actual flush: 5011 gals.

1/1/09 5192-5276' Frac D1/D2 sds as follows:  
55,403# 20/40 sand in 510 bbls of Lightning 17 fluid. Treated w/ ave pressure of 1415 psi w/ ave rate of 23.1 BPM. ISIP 1725 psi. actual flush: 4687 gals.

1/1/09 4756-4762' Frac GB6 sds as follows:  
w/ 24,415# 20/40 sand in 453 bbls of Lightning 17 fluid. Treated w/ ave pressure of 2200 psi @ ave rate of 22.8 BPM. ISIP 2194 psi. Actual flush: 4246 gals.

1/2/09 4414-4424' Frac GG-P sds as follows:  
w/ 43,655# 20/40 sand in 401 bbls of Lightning 17 fluid. Treated w/ ave pressure of 1658 psi w/ ave rate of 23.0 BPM. ISIP 1538 psi. Actual flush: 3847 gals.

## PERFORATION RECORD

| Date   | Interval   | Tool   | Holes    |
|--------|------------|--------|----------|
| 1/2/09 | 4414-4424' | 4 JSPF | 40 holes |
| 1/2/09 | 4756-4762' | 4 JSPF | 24 holes |
| 1/1/09 | 5192-5200' | 4 JSPF | 32 holes |
| 1/1/09 | 5203-5208' | 4 JSPF | 20 holes |
| 1/1/09 | 5266-5276' | 4 JSPF | 40 holes |
| 1/1/09 | 5518-5526' | 4 JSPF | 32 holes |

**NEWFIELD**

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**GB Fed 15-19-8-17**

543' FSL & 1952' FEL

SW/SE Section 19-T8S-R17E

Duchesne Co, Utah

API # 43-013-33732; Lease # UTU-76954

|  |  |   |
|--|--|---|
| <b>STATE OF UTAH</b><br>DEPARTMENT OF NATURAL RESOURCES<br>DIVISION OF OIL, GAS, AND MINING  |  | FORM 9  |
| <b>SUNDRY NOTICES AND REPORTS ON WELLS</b><br><br>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><br>UTU-76954 |
|  |  | <b>6. IF INDIAN, ALLOTTEE OR TRIBE NAME:</b>                |
| <b>1. TYPE OF WELL</b><br>Oil Well   |  | <b>7. UNIT or CA AGREEMENT NAME:</b><br>GMBU (GRRV)         |
| <b>2. NAME OF OPERATOR:</b><br>NEWFIELD PRODUCTION COMPANY   |  | <b>8. WELL NAME and NUMBER:</b><br>GB II FED 15-19-8-17     |
| <b>3. ADDRESS OF OPERATOR:</b><br>Rt 3 Box 3630 , Myton, UT, 84052   |  | <b>9. API NUMBER:</b><br>43013337320000                     |
| <b>PHONE NUMBER:</b><br>435 646-4825 Ext   |  | <b>9. FIELD and POOL or WILDCAT:</b><br>MONUMENT BUTTE      |
| <b>4. LOCATION OF WELL</b><br><b>FOOTAGES AT SURFACE:</b><br>0543 FSL 1952 FEL<br><b>QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:</b><br>Qtr/Qtr: SWSE Section: 19 Township: 08.0S Range: 17.0E Meridian: S  |  | <b>COUNTY:</b><br>DUCHESNE                                  |
|  |  | <b>STATE:</b><br>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<br>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<br>Date of Work Completion:<br>2/23/2012 | <input type="checkbox"/> CHANGE TO PREVIOUS PLANS      | <input type="checkbox"/> CHANGE TUBING                  | <input type="checkbox"/> CHANGE WELL NAME               |
| <input type="checkbox"/> SPUD REPORT<br>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<br>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 02/22/2012. New interval added: 6105-6108' 3 JSPF.

On 02/21/2012 Jason Deardorff with the EPA was contacted concerning the initial MIT on the above listed well. On 02/23/2012 the casing was pressured up to 1620 psig and charted for 30 minutes with no pressure loss. The well was not injecting during the test. The tubing pressure was 200 psig during the test. There was not an EPA representative available to witness the test. EPA# UT20702-09380

**Accepted by the  
Utah Division of  
Oil, Gas and Mining  
FOR RECORD ONLY  
March 05, 2012**

|   |                                     |   |
|---|-------------------------------------|---|
| <b>NAME (PLEASE PRINT)</b><br>Lucy Chavez-Naupoto | <b>PHONE NUMBER</b><br>435 646-4874 | <b>TITLE</b><br>Water Services Technician |
| <b>SIGNATURE</b><br>N/A                           | <b>DATE</b><br>2/27/2012            |   |

# 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: NONE Date: 2/23/2012  
 Test conducted by: SCOTT SIMS / NEWFIELD  
 Others present: NONE

|   |                                   |                  |
|---|-----------------------------------|------------------|
| Well Name: <u>GREATER BOUNDARY 15-19-8-17</u>   | Type: ER SWD                      | Status: AC TA UC |
| Field: <u>MONUMENT BUTTE</u>  |                                   |                  |
| Location: <u>SW/SE</u> Sec: <u>19</u> T <u>8</u> N <u>(S)</u> R <u>17</u> E <u>(W)</u> County: <u>DUCHESNE</u> State: <u>UT</u> |                                   |                  |
| Operator: <u>SCOTT SIMS</u>   |                                   |                  |
| Last MIT: <u>/ /</u>  | Maximum Allowable Pressure: _____ | PSIG             |

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

Pre-test casing/tubing annulus pressure: N/A psig

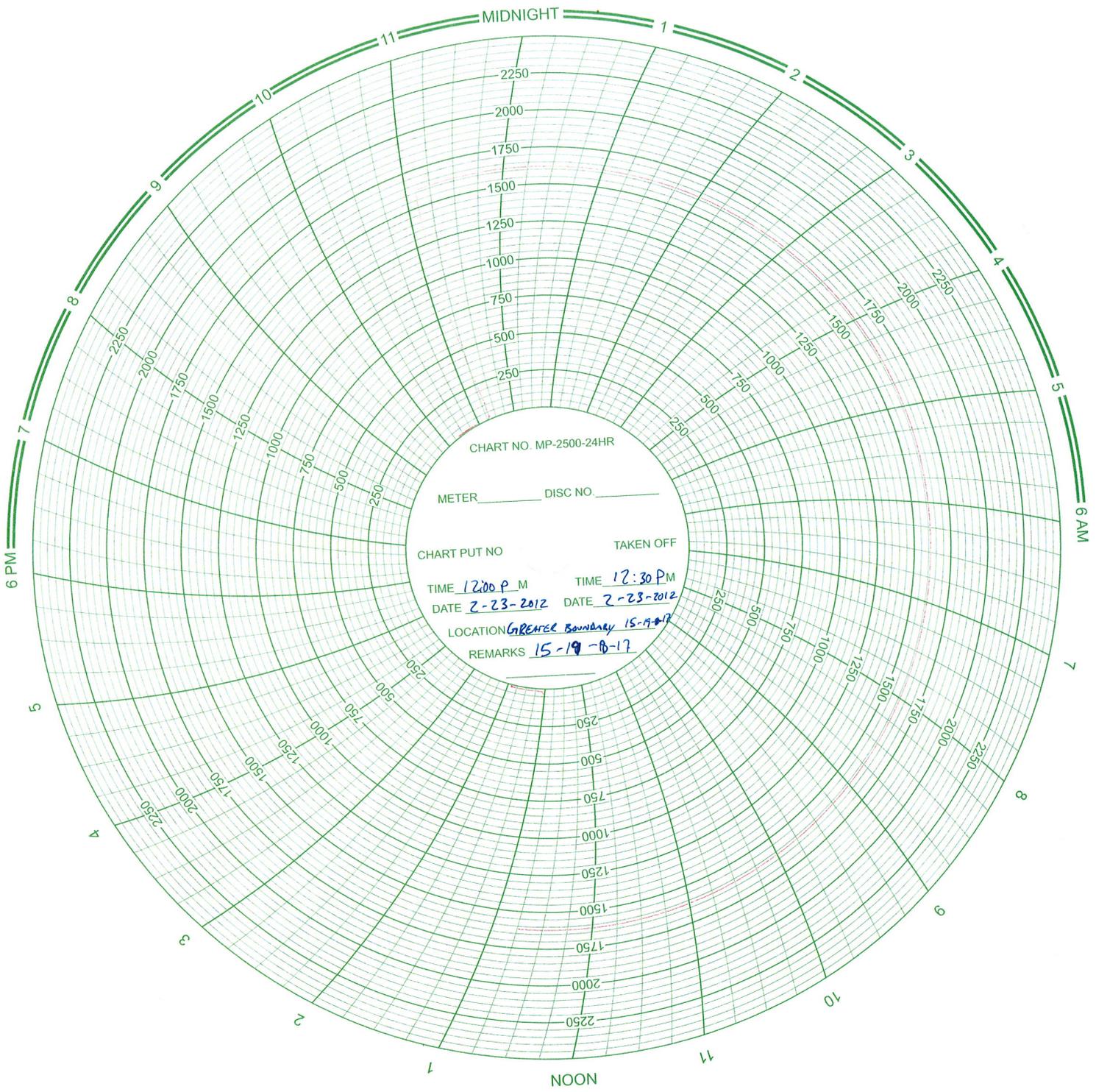
| MIT DATA TABLE                          | Test #1  | Test #2   | Test #3   |
|---|--|---|---|
| <b>TUBING PRESSURE</b>                  |  |   |   |
| Initial Pressure                        | <u>200</u> psig  | psig  | psig  |
| End of test pressure                    | <u>200</u> psig  | psig  | psig  |
| <b>CASING / TUBING ANNULUS PRESSURE</b> |  |   |   |
| 0 minutes                               | <u>1620</u> psig   | psig  | psig  |
| 5 minutes                               | <u>1620</u> psig   | psig  | psig  |
| 10 minutes                              | <u>1620</u> psig   | psig  | psig  |
| 15 minutes                              | <u>1620</u> psig   | psig  | psig  |
| 20 minutes                              | <u>1620</u> psig   | psig  | psig  |
| 25 minutes                              | <u>1620</u> psig   | psig  | psig  |
| 30 minutes                              | <u>1620</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 15-19-8-17****12/1/2011 To 4/29/2012****2/17/2012 Day: 1****Recompletion**

NC #3 on 2/17/2012 - MIRUSU, TOH w/ tbg breaking collars. - Road rig to location. MIRUSU. X- over to tbg eq. Pump 30 bbls water down csg @ 250. Drop std valve & attempt to pressure test tbg. No luck. RU sandline to push std valve to SN. Attempt to pressure test tbg. No luck. ND wellhead. Release TA. NU BOP. RU rig floor. TOH breaking collars & applying liquid o-ring w/ 138- jts 2 7/8. LD 36- jts 2 7/8, TA, 2- jts 2 7/8, SN, bleed nipple, 2- jts 2 7/8, NC. Found hole in tbg in jt # 117. Used 70 bbls water to keep tbg clean. SDFD. - Road rig to location. MIRUSU. X- over to tbg eq. Pump 30 bbls water down csg @ 250. Drop std valve & attempt to pressure test tbg. No luck. RU sandline to push std valve to SN. Attempt to pressure test tbg. No luck. ND wellhead. Release TA. NU BOP. RU rig floor. TOH breaking collars & applying liquid o-ring w/ 138- jts 2 7/8. LD 36- jts 2 7/8, TA, 2- jts 2 7/8, SN, bleed nipple, 2- jts 2 7/8, NC. Found hole in tbg in jt # 117. Used 70 bbls water to keep tbg clean. SDFD. - RU Extreme wireline to perforate CP1- 6105'-6108'. RD Extreme wireline. PU TIH w/ tandem plg & pkr & 196- jts 2 7/8 N-80. Set Plg @ 6150'. Set Pkr @ 6081'. EOT @ 6091'. Fill tbg w/ 20 bbls water. Pressure tbg to 5000 psi w/ hot oil truck. Zone will not break. Release Pkr. SDFD. - RU Extreme wireline to perforate CP1- 6105'-6108'. RD Extreme wireline. PU TIH w/ tandem plg & pkr & 196- jts 2 7/8 N-80. Set Plg @ 6150'. Set Pkr @ 6081'. EOT @ 6091'. Fill tbg w/ 20 bbls water. Pressure tbg to 5000 psi w/ hot oil truck. Zone will not break. Release Pkr. SDFD. - Road rig to location. MIRUSU. X- over to tbg eq. Pump 30 bbls water down csg @ 250. Drop std valve & attempt to pressure test tbg. No luck. RU sandline to push std valve to SN. Attempt to pressure test tbg. No luck. ND wellhead. Release TA. NU BOP. RU rig floor. TOH breaking collars & applying liquid o-ring w/ 138- jts 2 7/8. LD 36- jts 2 7/8, TA, 2- jts 2 7/8, SN, bleed nipple, 2- jts 2 7/8, NC. Found hole in tbg in jt # 117. Used 70 bbls water to keep tbg clean. SDFD. - Road rig to location. MIRUSU. X- over to tbg eq. Pump 30 bbls water down csg @ 250. Drop std valve & attempt to pressure test tbg. No luck. RU sandline to push std valve to SN. Attempt to pressure test tbg. No luck. ND wellhead. Release TA. NU BOP. RU rig floor. TOH breaking collars & applying liquid o-ring w/ 138- jts 2 7/8. LD 36- jts 2 7/8, TA, 2- jts 2 7/8, SN, bleed nipple, 2- jts 2 7/8, NC. Found hole in tbg in jt # 117. Used 70 bbls water to keep tbg clean. SDFD. - RU Extreme wireline to perforate CP1- 6105'-6108'. RD Extreme wireline. PU TIH w/ tandem plg & pkr & 196- jts 2 7/8 N-80. Set Plg @ 6150'. Set Pkr @ 6081'. EOT @ 6091'. Fill tbg w/ 20 bbls water. Pressure tbg to 5000 psi w/ hot oil truck. Zone will not break. Release Pkr. SDFD. - RU Extreme wireline to perforate CP1- 6105'-6108'. RD Extreme wireline. PU TIH w/ tandem plg & pkr & 196- jts 2 7/8 N-80. Set Plg @ 6150'. Set Pkr @ 6081'. EOT @ 6091'. Fill tbg w/ 20 bbls water. Pressure tbg to 5000 psi w/ hot oil truck. Zone will not break. Release Pkr. SDFD. **Finalized**

**Daily Cost:** \$0**Cumulative Cost:** \$13,276

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**2/20/2012 Day: 3****Recompletion**

NC #3 on 2/20/2012 - Frac well & flow back. - RU BJ to frac CP1- 6105'-6108'. RD BJ. Open well up to flow. Flowed back 110 bbls fluid. Release Pkr & CWC. LD 4- jts 2 7/8. SDFD - RU BJ to frac CP1- 6105'-6108'. RD BJ. Open well up to flow. Flowed back 110 bbls fluid. Release Pkr & CWC. LD 4- jts 2 7/8. SDFD

**Daily Cost:** \$0**Cumulative Cost:** \$54,870

**2/21/2012 Day: 4**

**Recompletion**

NC #3 on 2/21/2012 - LD N-80 tbg, TIH w/ injection tbg. - TIH w/ 6- jts 2 7/8. Tag fill @ 6130'. Clean out fill to Plg @ 6150'. CWC. TOH & LD w/ 196- jts 2 7/8, Pkr & Plg. PU TIH w/ Arrowset Pkr, SN, 138- jts 2 7/8. Pump 10 bbls water down & drop std valve. Pressure test tbg to 3000 psi w/ 50 bbls water. Leave pressure on tbg. SDFD. - TIH w/ 6- jts 2 7/8. Tag fill @ 6130'. Clean out fill to Plg @ 6150'. CWC. TOH & LD w/ 196- jts 2 7/8, Pkr & Plg. PU TIH w/ Arrowset Pkr, SN, 138- jts 2 7/8. Pump 10 bbls water down & drop std valve. Pressure test tbg to 3000 psi w/ 50 bbls water. Leave pressure on tbg. SDFD.

**Daily Cost:** \$0

**Cumulative Cost:** \$92,998

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**2/22/2012 Day: 5**

**Recompletion**

NC #3 on 2/22/2012 - Pressure test tbg & csg. - Check pressure on tbg. Tbg tested solid. RU sandline to retrieve std valve. RD sandline. RD rig floor. ND BOP. NU wellhead. Pump 60 bbls fresh water w/ pkr fluid down csg. ND wellhead. Set Pkr w/ 15000 tension. NU wellhead. Pressure test csg & Pkr to 1300 psi for 1 hr. Good test. X- over to rod eq. RDMOSU. READY FOR MIT!! - Check pressure on tbg. Tbg tested solid. RU sandline to retrieve std valve. RD sandline. RD rig floor. ND BOP. NU wellhead. Pump 60 bbls fresh water w/ pkr fluid down csg. ND wellhead. Set Pkr w/ 15000 tension. NU wellhead. Pressure test csg & Pkr to 1300 psi for 1 hr. Good test. X- over to rod eq. RDMOSU. READY FOR MIT!!

**Daily Cost:** \$0

**Cumulative Cost:** \$99,620

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**2/24/2012 Day: 6**

**Conversion**

Rigless on 2/24/2012 - Conduct initial MIT - On 02/21/2012 Jason Deardorff with the EPA was contacted concerning the initial MIT on the above listed well. On 02/23/2012 the casing was pressured up to 1620 psig and charted for 30 minutes with no pressure loss. The well was not injecting during the test. The tubing pressure was 200 psig during the test. There was not an EPA representative available to witness the test. EPA# UT20702-09380 - On 02/21/2012 Jason Deardorff with the EPA was contacted concerning the initial MIT on the above listed well. On 02/23/2012 the casing was pressured up to 1620 psig and charted for 30 minutes with no pressure loss. The well was not injecting during the test. The tubing pressure was 200 psig during the test. There was not an EPA representative available to witness the test. EPA# UT20702-09380 **Finalized**

**Daily Cost:** \$0

**Cumulative Cost:** \$131,440

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



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
REGION 8

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

APR 10 2012

Ref: 8P-W-UIC

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

RECEIVED

APR 18 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 UT20702-09380  
Well: Greater Boundary Federal 15-19-8-17  
SWSE Sec. 19-T8S-R17E  
Duchesne County, Utah  
API No.: 43-013-33732

Dear Mr. Durfey:

The U.S. Environmental Protection Agency Region 8 has received Newfield Production Company's (Newfield) February 27, 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 UT20702-09380.

As of the date of this letter, Newfield is authorized to commence injection into the Greater Boundary Federal 15-19-8-17 well at a Maximum Allowable Injection Pressure (MAIP) of 1,335 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

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 UT20702-09380.

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

Sincerely,



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

cc: Uintah & Ouray Business Committee:

Irene Cuch, Chairman  
Ronald Wopsoch, Vice-Chairman  
Richard Jenks, Jr., Councilman  
Frances Poowegup, Councilwoman  
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



|  |               |
|--|---------------|
| <b>STATE OF UTAH</b><br>DEPARTMENT OF NATURAL RESOURCES<br>DIVISION OF OIL, GAS, AND MINING  | <b>FORM 9</b> |
| <b>5. LEASE DESIGNATION AND SERIAL NUMBER:</b><br>UTU-76954  |               |
| <b>SUNDRY NOTICES AND REPORTS ON WELLS</b>   |               |
| Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals. |               |
| <b>6. IF INDIAN, ALLOTTEE OR TRIBE NAME:</b>   |               |
| <b>7. UNIT or CA AGREEMENT NAME:</b><br>GMBU (GRRV)  |               |
| <b>1. TYPE OF WELL</b><br>Water Injection Well   |               |
| <b>8. WELL NAME and NUMBER:</b><br>GB II FED 15-19-8-17  |               |
| <b>2. NAME OF OPERATOR:</b><br>NEWFIELD PRODUCTION COMPANY   |               |
| <b>9. API NUMBER:</b><br>43013337320000  |               |
| <b>3. ADDRESS OF OPERATOR:</b><br>Rt 3 Box 3630 , Myton, UT, 84052   |               |
| <b>PHONE NUMBER:</b><br>435 646-4825 Ext   |               |
| <b>9. FIELD and POOL or WILDCAT:</b><br>MONUMENT BUTTE   |               |
| <b>4. LOCATION OF WELL</b><br><b>FOOTAGES AT SURFACE:</b><br>0543 FSL 1952 FEL<br><b>QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:</b><br>Qtr/Qtr: SWSE Section: 19 Township: 08.0S Range: 17.0E Meridian: S                                      |               |
| <b>COUNTY:</b><br>DUCHESNE   |               |
| <b>STATE:</b><br>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<br>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<br>Date of Work Completion:<br>4/16/2012 | <input type="checkbox"/> CHANGE TO PREVIOUS PLANS      | <input type="checkbox"/> CHANGE TUBING                  | <input type="checkbox"/> CHANGE WELL NAME               |
| <input type="checkbox"/> SPUD REPORT<br>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<br>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 12:05 PM on 04/16/2012. EPA # UT20702-09380

**Accepted by the  
 Utah Division of  
 Oil, Gas and Mining  
 FOR RECORD ONLY  
 May 03, 2012**

|   |                                     |   |
|---|-------------------------------------|---|
| <b>NAME (PLEASE PRINT)</b><br>Lucy Chavez-Naupoto | <b>PHONE NUMBER</b><br>435 646-4874 | <b>TITLE</b><br>Water Services Technician |
| <b>SIGNATURE</b><br>N/A                           | <b>DATE</b><br>4/18/2012            |   |

# GB Fed 15-19-8-17

Spud Date: 11/22/2008  
 Put on Production: 1/10/2009  
 GL: 5353' KB: 5365'

## SURFACE CASING

CSG SIZE: 8-5/8"  
 GRADE: J-55  
 WEIGHT: 24#  
 LENGTH: 7 jts (310.65')  
 DEPTH LANDED: 324.50' KB  
 HOLE SIZE: 12-1/4"  
 CEMENT DATA: 160 sv class 'g'

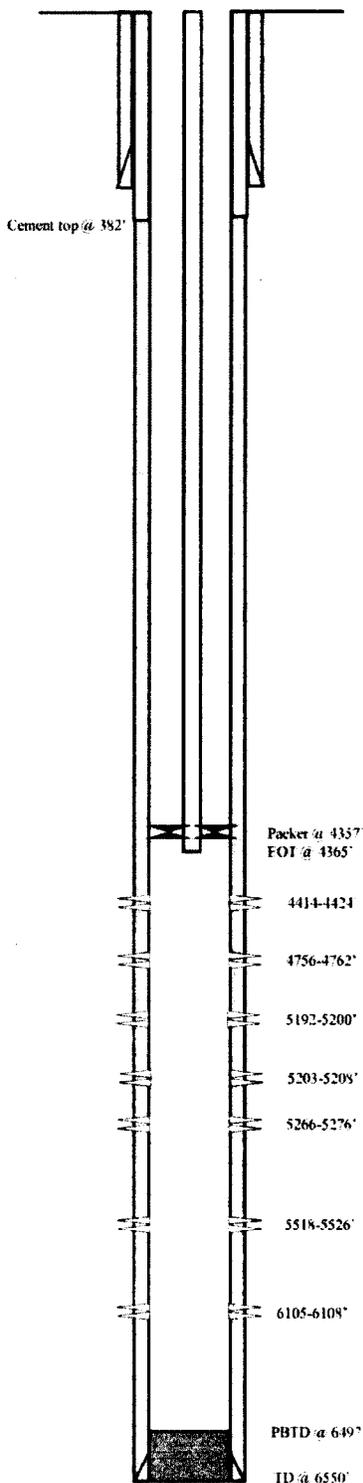
## PRODUCTION CASING

CSG SIZE: 5-1/2"  
 GRADE: J-55  
 WEIGHT: 15.5#  
 LENGTH: 173 jts (6762.63')  
 DEPTH LANDED: 6538.27'  
 HOLE SIZE: 7-7/8"  
 CEMENT DATA: 300 sv primite and 400 sv 50-50 poz  
 CEMENT TOP AT: 382'

## TUBING

SIZE GRADE/WT: 2-7/8" J-55 6.5#  
 NO OF JOINTS: 138 jts (4344.2')  
 SEATING NIPPLE: 2-7/8" (1.10')  
 SN LANDED AT: 4356.2' KB  
 PACKER @ 4357.3'  
 TOTAL STRING LENGTH: EOT @ 4365'

## Injection Wellbore Diagram



## FRAC JOB

1/1/09 5518-5526' Frac B1 sds as follows:  
 39,376# 20/40 sand in 453 bbls of Lightning 17 fluid. Treated w/ ave  
 pressure of 2200 psi @ ave rate of 23.2 BPM. ISIP 2080 psi. Actual flush:  
 5011 gals.

1/1/09 5192-5276' Frac D1/D2 sds as follows:  
 55,403# 20/40 sand in 510 bbls of Lightning 17 fluid. Treated w/ ave  
 pressure of 1415 psi w/ ave rate of 23.1 BPM. ISIP 1725 psi. actual flush:  
 4657 gals.

1/1/09 4756-4762' Frac GB6 sds as follows:  
 w/ 24,415# 20/40 sand in 453 bbls of Lightning 17 fluid. Treated w/ ave  
 pressure of 2200 psi @ ave rate of 22.8 BPM. ISIP 2194 psi. Actual flush:  
 4246 gals.

1/2/09 4414-4424' Frac GG-P sds as follows:  
 w/ 43,655# 20/40 sand in 401 bbls of Lightning 17 fluid. Treated w/ ave  
 pressure of 1658 psi w/ ave rate of 23.0 BPM. ISIP 1538 psi. Actual flush:  
 3947 gals.

02/17/12 6105-6108' Frac CP1 sands as follows: 13395# 20/40  
 sand in 217 bbls Lightning 17 fluid.

02/22/12 Convert to Injection Well

02/23/12 Conversion MIT Finalized - update the  
 detail

## PERFORATION RECORD

|         |            |        |          |
|---------|------------|--------|----------|
| 1/2/09  | 4414-4424' | 4 JSPF | 40 holes |
| 1/2/09  | 4756-4762' | 4 JSPF | 24 holes |
| 1/1/09  | 5192-5200' | 4 JSPF | 32 holes |
| 1/1/09  | 5203-5208' | 4 JSPF | 20 holes |
| 1/1/09  | 5266-5276' | 4 JSPF | 40 holes |
| 1/1/09  | 5518-5526' | 4 JSPF | 32 holes |
| 2/17/12 | 6105-6108' | 3 JSPF | 9 holes  |

**NEWFIELD**

**GB Fed 15-19-8-17**

543' FSL & 1952' FEL

SW/SE Section 19-T8S-R17E

Duchesne Co. Utah

API # 43-013-33732; Lease # UTU-76954