

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

<b>APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK</b>		5. LEASE DESIGNATION AND SERIAL NO. <b>UTU-76241</b>	
		6. IF INDIAN, ALLOTTEE OR TRIBE NAME <b>N/A</b>	
1a. TYPE OF WORK <b>DRILL</b> <input checked="" type="checkbox"/> <b>DEEPEN</b> <input type="checkbox"/>		7. UNIT AGREEMENT NAME <b>Greater Boundary</b>	
1b. TYPE OF WELL OIL WELL <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <input type="checkbox"/> SINGLE ZONE <input type="checkbox"/> MULTIPLE ZONE <input checked="" type="checkbox"/>		8. FARM OR LEASE NAME WELL NO. <b>11-27-8-17</b>	
2. NAME OF OPERATOR <b>Inland Production Company</b>		9. API WELL NO.	
3. ADDRESS OF OPERATOR <b>410 - 17th Street, Suite 700, Denver, CO 80202</b> Phone: <b>(303) 893-0102</b>		10. FIELD AND POOL OR WILDCAT <b>Monument Butte</b>	
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements. *) At Surface <b>NE/SW 1935' FWL 1841' FSL</b> <b>4437664 N</b> At proposed Prod. Zone <b>58 5723 E</b>		11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA <b>NE/SW Sec. 27, T8S, R17E</b>	
14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE* <b>Approximately 15.7 miles southeast of Myton, Utah</b>		12. County <b>Duchesne</b>	13. STATE <b>UT</b>
15. DISTANCE FROM PROPOSED* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also t <b>Approx. 3345' f/lse line &amp; 3439' f/unit line</b>	16. NO. OF ACRES IN LEASE <b>4,644</b>	17. NO. OF ACRES ASSIGNED TO THIS WELL <b>40</b>	
18. DISTANCE FROM PROPOSED LOCATION* TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR ON THIS LEASE, FT. <b>Approx. 1006'</b>	19. PROPOSED DEPTH <b>6500'</b>	20. ROTARY OR CABLE TOOLS <b>Rotary</b>	
21. ELEVATIONS (Show whether DF, RT, GR, etc.) <b>5079.5' GR</b>		22. APPROX. DATE WORK WILL START* <b>3rd Quarter 2001</b>	

23. **PROPOSED CASING AND CEMENTING PROGRAM**

SIZE OF HOLE	SIZE OF CASING	WEIGHT/FOOT	SETTING DEPTH	QUANTITY OF CEMENT
<b>Refer to Monument Butte Field SOP's Drilling Program/Casing Design</b>				

**Inland Production Company proposes to drill this well in accordance with the attached exhibits.**

**The Conditions of Approval are also attached.**

**Federal Approval of this  
Action is Necessary**

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM : If proposal is to deepen or plug back, give data on present productive zone and proposed new productive zone.  
If proposal is to drill or deepen directionally, give pertinent data on subsurface locations and measured and true vertical depths. Give blowout preventer program, if any.

24. SIGNED *Bob Meclun* TITLE **Operations Manager** DATE **April 20, 2001**

(This space for Federal or State office use)

PERMIT NO **43-013-32243** APPROVAL DATE \_\_\_\_\_

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

CONDITIONS OF APPROVAL, IF ANY:

APPROVED BY *Bradley G Hill* TITLE **BRADLEY G. HILL  
RECLAMATION SPECIALIST III** **4/30/01**

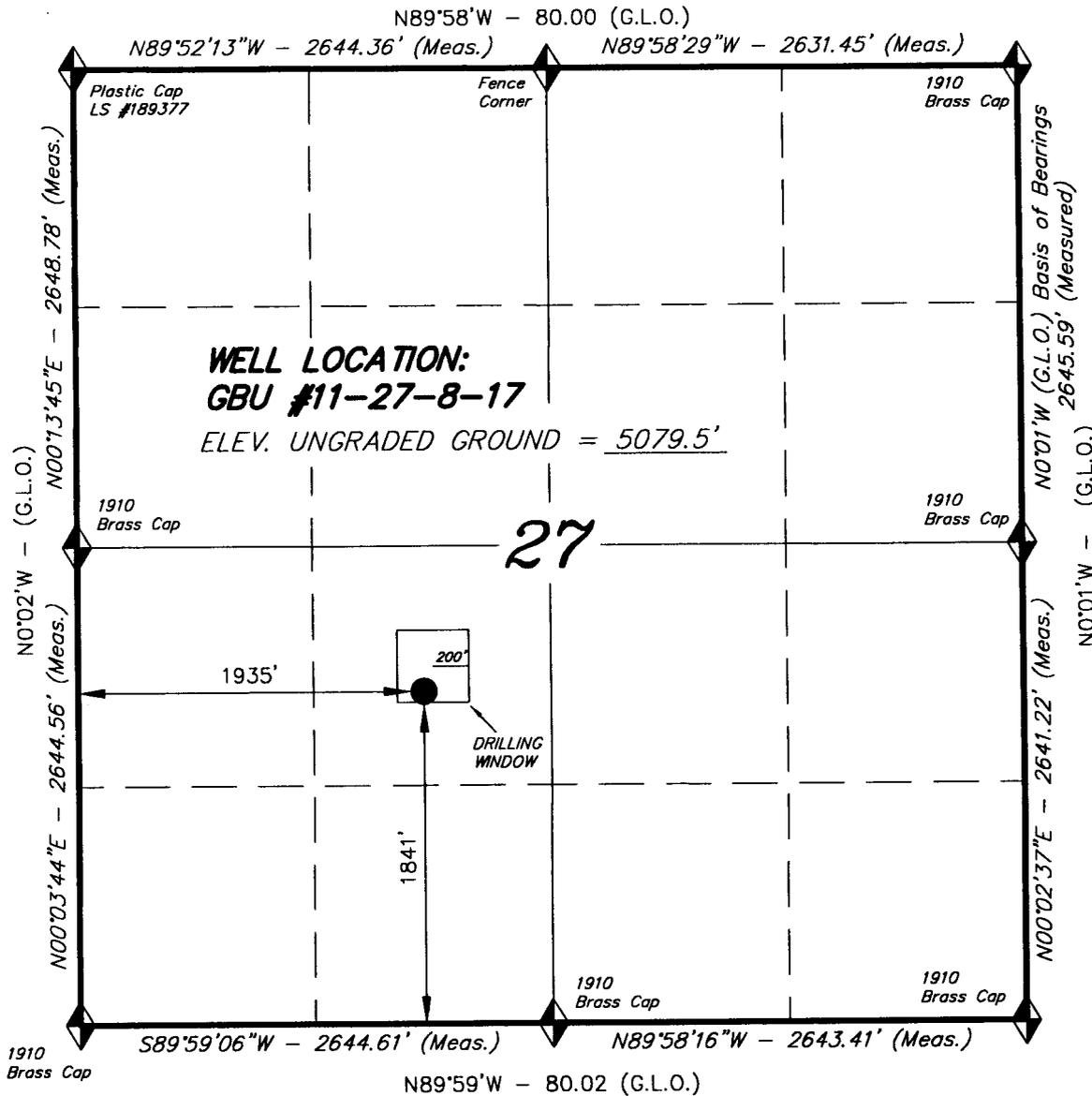
**\*See Instructions On Reverse Side**

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.

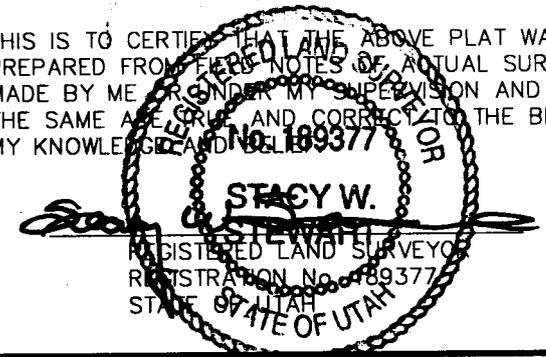
# T8S, R17E, S.L.B.&M.

## INLAND PRODUCTION COMPANY

WELL LOCATION, GREATER BOUNDARY UNIT #11-27-8-17, LOCATED AS SHOWN IN THE NE 1/4 SW 1/4 OF SECTION 27, T8S, R17E, S.L.B.&M. DUCHESNE COUNTY, UTAH.



THIS IS TO CERTIFY THAT THE ABOVE PLAT WAS PREPARED FROM FIELD NOTES OF ACTUAL SURVEYS MADE BY ME OR UNDER MY SUPERVISION AND THAT THE SAME ARE CORRECT AND ACCURATE TO THE BEST OF MY KNOWLEDGE AND BELIEF.



**TRI STATE LAND SURVEYING & CONSULTING**  
 38 WEST 100 NORTH - VERNAL, UTAH 84078  
 (435) 781-2501

◆ = SECTION CORNERS LOCATED

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

SCALE: 1" = 1000'	SURVEYED BY: D.J.S.
DATE: 3-28-01	WEATHER: COLD
NOTES:	FILE #

# United States Department of the Interior

## BUREAU OF LAND MANAGEMENT

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

IN REPLY REFER TO:  
3160  
(UT-922)

April 30, 2001

### Memorandum

To: Assistant District Manager Minerals, Vernal District  
From: Michael Coulthard, Petroleum Engineer  
Subject: 2001 Plan of Development Greater Boundary  
Unit Duchesne County, Utah.

Pursuant to email between Lisha Cordova, Division of Oil, Gas and Mining, and Mickey Coulthard, Utah State Office, Bureau of Land Management. The following wells are planned for calendar year 2001 within the Greater Boundary Unit, Duchesne County, Utah.

API #	WELL NAME	LOCATION
43-013-32243	GBU 11-27-8-17	Sec. 27, T8S, R17E 1841 FSL 1935 FWL
43-013-32244	GBU 13-27-8-17	Sec. 27, T8S, R17E 0794 FSL 0518 FWL
43-013-32245	GBU 14-27-8-17	Sec. 27, T8S, R17E 0835 FSL 2029 FWL
43-013-32246	GBU 15-27-8-17	Sec. 27, T8S, R17E 0539 FSL 1753 FEL
43-013-32247	GBU 16-27-8-17	Sec. 27, T8S, R17E 0350 FSL 0668 FEL

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

/s/ Michael L. Coulthard

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

Mcoulthard:mc:4-30-1



April 20, 2001

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

RE: Application for Permit to Drill Well No: 11-27-8-17, 13-27-8-17,  
14-27-8-17, 15-27-8-17, and 16-27-8-17.

Dear Brad:

Enclosed find APD's on the above referenced wells. If you have any questions, feel free to give either Brad or myself a call.

Sincerely,

A handwritten signature in cursive script that reads "Mandie Crozier".

Mandie Crozier  
Permit Clerk

mc  
enclosures

cc: Jon Holst  
Denver office well file  
Pleasant Valley well file

CONDITIONS OF APPROVAL  
APPLICATION FOR PERMIT TO DRILL

Company/Operator: Inland Production Company

Well Name & Number: Greater Boundary 11-27-8-17

API Number:

Lease Number: UTU-76241

**GENERAL**

Access well location from the northwest, off the access road for the proposed 13-27-8-17 well location. A 12-mil synthetic liner will be required for the reserve pit.

**CULTURAL RESOURCES**

See *CONDITIONS OF APPROVAL FOR INLAND RESOURCES MONUMENT BUTTE-MYTON BENCH WATERFLOOD ENVIRONMENTAL ASSESSMENT DUCHESNE AND Uintah COUNTIES, UTAH EA NUMBER 1996-61.*

**PALEONTOLOGICAL RESOURCES**

See *CONDITIONS OF APPROVAL FOR INLAND RESOURCES MONUMENT BUTTE-MYTON BENCH WATERFLOOD ENVIRONMENTAL ASSESSMENT DUCHESNE AND Uintah COUNTIES, UTAH EA NUMBER 1996-61.*

**SOILS, WATERSHEDS, AND FLOODPLAINS**

See *CONDITIONS OF APPROVAL FOR INLAND RESOURCES MONUMENT BUTTE-MYTON BENCH WATERFLOOD ENVIRONMENTAL ASSESSMENT DUCHESNE AND Uintah COUNTIES, UTAH EA NUMBER 1996-61.*

**WILDLIFE AND FISHERIES**

See *CONDITIONS OF APPROVAL FOR INLAND RESOURCES MONUMENT BUTTE-MYTON BENCH WATERFLOOD ENVIRONMENTAL ASSESSMENT DUCHESNE AND Uintah COUNTIES, UTAH EA NUMBER 1996-61.*

**TREATENED, ENDAGERED, AND OTHER SENSITIVE SPECIES**

See *CONDITIONS OF APPROVAL FOR INLAND RESOURCES MONUMENT BUTTE-MYTON BENCH WATERFLOOD ENVIRONMENTAL ASSESSMENT DUCHESNE AND Uintah COUNTIES, UTAH EA NUMBER 1996-61.*

## OTHER

Installation of the surface gas pipeline and any subsequent buried gas or water pipelines will follow the conditions of approval outlined above.

Except as specified in the APD, the installation of the surface gas line and any subsequent buried pipelines will follow the edge of the existing roadways without interfering with the normal travel and maintenance of the roadway.

The installation of any buried pipelines will disturb as little surface as possible and will not exceed 60 feet in width. Reclamation of the water line area will be completed within 10 days after installation. The surface will be recontoured to natural or near natural contours. Reseeding will be with the same seed mixture specified for reclamation of the well site. The interface of the buried line disturbance area and the edge of any adjacent access roads will be constructed with a borrow ditch and road berm to minimize vehicular travel along the water line route.

INLAND PRODUCTION COMPANY  
GREATER BOUNDARY #11-27-8-17  
NE/SW SECTION 27, 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' – 1640'
Green River	1640'
Wasatch	6500'

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

Green River Formation 1640' – 6500' - 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 2000 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.

INLAND PRODUCTION COMPANY  
GREATER BOUNDARY #11-27-8-17  
NE/SW SECTION 27, 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 Inland Production Company well location site Greater Boundary #11-27-8-17 located in the NE 1/4 SW1/4 Section 27, T8S, R17E, Duchesne County, Utah:

Proceed southwesterly out of Myton, Utah along Highway 40 - 1.6 miles ± to the junction of this highway and UT State Hwy 53; proceed southerly along Hwy 53 - 12.1 miles ± to an existing to the northeast. Proceed northeasterly 2.0 miles ± the beginning of the proposed access road. Proceed northeasterly along the proposed access road 3033' to the proposed well location.

2. PLANNED ACCESS ROAD

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

3. LOCATION OF EXISTING WELLS

Refer to Exhibit "B".

4. LOCATION OF EXISTING AND/OR PROPOSED FACILITIES

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

5. LOCATION AND TYPE OF WATER SUPPLY

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

6. SOURCE OF CONSTRUCTION MATERIALS

Please refer to the Monument Butte Field SOP.

7. METHODS FOR HANDLING WASTE DISPOSAL

Please refer to the Monument Butte Field SOP.

8. ANCILLARY FACILITIES

Please refer to the Monument Butte Field SOP.

9. WELL SITE LAYOUT

The attached Location Layout Diagram describes drill pad cross-sections, cuts and fills, and

locations of the mud tanks, reserve pit, pipe racks, trailer parking, spoil dirt stockpile(s), and surface material stockpile(s).

10. **PLANS FOR RESTORATION OF SURFACE**

Please refer to the Monument Butte Field SOP.

11. **SURFACE OWNERSHIP** - Bureau Of Land Management

12. **OTHER ADDITIONAL INFORMATION**

The Paleontological Resource Survey and the Archaeological Resource Survey for this area were previously completed and are on file at the BLM office.

Inland Production Company requests a 60' ROW for the Greater Boundary #11-27-8-17 to allow for construction of a 6" gas gathering line, and a 3" poly fuel gas line. Both lines will tie in to the existing pipeline infrastructure. **Refer to Topographic Map "C."**

Inland Production Company also requests a 60' ROW be granted for the Greater Boundary #11-27-8-17 to allow for construction of a 3" steel water injection line and a 3" poly water return line. **Refer to Topographic Map "C."**

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

Representative

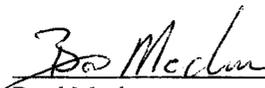
Name: Brad Mecham  
Address: Route #3 Box 3630  
Myton, UT 84052  
Telephone: (435) 646-3721

Certification

Please be advised that INLAND PRODUCTION COMPANY is considered to be the operator of well #11-27-8-17 NW/SE Section 27, Township 8S, Range 17E: Lease UTU-76241 Duchesne County, Utah: and is responsible under the terms and conditions of the lease for the operations conducted upon the leased lands. Bond coverage is provided by Hartford Accident #4488944.

I hereby certify that the proposed drillsite and access route have been inspected, and I am familiar with the conditions which currently exist; that the statements made in this plan are true and correct to the best of my knowledge; and that the work associated with the operations proposed here will be performed by Inland 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.

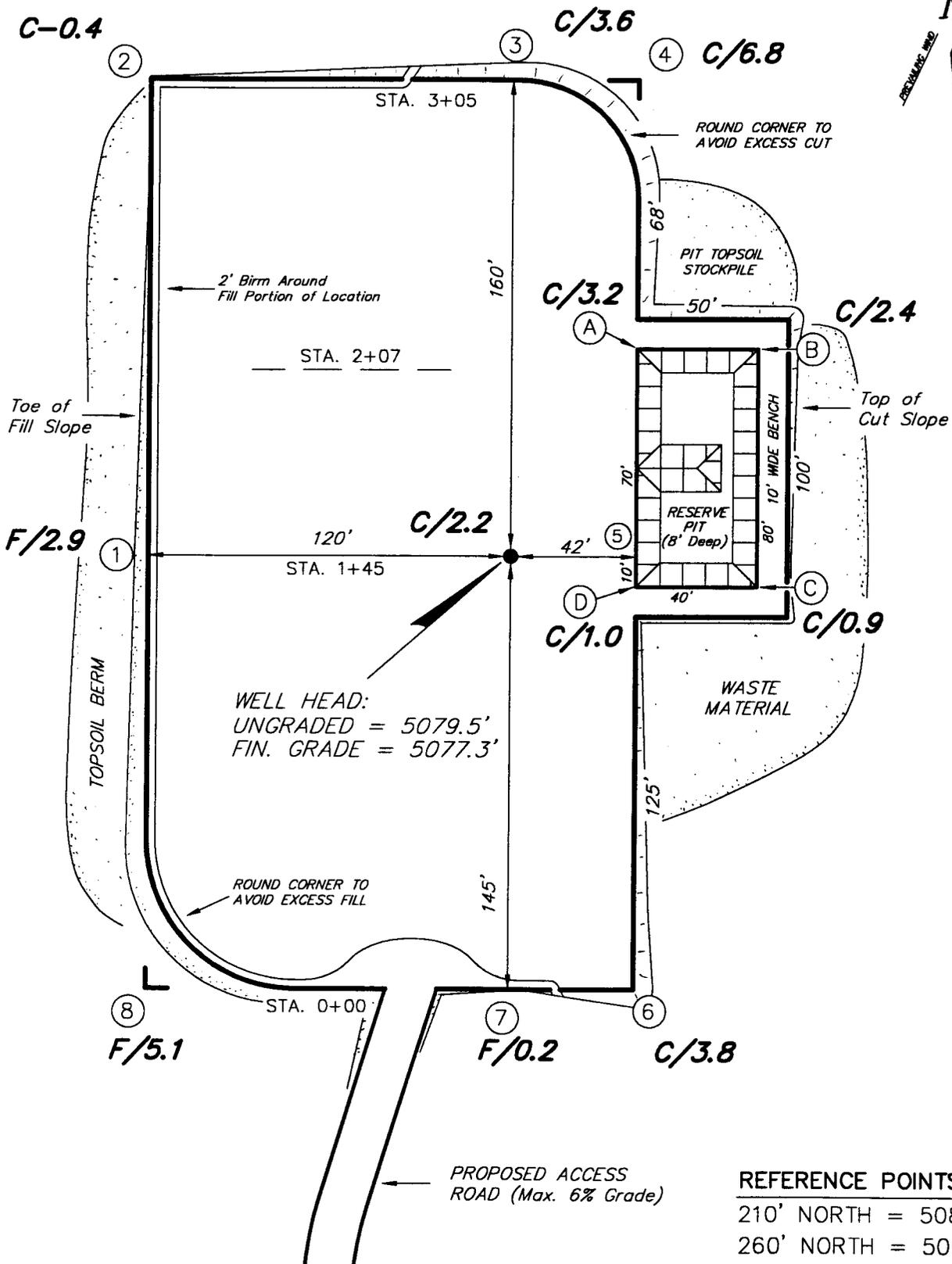
\_\_\_\_\_  
April 20, 2001  
Date

  
\_\_\_\_\_  
Brad Mecham  
Operation Manager

# INLAND PRODUCTION COMPANY

GREATER BOUNDARY UNIT #11-27-8-17

SEC. 27, T8S, R17E, S.L.B.&M.

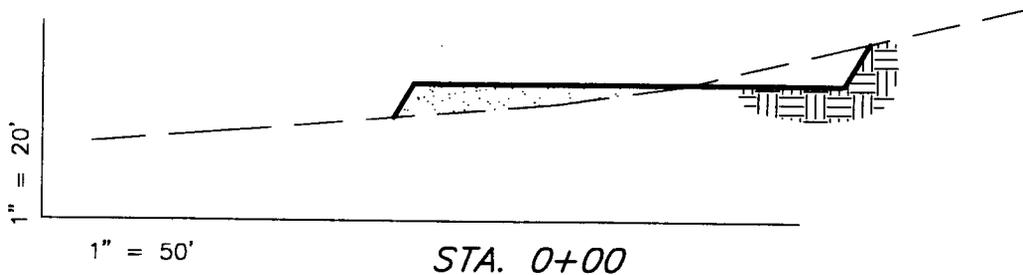
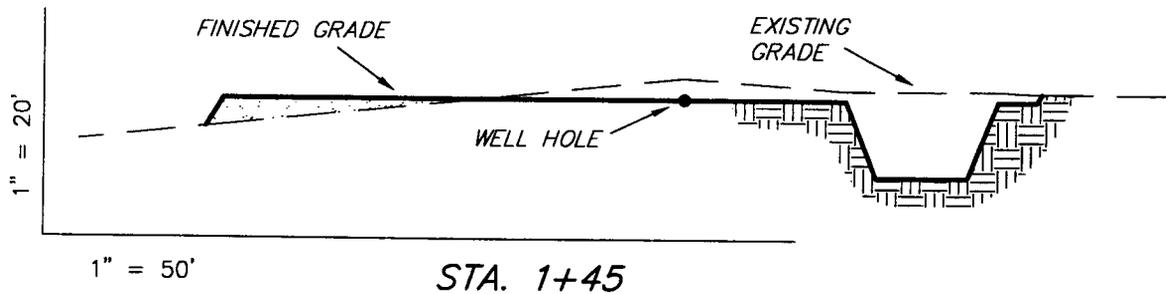
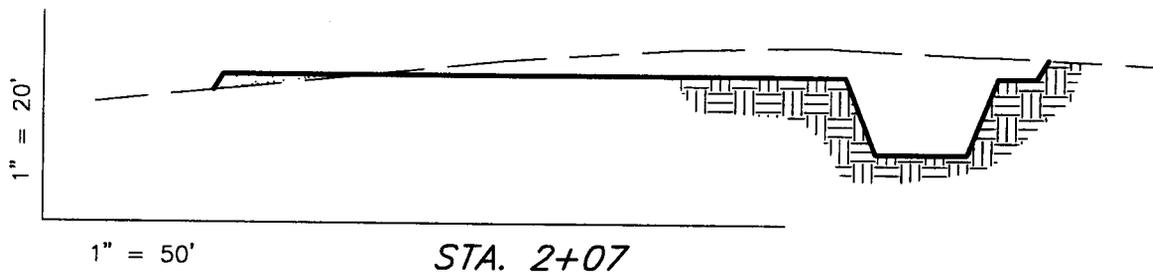
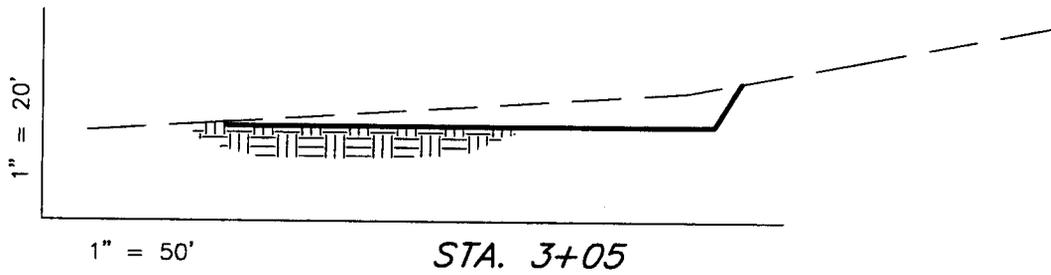


SURVEYED BY: D.J.S.	SCALE: 1" = 50'
DRAWN BY: J.R.S.	DATE: 3-29-01

**Tri State** Land Surveying, Inc. (435) 781-2501  
 38 WEST 100 NORTH VERNAL, UTAH 84078

**INLAND PRODUCTION COMPANY**  
**CROSS SECTIONS**

**GREATER BOUNDARY UNIT #11-27-8-17**



**APPROXIMATE YARDAGES**

- CUT = 1,840 Cu. Yds.
- FILL = 1,840 Cu. Yds.
- PIT = 640 Cu. Yds.
- 6" TOPSOIL = 1,010 Cu. Yds.

SURVEYED BY: D.J.S.

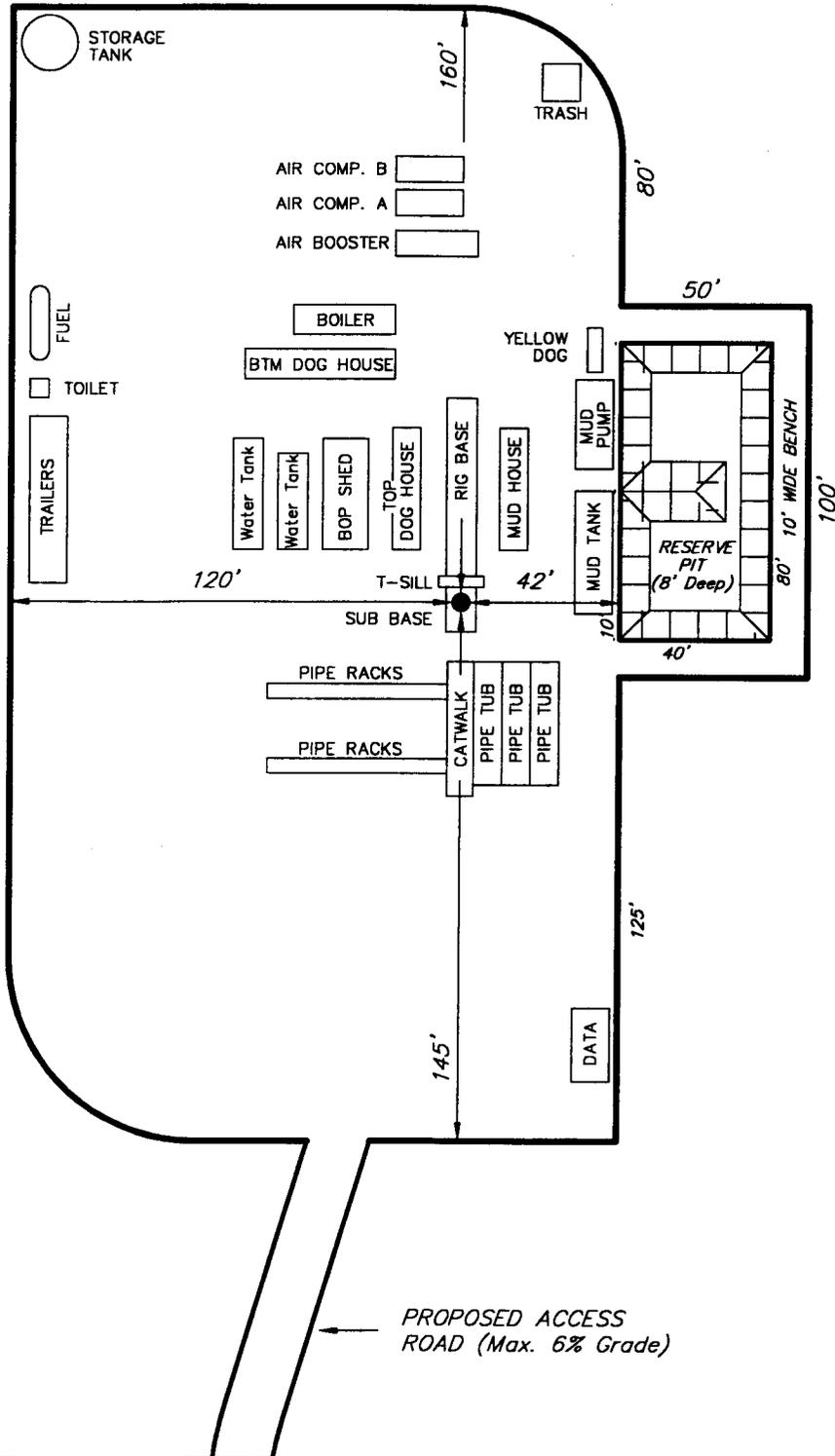
SCALE: 1" = 50'

DRAWN BY: J.R.S.

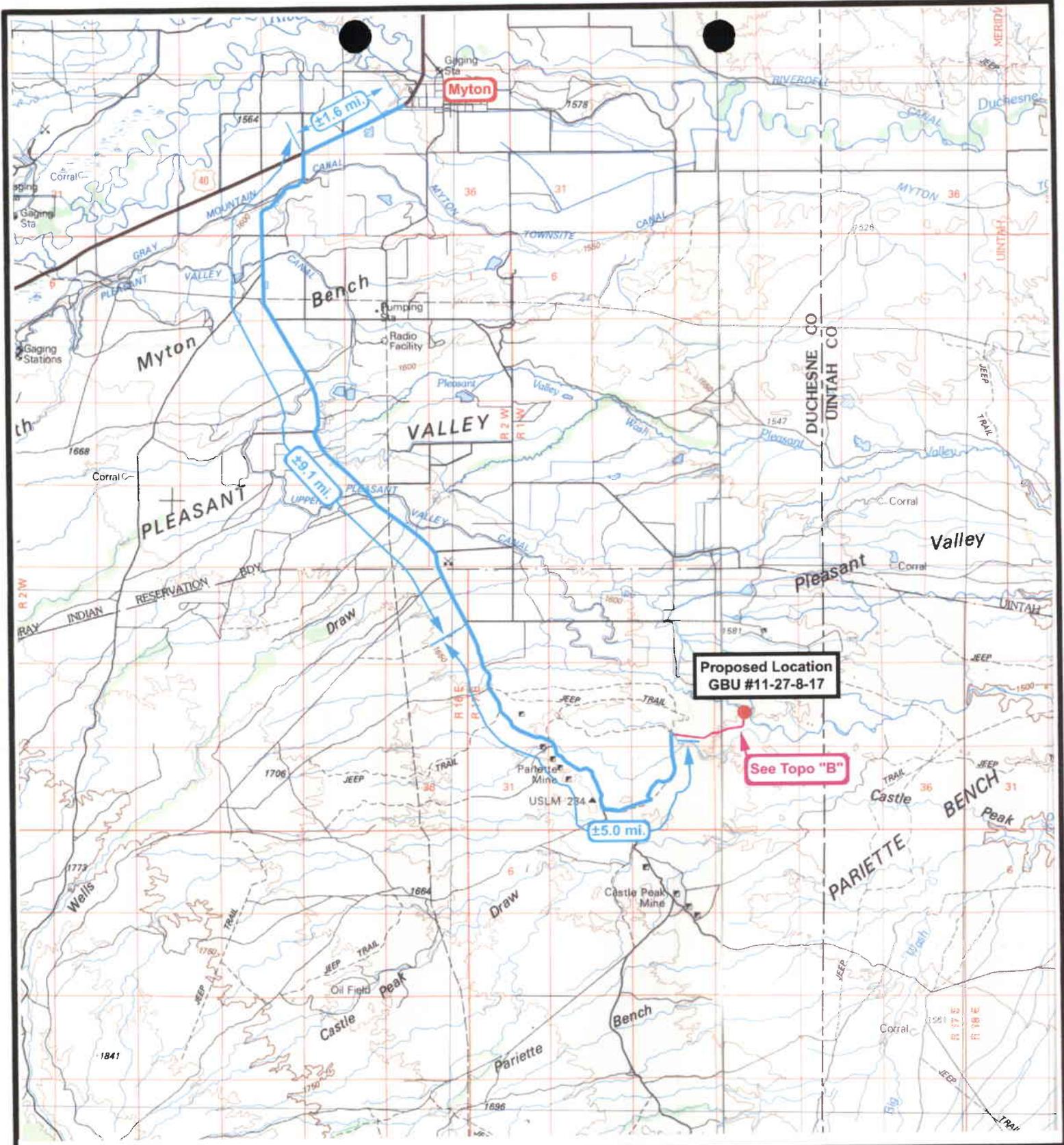
DATE: 3-29-01

**Tri State** (435) 781-2501  
**Land Surveying, Inc.**  
38 WEST 100 NORTH VERNAL, UTAH 84078

**INLAND PRODUCTION COMPANY**  
**TYPICAL RIG LAYOUT**  
**GREATER BOUNDARY UNIT #11-27-8-17**



SURVEYED BY: D.J.S.	SCALE: 1" = 50'	<b>Tri State</b> Land Surveying, Inc. 38 WEST 100 NORTH VERNAL, UTAH 84078 (435) 781-2501
DRAWN BY: J.R.S.	DATE: 3-29-01	



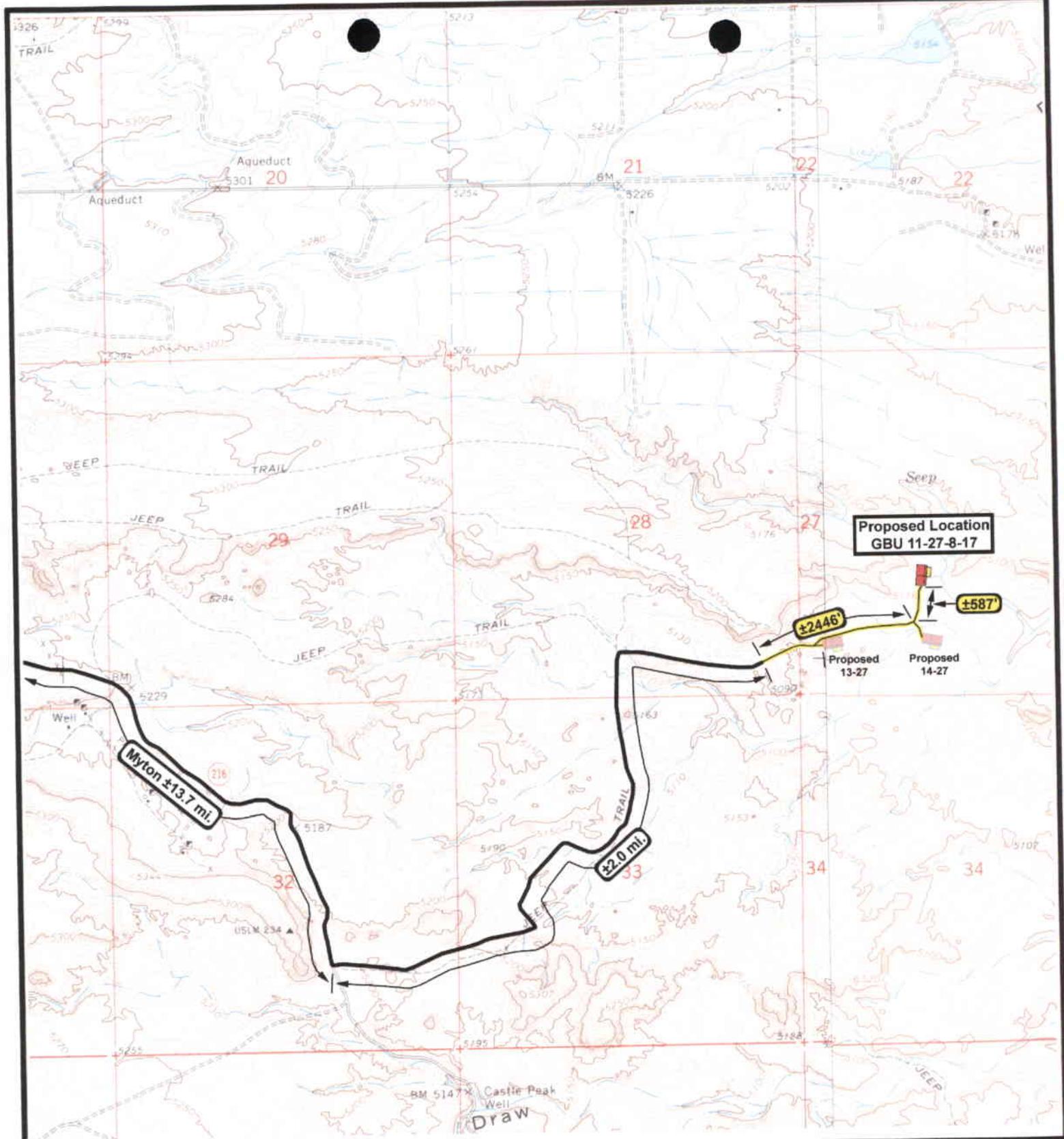
**Proposed Location  
GBU #11-27-8-17**

**See Topo "B"**

  
**GREATER BOUNDARY UNIT #11-27-8-17**  
**SEC. 27, T8S, R17E, S.L.B.&M.**  
**TOPOGRAPHIC MAP "A"**



Drawn By: bgm	Revision:
Scale: 1 : 100,000	File:
Date: 03-30-2001	
<b>Tri-State Land Surveying Inc.</b> <b>P.O. Box 533, Vernal, UT 84078</b> <b>435-781-2501 Fax 435-781-2518</b>	



**Greater Boundry Unity  
#11-27-8-17  
SEC. 27, T8S, R17E, S.L.B.&M.**



**Tri-State  
Land Surveying Inc.**  
(435) 781-2501  
38 West 100 North Vernal, Utah 84078

SCALE: 1" = 2000'  
DRAWN BY: bgm  
DATE: 03-29-2001

**Legend**

- Existing Road
- Proposed Access

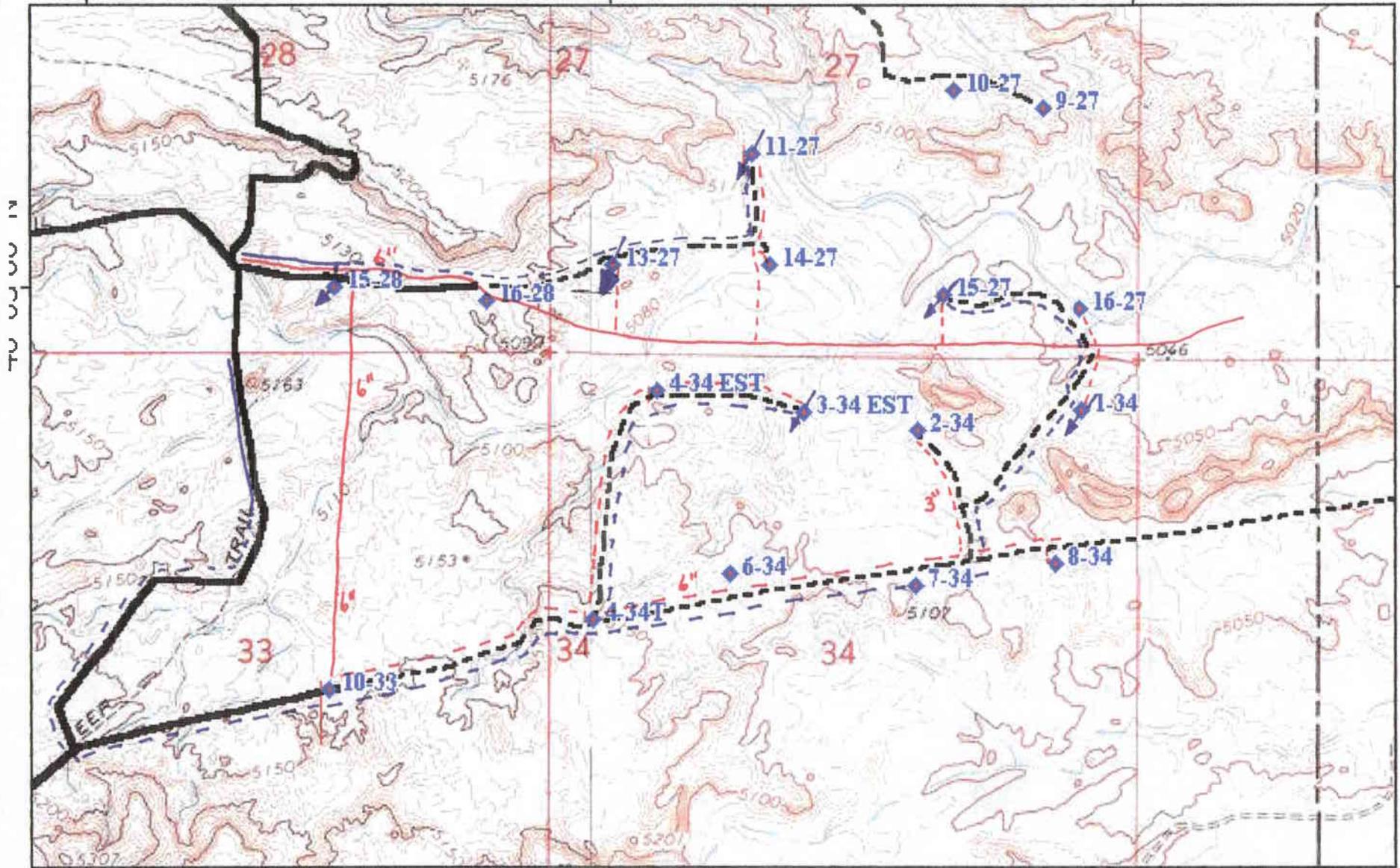
**TOPOGRAPHIC MAP**  
**"B"**

Boundary Development Map "C"

110°01'00" W

110°00'00" W

WGS84 109°59'00" W



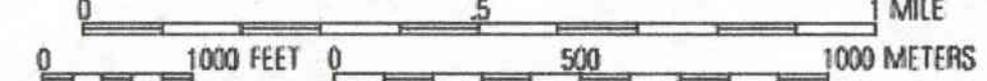
40°05'00" N

110°01'00" W

110°00'00" W

WGS84 109°59'00" W

N\*/MN  
12 1/2°



Printed from TOPO! ©2000 National Geographic Holdings (www.topo.com)

- - - Proposed GAS Line
- - - Proposed Water Line
- - - Proposed ROAD

Proposed Re-entry

- Injection Stations
- Well Categories
  - ↘ INJ
  - OIL
  - ◇ DRY
  - ↘ SHUTIN
  - Units



Exhibit "A"



110 1<sup>st</sup> Street, Suite 700  
Denver, Colorado 80202  
Phone: (303) 863-0122

Uinta Basin

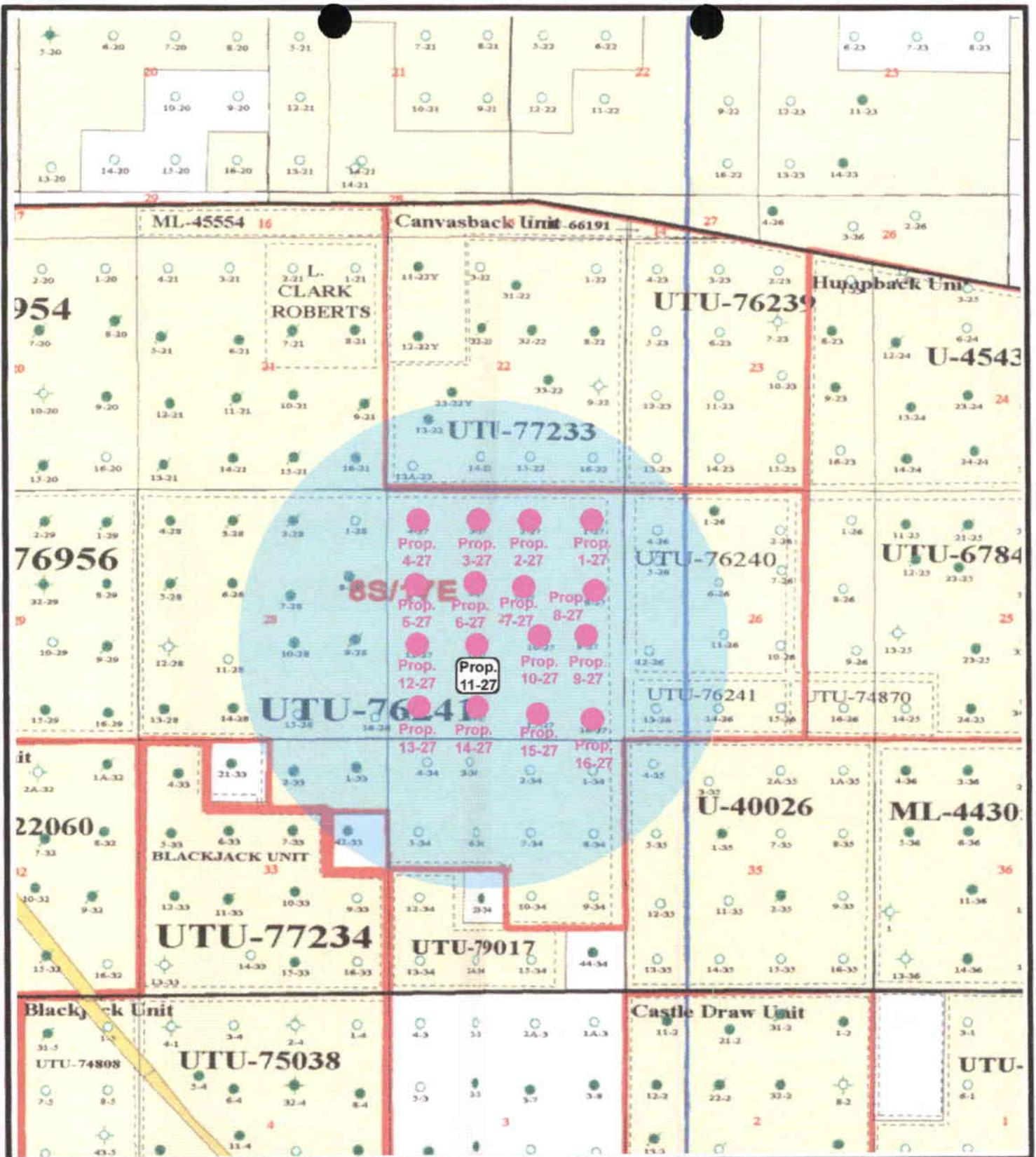
UNITA BASIN, LEAH

Darhoush & Clark Consulting, Inc.

1 0 1 Miles

Scale 1:50,000

11/1/2006



RESOURCES INC.

**GREATER BOUNDARY UNIT #11-27-8-17**  
**SEC. 27, T8S, R17E, S.L.B.&M.**  
**TOPOGRAPHIC EXHIBIT**  
**"B"**

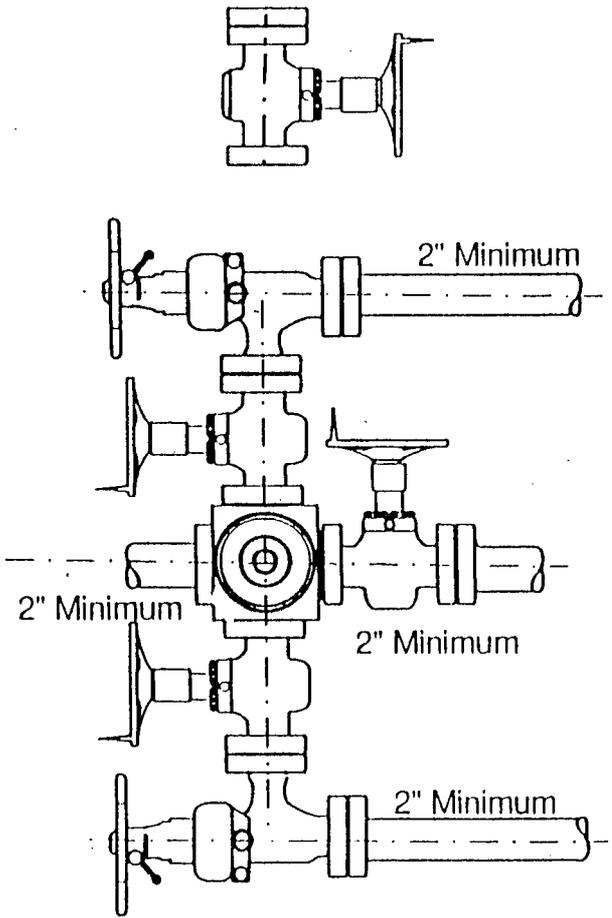
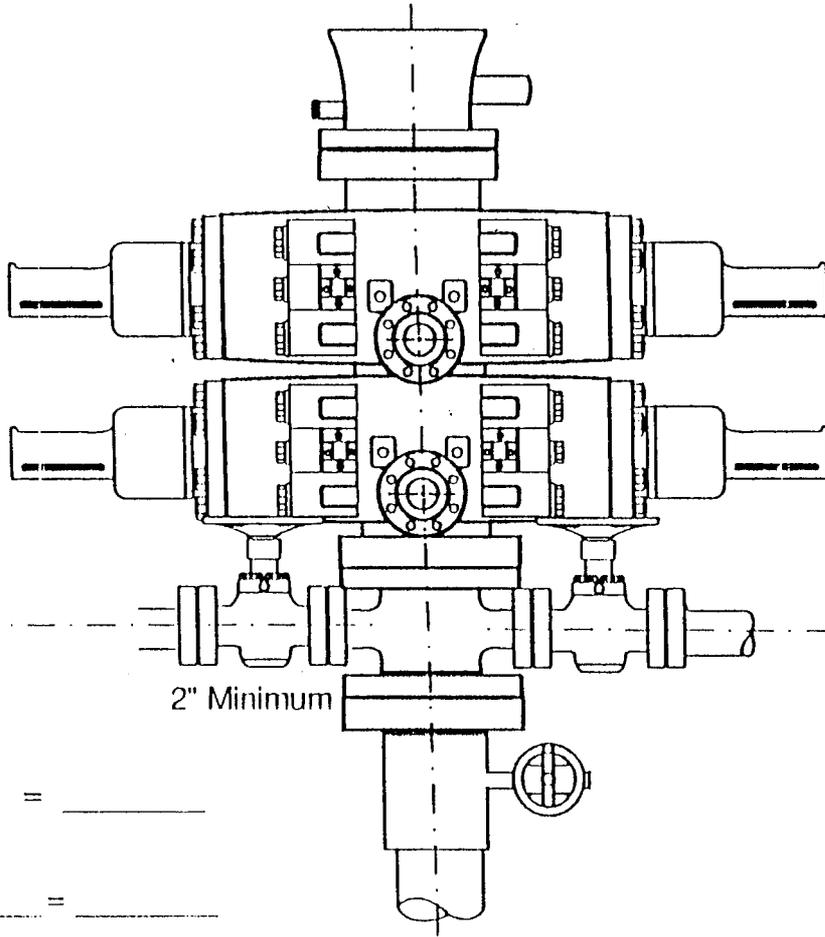


Drawn By: bgm	Revision:
Scale:	File:
Date: 01-05-2001	
<b>Tri-State Land Surveying Inc.</b> <b>P.O. Box 533, Vernal, UT 84078</b> <b>435-781-2501 Fax 435-781-2518</b>	

RAM TYPE B.O.P.  
 Make:  
 Size:  
 Model:

# 2-M SYSTEM

## EXHIBIT "C"



GAL TO CLOSE  
 Annular BOP = \_\_\_\_\_  
 Ramtype BOP  
 \_\_\_\_\_ Rams x \_\_\_\_\_ = \_\_\_\_\_  
 = \_\_\_\_\_ Gal.  
 \_\_\_\_\_ x 2 = \_\_\_\_\_ Total Gal.

Rounding off to the next higher  
 increment of 10 gal. would require  
 \_\_\_\_\_ Gal. (total fluid & nitro volume)

**WORKSHEET  
APPLICATION FOR PERMIT TO DRILL**

APD RECEIVED: 04/23/2001

API NO. ASSIGNED: 43-013-32243
--------------------------------

WELL NAME: GBU 11-27-8-17  
 OPERATOR: INLAND PRODUCTION ( N5160 )  
 CONTACT: BRAD MECHAM

PHONE NUMBER: 435-646-3721

PROPOSED LOCATION:  
 NESW 27 080S 170E  
 SURFACE: 1841 FSL 1935 FWL  
 BOTTOM: 1841 FSL 1935 FWL  
 DUCHESNE  
 MONUMENT BUTTE ( 105 )

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

LEASE TYPE: 1 - Federal  
 LEASE NUMBER: UTU-76241  
 SURFACE OWNER: 1 - Federal

PROPOSED FORMATION: GRRV

RECEIVED AND/OR REVIEWED:

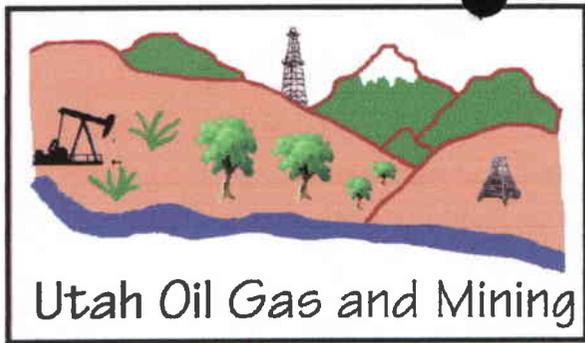
- Plat
- Bond: Fed[1] Ind[] Sta[] Fee[]  
(No. 4488944 )
- Potash (Y/N)
- Oil Shale (Y/N) \*190-5 (B) or 190-3
- Water Permit  
(No. MUNICIPAL )
- RDCC Review (Y/N)  
(Date: )
- Fee Surf Agreement (Y/N)

LOCATION AND SITING:

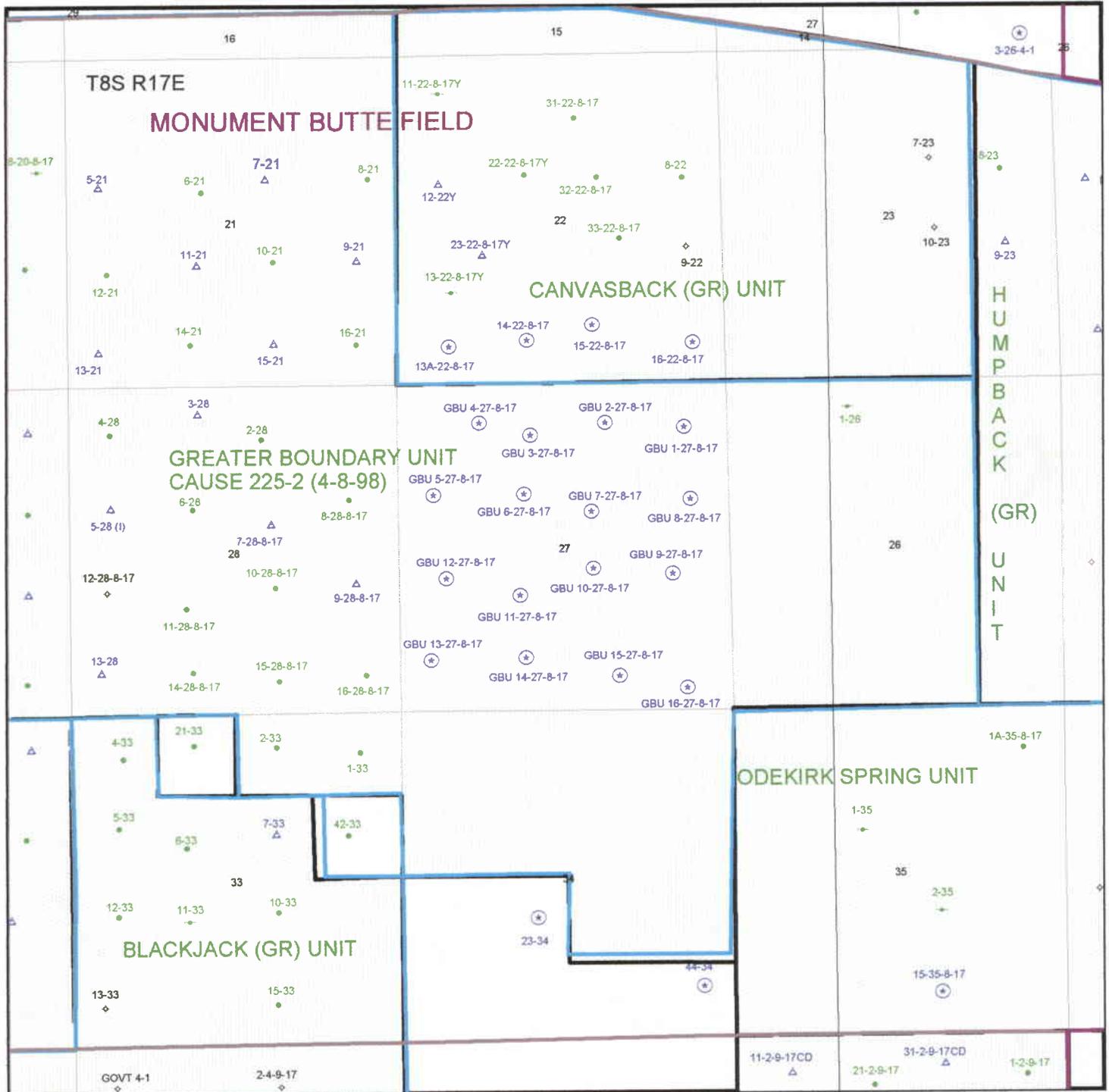
- R649-2-3. Unit GREATER BOUNDARY
- R649-3-2. General  
Siting: 460 From Qtr/Qtr & 920' Between Wells
- R649-3-3. Exception
- Drilling Unit  
Board Cause No: 225-2 \*Unit Appvl.  
Eff Date: 4-8-98  
Siting: \*Suspends Gen. Siting
- R649-3-11. Directional Drill

COMMENTS: mon. Bulk Sol, separate file.

STIPULATIONS: ① FEDERAL APPROVAL



OPERATOR: INLAND PROD CO (N5160)  
 SEC. 27, T8S, R17E  
 FIELD: MONUMENT BUTTE (105)  
 COUNTY: DUCHESNE UNIT: GREATER BOUNDARY  
 CAUSE: 225-2/EXP





# State of Utah

DEPARTMENT OF NATURAL RESOURCES  
DIVISION OF OIL, GAS AND MINING

Michael O. Leavitt  
Governor

Kathleen Clarke  
Executive Director

Lowell P. Braxton  
Division Director

1594 West North Temple, Suite 1210

PO Box 145801

Salt Lake City, Utah 84114-5801

801-538-5340

801-359-3940 (Fax)

801-538-7223 (TDD)

April 30, 2001

Inland Production Company  
410 - 17th St, Suite 700  
Denver, CO 80202

Re: Greater Boundary Unit 11-27-8-17 Well, 1841' FSL, 1935' FWL, NE SW, Sec. 27,  
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 43-013-32243.

Sincerely,

A handwritten signature in cursive script that reads "John R. Baza".

John R. Baza  
Associate Director

er

Enclosures

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

**Operator:** Inland Production Company  
**Well Name & Number** Greater Boundary Unit 11-27-8-17  
**API Number:** 43-013-32243  
**Lease:** UTU 76241

**Location:** NE SW      **Sec.** 27      **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 Dan Jarvis at (801) 538-5338

3. Reporting Requirements

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

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

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-76241**

6. If Indian, Allottee or Tribe Name

**NA**

7. If Unit or CA, Agreement Designation

**GREATER BOUNDARY**

8. Well Name and No.

**GBU 11-27-8-17**

9. API Well No.

**43-013-32243**

10. Field and Pool, or Exploratory Area

**MONUMENT BUTTE**

11. County or Parish, State

**DUCHESNE COUNTY, UTA**

**SUBMIT IN TRIPLICATE**

1. Type of Well

Oil Well     Gas Well     Other

2. Name of Operator

**INLAND 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)

**1935 FWL 1841 FSL NE/SW Section 27, T8S R17E**

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

**TYPE OF SUBMISSION**

Notice of Intent  
 Subsequent Report  
 Final Abandonment Notice

**TYPE OF ACTION**

Abandonment  
 Recompletion  
 Plugging Back  
 Casing Repair  
 Altering Casing  
 Other Permit Extension

Change of Plans  
 New Construction  
 Non-Routine Fracturing  
 Water Shut-Off  
 Conversion to Injection  
 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.)\*

Inland Production Company requests to extend the permit to drill this well for one year.

Approved by the  
Utah Division of  
Oil, Gas and Mining

Date: 05-02-02  
By: [Signature]

COPY SENT TO OPERATOR  
Date: 5-3-02  
Initials: CHD

RECEIVED  
DIVISION OF  
OIL, GAS AND MINING

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

Signed

[Signature]  
Mandie Crozier

Title

Permit Clerk

Date

5/1/2002

CC: UTAH DOGM

(This space for Federal or State office use)

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

Title \_\_\_\_\_

Date \_\_\_\_\_

Conditions of approval, if any:

CC: Utah DOGM

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

<b>APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK</b>			5. LEASE DESIGNATION AND SERIAL NO. <b>UTU-76241</b>	
			6. IF INDIAN, ALLOTTEE OR TRIBE NAME <b>N/A</b>	
1a. TYPE OF WORK <b>DRILL</b> <input type="checkbox"/> <b>DEEPEN</b> <input checked="" type="checkbox"/>			7. UNIT AGREEMENT NAME <b>Greater Boundary</b>	
1b. TYPE OF WELL <b>OIL WELL</b> <input checked="" type="checkbox"/> <b>GAS WELL</b> <input type="checkbox"/> <b>OTHER</b> <input type="checkbox"/> <b>SINGLE ZONE</b> <input type="checkbox"/> <b>MULTIPLE ZONE</b> <input checked="" type="checkbox"/>			8. FARM OR LEASE NAME WELL NO. <b>11-27-8-17</b>	
2. NAME OF OPERATOR <b>Inland Production Company</b>			9. API WELL NO.	
3. ADDRESS OF OPERATOR <b>410 - 17th Street, Suite 700, Denver, CO 80202</b> Phone: <b>(303) 893-0102</b>			10. FIELD AND POOL OR WILDCAT <b>Monument Butte</b>	
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements. *) At Surface <b>NE/SW</b> <b>1935' FWL 1841' FSL</b> At proposed Prod. Zone			11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA <b>NE/SW Sec. 27, T8S, R17E</b>	
14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE* <b>Approximately 15.7 miles southeast of Myton, Utah</b>			12. County <b>Duchesne</b>	13. STATE <b>UT</b>
15. DISTANCE FROM PROPOSED* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also ) <b>Approx. 3345' f/lease line &amp; 3439' f/unit line</b>	16. NO. OF ACRES IN LEASE <b>4,644</b>	17. NO. OF ACRES ASSIGNED TO THIS WELL <b>40</b>		
18. DISTANCE FROM PROPOSED LOCATION* TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR ON THIS LEASE, FT. <b>Approx. 1006'</b>	19. PROPOSED DEPTH <b>6500'</b>	20. ROTARY OR CABLE TOOLS <b>Rotary</b>		
21. ELEVATIONS (Show whether DF, RT, GR, etc.) <b>5079.5' GR</b>			22. APPROX. DATE WORK WILL START* <b>3rd Quarter 2001</b>	
23. PROPOSED CASING AND CEMENTING PROGRAM				
SIZE OF HOLE	SIZE OF CASING	WEIGHT/FOOT	SETTING DEPTH	QUANTITY OF CEMENT
<b>Refer to Monument Butte Field SOP's Drilling Program/Casing Design</b>				

**Inland Production Company proposes to drill this well in accordance with the attached exhibits.**

**The Conditions of Approval are also attached.**

**RECEIVED  
APR 24 2001**

**RECEIVED  
AUG 27 2002  
DIVISION OF  
OIL, GAS AND MINING**

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM : If proposal is to deepen or plug back, give data on present productive zone and proposed new productive zone. If proposal is to drill or deepen directionally, give pertinent data on subsurface locations and measured and true vertical depths. Give blowout preventer program, if any

24. SIGNED *B. Medlin* TITLE **Operations Manager** DATE **April 20, 2001**

(This space for Federal or State office use)

PERMIT NO \_\_\_\_\_ APPROVAL DATE \_\_\_\_\_

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

CONDITIONS OF APPROVAL, IF ANY:

APPROVED BY *Thomas B. Cleary* TITLE **Assistant Field Manager  
Mineral Resources** DATE **08/14/2002**

\*See Instructions On Reverse Side

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.

**NOTICE OF APPROVAL**

**CONDITIONS OF APPROVAL ATTACHED**

*DOBMA  
21MHO024A*

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

Company/Operator: Inland Production Company

Well Name & Number: Greater Boundary 11-27-8-17

API Number: 43-013-32243

Lease Number: U -76241

Location: NESW Sec. 27 T. 08S R. 17E

Agreement: Greater Boundary Unit

For more specific details on notification requirements, please check the Conditions of Approval for Notice to Drill and Surface Use Program.

**RECEIVED**

AUG 27 2002

DIVISION OF  
OIL, GAS AND MINING

**CONDITIONS OF APPROVAL FOR NOTICE TO DRILL**

Approval of this application 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.

Be aware fire restrictions may be in effect when location is being constructed and/or when well is being drilled. Contact the appropriate Surface Management Agency for information.

A. DRILLING PROGRAM1. Casing Program and Auxiliary Equipment

As a minimum, the usable water resources and other resources shall be isolated and/or protected by having a cement top for the production casing at least 200 ft. above the base of the usable water zone, identified at 370 ft. or by setting surface casing to 420 ft. and having a cement top for the production casing at least 200 ft. above the top of the Green River Formation, identified at " 1,992 ft.

**CONDITIONS OF APPROVAL FOR SURFACE USE PROGRAM**

**Inland Production Company – Well No. 11-27-8-17**

1. The following seed mixture shall be used for seeding the stockpiled top soil and for reclamation operations performed for abandonment:

Galleta grass	Hilaria jamessi	3 lbs/acre
Gardners salt bush	Atriplex gardneri	3 lbs/acre
shadscale	Atriplex confertifolia	3 lbs/acre
mat salt bush	Atriplex corrugata	3 lbs/acre

**DIVISION OF OIL, GAS AND MINING**

**SPUDDING INFORMATION**

Name of Company: INLAND PRODUCTION COMPANY

Well Name: GBU 11-27-8-17

Api No: 43-013-32243 Lease Type: FEDERAL

Section 27 Township 08S Range 17E County DUCHESNE

Drilling Contractor STUBBS DRILLING RIG# 111

**SPUDDED:**

Date 02/26/03

Time 1:30 PM

How DRY

**Drilling will commence:** \_\_\_\_\_

Reported by PAT WISENER

Telephone # 1-435-823-7468

Date 03/04/2003 Signed: CHD

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

**SUBMIT IN TRIPLICATE**

1. Type of Well

Oil Well     Gas Well     Other

2. Name of Operator

**INLAND 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)

**1935' FWL & 1841' FS NE/Sw Sec 27. TWN 8S. R17E**

5. Lease Designation and Serial No.

**UTU-76241**

6. If Indian, Allottee or Tribe Name

**NA**

7. If Unit or CA, Agreement Designation

**Greater Boundry**

8. Well Name and No.

**11-27-8-17**

9. API Well No.

**43-013-32243**

10. Field and Pool, or Exploratory Area

11. County or Parish, State

**Duchesne, Utah**

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

TYPE OF SUBMISSION	TYPE OF ACTION
<input type="checkbox"/> Notice of Intent	<input type="checkbox"/> Abandonment
<input checked="" type="checkbox"/> Subsequent Report	<input type="checkbox"/> Recompletion
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Plugging Back
	<input type="checkbox"/> Casing Repair
	<input type="checkbox"/> Altering Casing
	<input checked="" type="checkbox"/> Other <b>Spud Report</b>
	<input type="checkbox"/> Change of Plans
	<input type="checkbox"/> New Construction
	<input type="checkbox"/> Non-Routine Fracturing
	<input type="checkbox"/> Water Shut-Off
	<input type="checkbox"/> Conversion to Injection
	<input type="checkbox"/> Dispose Water

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

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

On 2-26-03. MIRU Stubbs # 111. Drill 305' of 12 1/4" hole with air mist. TIH w/ 7 Jt's 85/8" J-55 24# csqn. Set @ 303.86'/KB On 2-28-03 cement with 150 sks of Class "G" w/ 2% CaCL2 + 1/4# sk Cello-Flake Mixed @ 15.8 ppg > 1.17 cf/sk yeild. 4 bbls cement returned to surface. WOC.

RECEIVED  
MAR 04 2003  
DIV. OF OIL, GAS & MINING

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

Signed

*Pat Wisener*  
Pat Wisener

Title

**Drilling Foreman**

Date

**03/03/2003**

CC: UTAH DOGM

(This space for Federal or State office use)

Approved by

Title

Date

Conditions of approval, if any:

CC: Utah DOGM

# INLAND PRODUCTION COMPANY - CASING & CEMENT REPORT

8 5/8 CASING SET AT 303.86

LAST CASING 8 5/8" SET AT 303.86'  
 DATUM 12' KB  
 DATUM TO CUT OFF CASING \_\_\_\_\_  
 DATUM TO BRADENHEAD FLANGE \_\_\_\_\_  
 TD DRILLER 305 LOGGER \_\_\_\_\_  
 HOLE SIZE 12 1/4

OPERATOR Inland Production Company  
 WELL Greater Boundary # 11-27- 8- 17  
 FIELD/PROSPECT Monument Butte  
 CONTRACTOR & RIG # Stubbs # 111

**LOG OF CASING STRING:**

PIECES	OD	ITEM - MAKE - DESCRIPTION	WT / FT	GRD	THREAD	CONDT	LENGTH
		37.29' shjt					
		WHI - 92 csg head			8rd	A	0.95
7	8 5/8"	Maverick ST&C csg	24#	J-55	8rd	A	292.01
		<b>GUIDE</b> shoe			8rd	A	0.9

CASING INVENTORY BAL.	FEET	JTS	TOTAL LENGTH OF STRING	293.86
TOTAL LENGTH OF STRING	293.86	7	LESS CUT OFF PIECE	2
LESS NON CSG. ITEMS	1.85		PLUS DATUM TO T/CUT OFF CSG	12
PLUS FULL JTS. LEFT OUT	0		CASING SET DEPTH	<b>303.86</b>
TOTAL	292.01	7		

TOTAL CSG. DEL. (W/O THRDS)	292.01	7	} COMPARE
TIMING	1ST STAGE		
BEGIN RUN CSG.	SPUD	02/26/2003	GOOD CIRC THRU JOB <u>Yes</u>
CSG. IN HOLE		1:30pm	Bbls CMT CIRC TO SURFACE <u>4</u>
BEGIN CIRC			RECIPROCATED PIPE FOR _____ THRU _____ FT STROKE
BEGIN PUMP CMT			DID BACK PRES. VALVE HOLD ? <u>N/A</u>
BEGIN DSPL. CMT			BUMPED PLUG TO _____ 200 _____ PSI
PLUG DOWN	Cemented	02/28/2003	

CEMENT USED	CEMENT COMPANY- <b>B. J.</b>		
STAGE	# SX	CEMENT TYPE & ADDITIVES	
1	150	Class "G" w/ 2% CaCL2 + 1/4#/sk Cello-Flake mixed @ 15.8 ppg 1.17 cf/sk yield	

CENTRALIZER & SCRATCHER PLACEMENT	SHOW MAKE & SPACING	<b>RECEIVED</b>
Centralizers - Middle first, top second & third for 3		<b>MAR 04 2003</b>
		DIV. OF OIL, GAS & MINING

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-76241**

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

7. If Unit or CA, Agreement Designation  
**Greater Boundry**

8. Well Name and No.  
**11-27-8-17**

9. API Well No.  
**43-013-32243**

10. Field and Pool, or Exploratory Area

11. County or Parish, State  
**Duchesne, Utah**

*SUBMIT IN TRIPLICATE*

1. Type of Well  
 Oil Well     Gas Well     Other

2. Name of Operator  
**INLAND 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)  
**1935' FWL & 1841' FS NE/Sw Sec 27. TWN 8S. R17E**

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

TYPE OF SUBMISSION	TYPE OF ACTION
<input type="checkbox"/> Notice of Intent <input checked="" type="checkbox"/> Subsequent Report <input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Abandonment <input type="checkbox"/> Recompletion <input type="checkbox"/> Plugging Back <input type="checkbox"/> Casing Repair <input type="checkbox"/> Altering Casing <input checked="" type="checkbox"/> Other <b>Weekly Status report</b>
	<input type="checkbox"/> Change of Plans <input type="checkbox"/> New Construction <input type="checkbox"/> Non-Routine Fracturing <input type="checkbox"/> Water Shut-Off <input type="checkbox"/> Conversion to Injection <input type="checkbox"/> Dispose Water

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

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

Weekly Status report for the period of 3-01-03 thru 3-08-03.

**RECEIVED**  
**MAR 12 2003**  
DIV. OF OIL, GAS & MINING

On 3-01-03 MIRU Eagle # 1. Set equipment. Pressure test Bop's, Kelly, TIW to 2,000 psi. Test 85/8" csgn to 1,500 psi. Vernal BLM office was notified of test. PU & MU BHA and tag cement @ 262'. Drill out cement and shoe. Con't to drill 77/8" hole with fresh water to a depth of 6290'. Lay down drill string. Open hole log. PU & MU Guide shoe, 1 jt 51/2" csg, Float collar & 145jt's J-55 15.5 # 51/2" csgn. Set @ 6280'/KB. Cement with 400\* sks. 50/50 POZ w/ 3% KCL, 1/4#sk Cello-Flake, 2% Gel, .3%SMS, .05#sk Static free, Mixed @ 14.4PPG >1.24 YLD. Then 310\* sks Prem Litell w/ 3% KCL, 3#/sk Kolseal, 8% Gel, .5SMS, 3#sk CSE, mixed @ 11.0PPG >3.43. Good returns thru job with 10 bbls of cement to pit. Set slips with 84,000# tension. Nipple down BOP's. Release rig @3:00 am on 3-07-03

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

Signed Pat Wisener Title Drilling Foreman Date 03/09/2003  
Pat Wisener

CC: UTAH DOGM

(This space for Federal or State office use)

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

Conditions of approval, if any:

CC: Utah DOGM

# INLAND PRODUCTION COMPANY - CASING & CEMENT REPORT

5 1/2" CASING SET AT 6280.84

Flt cllr @ 6249'

LAST CASING 8 5/8" SET AT 303.86

OPERATOR Inland Production Company

DATUM 12' KB

WELL Greater Boundry 11-27-8-17

DATUM TO CUT OFF CASING 12'

FIELD/PROSPECT Monument Butte

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

CONTRACTOR & RIG # Eagle # 1

TD DRILLER 6290' LOGGER 6288'

HOLE SIZE 7 7/8"

**LOG OF CASING STRING:**

PIECES	OD	ITEM - MAKE - DESCRIPTION	WT / FT	GRD	THREAD	CONDT	LENGTH
		Landing Jt					14
		<b>39' @ 4010'</b>					
<b>145</b>	<b>5 1/2"</b>	ETC LT & C casing	<b>15.5#</b>	<b>J-55</b>	<b>8rd</b>	<b>A</b>	6237.59
		Float collar					0.6
<b>1</b>	<b>5 1/2"</b>	ETC LT&C csg	<b>15.5#</b>	<b>J-55</b>	<b>8rd</b>	<b>A</b>	30
		<b>GUIDE</b> shoe			<b>8rd</b>	<b>A</b>	0.65

CASING INVENTORY BAL.	FEET	JTS	TOTAL LENGTH OF STRING	6282.84
TOTAL LENGTH OF STRING	6282.84	146	LESS CUT OFF PIECE	14
LESS NON CSG. ITEMS	15.25		PLUS DATUM TO T/CUT OFF CSG	12
PLUS FULL JTS. LEFT OUT	0	0	CASING SET DEPTH	<b>6280.84</b>

TOTAL	6267.59	146	} COMPARE
TOTAL CSG. DEL. (W/O THRDS)	6267.59	146	
TIMING	1ST STAGE	2nd STAGE	
BEGIN RUN CSG.			GOOD CIRC THRU JOB <u>YES</u>
CSG. IN HOLE			Bbls CMT CIRC TO SURFACE <u>45 bbls of 60 bbls dye water</u>
BEGIN CIRC			RECIPROCATED PIPE FOR <u>THRUSTROKE</u>
BEGIN PUMP CMT			DID BACK PRES. VALVE HOLD ? <u>Yes</u>
BEGIN DSPL. CMT			BUMPED PLUG TO <u>1550</u> PSI
PLUG DOWN			

CEMENT USED	CEMENT COMPANY- <b>B. J.</b>		
STAGE	# SX	CEMENT TYPE & ADDITIVES	
<b>1</b>	<b>310</b>	Premlite II w/ 10% gel + 3 % KCL, 3#s /sk CSE + 2# sk/kolseal + 1/4#s/sk Cello Flake	
		mixed @ 11.0 ppg W / 3.43 cf/sk yield	
<b>2</b>	<b>400</b>	50/50 poz W/ 2% Gel + 3% KCL, .5%EC1, 1/4# sk C.F. 2% gel. 3% SM mixed @ 14.4 ppg W/ 1.24 YLD	

CENTRALIZER & SCRATCHER PLACEMENT SHOW MAKE & SPACING

Centralizers - Middle first, top second & third. Then every third collar for a total of 20.

**RECEIVED**

**MAR 12 2003**

DIV. OF OIL, GAS & MINING

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-76241**

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

7. If Unit or CA, Agreement Designation  
**GREATER BOUNDARY**

8. Well Name and No.  
**GBU 11-27-8-17**

9. API Well No.  
**43-013-32243**

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

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

**SUBMIT IN TRIPLICATE**

1. Type of Well  
 Oil Well     Gas Well     Other

2. Name of Operator  
**INLAND 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)  
**1935 FWL 1841 FSL NE/SW Section 27, T8S R17E**

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

TYPE OF SUBMISSION	TYPE OF ACTION
<input type="checkbox"/> Notice of Intent	<input type="checkbox"/> Abandonment
<input checked="" type="checkbox"/> Subsequent Report	<input type="checkbox"/> Recompletion
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Plugging Back
	<input type="checkbox"/> Casing Repair
	<input type="checkbox"/> Altering Casing
	<input checked="" type="checkbox"/> Other <b>Weekly status</b>
	<input type="checkbox"/> Change of Plans
	<input type="checkbox"/> New Construction
	<input type="checkbox"/> Non-Routine Fracturing
	<input type="checkbox"/> Water Shut-Off
	<input type="checkbox"/> Conversion to Injection
	<input type="checkbox"/> Dispose Water

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

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

Status report for time period 3/10/2003 through 3/16/2003.

Subject well had completion procedures initiated in the Green River formation on 3/14/2003 without use of a service rig over the well. A cement bond log was ran and the first of four proposed Green River intervals was perforated in anticipation of fracing next week.

RECEIVED

MAR 19 2003

DIV. OF OIL, GAS & MINING

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

Signed *Gary Dietz* Title Completion Foreman Date 3/16/2003  
 Gary Dietz

CC: UTAH DOGM

(This space for Federal or State office use)

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

Conditions of approval, if any:

# INLAND PRODUCTION COMPANY - CASING & CEMENT REPORT

5 1/2" CASING SET AT 6286.69

Flt cllr @ 6270'

LAST CASING 8 5/8" SET AT 311.23'

OPERATOR Inland Production Company

DATUM 12' KB

WELL Canvasback 14-22-8-17

DATUM TO CUT OFF CASING 12'

FIELD/PROSPECT Monument Butte

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

CONTRACTOR & RIG # Eagle # 1

TD DRILLER 6300' LOGGER 6290'

HOLE SIZE 7 7/8"

**LOG OF CASING STRING:**

PIECES	OD	ITEM - MAKE - DESCRIPTION	WT / FT	GRD	THREAD	CONDT	LENGTH
		Landing Jt					14
		<b>37' @ 4000'</b>					
<b>146</b>	<b>5 1/2"</b>	ETC LT & C casing	<b>15.5#</b>	<b>J-55</b>	<b>8rd</b>	<b>A</b>	6258.44
		Float collar					0.6
<b>1</b>	<b>5 1/2"</b>	ETC LT&C csg	<b>15.5#</b>	<b>J-55</b>	<b>8rd</b>	<b>A</b>	15
		<b>GUIDE</b> shoe			<b>8rd</b>	<b>A</b>	0.65

CASING INVENTORY BAL.	FEET	JTS	TOTAL LENGTH OF STRING	6288.69
TOTAL LENGTH OF STRING	6288.69	146	LESS CUT OFF PIECE	14
LESS NON CSG. ITEMS	15.25		PLUS DATUM TO T/CUT OFF CSG	12
PLUS FULL JTS. LEFT OUT	0		CASING SET DEPTH	<b>6286.69</b>
<b>TOTAL</b>	<b>6273.44</b>	<b>146</b>	<b>RECEIVED</b>	

TOTAL CSG. DEL. (W/O THRDS)	6273.44	146	} COMPARE	
TIMING	1ST STAGE	2nd STAGE	<b>MAR 19 2003</b>	
BEGIN RUN CSG.	5:00pm		DIV. OF OIL, GAS & MINING	
CSG. IN HOLE	8:30pm		GOOD CIRC THRU JOB	YES
BEGIN CIRC	9:00pm		Bbls CMT CIRC TO SURFACE	45 of 50 bbls dye water
BEGIN PUMP CMT	9:34pm	9:59pm	RECIPROCATED PIPE FOR	THRUSTROKE
BEGIN DSPL. CMT	10:41pm		DID BACK PRES. VALVE HOLD ?	Yes
PLUG DOWN		<b>10:53pm</b>	BUMPED PLUG TO	2150 PSI

CEMENT USED	CEMENT COMPANY- <b>B. J.</b>		
STAGE	# SX	CEMENT TYPE & ADDITIVES	
<b>1</b>	<b>300</b>	Premiite II w/ 10% gel + 3 % KCL, 3#s /sk CSE + 2# sk/kolseal + 1/4#s/sk Cello Flake	
		mixed @ 11.0 ppg W / 3.43 cf/sk yield	
<b>2</b>	<b>400</b>	50/50 poz W/ 2% Gel + 3% KCL, .5%EC1, 1/4# sk C.F. 2% gel. 3% SM mixed @ 14.4 ppg W/ 1.24 YLD	

CENTRALIZER & SCRATCHER PLACEMENT SHOW MAKE & SPACING

Centralizers - Middle first, top second & third. Then every third collar for a total of 20.

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-76241**

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

7. If Unit or CA, Agreement Designation  
**GREATER BOUNDARY**

8. Well Name and No.  
**GBU 11-27-8-17**

9. API Well No.  
**43-013-32243**

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

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

**SUBMIT IN TRIPLICATE**

1. Type of Well  
 Oil Well     Gas Well     Other

2. Name of Operator  
**INLAND 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)  
**1935 FWL 1841 FSL NE/SW Section 27, T8S R17E**

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

TYPE OF SUBMISSION	TYPE OF ACTION
<input type="checkbox"/> Notice of Intent	<input type="checkbox"/> Abandonment
<input checked="" type="checkbox"/> Subsequent Report	<input type="checkbox"/> Recompletion
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Plugging Back
	<input type="checkbox"/> Casing Repair
	<input type="checkbox"/> Altering Casing
	<input checked="" type="checkbox"/> Other <b>Weekly status</b>
	<input type="checkbox"/> Change of Plans
	<input type="checkbox"/> New Construction
	<input type="checkbox"/> Non-Routine Fracturing
	<input type="checkbox"/> Water Shut-Off
	<input type="checkbox"/> Conversion to Injection
	<input type="checkbox"/> Dispose Water

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

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

Status report for time period 3/17/2003 through 3/23/2003.

Subject well had completion procedures initiated in the Green River formation on 3/14/2003 without use of a service rig over the well. A cement bond log was ran and a total of four Green River intervals were perforated and hydraulically fracture treated W/ 20/40 mesh sand using composite flow-through frac plugs between stages. A service rig was moved on well on 3/18/2003. Bridge plugs were drilled out and well was cleaned out to PBTD. Well was swab tested for sand cleanup. A production tbg string was ran in and anchored in well. A 1 1/2" bore rod pump was ran in well on sucker rods. Well was placed on production via rod pump on 3/21/2003.

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MAR 25 2003

DIV. OF OIL, GAS & MINING

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

Signed *Gary Dietz* Title Completion Foreman Date 3/21/2003  
**Gary Dietz**

CC: UTAH DOGM

(This space for Federal or State office use)

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

Conditions of approval, if any:

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

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

OPERATOR ACCT. NO. N5160

ACTION CODE	CURRENT ENTITY NO.	NEW ENTITY NO.	API NUMBER	WELL NAME	WELL LOCATION					SPUD DATE	EFFECTIVE DATE
					QQ	SC	TP	RG	COUNTY		
<i>B</i>	99999	12391	43-013-32243	Boundary #11-27-8-17	NE/SW	27	8S	17E	Duchesne	February 26, 2003	4/30/03

WELL 1 COMMENTS:

ACTION CODE	CURRENT ENTITY NO.	NEW ENTITY NO.	API NUMBER	WELL NAME	WELL LOCATION					SPUD DATE	EFFECTIVE DATE
					QQ	SC	TP	RG	COUNTY		
<i>A</i>	99999	12299	43-047-34556	Canvasback #14-23-8-17	SE/SW	23	8S	17E	Uintah	March 27, 2003	4/30/03

WELL 2 COMMENTS: *Corrected formation from Wasatch to Green River per Operator phone call*

ACTION CODE	CURRENT ENTITY NO.	NEW ENTITY NO.	API NUMBER	WELL NAME	WELL LOCATION					SPUD DATE	EFFECTIVE DATE
					QQ	SC	TP	RG	COUNTY		
<i>B</i>	99999	12053	43-047-34160	Humpback #1A-26-8-17	NE/NE	26	8S	17E	Uintah	March 31, 2003	4/30/03

WELL 3 COMMENTS:

ACTION CODE	CURRENT ENTITY NO.	NEW ENTITY NO.	API NUMBER	WELL NAME	WELL LOCATION					SPUD DATE	EFFECTIVE DATE
					QQ	SC	TP	RG	COUNTY		
<i>B</i>	99999	12053	43-047-34558	Humpback #16-23-8-17	SE/SE	23	8S	17E	Uintah	April 4, 2003	4/30/03

WELL 4 COMMENTS:

ACTION CODE	CURRENT ENTITY NO.	NEW ENTITY NO.	API NUMBER	WELL NAME	WELL LOCATION					SPUD DATE	EFFECTIVE DATE
					QQ	SC	TP	RG	COUNTY		

WELL 5 COMMENTS:

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

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

*Kebbie S. Jones*  
Signature  
Kebbie S. Jones  
Production Clerk  
Title  
April 8, 2003  
Date

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APR 08 2003

DIV. OF OIL, GAS & MINING

PAGE 02

INLAND

4355463031

04/08/2003 15:29

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

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

1a. TYPE OF WORK  
 OIL WELL  GAS WELL  DRY  Other \_\_\_\_\_

1b. TYPE OF WELL  
 NEW WELL  WORK-OVER  DEEPEN  PLUG-BACK  DIFF-RESVR  Other \_\_\_\_\_

5. LEASE DESIGNATION AND SERIAL NO.  
**UTU-76241**

6. IF INDIAN, ALLOTTEE OR TRIBE NAME  
**NA**

7. UNIT AGREEMENT NAME  
**Greater Boundary**

8. FARM OR LEASE NAME, WELL NO.  
**GBU 11-27-8-17**

2. NAME OF OPERATOR  
**INLAND RESOURCES INC.**

9. WELL NO.  
**43-013-32243**

3. ADDRESS AND TELEPHONE NO.  
**410 17th St. Suite 700 Denver, CO 80202**

10. FIELD AND POOL OR WILDCAT  
**Monument Butte**

4. LOCATION OF WELL (Report locations clearly and in accordance with any State requirements.)\*  
 At Surface **1841' FSL & 1935' FWL (NESW) Sec. 27, Twp. 8S, Rng 17E**  
 At top prod. Interval reported below

11. SEC., T., R., M., OR BLOCK AND SURVEY OR AREA  
**Sec. 27, Twp. 8S, Rng 17E**

At total depth  
 14. API NO. **43-013-32243** DATE ISSUED **4/30/01**

12. COUNTY OR PARISH **Duchesne** 13. STATE **UT**

15. DATE SPUDDED **2/26/03** 16. DATE T.D. REACHED **3/7/03** 17. DATE COMPL. (Ready to prod.) **3/21/03** 18. ELEVATIONS (DF, RKB, RT, GR, ETC.)\* **5080' GL** 19. ELEV. CASINGHEAD **5092' KB**

20. TOTAL DEPTH, MD & TVD **6290'** 21. PLUG BACK T.D., MD & TVD **6280'** 22. IF MULTIPLE COMPL., HOW MANY\* \_\_\_\_\_ 23. INTERVALS DRILLED BY **----->** ROTARY TOOLS **X** CABLE TOOLS \_\_\_\_\_

24. PRODUCING INTERVAL(S), OF THIS COMPLETION--TOP, BOTTOM, NAME (MD AND TVD)\*  
**Green River 4481'-5976'**

25. WAS DIRECTIONAL SURVEY MADE  
**No**

26. TYPE ELECTRIC AND OTHER LOGS RUN  
**DIPL/SP/CDL/GR/Cal - 3-11-03**

27. WAS WELL CORED  
**No**

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

CASING SIZE/GRADE	WEIGHT, LB/FT.	DEPTH SET (MD)	HOLE SIZE	TOP OF CEMENT, CEMENTING RECORD	AMOUNT PULLED
8-5/8" - J-55	24#	303'	12-1/4"	To surface with 150 sx Class "G" cmt	
5-1/2" - J-55	15.5#	6280'	7-7/8"	310 sx Premlite II and 400 sx 50/50 Poz	

29. LINER RECORD

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

30. TUBING RECORD

SIZE	DEPTH SET (MD)	PACKER SET (MD)
2-7/8"	EOT @ 6038'	TA @ 5904'

31. PERFORATION RECORD (Interval, size and number)

INTERVAL	SIZE	SPF/NUMBER	32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.
(CP sands) 5820-23', 5840-46', 5850-61'			
5867-83', 5918-20', 5955-60', <b>5970-76'</b>	.038"	4/160	5820'-5976' Frac w/ 122,845# 20/40 sand in 882 bbl fluid.
(A3/LODC/BS) 5505-14', 5573-77'			
5584-98', 5603-09', 5709-12'	.038"	4/144	5505'-5712' Frac w/ 117,490# 20/40 sand in 840 bbl fluid.
(D1/C-sd) 4954-57'			
4971-74', 5019-24', 5124-29'	.038"	4/65	4954'-5129' Frac w/ 47,866# 20/40 sand in 413 bbl fluid.
(GB sands) <b>4481-88'</b>			
4508-10', 4517-21', 4525-33'	.038"	4/84	4481'-4533' Frac w/ 67,505# 20/40 sand in 515 bbl fluid.

33.\* PRODUCTION

DATE FIRST PRODUCTION **3/21/03** PRODUCTION METHOD (Flowing, gas lift, pumping--size and type of pump) **2-1/2" x 1-1/2" x 15' RHAC Pump** WELL STATUS (Producing or shut-in) **PRODUCING**

DATE OF TEST **10 day ave** HOURS TESTED \_\_\_\_\_ CHOKE SIZE \_\_\_\_\_ PROD'N. FOR TEST PERIOD **---** OIL--BBL. **68** GAS--MCF. **70** WATER--BBL. **13** GAS-OIL RATIO **1029**

FLOW. TUBING PRESS. \_\_\_\_\_ CASING PRESSURE \_\_\_\_\_ CALCULATED 24-HOUR RATE **---** OIL--BBL. \_\_\_\_\_ GAS--MCF. \_\_\_\_\_ WATER--BBL. \_\_\_\_\_ OIL GRAVITY-API (CORR.) **RECEIVED**

34. DISPOSITION OF GAS (Sold, used for fuel, vented, etc.) **Sold & Used for Fuel** TEST WITNESSED BY **APR 24 2003**

35. LIST OF ATTACHMENTS \_\_\_\_\_

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

SIGNED Brian Harris TITLE Engineering Technician DATE 4/21/2003

37. SUMMARY OF POROUS ZONES: (Show all important zones of porosity and contents thereof; cored intervals, and all drill-stem, tests, including depth interval tested, cushion used, time tool open, flowing and shut-in pressures, and recoveries);				38. GEOLOGIC MARKERS		
FORMATION	TOP	BOTTOM	DESCRIPTION, CONTENTS, ETC.	NAME	TOP	
					MEAS. DEPTH	TRUE VERT. DEPTH
			<p style="text-align: center;"><b>Well Name</b> <b>Greater Boundary Unit 11-27-8-17</b></p>	Garden Gulch Mkr	3965'	
				Garden Gulch 2	4271'	
				Point 3 Mkr	4544'	
				X Mkr	4770'	
				Y-Mkr	4708'	
				Douglas Creek Mkr	4939'	
				BiCarbonate Mkr	5192'	
				B Limestone Mkr	5343'	
				Castle Peak	5798'	
				Basal Carbonate	6226'	
				Total Depth (LOGGERS)	6290'	

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 APR 24 2003  
 DIV. OF OIL, GAS & MINING



April 21, 2003

State of Utah, Division of Oil, Gas and Mining  
Attn: Ms. Carol Daniels  
P.O. Box 145801  
Salt Lake City, Utah 84144-5801

Attn: Ms. Carol Daniels

Greater Boundary 11-27-8-17 (43-013-32243)  
Duchesne County, UT

Dear Ms. Carol Daniels

Enclosed is a Well Completion or Recompletion Report and Log form (Form 3160-4). We are no longer sending Log copies since Dave Jull of Phoenix Surveys is already doing so.

If you should have any questions, please contact me at (303) 382-4449.

Sincerely,

Brian Harris  
Engineering Tech

Enclosures

cc: Bureau of Land Management  
Vernal District Office, Division of Minerals  
Attn: Edwin I. Forsman  
170 South 500 East  
Vernal, Utah 84078

Well File – Denver  
Well File – Roosevelt  
Patsy Barreau/Denver  
Bob Jewett/Denver

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APR 24 2003

DIV. OF OIL, GAS & MINING

**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-76241**

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

7. If Unit or CA, Agreement Designation  
**GREATER BOUNDARY**

8. Well Name and No.  
**GREATER BOUNDARY 11-27-8-17**

9. API Well No.  
**43-013-32243**

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

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

**SUBMIT IN TRIPLICATE**

1. Type of Well  
 Oil Well     Gas Well     Other

2. Name of Operator  
**INLAND 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)  
**1935 FWL 1841 FSL      NE/SW Section 27, T8S R17E**

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

TYPE OF SUBMISSION	TYPE OF ACTION
<input checked="" type="checkbox"/> Notice of Intent <input type="checkbox"/> Subsequent Report <input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Abandonment <input type="checkbox"/> Recompletion <input type="checkbox"/> Plugging Back <input type="checkbox"/> Casing Repair <input type="checkbox"/> Altering Casing <input type="checkbox"/> Other _____
	<input type="checkbox"/> Change of Plans <input type="checkbox"/> New Construction <input type="checkbox"/> Non-Routine Fracturing <input type="checkbox"/> Water Shut-Off <input type="checkbox"/> Conversion to Injection <input checked="" 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.)\*

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

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

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

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

Signed Mandie Crozier Title Regulatory Specialist Date 11/14/2003  
Mandie Crozier

CC: UTAH DOGM

(This space for Federal or State office use)

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

Conditions of approval, if any:

CC: Utah DOGM

**RECEIVED  
NOV 17 2003  
DIV. OF OIL, GAS & MINING**



# United States Department of the Interior

## BUREAU OF LAND MANAGEMENT

Utah State Office  
P.O. Box 45155  
Salt Lake City, UT 84145-0155  
<http://www.blm.gov>



IN REPLY REFER TO:  
3106  
(UT-924)

September 16, 2004

### Memorandum

To: Vernal Field Office  
From: Acting Chief, Branch of Fluid Minerals  
Subject: Merger Approval

Attached is an approved copy of the name change recognized by the Utah State Office. We have updated our records to reflect the merger from Inland Production Company into Newfield Production Company on September 2, 2004.

Michael Coulthard  
Acting Chief, Branch of  
Fluid Minerals

### Enclosure

1. State of Texas Certificate of Registration

cc: MMS, Reference Data Branch, James Sykes, PO Box 25165, Denver CO 80225  
State of Utah, DOGM, Attn: Earlene Russell, PO Box 145801, SLC UT 84114  
Teresa Thompson  
Joe Incardine  
Connie Seare

UTSL-	15855	61052	73088	76561	
071572A	16535	62848	73089	76787	
065914	16539	63073B	73520A	76808	
	16544	63073D	74108	76813	
	17036	63073E	74805	76954	63073X
	17424	63073O	74806	76956	63098A
	18048	64917	74807	77233	68528A
UTU-	18399	64379	74808	77234	72086A
	19267	64380	74389	77235	72613A
02458	26026A	64381	74390	77337	73520X
03563	30096	64805	74391	77338	74477X
03563A	30103	64806	74392	77339	75023X
04493	31260	64917	74393	77357	76189X
05843	33992	65207	74398	77359	76331X
07978	34173	65210	74399	77365	76788X
09803	34346	65635	74400	77369	77098X
017439B	36442	65967	74404	77370	77107X
017985	36846	65969	74405	77546	77236X
017991	38411	65970	74406	77553	77376X
017992	38428	66184	74411	77554	78560X
018073	38429	66185	74805	78022	79485X
019222	38431	66191	74806	79013	79641X
020252	39713	67168	74826	79014	80207X
020252A	39714	67170	74827	79015	81307X
020254	40026	67208	74835	79016	
020255	40652	67549	74868	79017	
020309D	40894	67586	74869	79831	
022684A	41377	67845	74870	79832	
027345	44210	68105	74872	79833	
034217A	44426	68548	74970	79831	
035521	44430	68618	75036	79834	
035521A	45431	69060	75037	80450	
038797	47171	69061	75038	80915	
058149	49092	69744	75039	81000	
063597A	49430	70821	75075		
075174	49950	72103	75078		
096547	50376	72104	75089		
096550	50385	72105	75090		
	50376	72106	75234		
	50750	72107	75238		
10760	51081	72108	76239		
11385	52013	73086	76240		
13905	52018	73087	76241		
15392	58546	73807	76560		

Corporations Section  
P.O.Box 13697  
Austin, Texas 78711-3697



Geoffrey S. Connor  
Secretary of State

## Office of the Secretary of State

The undersigned, as Secretary of State of Texas, does hereby certify that the attached is a true and correct copy of each document on file in this office as described below:

Newfield Production Company  
Filing Number: 41530400

Articles of Amendment

September 02, 2004

In testimony whereof, I have hereunto signed my name officially and caused to be impressed hereon the Seal of State at my office in Austin, Texas on September 10, 2004.



A handwritten signature in black ink, appearing to read "G. Connor".

Secretary of State

ARTICLES OF AMENDMENT  
TO THE  
ARTICLES OF INCORPORATION  
OF  
INLAND PRODUCTION COMPANY

FILED  
In the Office of the  
Secretary of State of Texas  
SEP 02 2004  
Corporations Section

Pursuant to the provisions of Article 4.04 of the Texas Business Corporation Act (the "TBCA"), the undersigned corporation adopts the following articles of amendment to the articles of incorporation:

ARTICLE 1 – Name

The name of the corporation is Inland Production Company.

ARTICLE 2 – Amended Name

The following amendment to the Articles of Incorporation was approved by the Board of Directors and adopted by the shareholders of the corporation on August 27, 2004.

The amendment alters or changes Article One of the Articles of Incorporation to change the name of the corporation so that, as amended, Article One shall read in its entirety as follows:

"ARTICLE ONE – The name of the corporation is Newfield Production Company."

ARTICLE 3 – Effective Date of Filing

This document will become effective upon filing.

The holder of all of the shares outstanding and entitled to vote on said amendment has signed a consent in writing pursuant to Article 9.10 of the TBCA, adopting said amendment, and any written notice required has been given.

IN WITNESS WHEREOF, the undersigned corporation has executed these Articles of Amendment as of the 1<sup>st</sup> day of September, 2004.

INLAND RESOURCES INC.

By: Susan G. Riggs  
Susan G. Riggs, Treasurer

**OPERATOR CHANGE WORKSHEET**

**ROUTING**

1. GLH
2. CDW
3. FILE

Change of Operator (Well Sold)

Designation of Agent/Operator

**X Operator Name Change**

**Merger**

The operator of the well(s) listed below has changed, effective:

**9/1/2004**

**FROM: (Old Operator):**  
 N5160-Inland Production Company  
 Route 3 Box 3630  
 Myton, UT 84052  
 Phone: 1-(435) 646-3721

**TO: ( New Operator):**  
 N2695-Newfield Production Company  
 Route 3 Box 3630  
 Myton, UT 84052  
 Phone: 1-(435) 646-3721

**CA No.**

**Unit:**

**GREATER BOUNDARY (GR)**

**WELL(S)**

NAME	SEC	TWN	RNG	API NO	ENTITY NO	LEASE TYPE	WELL TYPE	WELL STATUS
GBU 3-27-8-17	27	080S	170E	4301332224	12391	Federal	WI	A
GBU 5-27-8-17	27	080S	170E	4301332225	12391	Federal	OW	P
GBU 12-27-8-17	27	080S	170E	4301332226	12391	Federal	OW	P
GBU 1-27-8-17	27	080S	170E	4301332228	12391	Federal	OW	P
GBU 2-27-8-17	27	080S	170E	4301332229	12391	Federal	OW	P
GBU 4-27-8-17	27	080S	170E	4301332230	12391	Federal	OW	P
GBU 6-27-8-17	27	080S	170E	4301332231	12391	Federal	OW	P
GBU 7-27-8-17	27	080S	170E	4301332232	12391	Federal	OW	P
GBU 8-27-8-17	27	080S	170E	4301332233	12391	Federal	OW	P
GBU 9-27-8-17	27	080S	170E	4301332234	12391	Federal	OW	P
GBU 10-27-8-17	27	080S	170E	4301332235	12391	Federal	OW	P
GBU 11-27-8-17	27	080S	170E	4301332243	12391	Federal	OW	P
GBU 13-27-8-17	27	080S	170E	4301332244	12391	Federal	OW	P
GBU 14-27-8-17	27	080S	170E	4301332245	12391	Federal	OW	P
TAR SANDS FED 9-28-8-17	28	080S	170E	4301332067	12391	Federal	WI	A
TAR SANDS FED 8-28-8-17	28	080S	170E	4301332068	12391	Federal	OW	P
TAR SANDS FED 7-28-8-17	28	080S	170E	4301332069	12391	Federal	WI	A
TAR SANDS FED 15-28-8-17	28	080S	170E	4301332109	12391	Federal	WI	A
TAR SANDS FED 16-28-8-17	28	080S	170E	4301332111	12391	Federal	OW	P
GREATER BOUNDARY 11-28-8-17	28	080S	170E	4301332134	12391	Federal	WI	A

**OPERATOR CHANGES DOCUMENTATION**

Enter date after each listed item is completed

- (R649-8-10) Sundry or legal documentation was received from the **FORMER** operator on: 9/15/2004
- (R649-8-10) Sundry or legal documentation was received from the **NEW** operator on: 9/15/2004
- The new company was checked on the **Department of Commerce, Division of Corporations Database** on: 2/23/2005
- Is the new operator registered in the State of Utah: YES Business Number: 755627-0143
- If **NO**, the operator was contacted on:

6a. (R649-9-2)Waste Management Plan has been received on: IN PLACE  
6b. inspections of LA PA state/fee well sites complete on: waived

7. **Federal and Indian Lease Wells:** The BLM and or the BIA has approved the merger, name change, or operator change for all wells listed on Federal or Indian leases on: BLM BIA

8. **Federal and Indian Units:**  
The BLM or BIA has approved the successor of unit operator for wells listed on: n/a

9. **Federal and Indian Communization Agreements ("CA"):**  
The BLM or BIA has approved the operator for all wells listed within a CA on: na/

10. **Underground Injection Control ("UIC")** The Division has approved UIC Form 5, **Transfer of Authority to Inject**, for the enhanced/secondary recovery unit/project for the water disposal well(s) listed on: 2/23/2005

**DATA ENTRY:**

- 1. Changes entered in the **Oil and Gas Database** on: 2/28/2005
- 2. Changes have been entered on the **Monthly Operator Change Spread Sheet** on: 2/28/2005
- 3. Bond information entered in RBDMS on: 2/28/2005
- 4. Fee/State wells attached to bond in RBDMS on: 2/28/2005
- 5. Injection Projects to new operator in RBDMS on: 2/28/2005
- 6. Receipt of Acceptance of Drilling Procedures for APD/New on: waived

**FEDERAL WELL(S) BOND VERIFICATION:**

1. Federal well(s) covered by Bond Number: UT 0056

**INDIAN WELL(S) BOND VERIFICATION:**

1. Indian well(s) covered by Bond Number: 61BSBDH2912

**FEE & STATE WELL(S) BOND VERIFICATION:**

1. (R649-3-1) The **NEW** operator of any fee well(s) listed covered by Bond Number 61BSBDH2919

2. The **FORMER** operator has requested a release of liability from their bond on: n/a\*  
The Division sent response by letter on: n/a

**LEASE INTEREST OWNER NOTIFICATION:**

3. (R649-2-10) The **FORMER** operator of the fee wells has been contacted and informed by a letter from the Division of their responsibility to notify all interest owners of this change on: n/a

**COMMENTS:**

\*Bond rider changed operator name from Inland Production Company to Newfield Production Company - received 2/23/05

43013.32243



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

REGION 8  
999 18<sup>TH</sup> STREET - SUITE 300  
DENVER, CO 80202-2466  
Phone 800-227-8917  
<http://www.epa.gov/region08>

APR - 6 2005

Ref: 8P-W-GW

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

Mr. Mike Guinn  
Vice President - Operations  
Newfield Production Co.  
Route 3 - Box 3630  
Myton, Utah 84502

RECEIVED  
APR 08 2005  
DIV. OF OIL, GAS & MINING

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

RE: ADDITIONAL WELL TO AREA PERMIT  
Boundary Area Permit: UT20702-00000  
**Greater Boundary No. 11-27-8-17**  
**Well ID: 20702-06487**  
NE SW Sec. 27 - T8S - 17E  
Duchesne County, Utah

Dear Mr. Guinn:

The Newfield Production Co. (Newfield) request **to convert** a former Green River Formation oil well, the Greater Boundary No. 11-27-8-17, to a Garden Gulch-Douglas Creek-Basal Carbonate Members of the Green River Formation enhanced recovery injection well in the Boundary Area Permit is hereby authorized. The proposed Greater Boundary No. 11-27-8-17 Class II enhanced recovery injection well is within the exterior boundary of the Boundary Area Permit UT20702-00000; is within the exterior boundary of the Uintah & Ouray Indian Reservation; and the addition is being made under the authority of 40 CFR § 144.33 (c) and the terms of the Area Permit. Unless specifically mentioned in the enclosed Authorization For An Additional Well, all terms and conditions of the original Area Permit will apply to the conversion, operation, monitoring, and plugging and abandonment of the Greater Boundary No. 11-27-8-17.

Prior to beginning injection, the Environmental Protection Agency (EPA) requires that Newfield submit for review and approval (1) the results of a **Part I (Internal) mechanical integrity test (MIT)**, (2) a **pore pressure** calculation of the injection interval, (3) an **EPA Form No. 7520-12** (Well Rework Record, enclosed).

Part II. Section C. Condition No. 4 (b), (Injection Pressure Limitation), Greater Boundary Area Permit (UT20702-00000), cites the method by which the maximum allowable injection pressure (MAIP) shall be calculated for each Additional Well to the Boundary Area Permit. As a result, the MAIP for the Greater Boundary No. 11-27-8-17 shall not exceed **1335 psig**. The Boundary Area Permit, Part II. C. 4., provides an opportunity for the permittee to request an increase, or decrease, in the initial maximum surface injection pressure.

Please be aware that Newfield does not have authorization to begin injection into the Greater Boundary No. 11-27-8-17 until the Prior to Commencing Injection requirements, listed above, have been submitted and evaluated by the EPA, and Newfield has received written authorization to begin injection from the Assistant Regional Administrator, or the Assistant Regional Administrator's authorized representative.

If Newfield has any questions, please call Mr. Dan Jackson at (800) 227-8917 (Ext. 6155), or in the Denver area at (303) 312-6155. Please submit the required pre-authorization to inject data to **ATTENTION: DAN JACKSON**, at the letterhead address, citing **MAIL CODE: 8P-W-GW** very prominently.

Sincerely,



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

enclosures: Authorization For Conversion of An Additional Well  
EPA Form No. 7520-12 (Well Rework Record)  
Guidance No. 39: Part I Mechanical Integrity (Internal)  
Schematic Diagram: Proposed Conversion

cc w/ enclosures: Maxine Natchees  
Chairperson  
Uintah & Ouray Business Committee  
Ute Indian Tribe

Elaine Willie  
Environmental Coordinator  
Ute Indian Tribe

Chester Mills  
Superintendent  
Bureau of Indian Affairs  
Uintah & Ouray Indian Agency

David Gerbig  
Operations Engineer  
Newfield Production Company  
Denver, CO 80202

Gil Hunt  
Technical Services Manager  
State of Utah - Natural Resources

Kirk Fleetwood  
Petroleum Engineer  
Bureau of Land Management  
Vernal District



1  
UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

REGION 8  
999 18<sup>TH</sup> STREET - SUITE 300  
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AUTHORIZATION FOR AN ADDITIONAL WELL  
TO THE  
BOUNDARY AREA PERMIT: UT20702-00000

The Environmental Protection Agency (EPA) authorizes the inclusion of an additional enhanced recovery injection well to the Boundary Area Permit No. UT20702-00000, as authorized by 40 CFR § 144.33 (c). The additional well is described as:

**WELL NAME: GREATER BOUNDARY NO. 11-27-8-17**

**WELL PERMIT NUMBER: UT20702-06487**

**SURFACE LOCATION: 1841' FSL & 1935' FWL (NE SW)  
Sec. 27 - T8S - R17E  
Duchesne County, Utah.**

This well is subject to all provisions of the original Boundary Area Permit No. UT20702-00000, and subsequent Modifications, unless specifically detailed below:

**UNDERGROUND SOURCE OF DRINKING WATER (USDW):** The base of the USDW (Total Dissolved Solids less than 10,000 mg/l) occurs within the Uinta Formation **less than 100 feet** from ground level (GL). The source for the location of the base of the USDW is the STATE OF UTAH: PUBLICATION NO. 2. BASE OF MODERATELY SALINE GROUND WATER IN THE UINTA BASIN, UTAH. Surface casing was set at **303 feet** kelly bushing (KB) and cemented to the surface.

Reference: <http://NRWRT1.NR.STATE.UT.US...> Water Rights...Queries...POD: Within the one-quarter (1/4) mile Area-of-Review (AOR) around the Greater Boundary No. 11-27-8-17 there are no reservoirs, streams, springs or wells.

**WATER ANALYSES:**

**Produced Green River Formation Water: (6/24/04) 13,507 mg/l TDS.**

**Source Water: Johnson Water District Reservoir. (3/31/04) 400 mg/l TDS.**

**Blended Injectate: (6/30/01) 7518 mg/l TDS.**



**CONFINING ZONE REVIEW: GREATER BOUNDARY NO. 11-27-8-17.**

The EPA has authorized the gross interval from the top of the Garden Gulch Member to the top of the Wasatch as the enhanced recovery injection interval within the Boundary Area Permit. Overlying the top of the Garden Gulch Member (4092 feet), in the Greater Boundary No. 11-27-8-17, are sixty (60) feet of Green River Formation black, slightly silty, impervious shale which forms an effective lithologic **confining zone 3900 feet to 3960 feet.**

**INJECTION ZONE REVIEW: GREATER BOUNDARY NO. 11-27-8-17.**

The Boundary Final Area Permit (Effective February 8, 1994) authorized injection into the Douglas Creek Member of the Green River Formation. By Major Permit Modification No. 3 (Effective May 19, 2003), the EPA authorized the gross Green River Formation Garden Gulch-Douglas Creek-Basal Carbonate Members as the enhanced recovery injection interval for the Boundary Area Permit. This Modification also recognized the **Federal No. 1-26** (NE NW Sec. 26 - T8S - R17E), UIC Permit No. UT20702-04671, as the **TYPE WELL** for identifying the tops of the Garden Gulch Member, the Douglas Creek Member, the Basal Carbonate Member, the top of the Wasatch Formation and the "Confining Zone" overlying the top of the Garden Gulch Member.

**The authorized injection zone for the Greater Boundary No. 11-27-8-17 will be from the Garden Gulch Member (3960 feet) to the top of the Wasatch Formation (Estimated to be 6351 feet).**

Lithologically, the gross authorized enhanced recovery injection interval, Garden Gulch to the top of the Wasatch Formation, is fluvial and lacustrine shale, fluvial and lacustrine sandstone, lacustrine marlstone, and limestone. The Uinta and Green River Formations are predominantly non-lacustrine fluvial shale and sandstone on the basin margins, whereas lacustrine deposition predominates in the central basin area for these two formations. The Wasatch Formation is predominantly fluvial, except for increasing minor lacustrine deposition in the central basin area.

**WELL CONSTRUCTION REVIEW: GREATER BOUNDARY NO. 11-27-8-17.**

**SURFACE CASING:** 8-5/8 inch casing is set at 303 feet in a 12-1/4 inch hole, using 150 sacks of Class "G" cement circulated to the surface. The base of the USDW is less than 100 feet from ground level.

**LONGSTRING CASING:** 5-1/2 inch casing is set at 6280 feet kelly bushing (KB) in a 7-7/8 inch hole, and cemented with 310 sacks of Premium Lite II mixed and 400 sacks of 50/50 Pozmix.

The operator identifies the top of cement at 120 feet.

The EPA analysis of the CBL/GR identifies 80% cement bond index from 3838 feet to 4047 feet.

An EPA analysis of the Greater Boundary No. 11-27-8-17 CBL/GR did identify continuous 80% bond index cement bond across the Garden Gulch Member confining zone, pursuant to standards of Region 8 GROUND WATER SECTION GUIDANCE NO. 34: Cement Bond Logging Techniques and Interpretation.

Therefore, it **has been determined that the cement in this well may provide an effective barrier** to upward movement of fluids through vertical channels adjacent to the wellbore, pursuant to 40 CFR 146.8 (a) (2).

## PART II. A. CONSTRUCTION REQUIREMENTS FOR ADDITIONAL WELLS

### Tubing and Packer:

(Condition 3)

For injection purposes, the **Greater Boundary No. 11-27-8-17** shall be equipped with 2-7/8 tubing with a packer to be set at a depth no higher than 100 feet above the top perforation.

### Formation Testing and Logging

(Condition 6)

- (a) Upon conversion of the **Greater Boundary No. 11-27-8-17**, the permittee is required to determine the injection zone **fluid pore pressure** (static bottom hole pressure) prior to commencement of enhanced recovery injection operation. The results of this test shall be submitted to the EPA.
- (b) A **Step-Rate Test (SRT)** shall be performed on the **Greater Boundary No. 11-27-8-17** within three (3) to six (6) months after injection operations are initiated and the results submitted to the EPA. The permittee may contact the EPA prior to conducting the SRT to acquire the most current Guidance for conducting the SRT.

## PART II. B.

### Corrective Action

As of April 2005, there are two (2) active Green River oil wells within the one-quarter (1/4) mile radius around the Greater Boundary No. 11-27-8-17. No wells need Corrective Action.

**Garden Gulch-Douglas Creek Members Oil Well:**

<b><u>Greater Boundary No. 12-27-8-17:</u></b>	<b>NW SW Sec. 27 -T8S-R17E</b>
Top Garden Gulch Member:	4044 feet
Garden Gulch Confining Zone:	4006 feet to 4044 feet
Top 80% EPA Cement Bond:	4260 feet - 44291 feet
Top Douglas Creek Member:	5030 feet
Total Depth (Driller):	6302 feet in Douglas Creek Member

The 38-foot confining shale overlying the top of the Garden Gulch Member is not protected by 80% bond index cement bond. This lack of confining zone annulus cement may not prevent upward movement of injected fluids through vertical channels adjacent to the well bore. The permittee will be required to inspect the surface of this location for fluid leaks on a weekly basis. **Any observation of surface leakage may be considered as noncompliance with the Greater Boundary No. 11-27-8-17 Permit.** The Greater Boundary No. 11-27-8-17 shall suspend operations immediately, and will stay suspended until the noncompliance has been resolved, and renewed injection has been approved in writing by the Director

**Douglas Creek Member Oil Well:**

<b><u>Greater Boundary No. 14-27-8-17:</u></b>	<b>SE SW Sec. 27-T8S-R17E</b>
Top Garden Gulch Member:	3938 feet
Garden Gulch Confining Zone:	3868 feet to 3938 feet
Top 80% EPA Cement Bond:	3714 feet to 4043 feet
Top Douglas Creek Member:	4960 feet
Top Basal Carbonate Member:	6142 feet
Total Depth (Driller):	6265 feet in Basal Carbonate Member

The 70-foot confining shale overlying the top of the Garden Gulch Member is protected by 80% bond index cement bond. This confining zone annulus cement may prevent upward movement of injected fluids through vertical channels adjacent to the well bore. **Any observation of surface leakage may be considered as noncompliance with the Greater Boundary No. 11-27-8-17 Permit.** The Greater Boundary No. 11-27-8-17 shall suspend operations immediately, and will stay suspended until the noncompliance has been resolved, and renewed injection has been approved in writing by the Director.

## PART II. C.

Prior to Commencing Injection (Additional Wells)

(Condition 2)

**Greater Boundary No. 11-27-8-17:** This document is being issued without authority to inject. Prior to beginning injection, the operator is required to submit the following information for EPA review and written approval:

- A successful **mechanical integrity test (MIT)** demonstrating Part I Internal MI (Enclosed);
- a **pore pressure calculation** of the proposed injection zone; and an
- EPA Form No. 7520-12 (**Well Rework Record**, enclosed).

Injection Interval

(Condition 3)

Injection shall be limited to the gross Garden Gulch, Douglas Creek and Basal Carbonate Members of the Green River Formation from **3960 feet (KB)** to the top of the Wasatch Formation, estimated to be **6441 feet (KB)**.

Injection Pressure Limitation

(Condition 4)

Pursuant to Final Area Permit UT20702-00000, Part II. Section C. 4. (b). the maximum allowable injection pressure (MAIP) shall not exceed 1800 psig. Until such time that a Step-Rate Test (SRT) has been performed, reviewed and approved by the EPA, the initial MAIP for the Greater Boundary No. 11-27-8-17 shall not exceed **1335 psig**.

A fracture gradient (FG) of **0.750 psi/ft** is the minimum value FG calculated from four (4) sand/frac treatments. A review of FG values within Section 27, and proximate to Section 27, indicate that a FG of 0.750 is higher than most sand/frac or SRT-derived FG. A **FG of 0.733**, which value is similar to a SRT derived FG in Section 27, will be used for the calculation of the **initial MAIP** for the Greater Boundary No.11-27-8-17.

Until such time that a step-rate injectivity test (SRT) has been performed, reviewed, and approved by the EPA, the initial maximum allowable injection pressure (**MAIP**) for the **Greater Boundary No. 11-27-8-17** shall not exceed **1335 psig**.

$$\text{MAIP} = [\text{FG} - (0.433)(\text{SG}) \text{ D}]$$

$$\text{FG} = 0.733 \text{ psi/ft}$$

$$\text{SG} = 1.005$$

$$\text{D} = 4481 \text{ feet. Top perforation.}$$

$$\text{MAIP} = [0.733 - (0.433)(1.005)] 4481$$

$$\text{MAIP} = 1334 \text{ psig, but rounded up to } \mathbf{1335 \text{ psig.}}$$

Part II. C. 4. (b) Final Area Permit (UT20702-00000), has a provision whereby the operator may request an increase, or decrease, in the maximum surface injection pressure.

#### **PART II. F.**

##### Demonstration of Financial Responsibility:

(Condition 1)

The current plugging and abandonment cost for the Greater Boundary No.11-27-8-17 is estimated to be \$33,025.00. The applicant has chosen to demonstrate financial responsibility via a **Financial Statement** that has been reviewed and approved by the EPA.

#### **PART III. E.**

##### Reporting of Noncompliance:

(Condition 10)

- (a) Anticipated Noncompliance. The operator shall give advance notice to the Director of any planned changes in the permitted facility or activity which may result in noncompliance with permit requirements.
- (b) Compliance Schedules. Reports of compliance or noncompliance with, or any progress on, interim and final requirements contained in any compliance schedule of this Permit shall be submitted **no later than thirty (30) days following each schedule date.**
- (c) Written Notice of any noncompliance which may endanger health or the environment **shall be reported to the Director within five (5) days** of the time the operator becomes aware of the noncompliance. The written notice shall contain a description of the noncompliance and its cause; the period of noncompliance including dates and times; if the noncompliance has not been corrected the anticipated time it is expected to continue; and steps taken or planned to prevent or reduce recurrence of the noncompliance.

Twenty-Four Hour Noncompliance Reporting:

(Condition 11)

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 VIII UIC Program Compliance and Enforcement Director, or by contacting the Region VIII Emergency Operations Center at 303-293-1788 if calling from outside EPA Region VIII. The following information shall be included in the verbal report:

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

Oil Spill and Chemical Release Reporting:

(Condition 12)

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

Other Noncompliance:

(Condition 13)

The operator shall report all other instances of noncompliance not otherwise reported at the time monitoring reports are submitted. The reports shall contain the information listed in Part III. 10. c. ii. of this Permit.

Other Information: Where the operator becomes aware that he failed to submit any relevant facts in the Permit application, or submitted incorrect information in a Permit application, or in any report to the Director, the operator shall submit such correct facts or information within two (2) weeks of the time such information became known to him.

**APPENDIX C**

PLUGGING AND ABANDONMENT: The Plugging and Abandonment (P&A) Plan (Application Attachment Q-2) submitted by the applicant has been reviewed and approved by the EPA. The P&A Plan is consistent with EPA requirements to protect all USDWs. The permittee will place 9.2 ppg plugging gel or bentonite mud between all cement plugs.

PLUG NO. 1: Set a cast iron bridge plug (CIBP) at 4386 feet. Place 100 feet of Class "G" cement on top of CIBP.

PLUG NO. 2: Set a cement plug inside of the 5-1/2 inch casing from 2000 feet to 2200 feet over a water zone.

PLUG NO. 3: Pump Class "G" cement from the surface down the 5-1/2 inch casing to a depth of 354 feet.

This authorization for well conversion of the Greater Boundary No. 11-27-8-17 to an injection well becomes effective upon signature.

Date: APR - 6 2005

Carol L. Campbell

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



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

REGION VIII

999 18th STREET - SUITE 500  
DENVER, COLORADO 80202-2466

SUBJECT: GROUND WATER SECTION GUIDANCE NO. 39  
Pressure testing injection wells for Part I (internal)  
Mechanical Integrity

FROM: Tom Pike, Chief  
UIC Direct Implementation Section

TO: All Section Staff  
Montana Operations Office

Introduction

The Underground Injection Control (UIC) regulations require that an injection well have mechanical integrity at all times (40 CFR 144.28 (f) (2) and 40 CFR 144.51 (q) (1)). A well has mechanical integrity (40 CFR 146.8) if:

- (1) There is no significant leak in the tubing, casing or packer; and
- (2) There is no significant fluid movement into an underground source of drinking water (USDW) through vertical channels adjacent to the injection wellbore.

Definition: Mechanical Integrity Pressure Test for Part I. A pressure test used to determine the integrity of all the downhole components of an injection well, usually tubing, casing and packer. It is also used to test tubing cemented in the hole by using a tubing plug or retrievable packer. Pressure tests must be run at least once every five years. If for any reason the tubing/packer is pulled, the injection well is required to pass another mechanical integrity test of the tubing casing and packer prior to recommencing injection regardless of when the last test was conducted. Tests run by operators in the absence of an EPA inspector must be conducted according to these procedures and recorded on either the attached form or an equivalent form containing the necessary information. A pressure recording chart documenting the actual annulus test pressures must be attached to the form.

This guidance addresses making a determination of Part I of Mechanical Integrity (no leaks in the tubing, casing or packer). The Region's policy is: 1) to determine if there are significant leaks in the tubing, casing or packer; 2) to assure that the casing can withstand pressure similar to that which

would be applied if the tubing or packer fails; 3) to make the Region's test procedure consistent with the procedures utilized by other Region VIII Primacy programs; and 4) to provide a procedure which can be easily administered and is applicable to all class I and II wells. Although there are several methods allowed for determining mechanical integrity, the principal method involves running a pressure test of the tubing/casing annulus. Region VIII's procedure for running a pressure test is intended to aid UIC field inspectors who witness pressure tests for the purpose of demonstrating that a well has Part I of Mechanical Integrity. The guidance is also intended as a means of informing operators of the procedures required for conducting the test in the absence of an EPA inspector.

### Pressure Test Description

#### Test Frequency

The mechanical integrity of an injection well must be maintained at all times. Mechanical integrity pressure tests are required at least every five (5) years. If for any reason the tubing/packer is pulled, however, the injection well is required to pass another mechanical integrity test prior to recommencing injection regardless of when the last test was conducted. The Regional UIC program must be notified of the workover and the proposed date of the pressure test. The well's test cycle would then start from the date of the new test if the well passes the test and documentation is adequate. Tests may be required on a more frequent basis depending on the nature of the injectate and the construction of the well (see Section guidance on MITs for wells with cemented tubing and regulations for Class I wells).

Region VIII's criteria for well testing frequency is as follows:

1. Class I hazardous waste injection wells; initially [40 CFR 146.68(d)(1)] and annually thereafter;
2. Class I non-hazardous waste injection wells; initially and every two (2) years thereafter, except for old permits (such as the disposal wells at carbon dioxide extraction plants which require a test at least every five years);
3. Class II wells with tubing, casing and packer; initially and at least every five (5) years thereafter;
4. Class II wells with tubing cemented in the hole; initially and every one (1) or two (2) years thereafter

depending on well specific conditions (See Region VIII UIC Section Guidance #36);

5. Class II wells which have been temporarily abandoned (TAd) must be pressure tested after being shut-in for two years; and
6. Class III uranium extraction wells; initially.

#### Test Pressure

To assure that the test pressure will detect significant leaks and that the casing is subjected to pressure similar to that which would be applied if the tubing or packer fails, the tubing/casing annulus should be tested at a pressure equal to the maximum allowed injection pressure or 1000 psig whichever is less. The annular test pressure must, however, have a difference of at least 200 psig either greater or less than the injection tubing pressure. Wells which inject at pressures of less than 300 psig must test at a minimum pressure of 300 psig, and the pressure difference between the annulus and the injection tubing must be at least 200 psi.

#### Test Criteria

1. The duration of the pressure test is 30 minutes.
2. Both the annulus and tubing pressures should be monitored and recorded every five (5) minutes.
3. If there is a pressure change of 10 percent or more from the initial test pressure during the 30 minute duration, the well has failed to demonstrate mechanical integrity and should be shut-in until it is repaired or plugged.
4. A pressure change of 10 percent or more is considered significant. If there is no significant pressure change in 30 minutes from the time that the pressure source is disconnected from the annulus, the test may be completed as passed.

#### Recordkeeping and Reporting

The test results must be recorded on the attached form. The annulus pressure should be recorded at five (5) minute intervals. Tests run by operators in the absence of an EPA inspector must be conducted according to these procedures and recorded on the attached form or an equivalent form and a pressure recording

chart documenting the actual annulus test pressures must be attached to the submittal. The tubing pressure at the beginning and end of each test must be recorded. The volume of the annulus fluid bled back at the surface after the test should be measured and recorded on the form. This can be done by bleeding the annulus pressure off and discharging the associated fluid into a five gallon container. The volume information can be used to verify the approximate location of the packer.

#### Procedures for Pressure Test

1. Scheduling the test should be done at least two (2) weeks in advance.
2. Information on the well completion (location of the packer, location of perforations, previous cement work on the casing, size of casing and tubing, etc.) and the results of the previous MIT test should be reviewed by the field inspector in advance of the test. Regional UIC Guidance #35 should also be reviewed. Information relating to the previous MIT and any well workovers should be reviewed and taken into the field for verification purposes.
3. All Class I wells and Class II SWD wells should be shut-in prior to the test. A 12 to 24-hour shut-in is preferable to assure that the temperature of the fluid in the wellbore is stable.
4. Class II enhanced recovery wells may be operating during the test, but it is recommended that the well be shut-in if possible.
5. The operator should fill the casing/tubing annulus with inhibited fluid at least 24 hours in advance, if possible. Filling the annulus should be undertaken through one valve with the second valve open to allow air to escape. After the operator has filled the annulus, a check should be made to assure that the annulus will remain full. If the annulus can not maintain a full column of fluid, the operator should notify the Director and begin a rework. The operator should measure and report the volume of fluid added to the annulus. If not already the case, the casing/tubing valves should be closed, at least, 24 hours prior to the pressure test.

Following steps are at the well:

6. Read tubing pressure and record on the form. If the

well is shut-in, the reported information on the actual maximum operating pressure should be used to determine test pressures.

7. Read pressure on the casing/tubing annulus and record value on the form. If there is pressure on the annulus, it should be bled off prior to the test. If the pressure will not bleed-off, the guidance on well failures (Region VIII UIC Section Guidance #35) should be followed.
8. Ask the operator for the date of the last workover and the volume of fluid added to the annulus prior to this test and record information on the form.
9. Hook-up well to pressure source and apply pressure until test value is reached.
10. Immediately disconnect pressure source and start test time (If there has been a significant drop in pressure during the process of disconnection, the test may have to be restarted). The pressure gages used to monitor injection tubing pressure and annulus pressure should have a pressure range which will allow the test pressure to be near the mid-range of the gage. Additionally, the gage must be of sufficient accuracy and scale to allow an accurate reading of a 10 percent change to be read. For instance, a test pressure of 600 psi should be monitored with a 0 to 1000 psi gage. The scale should be incremented in 20 psi increments.
11. Record tubing and annulus pressure values every five (5) minutes.
12. At the end of the test, record the final tubing pressure.
13. If the test fails, check the valves, bull plugs and casing head close up for possible leaks. The well should be retested.
14. If the second test indicates a well failure, the Region should be informed of the failure within 24 hours by the operator, and the well should be shut-in within 48 hours per Headquarters guidance #76. A follow-up letter should be prepared by the operator which outlines the cause of the MIT failure and proposes a potential course of action. This report should be submitted to EPA within five days.

15. Bleed off well into a bucket, if possible, to obtain a volume estimate. This should be compared to the calculated value obtained using the casing/tubing annulus volume and fluid compressibility values.
16. Return to office and prepare follow-up.

#### Alternative Test Option

While it is expected that the test procedure outlined above will be applicable to most wells, the potential does exist that unique circumstances may exist for a given well that precludes or makes unsafe the application of this test procedure. In the event that these exceptional or extraordinary conditions are encountered, the operator has the option to propose an alternative test or monitoring procedures. The request must be submitted by the operator in writing and must be approved in writing by the UIC-Implementation Section Chief or equivalent level of management.

Attachment

# Mechanical Integrity Test

## Casing or Annulus Pressure Mechanical Integrity Test

U.S. Environmental Protection Agency  
Underground Injection Control Program, UIC Direct Implementation Program 8P-W-GW  
999 18<sup>th</sup> Street, Suite 500 Denver, CO 80202-2466

EPA Witness: \_\_\_\_\_ Date: \_\_\_\_/\_\_\_\_/\_\_\_\_  
 Test conducted by: \_\_\_\_\_  
 Others present: \_\_\_\_\_

Well Name: _____	Type: ER SWD	Status: AC TA UC
Field: _____		
Location: _____	Sec: ____ T ____ N/S R ____ E/W	County: _____ State: ____
Operator: _____		
Last MIT: ____/____/____	Maximum Allowable Pressure: _____	PSIG

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

Pre-test casing/tubing annulus pressure: \_\_\_\_\_ psig

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



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
WASHINGTON, DC 20460

**WELL REWORK RECORD**

NAME AND ADDRESS OF PERMITTEE	NAME AND ADDRESS OF CONTRACTOR
-------------------------------	--------------------------------

<p>LOCATE WELL AND OUTLINE UNIT ON SECTION PLAT — 640 ACRES</p> <p style="text-align:center">N</p> <table border="1" style="width:100%; height:150px;"> <tr><td></td><td></td><td></td><td></td><td></td><td></td></tr> </table> <p style="text-align:center">S</p> <p style="text-align:left">W</p> <p style="text-align:right">E</p>																																																													STATE	COUNTY	PERMIT NUMBER
SURFACE LOCATION DESCRIPTION ____ 1/4 of ____ 1/4 of ____ 1/4 of ____ 1/4 of Section ____ Township ____ Range ____																																																															
LOCATE WELL IN TWO DIRECTIONS FROM NEAREST LINES OF QUARTER SECTION AND DRILLING UNIT Surface Location ____ ft. from (N/S) ____ Line of quarter section and ____ ft. from (E/W) ____ Line of quarter section																																																															
<p><b>WELL ACTIVITY</b></p> <input type="checkbox"/> Brine Disposal <input type="checkbox"/> Enhanced Recovery <input type="checkbox"/> Hydrocarbon Storage  Lease Name _____	Total Depth Before Rework _____  Total Depth After Rework _____  Date Rework Commenced _____  Date Rework Completed _____	<p><b>TYPE OF PERMIT</b></p> <input type="checkbox"/> Individual <input type="checkbox"/> Area Number of Wells _____  Well Number _____																																																													

**WELL CASING RECORD — BEFORE REWORK**

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

**WELL CASING RECORD — AFTER REWORK (Indicate Additions and Changes Only)**

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

DESCRIBE REWORK OPERATIONS IN DETAIL  
USE ADDITIONAL SHEETS IF NECESSARY

**WIRE LINE LOGS. LIST EACH TYPE**

Log Types	Logged Intervals

**CERTIFICATION**

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

NAME AND OFFICIAL TITLE (Please type or print)	SIGNATURE	DATE SIGNED
--	-----------	-------------

# Greater Boundary #11-27-8-17

Spud Date: 2/26/2003  
 Put on Production: 3/21/2003  
 GL: 5080' KB: 5092'

Initial Production: 68 BOPD,  
 70 MCFD, 13 BWPD

## Proposed Injection Wellbore Diagram

### SURFACE CASING

CSG SIZE: 8-5/8"  
 GRADE: J-55  
 WEIGHT: 24#  
 LENGTH: 7 jts. (293.86')  
 DEPTH LANDED: 303.86' KB *B25C-43910 < 100'*  
 HOLE SIZE: 12-1/4"  
 CEMENT DATA: 150 sxs Class "G" crmt, est 4 bbls crmt to surf.

### PRODUCTION CASING

CSG SIZE: 5-1/2"  
 GRADE: J-55  
 WEIGHT: 15.5#  
 LENGTH: 146 jts. (6282.84') *80% Bond*  
 DEPTH LANDED: 6280.84' KB  
 HOLE SIZE: 7-7/8"  
 CEMENT DATA: 310 sxs Prem. Lite II mixed & 400 sxs 50/50 POZ.  
 CEMENT TOP AT: 120'

### TUBING

SIZE/GRADE/WT.: 2-7/8" / J-55 / 6.5#  
 NO. OF JOINTS: 182 jts (5892.43')  
 TUBING ANCHOR: 5904.43' KB  
 NO. OF JOINTS: 2 jts (64.16')  
 SEATING NIPPLE: 2-7/8" (1.10')  
 SN LANDED AT: 5971.39' KB  
 NO. OF JOINTS: 2 jts (65.09')  
 TOTAL STRING LENGTH: EOT @ 6038.03' KB

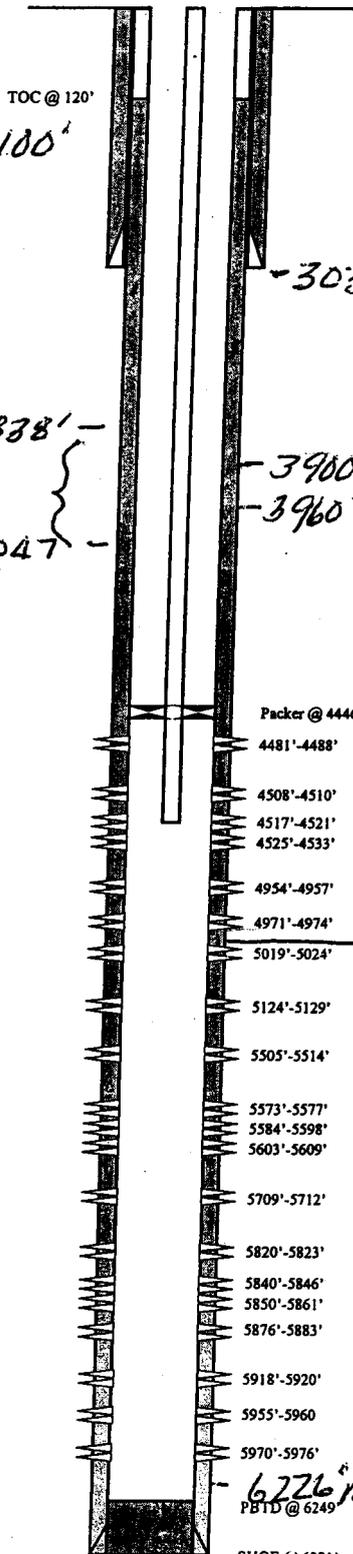
### FRAC JOB

3/17/03 5820'-5976' Frac CP sands as follows:  
 122,845# 20/40 sand in 882 bbls Viking I-25 fluid. Treated @ avg press of 1317 psi w/avg rate of 24.4 BPM. ISIP 1860 psi. Calc flush: 5820 gal. Actual flush: 5754 gal.

3/17/03 5505'-5712' Frac A3, BS and LODC sands as follows:  
 117,490# 20/40 sand in 840 bbls Viking I-25 fluid. Treated @ avg press of 1884 psi w/avg rate of 30.2 BPM. ISIP 1960 psi. Calc flush: 5505 gal. Actual flush: 5418 gal.

3/17/03 4954'-5129' Frac D and C sands as follows:  
 47,866# 20/40 sand in 413 bbls Viking I-25 fluid. Treated @ avg press of 1726 psi w/avg rate of 23.0 BPM. ISIP 1975 psi. Calc flush: 4954 gal. Actual flush: 4872 gal.

3/17/03 4481'-4533' Frac GB sands as follows:  
 67,505# 20/40 sand in 515 bbls Viking I-25 fluid. Treated @ avg press of 1764 psi w/avg rate of 23.0 BPM. ISIP 2130 psi. Calc flush: 4481 gal. Actual flush: 4368 gal.



### PERFORATION RECORD

Date	Depth Range	Perforation Type	Holes
3/14/03	5970'-5976'	4 JSPF	24 holes
3/14/03	5955'-5960'	4 JSPF	20 holes
3/14/03	5918'-5920'	4 JSPF	8 holes
3/14/03	5876'-5883'	4 JSPF	28 holes
3/14/03	5850'-5861'	4 JSPF	44 holes
3/14/03	5840'-5846'	4 JSPF	24 holes
3/14/03	5820'-5823'	4 JSPF	12 holes
3/17/03	5709'-5712'	4 JSPF	12 holes
3/17/03	5603'-5609'	4 JSPF	24 holes
3/17/03	5584'-5598'	4 JSPF	56 holes
3/17/03	5573'-5577'	4 JSPF	16 holes
3/17/03	5505'-5514'	4 JSPF	36 holes
3/17/03	5124'-5129'	4 JSPF	20 holes
3/17/03	5019'-5024'	4 JSPF	20 holes
3/17/03	4971'-4974'	4 JSPF	12 holes
3/17/03	4954'-4957'	4 JSPF	12 holes
3/17/03	4525'-4533'	4 JSPF	32 holes
3/17/03	4517'-4521'	4 JSPF	16 holes
3/17/03	4508'-4510'	4 JSPF	8 holes
3/17/03	4481'-4488'	4 JSPF	28 holes



**Inland Resources Inc.**

**Greater Boundary #11-27-8-17**

1935' FWL & 1841' FSL

NE/SW Section 27-T8S-R17E

Duchesne Co, Utah

API #43-013-32243; Lease #UTU-76241

*-Est Wasatch 6351'*

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

5. LEASE DESIGNATION AND SERIAL NUMBER:  
UTU76241

**SUNDRY NOTICES AND REPORTS ON WELLS**

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

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

7. UNIT or CA AGREEMENT NAME:  
GREATER BOUNDARY II

1. TYPE OF WELL: OIL WELL  GAS WELL  OTHER

8. WELL NAME and NUMBER:  
GREATER BOUNDARY 11-27-8-17

2. NAME OF OPERATOR:  
Newfield Production Company

9. API NUMBER:  
4301332243

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: 1935 FWL 1841 FSL

COUNTY: Duchesne

OTR/OTR. SECTION. TOWNSHIP. RANGE. MERIDIAN: NE/SW, 27, T8S, R17E

STATE: Utah

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

TYPE OF ACTION SubDate

TYPE OF SUBMISSION	TYPE OF ACTION		
<input type="checkbox"/> NOTICE OF INTENT (Submit in Duplicate)  Approximate date work will  _____	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> REPERFORATE CURRENT FORMATION
	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> SIDETRACK TO REPAIR WELL
	<input type="checkbox"/> CASING REPAIR	<input type="checkbox"/> NEW CONSTRUCTION	<input type="checkbox"/> TEMPORARITLY ABANDON
	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> TUBING REPAIR
	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> VENT OR FLAIR
<input checked="" type="checkbox"/> SUBSEQUENT REPORT (Submit Original Form Only)  Date of Work Completion:  06/10/2005	<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: - Injection Conversion
	<input type="checkbox"/> CONVERT WELL TYPE	<input type="checkbox"/> RECOMPLETE - DIFFERENT FORMATION	

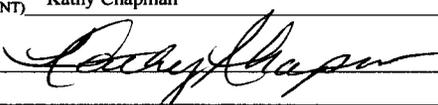
12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

The subject well was converted from a producing to a injection well on 5-20-05. The rods and tubing anchor were removed and a packer was inserted in bottom hole assembly at 4420' On 5-13-05 Dan Jackson with the EPA was contacted concerning teh initial MIT on the above listed well. Permission was given at that time to perform the test on 6-9-05. On 6-9-05 the csg was pressured up to 190 psig and charted for 30 minutes with no pressure loss. The well was not injecting during the test. The Tbg pressure was 2500 psig during the test. There was not an EPA representative available to witness the test. EPA # UT20702-06487 API #43-013-32243.

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

NAME (PLEASE PRINT) Kathy Chapman

TITLE Office Manager

SIGNATURE 

DATE 06/13/2005

(This space for State use only)

**RECEIVED**

**JUN 15 2005**

DIV. OF OIL, GAS & MINING

# Mechanical Integrity Test

## Casing or Annulus Pressure Mechanical Integrity Test

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

EPA Witness: \_\_\_\_\_ Date: 06/09/05  
 Test conducted by: - Dale Giles  
 Others present: \_\_\_\_\_

Well Name: <u>Greater Boundary 11-27-8-17</u>	Type: ER SWD	Status: AC TA UC
Field: <u>Greater Boundary 11 unit</u>		
Location: _____	Sec: <u>27</u> T <u>8</u> N <u>8</u> R <u>17</u> (E) W	County: <u>Duchesne</u> State: <u>Ut</u>
Operator: <u>Newfield Production Co.</u>		
Last MIT: <u>1</u> / <u>1</u>	Maximum Allowable Pressure:	PSIG

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

Pre-test casing/tubing annulus pressure: 0 psig

MIT DATA TABLE	Test #1		Test #2		Test #3	
<b>TUBING</b>	<b>PRESSURE</b>					
Initial Pressure	<u>250</u>	psig		psig		psig
End of test pressure	<u>250</u>	psig		psig		psig
<b>CASING/TUBING</b>	<b>ANNULUS</b>		<b>PRESSURE</b>			
0 minutes	<u>1190</u>	psig		psig		psig
5 minutes	<u>1190</u>	psig		psig		psig
10 minutes	<u>1190</u>	psig		psig		psig
15 minutes	<u>1190</u>	psig		psig		psig
20 minutes	<u>1190</u>	psig		psig		psig
25 minutes	<u>1190</u>	psig		psig		psig
30 minutes	<u>1190</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: \_\_\_\_\_

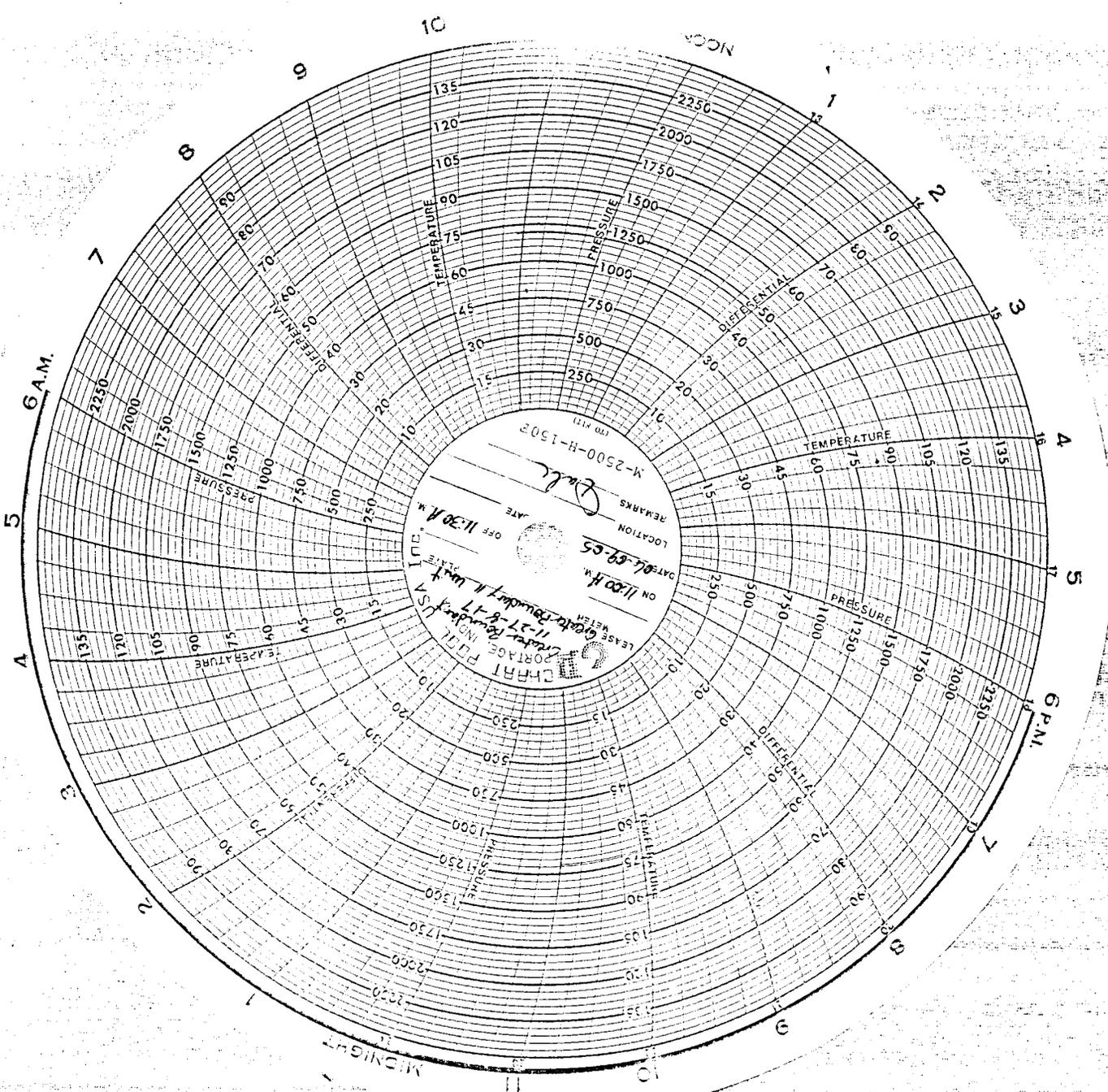


CHART PLOT  
 DATE 11-27-87  
 LOCATION Greater Round Bay, N. West  
 ON 1120 H.M.  
 LEASE MEN  
 M-2500-H-1502  
 REMARKS  
 OFF 11:30 A.M.  
 DATE  
 DATE



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

REGION 8  
999 18<sup>TH</sup> STREET - SUITE 300  
DENVER, CO 80202-2466  
<http://www.epa.gov/region08>

JUN 30 2005

Ref: 8P-W-GW

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

Mr. Mike Guinn  
Vice President - Operations  
Newfield Production Company  
Route 3 - Box 3630  
Myton, UT 84502

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

REF: UNDERGROUND INJECTION CONTROL (UIC)  
**Authority to Commence Injection**  
**Well Permit No. UT20702-06487**  
**Greater Boundary No. 11-27-8-17**  
Duchesne County, Utah

Dear Mr. Guinn:

Newfield Production Company (Newfield) has satisfactorily fulfilled all the Environmental Protection Agency's (EPA) **Prior to Commencing Injection** requirements in the Boundary Area Permit UT20702-00000 (Effective February 8, 1994), and the Additional Well to the Area Permit, UT20702-06487 (Effective April 6, 2005). All Prior to Injection Requirements, i.e., Part I (Internal) Mechanical Integrity Test, Well Rework Record (EPA Form No. 7520-12), and a pore pressure were reviewed and approved by the EPA on June 15, 2005.

Newfield, as of the date of this letter, is authorized to commence injection into the Greater Boundary No. 11-27-8-17. There will be no limitation on the number of barrels of water that will be injected into the Green River Formation interval 3960 feet to the top of the Wasatch Formation which is estimated to be 6351 feet. Until such time that the permittee demonstrates through a Step-Rate Injectivity Test that the fracture gradient is other than 0.733 psi/ft, the Greater Boundary No. 11-27-8-17 shall be operated at a **maximum allowable injection pressure no greater than 1335 psig**.

As of this approval, responsibility for Permit compliance and enforcement is transferred to the Region VIII UIC Technical Enforcement Program office. Therefore, please direct all future notification, reporting, monitoring and compliance correspondence to the following address, referencing your well name and UIC Permit number on all correspondence regarding this well:

RECEIVED

JUL 05 2005

DIV. OF OIL, GAS & MINING



Printed on Recycled Paper

Mr. Nathan Wiser  
Technical Enforcement Program - UIC  
U.S. EPA Region VIII: Mail Code 8ENF-UFO  
999-18th Street - Suite 300  
Denver, CO 80202-2466  
Phone: 303-312-6211, or 1.800.227.8917 (Ext. 6211)

Please be reminded that it is your responsibility to be aware of and to comply with all conditions of Boundary Area Permit UT20702-00000, and the well Permit UT20702-06487. If you have any questions in regard to the above action, please contact Dan Jackson at 303-312-6155 in the Denver area, or 1.800.227.8917 (Ext. 6155).

Sincerely,

  
Tracy M. Eagle  
Director  
Ground Water Program

cc: Maxine Natchees  
Chairperson  
Uintah & Ouray Business Committee  
Ute Indian Tribe

Elaine Willie  
Environmental Coordinator  
Ute Indian Tribe

Chester Mills  
Superintendent  
Bureau of Indian Affairs  
Uintah & Ouray Indian Agency

David Gerbig  
Newfield Production Company  
Denver, CO 80202

Gil Hunt  
Technical Services Manager  
State of Utah - Natural Resources

Kirk Fleetwood  
Sr. Petroleum Engineer  
Bureau of Land Management  
Vernal District

Nathan Wiser  
8ENF-UFO

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

RECEIVED

JUL 18 2005

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

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

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

1. Type of Well  
 Oil Well    Gas Well    Other   Injection well

2. Name of Operator  
 Newfield Production Company

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

3b. Phone No. (include area code)  
 435.646.3721

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)  
 1935 FWL 1841 FSL  
 NE/SW   Section 27 T8S R17E

5. Lease Serial No.  
 UTU76241

6. If Indian, Allottee or Tribe Name.

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

8. Well Name and No.  
 GREATER BOUNDARY 11-27-8-17

9. API Well No.  
 4301332243

10. Field and Pool, or Exploratory Area  
 Monument Butte

11. County or Parish, State  
 Duchesne, UT

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

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

The above referenced well was put on injection at 10:00 a.m. on 7/11/05.

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

I hereby certify that the foregoing is true and correct	Title
Name (Printed/Typed) Mandie Crozier	Regulatory Specialist
Signature <i>Mandie Crozier</i>	Date 07/15/2005

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

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

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

(Instructions on reverse)

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

5. LEASE DESIGNATION AND SERIAL NUMBER: UTU76241
6. IF INDIAN, ALLOTTEE OR TRIBE NAME:
7. UNIT or CA AGREEMENT NAME: GREATER BOUNDARY II
8. WELL NAME and NUMBER: GREATER BOUNDARY 11-27-8-17
9. API NUMBER: 4301332243
10. FIELD AND POOL, OR WILDCAT: Monument Butte

**SUNDRY NOTICES AND REPORTS ON WELLS**

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

1. TYPE OF WELL: OIL WELL  GAS WELL  OTHER  Injection well

2. NAME OF OPERATOR:  
Newfield Production Company

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

4. LOCATION OF WELL:  
FOOTAGES AT SURFACE: 1935 FWL 1841 FSL COUNTY: Duchesne  
OTR/TR. SECTION. TOWNSHIP. RANGE. MERIDIAN: NE/SW, 27, T8S, R17E STATE: Utah

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

TYPE OF SUBMISSION	TYPE OF ACTION		
	SubDate	TYPE OF ACTION	
<input type="checkbox"/> NOTICE OF INTENT (Submit in Duplicate) Approximate date work will _____	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> REPERFORATE CURRENT FORMATION
	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> SIDETRACK TO REPAIR WELL
	<input type="checkbox"/> CASING REPAIR	<input type="checkbox"/> NEW CONSTRUCTION	<input type="checkbox"/> TEMPORARITLY ABANDON
	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> TUBING REPAIR
	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> VENT OR FLAIR
<input checked="" type="checkbox"/> SUBSEQUENT REPORT (Submit Original Form Only) Date of Work Completion: 12/09/2005	<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: - Step Rate Test
	<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.

A step rate test was conducted on the subject well on December 6, 2005. Results from the test indicate that the fracture gradient is .750 psi/ft. Therefore, Newfield is requesting that the maximum allowable injection pressure (MAIP) be changed to 1410 psi.

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

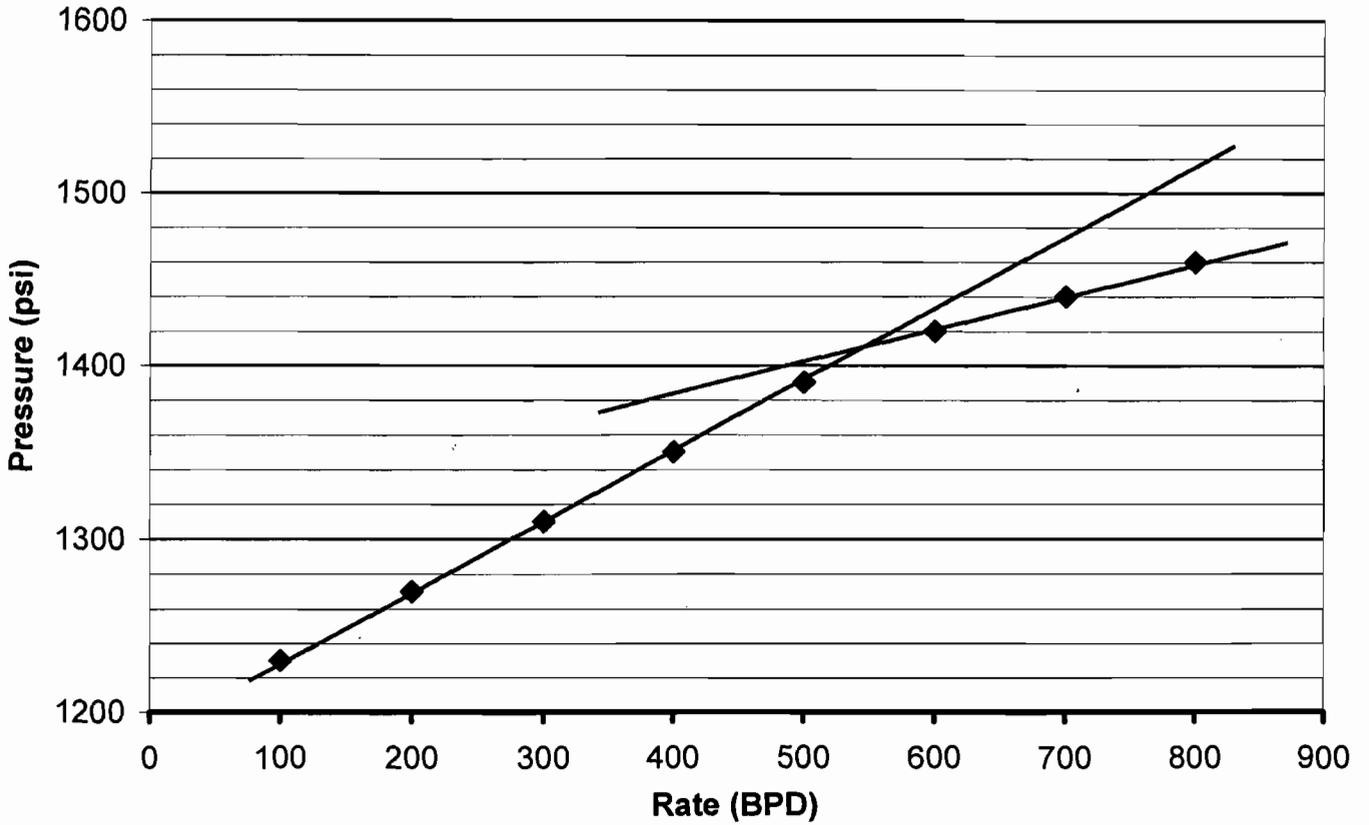
NAME (PLEASE PRINT) Cheyenne Batemen TITLE Well Analyst Foreman

SIGNATURE  DATE 12/09/2005

(This space for State use only)

**RECEIVED**  
**DEC 09 2005**  
DIV. OF OIL, GAS & MINING

**Greater Boundary 11-27-8-17  
Greater Boundary II Unit  
Step Rate Test  
December 6, 2005**



**Start Pressure:** 1195 psi  
**Instantaneous Shut In Pressure (ISIP):** 1430 psi  
**Top Perforation:** 4481 feet  
**Fracture pressure (Pfp):** 1410 psi  
**FG:** 0.750 psi/ft

<u>Step</u>	<u>Rate(bpd)</u>	<u>Pressure(psi)</u>
1	100	1230
2	200	1270
3	300	1310
4	400	1350
5	500	1390
6	600	1420
7	700	1440
8	800	1460



UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

**SUNDRY NOTICES AND REPORTS ON WELL**  
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 <input checked="" type="checkbox"/> Oil Well <input type="checkbox"/> Gas Well <input type="checkbox"/> Other		5. Lease Serial No. USA UTU-76241
2. Name of Operator NEWFIELD PRODUCTION COMPANY		6. If Indian, Allottee or Tribe Name.
3a. Address Route 3 Box 3630 Myton, UT 84052	3b. Phone (include are code) 435.646.3721	7. If Unit or CA/Agreement, Name and/or GREATER BOUNDARY II
4. Location of Well (Footage, Sec., T., R., M., or Survey Description) 1841 FSL 1935 FWL NESW Section 27 T8S R17E		8. Well Name and No. GREATER BOUNDARY 11-27-8-17
		9. API Well No. 4301332243
		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	Step Rate Test _____
	<input type="checkbox"/> Convert to Injector	<input type="checkbox"/> Plug Back	<input type="checkbox"/> Water Disposal	_____

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

A step rate test was conducted on the subject well on August 6, 2009. Results from the test indicate that the fracture gradient is .784 psi/ft. Therefore, Newfield is requesting that the maximum allowable injection pressure (MAIP) be changed to 1540 psi.

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

I hereby certify that the foregoing is true and correct <i>Printed/ Typed</i> Chevenne Bateman	Title Well Analyst Foreman
Signature 	Date 11/06/2009

**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 _____	

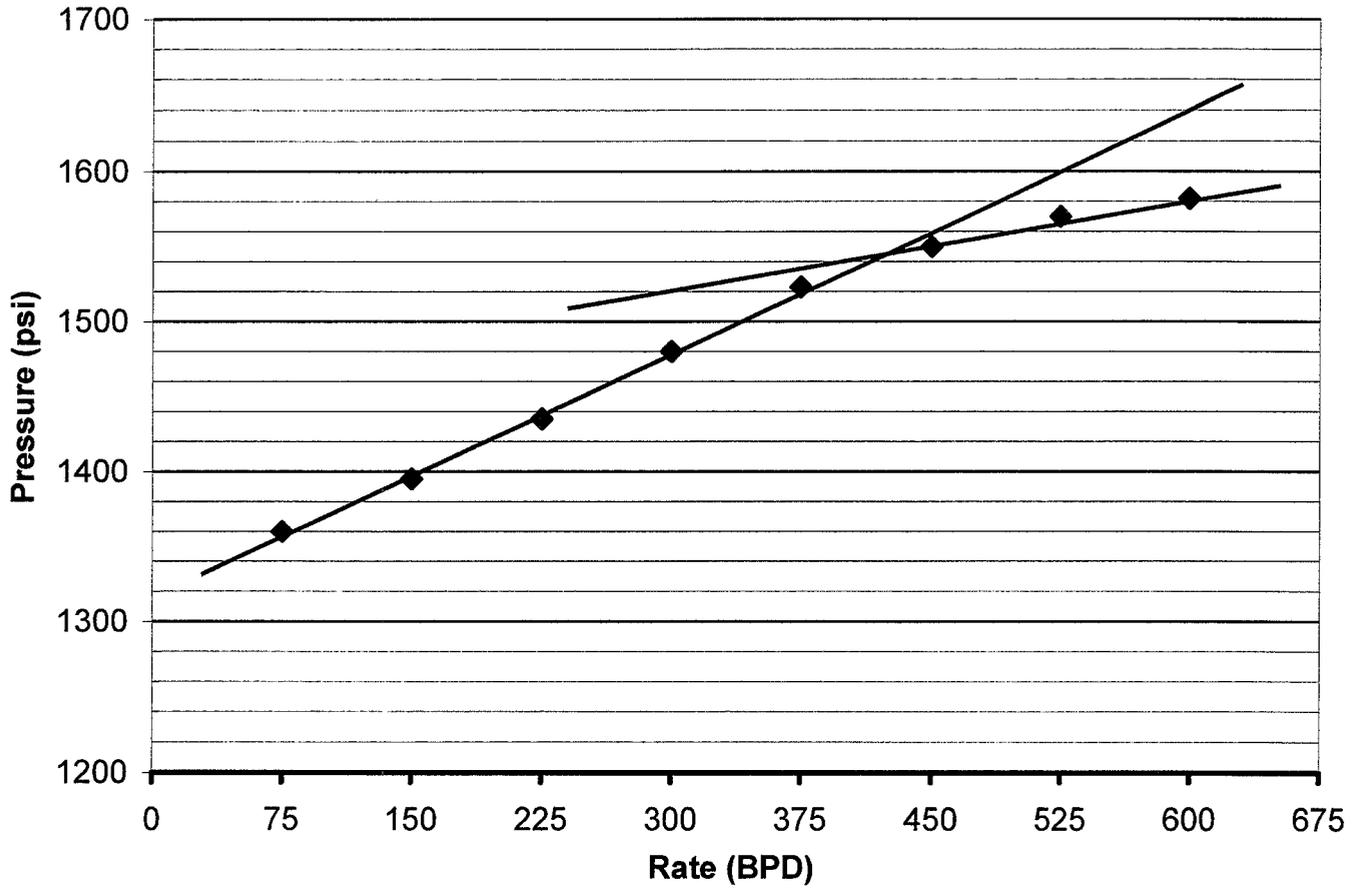
Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious and fraudulent statements or representations as to any matter within its jurisdiction

(Instructions on page 2)

**RECEIVED**

**NOV 16 2009**

**Greater Boundary 11-27-8-17  
 Greater Boundary II Unit  
 Step Rate Test  
 August 6, 2009**



<b>Start Pressure:</b>	1331 psi	<b>Step</b>	<b>Rate(bpd)</b>	<b>Pressure(psi)</b>
<b>Instantaneous Shut In Pressure (ISIP):</b>	1549 psi	1	75	1360
<b>Top Perforation:</b>	4481 feet	2	150	1395
<b>Fracture pressure (Pfp):</b>	1545 psi	3	225	1435
<b>FG:</b>	0.784 psi/ft	4	300	1480
		5	375	1523
		6	450	1550
		7	525	1570
		8	600	1582

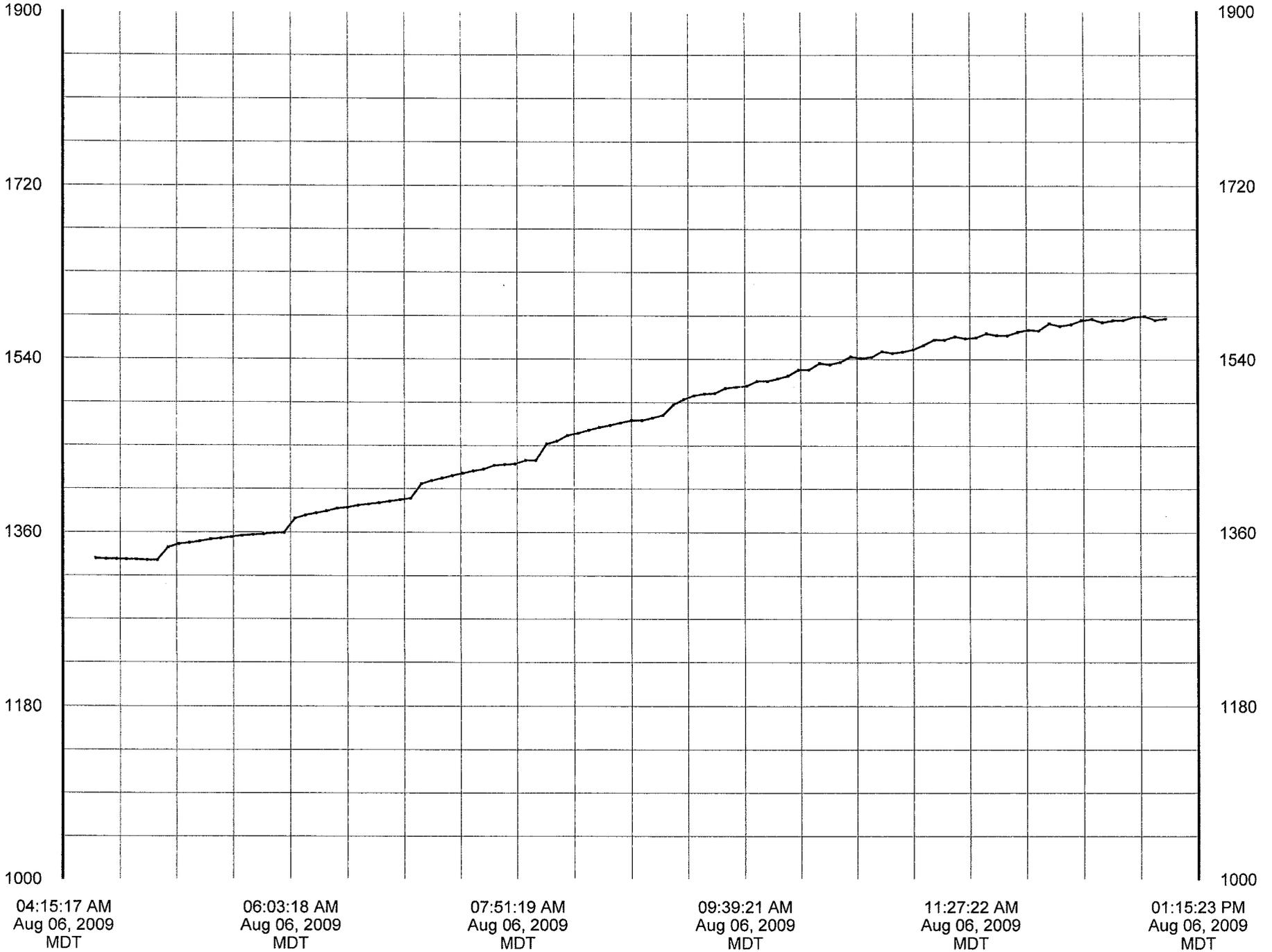
Device - PrTemp1000  
Serial Number - M75866  
Device ID - PrTemp

Greater Boundary 11-27-8-17 SRT  
(8-6-09)

Absolute Pressure

PSIA

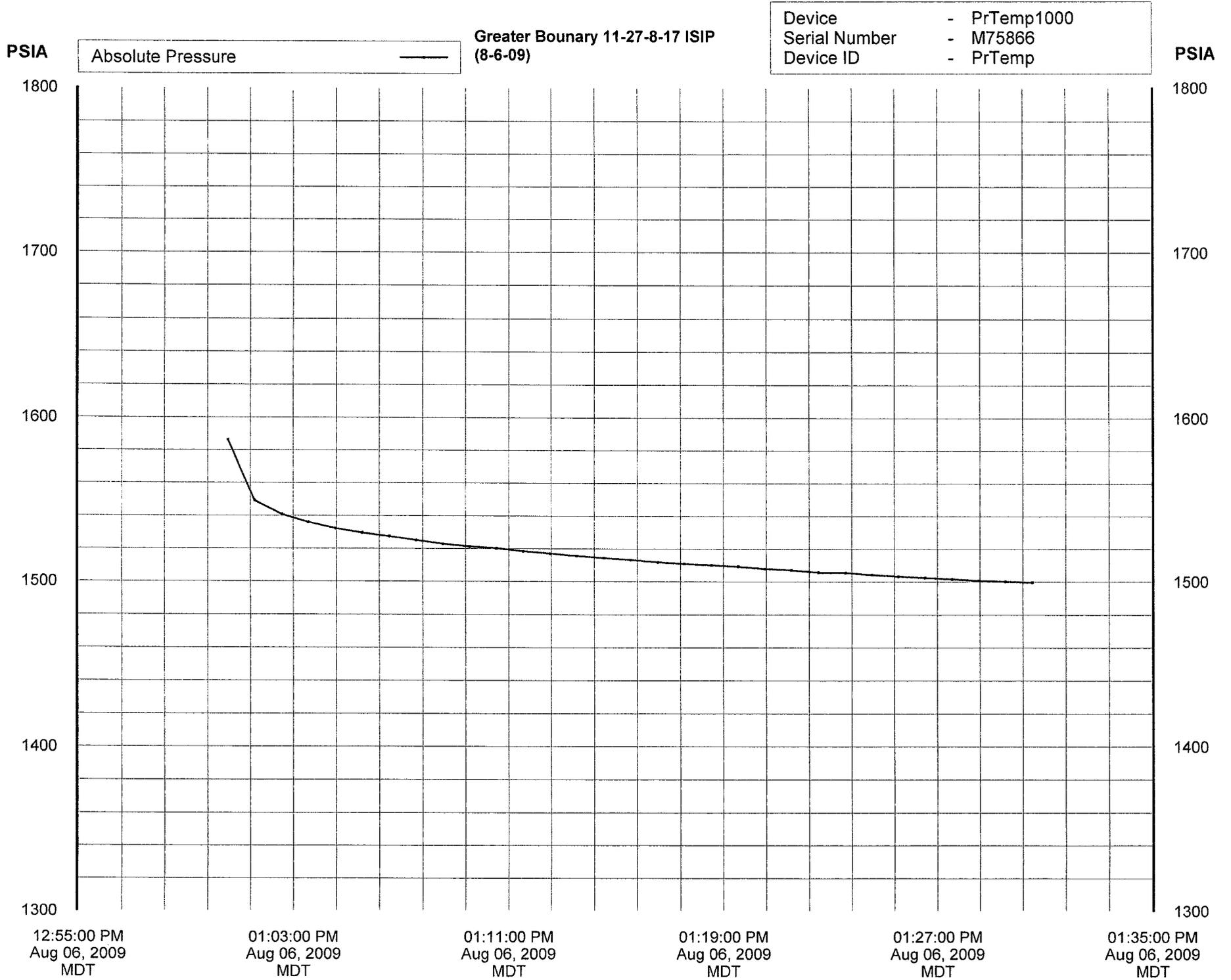
PSIA



Report Name: PrTemp1000 Data Table  
 Report Date: Aug 07, 2009 08:47:59 AM MDT  
 File Name: C:\Program Files\PTC\ Instruments 2.00\Greater Boundary 11-27-8-17 SRT (8-6-09).csv  
 Title: Greater Boundary 11-27-8-17 SRT (8-6-09)  
 Device: PrTemp1000 - Temperature and Pressure Recorder  
 Hardware Revision: REV2C (64K)  
 Serial Number: M75866  
 Device ID: PrTemp  
 Data Start Date: Aug 06, 2009 04:30:20 AM MDT  
 Data End Date: Aug 06, 2009 01:00:20 PM MDT  
 Reading Rate: 2 Seconds  
 Readings: 1 to 103 of 103  
 Last Calibration Date: May 22, 2009  
 Next Calibration Date: May 22, 2010

<u>Reading</u>	<u>Date and Time (MDT)</u>	<u>Absolute Pressure</u>	<u>Annotation</u>
1	Aug 06, 2009 04:30:20 AM	1332.600	PSIA
2	Aug 06, 2009 04:35:20 AM	1332.000	PSIA
3	Aug 06, 2009 04:40:19 AM	1332.000	PSIA
4	Aug 06, 2009 04:45:19 AM	1331.800	PSIA
5	Aug 06, 2009 04:50:19 AM	1331.600	PSIA
6	Aug 06, 2009 04:55:20 AM	1331.000	PSIA
7	Aug 06, 2009 05:00:19 AM	1331.000	PSIA
8	Aug 06, 2009 05:05:19 AM	1344.200	PSIA
9	Aug 06, 2009 05:10:20 AM	1347.600	PSIA
10	Aug 06, 2009 05:15:20 AM	1349.000	PSIA
11	Aug 06, 2009 05:20:20 AM	1350.600	PSIA
12	Aug 06, 2009 05:25:20 AM	1352.600	PSIA
13	Aug 06, 2009 05:30:19 AM	1353.600	PSIA
14	Aug 06, 2009 05:35:19 AM	1355.000	PSIA
15	Aug 06, 2009 05:40:20 AM	1356.400	PSIA
16	Aug 06, 2009 05:45:19 AM	1357.400	PSIA
17	Aug 06, 2009 05:50:19 AM	1358.000	PSIA
18	Aug 06, 2009 05:55:20 AM	1359.200	PSIA
19	Aug 06, 2009 06:00:20 AM	1359.600	PSIA
20	Aug 06, 2009 06:05:19 AM	1374.200	PSIA
21	Aug 06, 2009 06:10:20 AM	1377.800	PSIA
22	Aug 06, 2009 06:15:20 AM	1380.000	PSIA
23	Aug 06, 2009 06:20:20 AM	1382.000	PSIA
24	Aug 06, 2009 06:25:20 AM	1384.800	PSIA
25	Aug 06, 2009 06:30:20 AM	1385.800	PSIA
26	Aug 06, 2009 06:35:19 AM	1388.000	PSIA
27	Aug 06, 2009 06:40:21 AM	1389.200	PSIA
28	Aug 06, 2009 06:45:20 AM	1390.600	PSIA
29	Aug 06, 2009 06:50:20 AM	1392.200	PSIA
30	Aug 06, 2009 06:55:20 AM	1393.600	PSIA
31	Aug 06, 2009 07:00:19 AM	1395.200	PSIA
32	Aug 06, 2009 07:05:20 AM	1410.200	PSIA
33	Aug 06, 2009 07:10:20 AM	1413.400	PSIA
34	Aug 06, 2009 07:15:19 AM	1416.000	PSIA
35	Aug 06, 2009 07:20:20 AM	1418.600	PSIA
36	Aug 06, 2009 07:25:20 AM	1421.000	PSIA
37	Aug 06, 2009 07:30:20 AM	1423.600	PSIA
38	Aug 06, 2009 07:35:19 AM	1425.400	PSIA
39	Aug 06, 2009 07:40:20 AM	1429.200	PSIA
40	Aug 06, 2009 07:45:20 AM	1430.200	PSIA
41	Aug 06, 2009 07:50:20 AM	1431.000	PSIA
42	Aug 06, 2009 07:55:19 AM	1434.600	PSIA
43	Aug 06, 2009 08:00:19 AM	1434.600	PSIA
44	Aug 06, 2009 08:05:20 AM	1451.600	PSIA
45	Aug 06, 2009 08:10:20 AM	1454.600	PSIA
46	Aug 06, 2009 08:15:19 AM	1460.600	PSIA
47	Aug 06, 2009 08:20:19 AM	1463.000	PSIA
48	Aug 06, 2009 08:25:19 AM	1466.200	PSIA
49	Aug 06, 2009 08:30:20 AM	1469.000	PSIA
50	Aug 06, 2009 08:35:20 AM	1471.200	PSIA
51	Aug 06, 2009 08:40:19 AM	1474.000	PSIA
52	Aug 06, 2009 08:45:20 AM	1476.400	PSIA
53	Aug 06, 2009 08:50:20 AM	1476.400	PSIA
54	Aug 06, 2009 08:55:21 AM	1479.000	PSIA
55	Aug 06, 2009 09:00:20 AM	1481.800	PSIA
56	Aug 06, 2009 09:05:20 AM	1492.800	PSIA
57	Aug 06, 2009 09:10:19 AM	1498.200	PSIA
58	Aug 06, 2009 09:15:19 AM	1502.200	PSIA
59	Aug 06, 2009 09:20:20 AM	1504.000	PSIA

60	Aug 06, 2009 09:25:19 AM	1504.600	PSIA
61	Aug 06, 2009 09:30:20 AM	1510.000	PSIA
62	Aug 06, 2009 09:35:19 AM	1511.200	PSIA
63	Aug 06, 2009 09:40:20 AM	1512.400	PSIA
64	Aug 06, 2009 09:45:21 AM	1517.400	PSIA
65	Aug 06, 2009 09:50:20 AM	1517.400	PSIA
66	Aug 06, 2009 09:55:20 AM	1520.000	PSIA
67	Aug 06, 2009 10:00:19 AM	1523.000	PSIA
68	Aug 06, 2009 10:05:20 AM	1529.000	PSIA
69	Aug 06, 2009 10:10:19 AM	1529.200	PSIA
70	Aug 06, 2009 10:15:20 AM	1535.800	PSIA
71	Aug 06, 2009 10:20:19 AM	1534.600	PSIA
72	Aug 06, 2009 10:25:20 AM	1537.000	PSIA
73	Aug 06, 2009 10:30:20 AM	1542.600	PSIA
74	Aug 06, 2009 10:35:19 AM	1541.200	PSIA
75	Aug 06, 2009 10:40:20 AM	1542.200	PSIA
76	Aug 06, 2009 10:45:20 AM	1548.000	PSIA
77	Aug 06, 2009 10:50:19 AM	1546.400	PSIA
78	Aug 06, 2009 10:55:19 AM	1547.600	PSIA
79	Aug 06, 2009 11:00:19 AM	1550.000	PSIA
80	Aug 06, 2009 11:05:20 AM	1554.600	PSIA
81	Aug 06, 2009 11:10:20 AM	1560.000	PSIA
82	Aug 06, 2009 11:15:19 AM	1560.000	PSIA
83	Aug 06, 2009 11:20:19 AM	1563.600	PSIA
84	Aug 06, 2009 11:25:19 AM	1561.600	PSIA
85	Aug 06, 2009 11:30:19 AM	1562.400	PSIA
86	Aug 06, 2009 11:35:20 AM	1566.800	PSIA
87	Aug 06, 2009 11:40:19 AM	1564.800	PSIA
88	Aug 06, 2009 11:45:20 AM	1564.600	PSIA
89	Aug 06, 2009 11:50:19 AM	1568.400	PSIA
90	Aug 06, 2009 11:55:20 AM	1570.400	PSIA
91	Aug 06, 2009 12:00:19 PM	1569.800	PSIA
92	Aug 06, 2009 12:05:19 PM	1577.200	PSIA
93	Aug 06, 2009 12:10:19 PM	1574.600	PSIA
94	Aug 06, 2009 12:15:19 PM	1576.400	PSIA
95	Aug 06, 2009 12:20:19 PM	1580.600	PSIA
96	Aug 06, 2009 12:25:20 PM	1581.800	PSIA
97	Aug 06, 2009 12:30:20 PM	1578.600	PSIA
98	Aug 06, 2009 12:35:19 PM	1580.600	PSIA
99	Aug 06, 2009 12:40:20 PM	1580.800	PSIA
100	Aug 06, 2009 12:45:19 PM	1584.200	PSIA
101	Aug 06, 2009 12:50:19 PM	1585.000	PSIA
102	Aug 06, 2009 12:55:20 PM	1581.000	PSIA
103	Aug 06, 2009 01:00:20 PM	1582.400	PSIA



Report Name: PrTemp1000 Data Table  
 Report Date: Aug 07, 2009 08:47:45 AM MDT  
 File Name: C:\Program Files\PTC\Instruments 2.00\Greater Boundary 11-27-8-17 ISIP (8-6-09).csv  
 Title: Greater Boundary 11-27-8-17 ISIP (8-6-09)  
 Device: PrTemp1000 - Temperature and Pressure Recorder  
 Hardware Revision: REV2C (64K)  
 Serial Number: M75866  
 Device ID: PrTemp  
 Data Start Date: Aug 06, 2009 01:00:34 PM MDT  
 Data End Date: Aug 06, 2009 01:30:33 PM MDT  
 Reading Rate: 2 Seconds  
 Readings: 1 to 31 of 31  
 Last Calibration Date: May 22, 2009  
 Next Calibration Date: May 22, 2010

<u>Reading</u>	<u>Date and Time (MDT)</u>	<u>Absolute Pressure</u>	<u>Annotation</u>
1	Aug 06, 2009 01:00:34 PM	1586.200	PSIA
2	Aug 06, 2009 01:01:33 PM	1549.200	PSIA
3	Aug 06, 2009 01:02:34 PM	1540.800	PSIA
4	Aug 06, 2009 01:03:33 PM	1536.000	PSIA
5	Aug 06, 2009 01:04:34 PM	1532.200	PSIA
6	Aug 06, 2009 01:05:33 PM	1529.600	PSIA
7	Aug 06, 2009 01:06:34 PM	1527.400	PSIA
8	Aug 06, 2009 01:07:33 PM	1525.000	PSIA
9	Aug 06, 2009 01:08:33 PM	1522.800	PSIA
10	Aug 06, 2009 01:09:34 PM	1521.200	PSIA
11	Aug 06, 2009 01:10:33 PM	1520.200	PSIA
12	Aug 06, 2009 01:11:33 PM	1518.400	PSIA
13	Aug 06, 2009 01:12:34 PM	1517.000	PSIA
14	Aug 06, 2009 01:13:33 PM	1515.600	PSIA
15	Aug 06, 2009 01:14:33 PM	1514.400	PSIA
16	Aug 06, 2009 01:15:33 PM	1513.200	PSIA
17	Aug 06, 2009 01:16:34 PM	1511.800	PSIA
18	Aug 06, 2009 01:17:33 PM	1510.800	PSIA
19	Aug 06, 2009 01:18:33 PM	1510.000	PSIA
20	Aug 06, 2009 01:19:33 PM	1509.200	PSIA
21	Aug 06, 2009 01:20:33 PM	1507.800	PSIA
22	Aug 06, 2009 01:21:33 PM	1507.000	PSIA
23	Aug 06, 2009 01:22:33 PM	1505.600	PSIA
24	Aug 06, 2009 01:23:33 PM	1505.400	PSIA
25	Aug 06, 2009 01:24:33 PM	1504.200	PSIA
26	Aug 06, 2009 01:25:33 PM	1503.200	PSIA
27	Aug 06, 2009 01:26:33 PM	1502.400	PSIA
28	Aug 06, 2009 01:27:33 PM	1501.600	PSIA
29	Aug 06, 2009 01:28:33 PM	1500.600	PSIA
30	Aug 06, 2009 01:29:33 PM	1500.200	PSIA
31	Aug 06, 2009 01:30:33 PM	1499.600	PSIA

## Federal 11-27-8-17 Rate Sheet (8-6-09)

<i>Step # 1</i>	Time:	5:05	5:10	5:15	5:20	5:25	5:30
	Rate:	75.2	75	75.6	75.4	75.4	74.9
	Time:	5:35	5:40	5:45	5:50	5:55	6:00
	Rate:	74.9	75.1	75	75.2	75	75.6
<i>Step # 2</i>	Time:	6:05	6:10	6:15	6:20	6:25	6:30
	Rate:	150.6	149.9	150.1	150.1	150.7	150
	Time:	6:35	6:40	6:45	6:50	6:55	7:00
	Rate:	150.2	150.2	150	150.2	150	150.5
<i>Step # 3</i>	Time:	7:05	7:10	7:15	7:20	7:25	7:30
	Rate:	225.3	225.1	225	224.8	225.2	225
	Time:	7:35	7:40	7:45	7:50	7:55	8:00
	Rate:	225.3	225	224.9	225.4	225	225.5
<i>Step # 4</i>	Time:	8:05	8:10	8:15	8:20	8:25	8:30
	Rate:	300.2	300.2	300.2	300.5	300.4	300
	Time:	8:35	8:40	8:45	8:50	8:55	9:00
	Rate:	299.9	300.1	300.1	300	300.2	300.5
<i>Step # 5</i>	Time:	9:05	9:10	9:15	9:20	9:25	9:30
	Rate:	374.8	375	375.2	375	374.9	375
	Time:	9:35	9:40	9:45	9:50	9:55	10:00
	Rate:	375.2	375	375	375.1	375.5	375.5
<i>Step # 6</i>	Time:	10:05	10:10	10:15	10:20	10:25	10:30
	Rate:	450.6	450.6	450.1	450.1	449.9	450
	Time:	10:35	10:40	10:45	10:50	10:55	11:00
	Rate:	450.2	450	450	450.1	450.1	450.6
<i>Step # 7</i>	Time:	11:05	11:10	11:15	11:20	11:25	11:30
	Rate:	525	525.2	525.3	525.2	525	525.4
	Time:	11:35	11:40	11:45	11:50	11:55	12:00
	Rate:	525.2	525.3	525.3	525.4	525.2	525.4
<i>Step # 8</i>	Time:	12:05	12:10	12:15	12:20	12:25	12:30
	Rate:	600.6	600.6	600	600.1	600.6	600.5
	Time:	12:35	12:40	12:45	12:50	12:55	1:00
	Rate:	600.5	600.2	600.2	600.6	600.3	600.3

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

5. LEASE DESIGNATION AND SERIAL NUMBER:  
**USA UTU-76241**

**SUNDRY NOTICES AND REPORTS ON WELLS**

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

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

7. UNIT or CA AGREEMENT NAME:  
**GMBU**

1. TYPE OF WELL: OIL WELL  GAS WELL  OTHER

8. WELL NAME and NUMBER:  
**GREATER BOUNDARY 11-27-8-17**

2. NAME OF OPERATOR:  
**NEWFIELD PRODUCTION COMPANY**

9. API NUMBER:  
**4301332243**

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:  
**GREATER MB UNIT**

4. LOCATION OF WELL:  
FOOTAGES AT SURFACE: **1841 FSL 1935 FWL** COUNTY: **DUCHESNE**  
OTR/TR. SECTION. TOWNSHIP. RANGE. MERIDIAN: **NESW, 27, 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 (Submit in Duplicate) Approximate date work will _____	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> REPERFORATE CURRENT FORMATION
	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> SIDETRACK TO REPAIR WELL
	<input type="checkbox"/> CASING REPAIR	<input type="checkbox"/> NEW CONSTRUCTION	<input type="checkbox"/> TEMPORARITLY ABANDON
	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> TUBING REPAIR
	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> VENT OR FLAIR
<input checked="" type="checkbox"/> SUBSEQUENT REPORT (Submit Original Form Only) Date of Work Completion: <b>04/22/2010</b>	<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: - Five Year MIT
	<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.  
On 04/14/2010 Nathan Wiser with the EPA was contacted concerning the 5 year MIT on the above listed well. On 04/22/2010 the casing was pressured up to 1680 psig and charted for 30 minutes with no pressure loss. The well was not injecting during the test. The tubing pressure was 1453 psig during the test. There was not an EPA representative available to witness the test.

EPA# UT20702-06487 API# 43-013-32243

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

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

SIGNATURE  DATE 04/23/2010

(This space for State use only)

**RECEIVED  
APR 27 2010**

DIV. OF OIL, GAS & MINING

# Mechanical Integrity Test

## Casing or Annulus Pressure Mechanical Integrity Test

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

EPA Witness: \_\_\_\_\_ Date: 04 122 12010  
 Test conducted by: Lynn Manson  
 Others present: \_\_\_\_\_

Well Name: <u>Greater Boundary 11-27-8-17</u>	Type: ER SWD	Status: AC TA UC
Field: <u>Monument Butte</u>		
Location: <u>NE/SW</u> Sec: <u>27</u> T <u>8</u> N <u>KS</u> R <u>17</u> <u>EW</u> County: <u>Duchesne</u> State: <u>Ut</u>		
Operator: <u>New Field</u>		
Last MIT: <u>06 1 09 12005</u>	Maximum Allowable Pressure: _____	PSIG

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

Pre-test casing/tubing annulus pressure: 0 psig

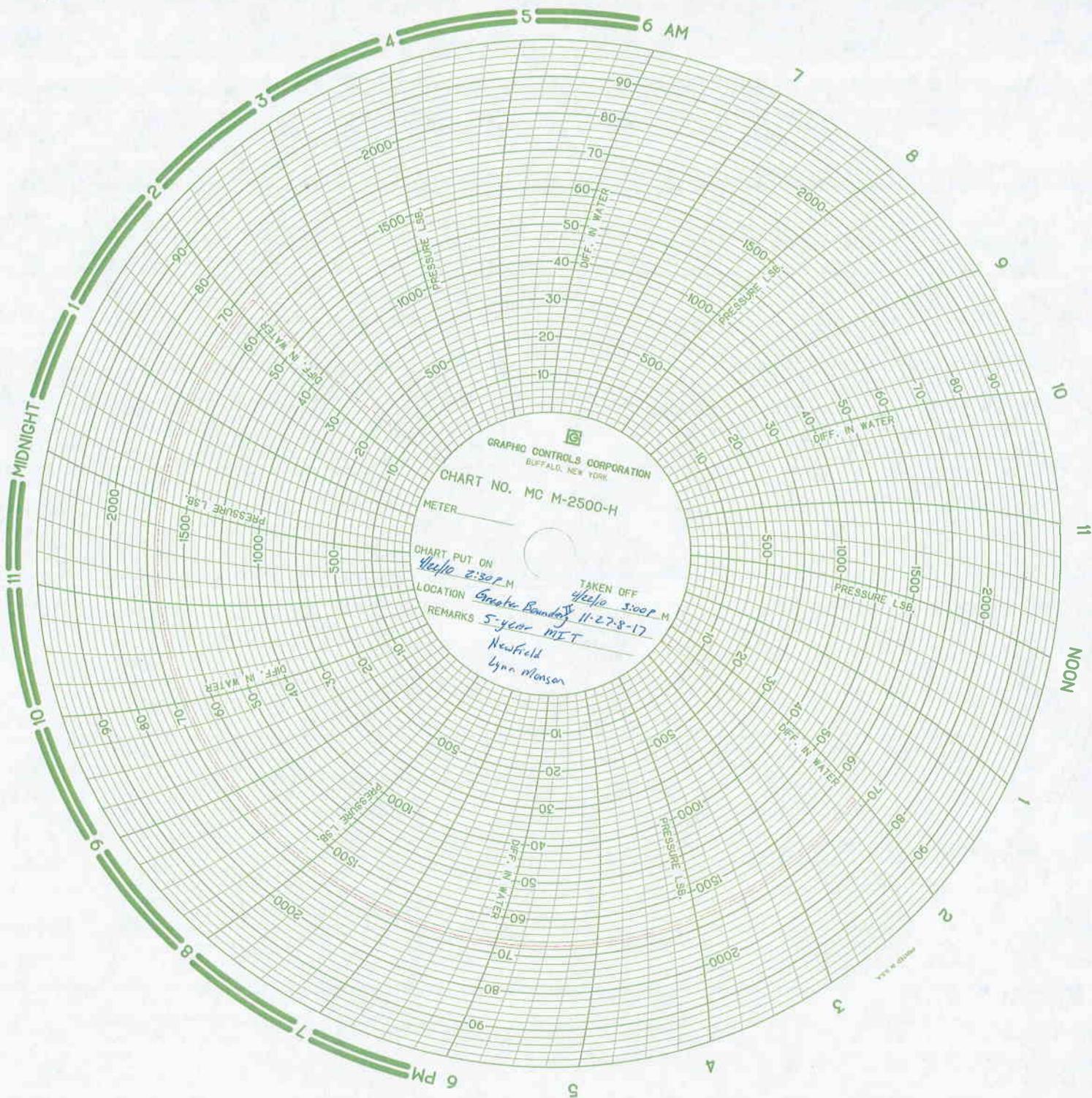
MIT DATA TABLE	Test #1	Test #2	Test #3
<b>TUBING PRESSURE</b>			
Initial Pressure	<u>1453</u> psig	psig	psig
End of test pressure	<u>1453</u> psig	psig	psig
<b>CASING/TUBING ANNULUS PRESSURE</b>			
0 minutes	<u>1680</u> psig	psig	psig
5 minutes	<u>1680</u> psig	psig	psig
10 minutes	<u>1680</u> psig	psig	psig
15 minutes	<u>1680</u> psig	psig	psig
20 minutes	<u>1680</u> psig	psig	psig
25 minutes	<u>1680</u> psig	psig	psig
30 minutes	<u>1680</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: \_\_\_\_\_



MADE IN U.S.A.

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		FORM 9
<b>SUNDRY NOTICES AND REPORTS ON WELLS</b>		<b>5. LEASE DESIGNATION AND SERIAL NUMBER:</b> UTU-76241
Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.		<b>6. IF INDIAN, ALLOTTEE OR TRIBE NAME:</b>
		<b>7. UNIT or CA AGREEMENT NAME:</b> GMBU (GRRV)
<b>1. TYPE OF WELL</b> Water Injection Well	<b>8. WELL NAME and NUMBER:</b> GBU 11-27-8-17	
<b>2. NAME OF OPERATOR:</b> NEWFIELD PRODUCTION COMPANY	<b>9. API NUMBER:</b> 43013322430000	
<b>3. ADDRESS OF OPERATOR:</b> Rt 3 Box 3630 , Myton, UT, 84052	<b>PHONE NUMBER:</b> 435 646-4825 Ext	<b>9. FIELD and POOL or WILDCAT:</b> MONUMENT BUTTE
<b>4. LOCATION OF WELL</b> <b>FOOTAGES AT SURFACE:</b> 1841 FSL 1935 FWL <b>QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:</b> Qtr/Qtr: NESW Section: 27 Township: 08.0S Range: 17.0E Meridian: S	<b>COUNTY:</b> DUCHESNE	
	<b>STATE:</b> UTAH	
11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA		
<b>TYPE OF SUBMISSION</b>	<b>TYPE OF ACTION</b>	
<input type="checkbox"/> NOTICE OF INTENT Approximate date work will start:	<input type="checkbox"/> ACIDIZE <input type="checkbox"/> CHANGE TO PREVIOUS PLANS <input type="checkbox"/> CHANGE WELL STATUS <input type="checkbox"/> DEEPEN <input type="checkbox"/> OPERATOR CHANGE <input type="checkbox"/> PRODUCTION START OR RESUME <input type="checkbox"/> REPERFORATE CURRENT FORMATION <input type="checkbox"/> TUBING REPAIR <input type="checkbox"/> WATER SHUTOFF <input type="checkbox"/> WILDCAT WELL DETERMINATION	<input type="checkbox"/> ALTER CASING <input type="checkbox"/> CHANGE TUBING <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS <input type="checkbox"/> FRACTURE TREAT <input type="checkbox"/> PLUG AND ABANDON <input type="checkbox"/> RECLAMATION OF WELL SITE <input type="checkbox"/> SIDETRACK TO REPAIR WELL <input type="checkbox"/> VENT OR FLARE <input type="checkbox"/> SI TA STATUS EXTENSION <input checked="" type="checkbox"/> OTHER
<input checked="" type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion: 3/18/2015	<input type="checkbox"/> CASING REPAIR <input type="checkbox"/> CHANGE WELL NAME <input type="checkbox"/> CONVERT WELL TYPE <input type="checkbox"/> NEW CONSTRUCTION <input type="checkbox"/> PLUG BACK <input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION <input type="checkbox"/> TEMPORARY ABANDON <input type="checkbox"/> WATER DISPOSAL <input type="checkbox"/> APD EXTENSION	OTHER: <input style="width: 100px;" type="text" value="5 YR MIT"/>
<b>12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.</b> 5 YR MIT performed on the above listed well. On 03/18/2015 the casing was pressured up to 1577 psig and charted for 30 minutes with no pressure loss. The well was not injecting during the test. The tbq pressure was 1221 psig during the test. There was not an EPA representative available to witness the test. EPA #UT22197-06487		
		<b>Accepted by the Utah Division of Oil, Gas and Mining FOR RECORD ONLY March 24, 2015</b>
<b>NAME (PLEASE PRINT)</b> Lucy Chavez-Naupoto	<b>PHONE NUMBER</b> 435 646-4874	<b>TITLE</b> Water Services Technician
<b>SIGNATURE</b> N/A	<b>DATE</b> 3/23/2015	

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

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

EPA Witness: \_\_\_\_\_ Date: 3/18/2015  
 Test conducted by: Shannon Lozenby  
 Others present: \_\_\_\_\_

Well Name: <u>Greater Boundary 11-27-2-17</u>	Type: ER SWD	Status: AC TA UC
Field: <u>Greater Monument Butte</u>		
Location: <u>NE/5W</u> Sec: <u>27</u> T <u>35</u> N/S R <u>17</u> E/W County: <u>Duchesne</u> State: <u>Ut</u>		
Operator: <u>Shannon Lozenby</u>		
Last MIT: <u>  /  /  </u>	Maximum Allowable Pressure: <u>1302</u>	PSIG

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

Pre-test casing/tubing annulus pressure: 0/1221 psig

MIT DATA TABLE	Test #1	Test #2	Test #3
<b>TUBING PRESSURE</b>			
Initial Pressure	<u>1221</u> psig	psig	psig
End of test pressure	<u>1221</u> psig	psig	psig
<b>CASING/TUBING ANNULUS PRESSURE</b>			
0 minutes	<u>1578</u> psig	psig	psig
5 minutes	<u>1577</u> psig	psig	psig
10 minutes	<u>1577</u> psig	psig	psig
15 minutes	<u>1578</u> psig	psig	psig
20 minutes	<u>1577</u> psig	psig	psig
25 minutes	<u>1577</u> psig	psig	psig
30 minutes	<u>1577</u> psig	psig	psig
_____ minutes	psig	psig	psig
_____ minutes	psig	psig	psig
<b>RESULT</b>	<input checked="" type="checkbox"/> Pass    [ ] Fail	[ ] Pass    [ ] Fail	[ ] Pass    [ ] Fail

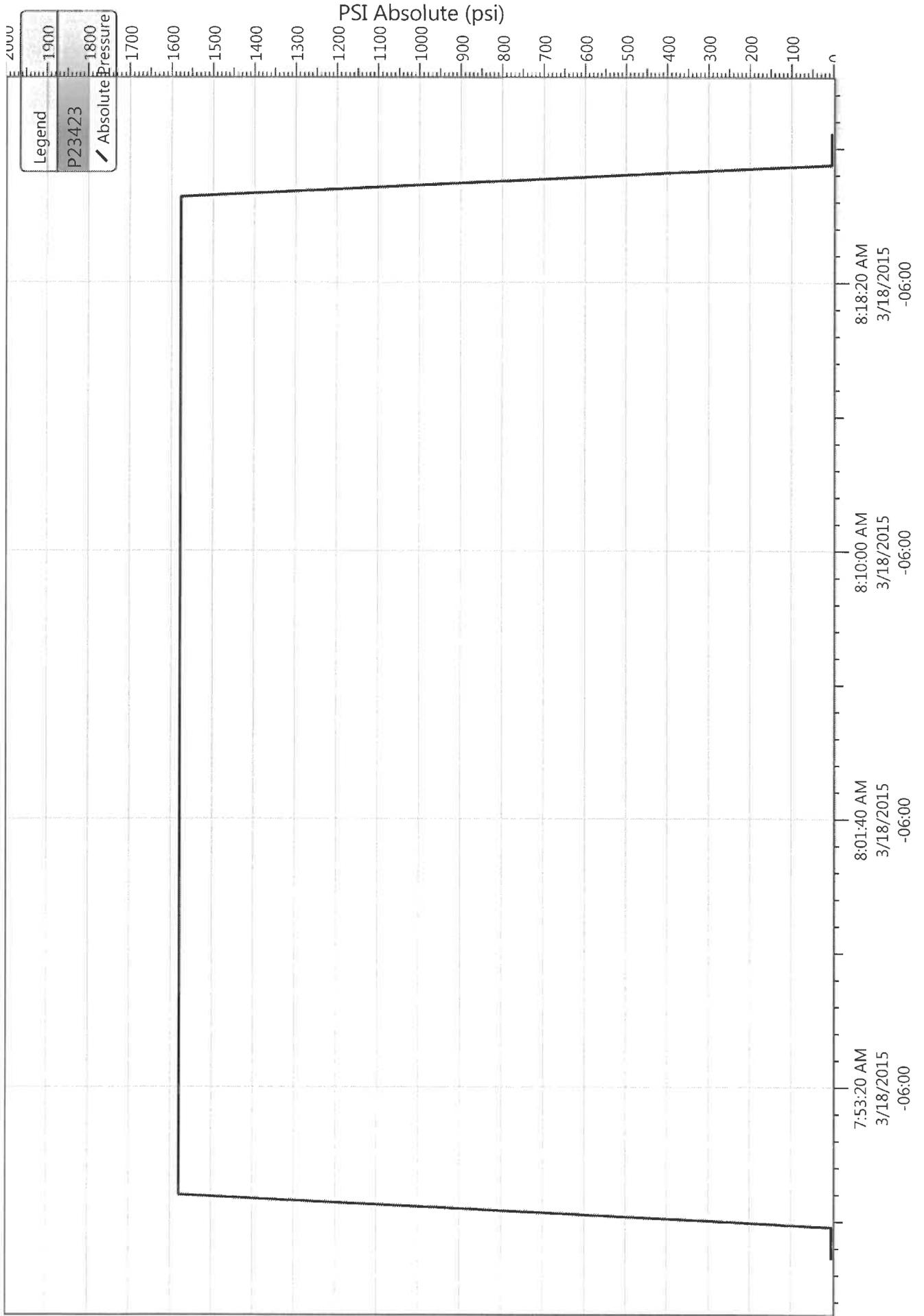
Does the annulus pressure build back up after the test?    [ ] Yes    [ ] No

### 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: \_\_\_\_\_

11-27-8-17 5 yr MIT  
3/18/2015 7:47:33 AM



# Greater Boundary 11-27-8-17

Spud Date: 2/26/2003  
 Put on Production: 3/21/2003  
 GL: 5080' KB: 5092'

Initial Production: 68 BOPD,  
 70 MCFD, 13 BWPD

Injection Wellbore  
 Diagram

**SURFACE CASING**

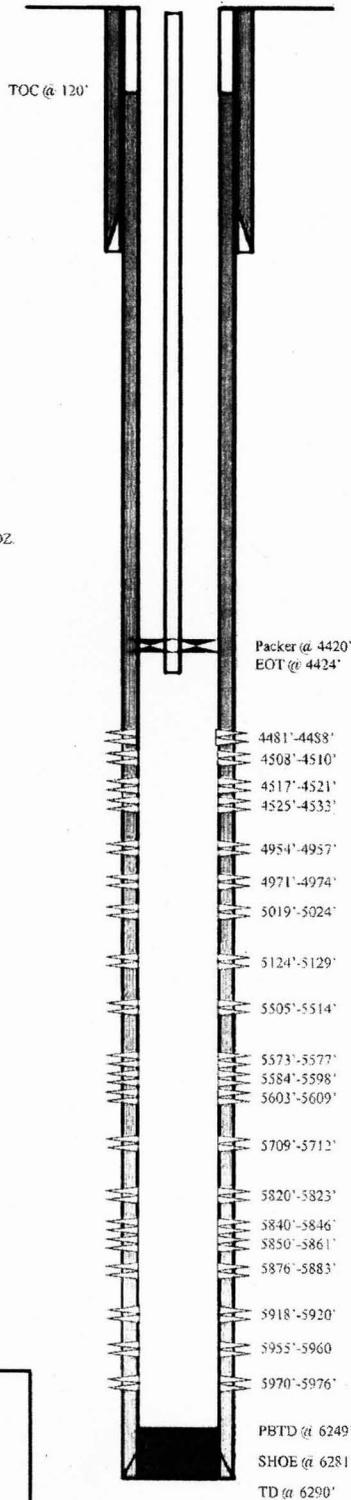
CSG SIZE: 8-5/8"  
 GRADE: J-55  
 WEIGHT: 24#  
 LENGTH: 7 jts. (293.86')  
 DEPTH LANDED: 303.86' KB  
 HOLE SIZE: 12-1/4"  
 CEMENT DATA: 150 sxs Class "G" cmt, est 4 bbls cmt to surf.

**PRODUCTION CASING**

CSG SIZE: 5-1/2"  
 GRADE: J-55  
 WEIGHT: 15.5#  
 LENGTH: 146 jts. (6282.84')  
 DEPTH LANDED: 6280.84' KB  
 HOLE SIZE: 7-7/8"  
 CEMENT DATA: 310 sxs Prem. Lite II mixed & 400 sxs 50/50 POZ.  
 CEMENT TOP AT: 120'

**TUBING**

SIZE/GRADE/WT.: 2-7/8" / J-55  
 NO. OF JOINTS: 136 jts (4403.93')  
 SEATING NIPPLE: 2-7/8" (1.10')  
 SN LANDED AT: 4415.93' KB  
 CE @ 4420.28'  
 TOTAL STRING LENGTH: EOT @ 4424.41' KB



**FRAC JOB**

3/17/03 5820'-5976'  3/17/03 5505'-5712'  3/17/03 4954'-5129'  3/17/03 4481'-4533'  6-9-05  04/22/10	<p><b>Frac CP sands as follows:</b>                  122,845# 20/40 sand in 882 bbls Viking I-25 fluid. Treated @ avg press of 1317 psi w avg rate of 24.4 BPM. ISIP 1860 psi. Calc flush: 5820 gal. Actual flush: 5754 gal.</p> <p><b>Frac A3, BS and LODC sands as follows:</b>                  117,490# 20/40 sand in 840 bbls Viking I-25 fluid. Treated @ avg press of 1884 psi w avg rate of 30.2 BPM. ISIP 1960 psi. Calc flush: 5505 gal. Actual flush: 5418 gal.</p> <p><b>Frac D and C sands as follows:</b>                  47,866# 20/40 sand in 413 bbls Viking I-25 fluid. Treated @ avg press of 1726 psi w avg rate of 23.0 BPM. ISIP 1975 psi. Calc flush: 4954 gal. Actual flush: 4872 gal.</p> <p><b>Frac CB sands as follows:</b>                  67,505# 20/40 sand in 515 bbls Viking I-25 fluid. Treated @ avg press of 1764 psi w avg rate of 23.0 BPM. ISIP 2130 psi. Calc flush: 4481 gal. Actual flush: 4368 gal.</p> <p>Converted to Injection with no new perfs or fracs.</p> <p>5 YR MIT</p>
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**PERFORATION RECORD**

Date	Interval	Perforation Type	Holes
3/14/03	5970'-5976'	4 JSPF	24 holes
3/14/03	5955'-5960'	4 JSPF	20 holes
3/14/03	5918'-5920'	4 JSPF	8 holes
3/14/03	5876'-5883'	4 JSPF	28 holes
3/14/03	5850'-5861'	4 JSPF	44 holes
3/14/03	5840'-5846'	4 JSPF	24 holes
3/14/03	5820'-5823'	4 JSPF	12 holes
3/17/03	5709'-5712'	4 JSPF	12 holes
3/17/03	5603'-5609'	4 JSPF	24 holes
3/17/03	5584'-5598'	4 JSPF	56 holes
3/17/03	5573'-5577'	4 JSPF	16 holes
3/17/03	5505'-5514'	4 JSPF	36 holes
3/17/03	5124'-5129'	4 JSPF	20 holes
3/17/03	5019'-5024'	4 JSPF	20 holes
3/17/03	4971'-4974'	4 JSPF	12 holes
3/17/03	4954'-4957'	4 JSPF	12 holes
3/17/03	4525'-4533'	4 JSPF	32 holes
3/17/03	4517'-4521'	4 JSPF	16 holes
3/17/03	4508'-4510'	4 JSPF	8 holes
3/17/03	4481'-4488'	4 JSPF	28 holes

**NEWFIELD**

**Greater Boundary 11-27-8-17**  
 1935' FWL & 1841' FSL  
 NE/SW Section 27-T8S-R17E  
 Duchesne Co, Utah  
 API #43-013-32243; Lease #UTU-76241