

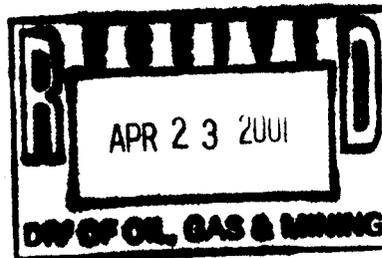
**UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT**

<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 <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>14-27-8-17</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> <b>Phone: (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>SE/SW 2029' FWL 835' FSL</b> <b>4437357 N</b> At proposed Prod. Zone <b>585752 E</b>		11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA <b>SE/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. 3251' f/lse line &amp; 3475' 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. 1552'</b>	19. PROPOSED DEPTH <b>6500'</b>	20. ROTARY OR CABLE TOOLS <b>Rotary</b>	
21. ELEVATIONS (Show whether DF, RT, GR, etc.) <b>5064.2' GR</b>		22. APPROX. DATE WORK WILL START* <b>3rd Quarter 2001</b>	
23. <b>PROPOSED CASING AND CEMENTING PROGRAM</b>			
SIZE OF HOLE	SIZE OF CASING	WEIGHT/FOOT	SETTING DEPTH
<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 Meckler* TITLE Operations Manager DATE April 20, 2001

(This space for Federal or State office use)

PERMIT NO. 43-013-32245 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** DATE 04-30-01

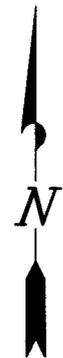
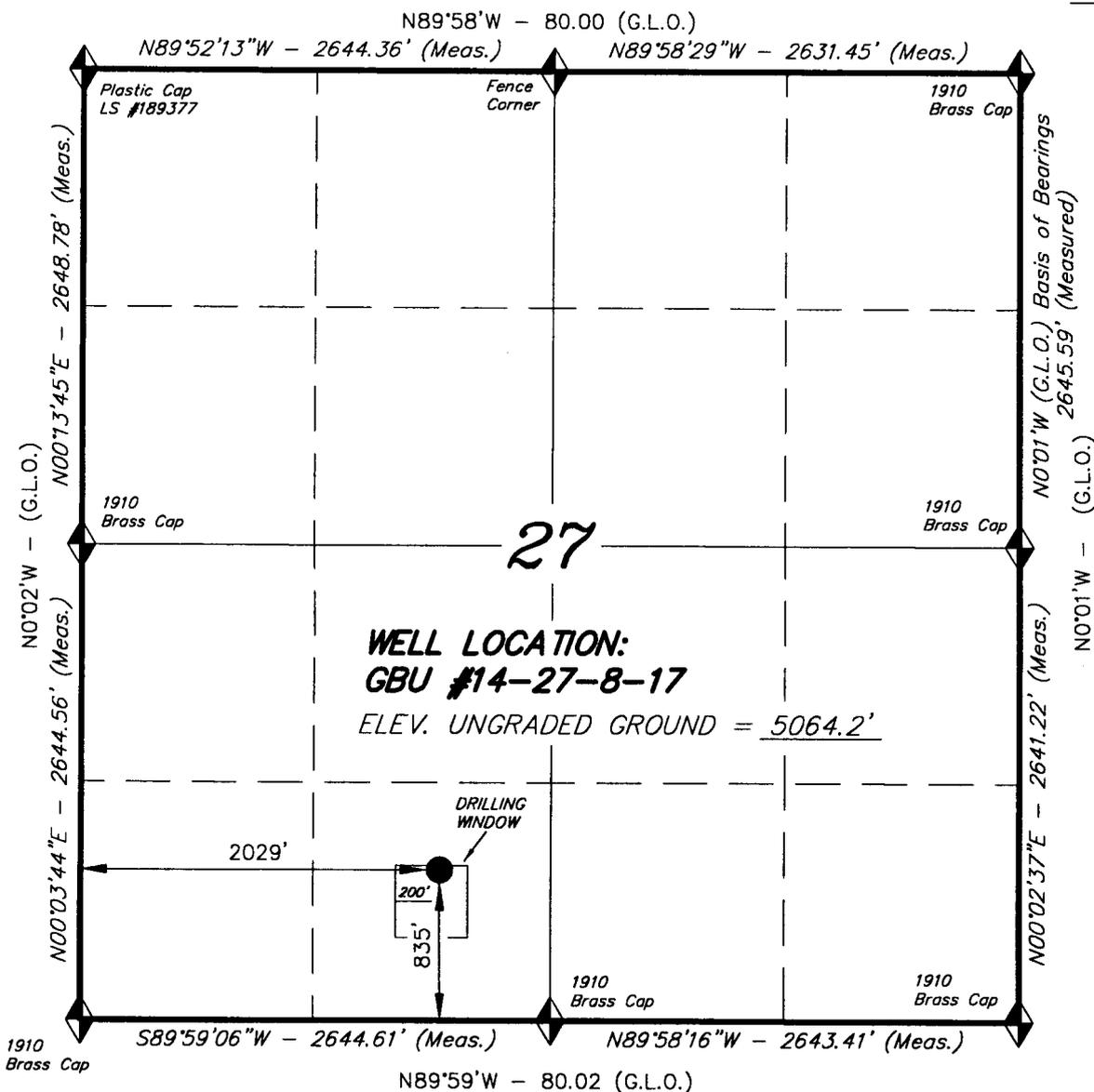
**\*See Instructions On Reverse Side**

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.

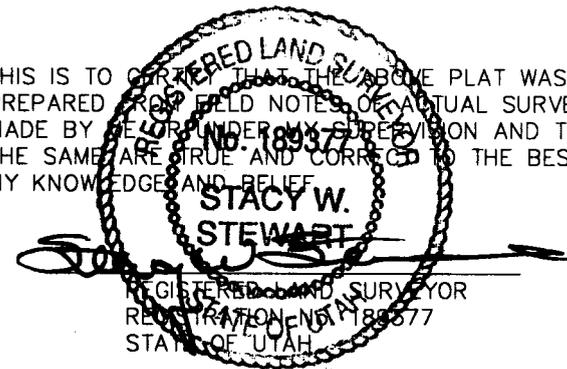
# T8S, R17E, S.L.B.&M.

INLAND PRODUCTION COMPANY

WELL LOCATION, GREATER BOUNDARY UNIT #14-27-8-17, LOCATED AS SHOWN IN THE SE 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 TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.



◆ = SECTION CORNERS LOCATED

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

## TRI STATE LAND SURVEYING & CONSULTING

38 WEST 100 NORTH - VERNAL, UTAH 84078  
 (435) 781-2501

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



PRODUCTION COMPANY  
A Subsidiary of Inland Resources Inc.

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,

Mandie Crozier  
Permit Clerk

mc  
enclosures

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

RECEIVED  
APR 20 2001  
DIVISION OF  
OIL, GAS AND MINING

CONDITIONS OF APPROVAL  
APPLICATION FOR PERMIT TO DRILL

Company/Operator: Inland Production Company

Well Name & Number: Greater Boundary 14-27-8-17

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.

**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 #14-27-8-17  
SE/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 #14-27-8-17  
SE/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 #14-27-8-17 located in the SE 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 dirt road the the northeast. Proceed northeasterly 2.0 miles ± to the beginning of the proposed access road. Proceed easterly 2455' 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 #14-27-8-17 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 #14-27-8-17 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 #14-27-8-17 SE/SW 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

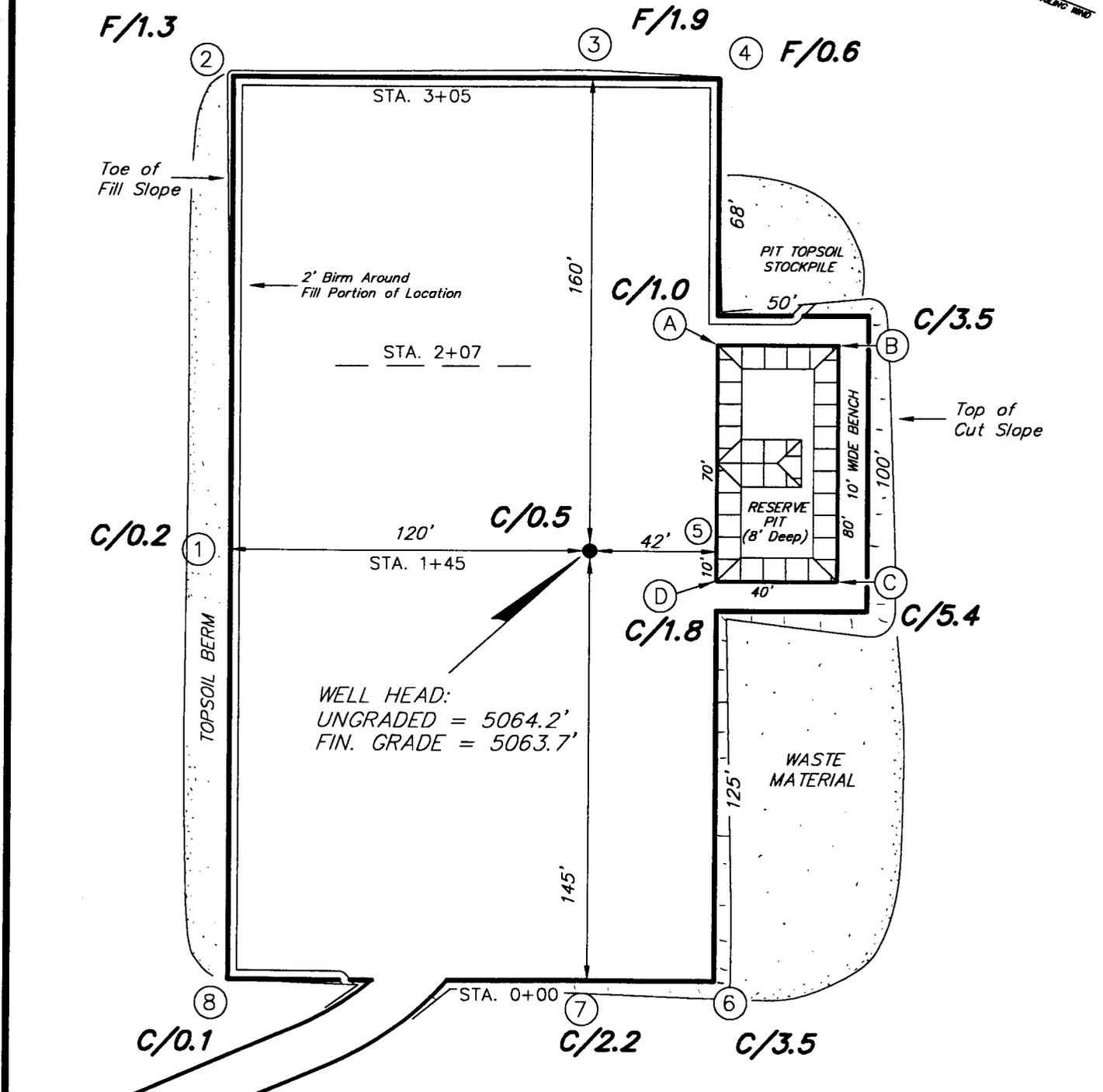
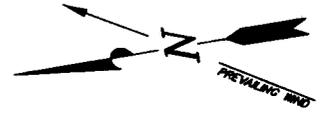
Date

  
Brad Mecham  
Operation Manager

# INLAND PRODUCTION COMPANY

GREATER BOUNDARY UNIT #14-27-8-17

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



WELL HEAD:  
UNGRADED = 5064.2'  
FIN. GRADE = 5063.7'

- REFERENCE POINTS**
- 210' EAST = 5061.4'
  - 260' EAST = 5061.0'
  - 170' NORTH = 5063.7'
  - 220' NORTH = 5062.7'

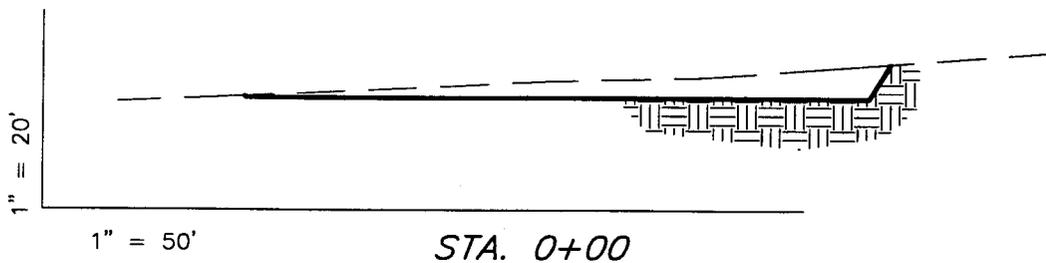
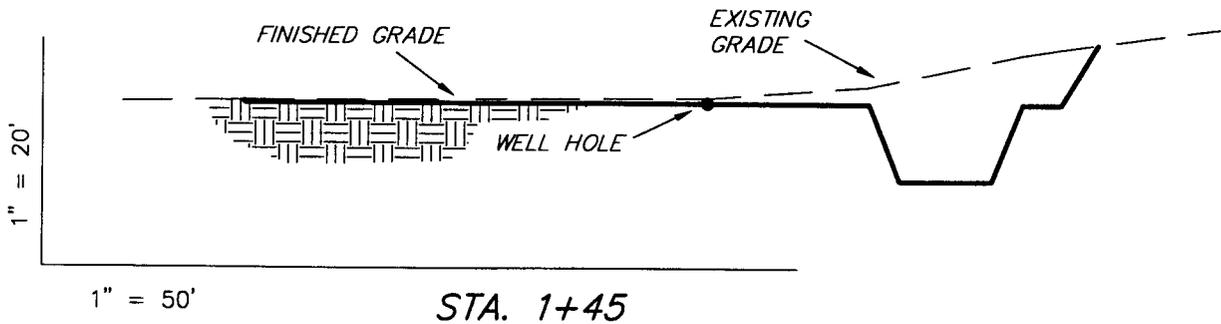
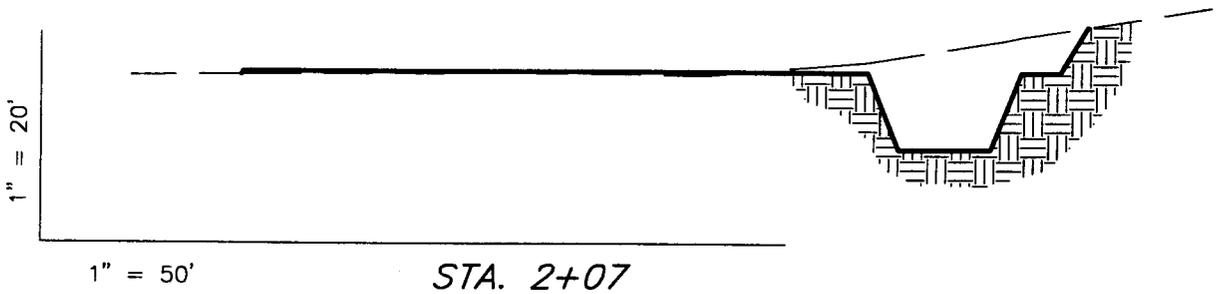
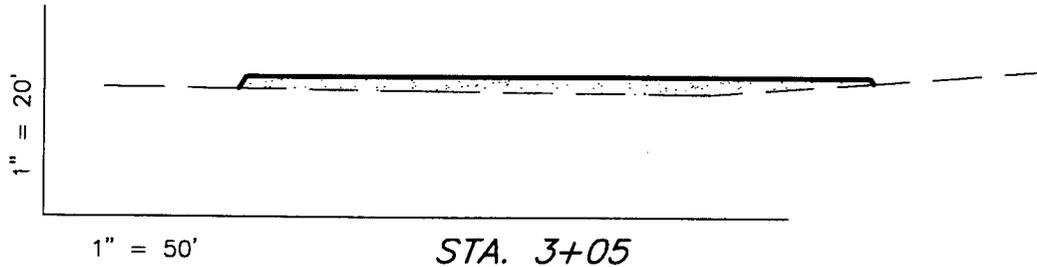
SURVEYED BY: D.J.S.	SCALE: 1" = 50'
DRAWN BY: J.R.S.	DATE: 3-28-01

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

INLAND PRODUCTION COMPANY

CROSS SECTIONS

GREATER BOUNDARY UNIT #14-27-8-17



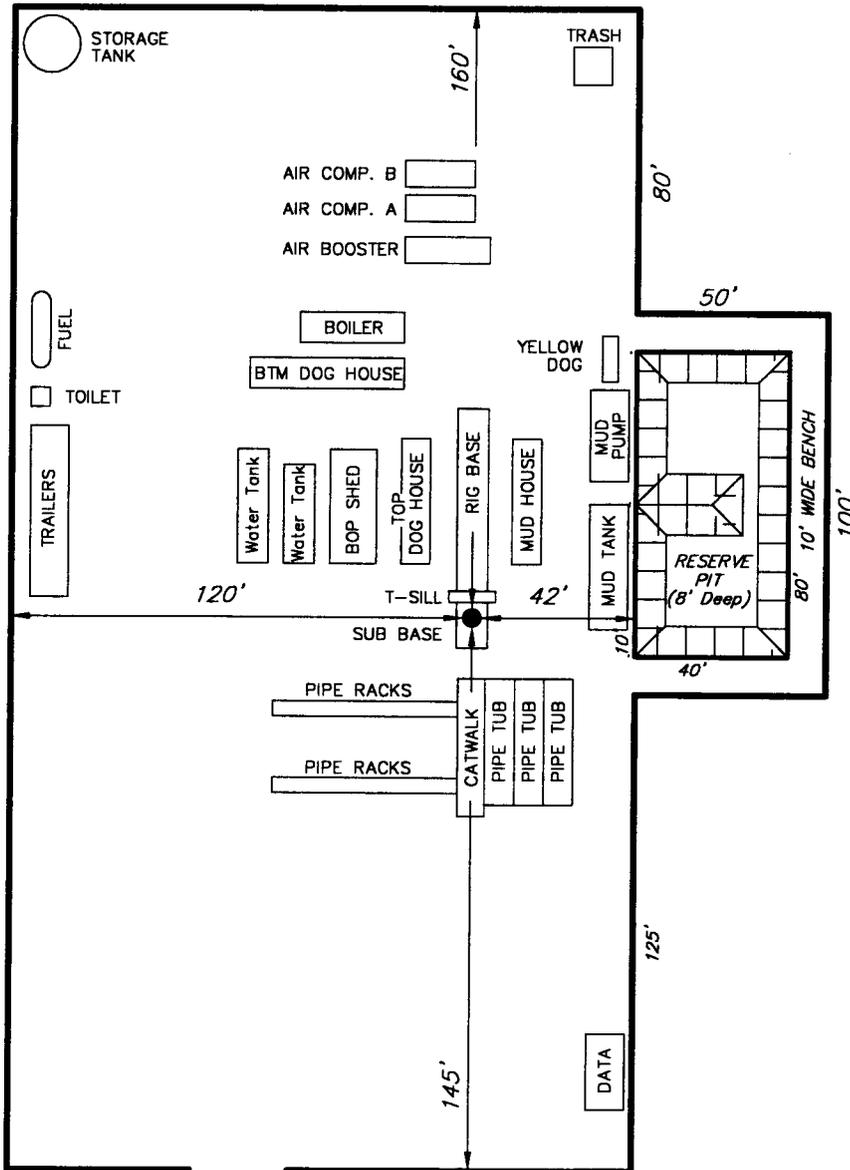
**APPROXIMATE YARDAGES**

- CUT = 1,230 Cu. Yds.
- FILL = 930 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: 3-28-01

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

**INLAND PRODUCTION COMPANY**  
**TYPICAL RIG LAYOUT**  
**GREATER BOUNDARY UNIT #14-27-8-17**



← PROPOSED ACCESS ROAD (Max. 6% Grade)

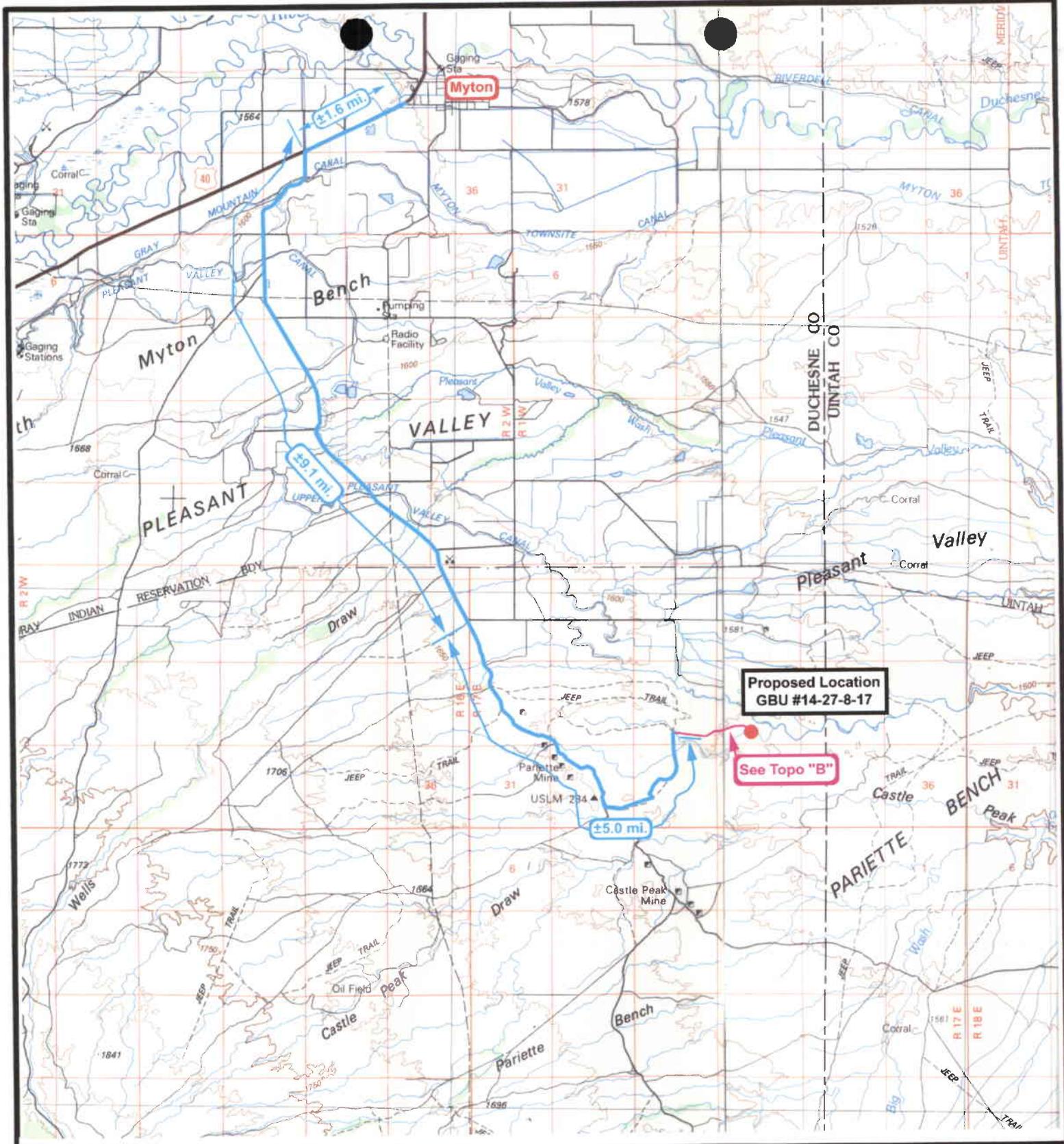
SURVEYED BY: D.J.S.

SCALE: 1" = 50'

DRAWN BY: J.R.S.

DATE: 3-28-01

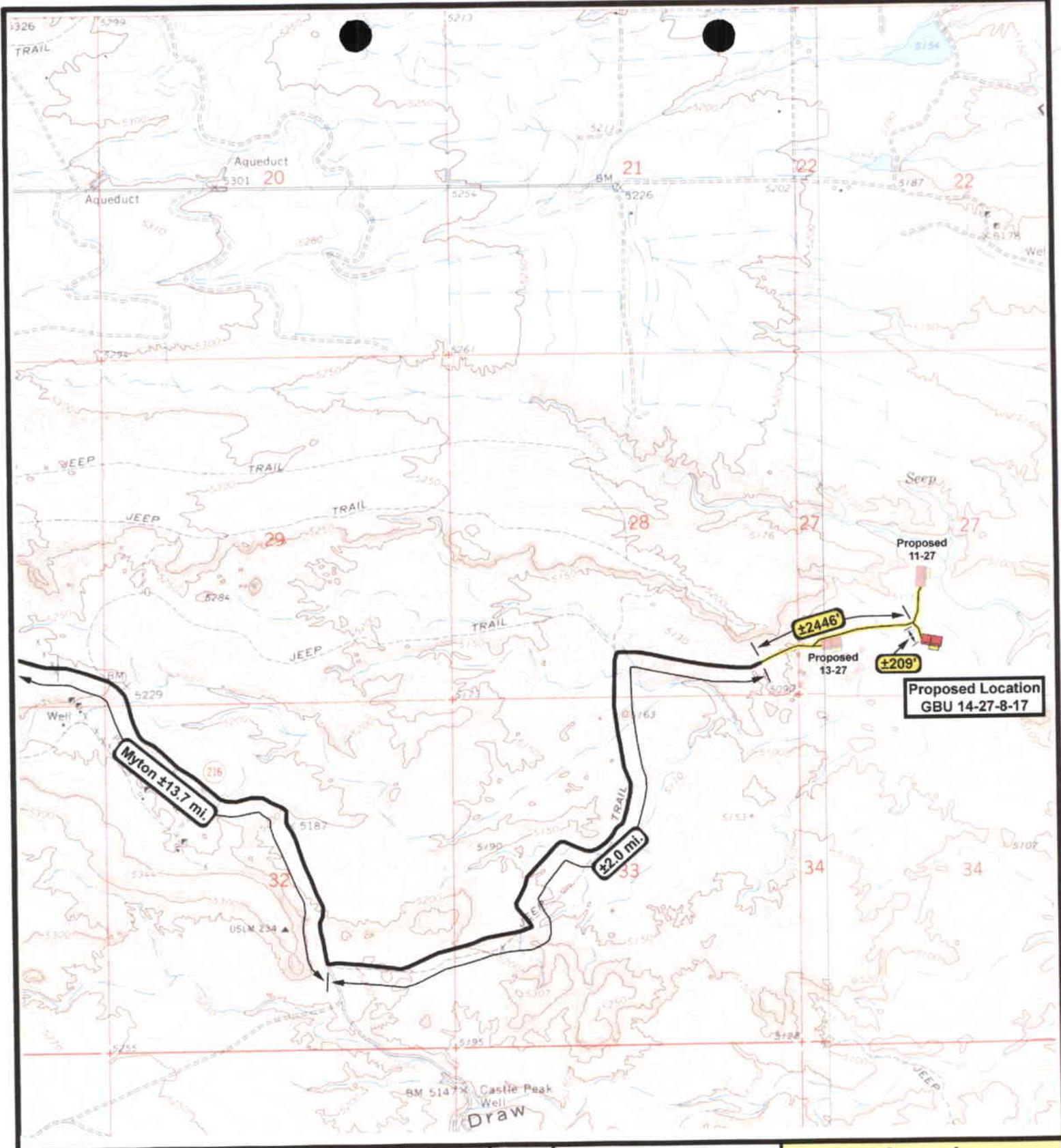
**Tri State** (435) 781-2501  
**Land Surveying, Inc.**  
 38 WEST 100 NORTH VERNAL, UTAH 84078



**GREATER BOUNDARY UNIT #14-27-8-17**  
**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  
#14-27-8-17  
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

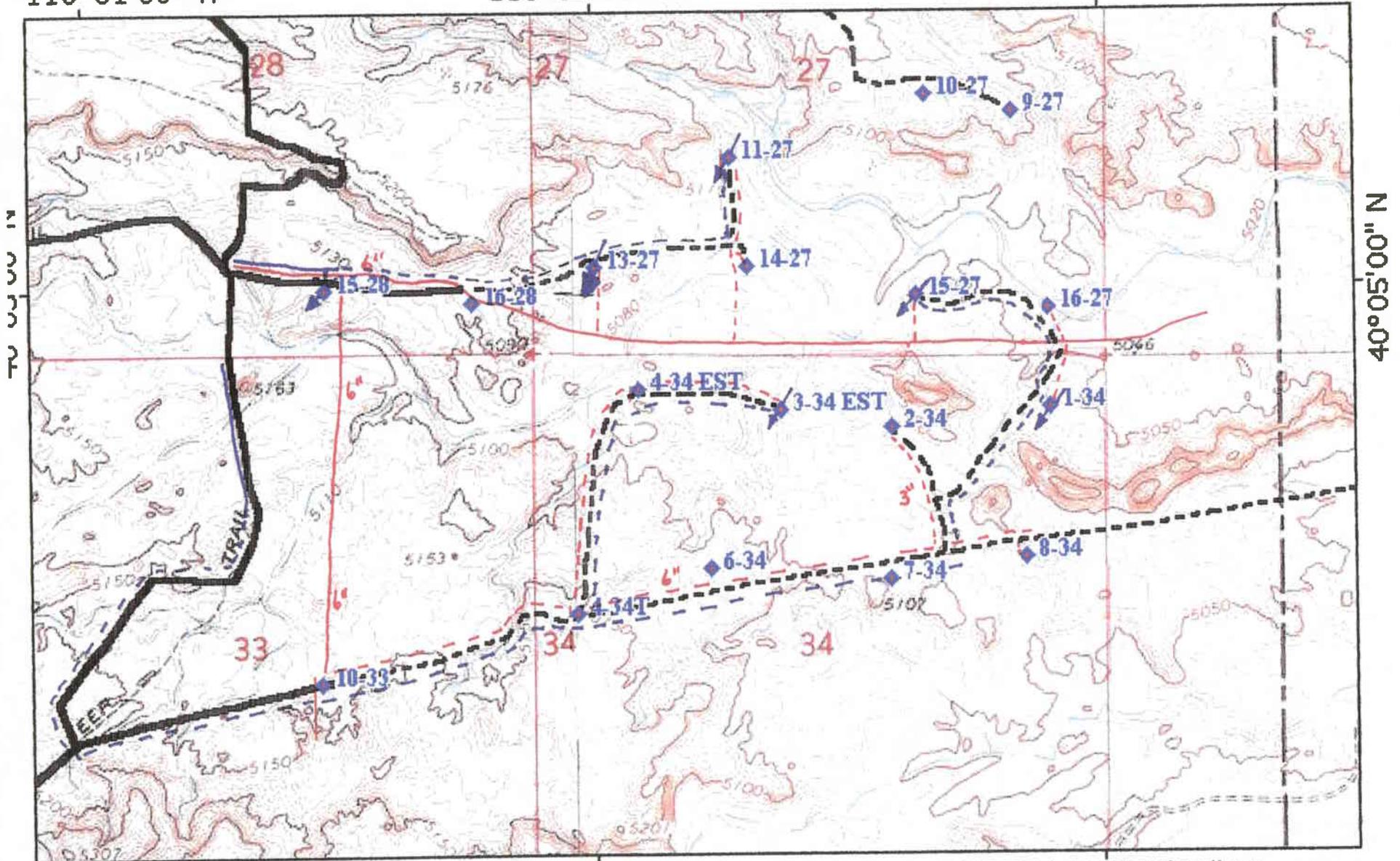
**"B"**

Boundary Development Map "C"

110°01'00" W

110°00'00" W

WGS84 109°59'00" W



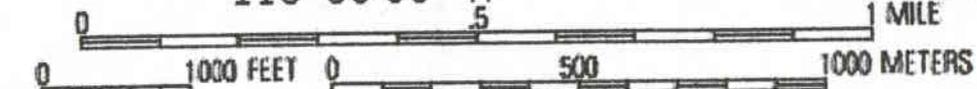
40°05'00" N

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
  - Brigs



Exhibit "A"

1 0 1 Miles

 410 1<sup>st</sup> Street, Suite 700  
Denver, Colorado 80202  
Phone: (303) 733-0122

**Uinta Basin**  
UINIA BASIN, UTAH  
Burdette & Clark County, Utah

July 10, 2011 L. J. Clark



RAM TYPE B.O.P.

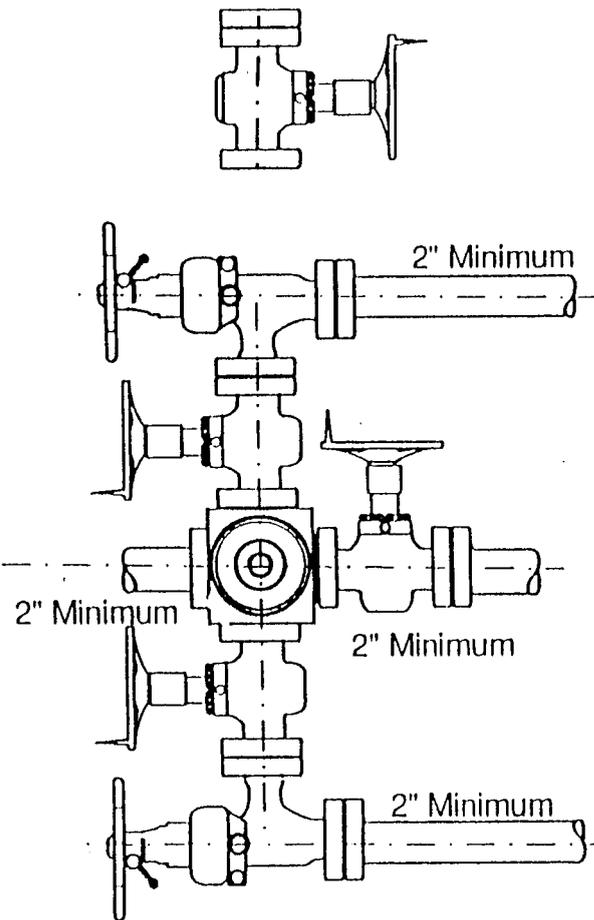
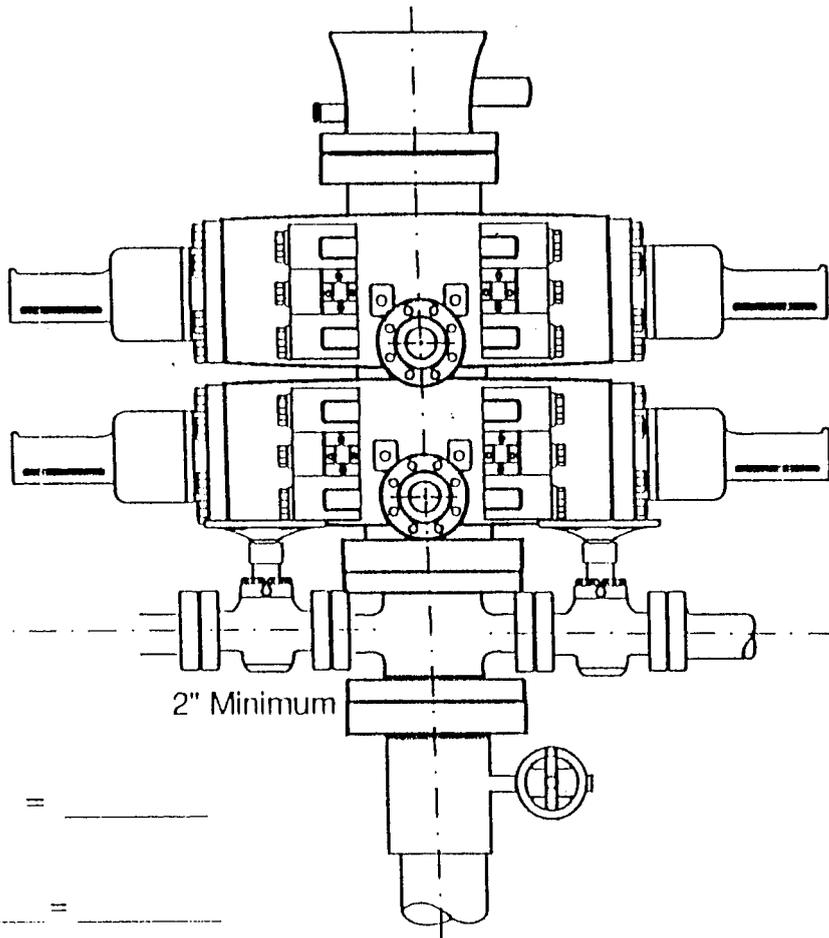
Make:

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: 43-013-32245

WELL NAME: GBU 14-27-8-17

OPERATOR: INLAND PRODUCTION ( N5160 )

CONTACT: BRAD MECHAM

PHONE NUMBER: 435-646-3721

PROPOSED LOCATION:

SESW 27 080S 170E  
 SURFACE: 0835 FSL 2029 FWL  
 BOTTOM: 0835 FSL 2029 FWL  
 DUCHESNE  
 MONUMENT BUTTE ( 105 )

LEASE TYPE: 1 - Federal

LEASE NUMBER: UTU-76241

SURFACE OWNER: 1 - Federal

PROPOSED FORMATION: GRRV

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

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 Aprvl.  
Eff Date: 4-8-98  
Siting: \*Suspend Gen. Siting
- R649-3-11. Directional Drill

COMMENTS: mon. Butte Sol, separate file.

STIPULATIONS: ① FEDERAL APPROVAL





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 14-27-8-17 Well, 835' FSL, 2029' FWL, SE 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 43-013-32245.

Sincerely,



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 14-27-8-17  
API Number: 43-013-32245  
Lease: UTU 76241

Location: SE 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.

STATE OF UTAH  
DIVISION OF OIL, GAS AND MINING

**REPORT OF WATER ENCOUNTERED DURING DRILLING**

Well name and number: Greater Boundry 14-27-8-17

API number: 43-013-322245

Well Location: QQ SE/SW Section 27 Township 8S Range 17E County Duchesne

Well Operator: INLAND PRODUCTION COMPANY

Address: Route 3 Box 3630

Myton, Utah 84052 Phone: 435-646-3721

Drilling Contractor: Ross Well Service

Address: P.O. Box.

Roosevelt, Utah 84066 Phone: 435-722-3500

Water encountered (attach additional pages as needed):

DEPTH		VOLUME (FLOW RATE OR HEAD)	QUALITY (FRESH OR SALTY)
FROM	TO		
51'	61'	No flow to surface	(salty)
		30.GPM	

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

Formation Tops: Surface ( Uinta ) \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

If an analysis has been made of the water encountered, please attach a copy of the report to this form. YES

I hereby certify that this report is true and complete to the best of my knowledge. Date: 06/27/01

Name & Signature: *Pat Wilson* Time: 10:00 AM

Analytical Laboratory Report for:

Inland Production

**UNICHEM**

A Division of BJ Services Company

UNICHEM Representative: Rick Crosby

## Production Water Analysis

Listed below please find water analysis report from: GBU, 14-27-8-17

Lab Test No: 2001401108      Sample Date: 07/16/2001  
Specific Gravity: 1.010  
TDS: 13086  
pH: 8.10

Cations:	mg/L	as:
Calcium	80	(Ca <sup>++</sup> )
Magnesium	10	(Mg <sup>++</sup> )
Sodium	4899	(Na <sup>+</sup> )
Iron	12.00	(Fe <sup>++</sup> )
Anions:	mg/L	as:
Bicarbonate	610	(HCO <sub>3</sub> <sup>-</sup> )
Sulfate	375	(SO <sub>4</sub> <sup>=</sup> )
Chloride	7100	(Cl <sup>-</sup> )
Gases:		
Carbon Dioxide		(CO <sub>2</sub> )
Hydrogen Sulfide	0	(H <sub>2</sub> S)

Comments:

51' Feet -

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

**APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK**

1a. TYPE OF WORK DRILL  DEEPEN

1b. TYPE OF WELL  
OIL GAS SINGLE MULTIPLE  
WELL  WELL  OTHER  ZONE  ZONE

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

6. IF INDIAN, ALLOTTEE OR TRIBE NAME  
**N/A**

2. NAME OF OPERATOR  
**Inland Production Company**

3. ADDRESS OF OPERATOR  
**410 - 17th Street, Suite 700, Denver, CO 80202 Phone: (303) 893-0102**

7. UNIT AGREEMENT NAME  
**Greater Boundary**

8. FARM OR LEASE NAME WELL NO  
**14-27-8-17**

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements \*)  
At Surface **SE/SW 2029' FWL 835' FSL**  
At proposed Prod. Zone

9. API WELL NO.

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

11. SEC., T., R., M., OR BLK.  
AND SURVEY OR AREA  
**SE/SW  
Sec. 27, T8S, R17E**

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE\*  
**Approximately 15.7 miles southeast of Myton, Utah**

12. County  
**Duchesne**

13. STATE  
**UT**

15. DISTANCE FROM PROPOSED* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also ) <b>Approx. 3251' f/lse line &amp; 3475' 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. 1552'</b>	19. PROPOSED DEPTH <b>6500'</b>	20. ROTARY OR CABLE TOOLS <b>Rotary</b>
--	------------------------------------	--

21. ELEVATIONS (Show whether DF, RT, GR, etc.)  
**5064.2' GR**

22. APPROX. DATE WORK WILL START\*  
**3rd Quarter 2001**

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**

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 *Bo Meclun* TITLE Operations Manager DATE April 20, 2001

**CONDITIONS OF APPROVAL ATTACHED**

(This space for Federal or State office use)  
**NOTICE OF APPROVAL** 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 *Howard A. Leung* Assistant Field Manager  
Mineral Resources DATE 07/03/2001

\*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.

CONDITIONS OF APPROVAL  
APPLICATION FOR PERMIT TO DRILL

Company/Operator: Inland Production Company

Well Name & Number: Greater Boundary 14-27-8-17

API Number: 43-013-32245

Lease Number: U-76241

Location: SESW Sec. 27 T.8S 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.

### CONDITIONS OF APPROVAL

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 PROGRAM

1. Other Information

In the event after-hours approvals are necessary, you must contact one of the following individuals:

Ed Forsman (435) 789-7077 (HOME) (435) 646-1685 (PAGER)  
Petroleum Engineer

Kirk Fleetwood (435) 789-6858 (HOME) (435) 646-1678 (PAGER)  
Petroleum Engineer

BLM FAX Machine (435) 781-4410

B. SURFACE USE PROGRAM

Plans For Reclamation of Location:

All seeding for reclamation operations at this location shall use the following seed mixture:

mat saltbush	Atriplex corrugata	4 lbs/acre
gardners saltbush	Atriplex gardneri	4 lbs/acre
galleta grass	Hilaria jamesii	4 lbs/acre

If the seed mixture is to be aerially broadcasted, the pounds per acre shall be doubled. All seed poundages are in Pure Live Seed.

Immediately after construction the stockpiled top soil will be seeded and the seed worked into the soil by "walking" the pile with caterpillar tracks.

Other Additional Information:

To prevent workers from potentially impacting the Federally listed Unitah Basin Hookless cactus a net fence shall be placed south of the authorized surface use area for the 14-27 and east of the authorized surface use area for the 13-27.

DIVISION OF OIL, GAS AND MINING

SPUDDING INFORMATION

Name of Company: INLAND PRODUCTION COMPANY

Well Name: GBU 14-27-8-17

Api No. 43-013-32245 LEASE TYPE: FEDERAL

Section 27 Township 08S Range 17E County DUCHESNE

Drilling Contractor LEON ROSS RIG # 14

SPUDDED:

Date 07//16/2001

Time 8:00 AM

How DRY

Drilling will commence \_\_\_\_\_

Reported by PAT WISENER

Telephone # 1-435-823-7468

Date 07/16/2001 Signed: CHD

P. 02/02

FAX NO. 435.646.3031

INLAND PRODUCTION CO

JUL-23-01 MON 07:55 AM

STATE OF UTAH

DIVISION OF OIL, GAS AND MINING

ENTITY ACTION FORM - FORM 6

DIVISION OF OIL, GAS AND MINING

OPERATOR INLAND PRODUCTION COMPANY  
ADDRESS RT. 3 BOX 3633  
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		
B A	99999	12391	43-013-32233	Boundary #8-27-8-17	SE/NE	27	8S	17E	Duchesne	June 20, 2001	06/20/01

WELL 1 COMMENTS

7-23-01

ACTION CODE	CURRENT ENTITY NO	NEW ENTITY NO	API NUMBER	WELL NAME	WELL LOCATION					SPUD DATE	EFFECTIVE DATE
					QQ	SC	TP	RG	COUNTY		
B A	99999	12391	43-013-32244	Boundary #13-27-8-17	SW/SW	27	8S	17E	Duchesne	July 12, 2001	07/12/01

WELL 2 COMMENTS

7-23-01

ACTION CODE	CURRENT ENTITY NO	NEW ENTITY NO	API NUMBER	WELL NAME	WELL LOCATION					SPUD DATE	EFFECTIVE DATE
					QQ	SC	TP	RG	COUNTY		
B A	99999	12391	43-013-32245	Boundary #14-27-8-17	SE/SW	27	8S	17E	Duchesne	July 16, 2001	07/16/01

WELL 3 COMMENTS

7-23-01

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

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 a new well for new well completion activity
- B - Add new well to existing well group or unit well
- C - Exclude well functions and identify production areas of well
- D - Re-assign well from one operator to another entity
- E - Close (exclude) well from production

NOTE: Use OPERATOR section to explain why well location date may differ.

(889)

*Kathie S. Jones*  
Kathie S. Jones  
Production Clerk  
Date

July 17, 2001

Date

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)  
**2029' FWL & 835' FSL SE/SW Sec.27, T8S, 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.  
**# 14-27-8-17**

9. API Well No.  
**# 43-013-32245**

10. Field and Pool, or Exploratory Area  
**# Monument Butte**

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 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>Spud</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 7/16/01, @ 8:00am. MIRU Ross #14. Drill 305' of 12 1/4" hole with air mist. TIH w/ 7 Jt's 85/8" J-55 24# csgn. Set @ 308.52'/KB On 7/20/01 cement with 165 sks of Class "G" w/ 3% CaCL2 + 1/4# sk Cello-Flake Mixed @ 15.8 ppg > 1.17 cf/sk yeild. 6 bbl cement returned to surface. **WOC**

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

Signed Pat Wisener Title Drilling Foreman Date 07/20/2001  
 Pat Wisener

(This space for Federal or State office use)

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

Conditions of approval, if any:

# INLAND PRODUCTION COMPANY - CASING & CEMENT REPORT

8 5/8 CASING SET AT 308.52

LAST CASING 8 5/8" SET AT 308.52'  
 DATUM 10' 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 Boundry 14-27-8-16  
 FIELD/PROSPECT Monument Butte  
 CONTRACTOR & RIG # Ross #14

**LOG OF CASING STRING:**

PIECES	OD	ITEM - MAKE - DESCRIPTION	WT / FT	GRD	THREAD	CONDT	LENGTH
		42.30'shjt					
		WHI - 92 csg head			8rd	A	0.95
7	8 5/8"	Maverick ST&C csg	24#	J-55	8rd	A	297.67
		<b>GUIDE</b> shoe			8rd	A	0.9
CASING INVENTORY BAL.			FEET	JTS	TOTAL LENGTH OF STRING		299.52
TOTAL LENGTH OF STRING			299.52	7	LESS CUT OFF PIECE		1
LESS NON CSG. ITEMS			1.85		PLUS DATUM TO T/CUT OFF CSG		10
PLUS FULL JTS. LEFT OUT			0		CASING SET DEPTH		<b>308.52</b>
TOTAL			297.67	7	} COMPARE		
TOTAL CSG. DEL. (W/O THRDS)			297.67	7			
TIMING			1ST STAGE				
BEGIN RUN CSG.			SPUD	07/16/2001	GOOD CIRC THRU JOB <u>yes</u>		
CSG. IN HOLE			8:00am		Bbls CMT CIRC TO SURFACE <u>6 bbl</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 _____ 340 _____ PSI		
PLUG DOWN			Cemented	07/20/2001			
CEMENT USED			CEMENT COMPANY- <b>BJ</b>				
STAGE	# SX	CEMENT TYPE & ADDITIVES					
1	165	Class "G" w/ 3% CaCL2 + 1/4#/sk Cello-Flake mixed @ 15.8 ppg 1.17 cf/sk yield					
CENTRALIZER & SCRATCHER PLACEMENT			SHOW MAKE & SPACING				
Centralizers - Middle first, top second & third for 3							

COMPANY REPRESENTATIVE Pat Wisener

DATE 07/20/2001

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.

# 14-27-8-17

9. API Well No.

# 43-013-32245

10. Field and Pool, or Exploratory Area

# Monument Butte

11. County or Parish, State

# Duchesne, Utah.

**SUBMIT IN TRIPLICATE**

1. Type of Well

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

2. Name of Operator

**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)

**2029' FWL & 835' FSL SE/SW Sec.27, T8S, R17E**

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

**TYPE OF SUBMISSION**

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

**TYPE OF ACTION**

<input type="checkbox"/> Abandonment	<input type="checkbox"/> Change of Plans
<input type="checkbox"/> Recompletion	<input type="checkbox"/> New Construction
<input type="checkbox"/> Logging Back	<input type="checkbox"/> Non-Routine Fracturing
<input type="checkbox"/> Casing Repair	<input type="checkbox"/> Water Shut-Off
<input type="checkbox"/> Altering Casing	<input type="checkbox"/> Conversion to Injection
<input checked="" type="checkbox"/> Other <u>Weekly Status report</u>	<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 7/29/01 thru 8/6/01.**

On 7/28/01 MIRU Union #14. Set equipment. Nipple up. Test BOP's, Choke manifold, Kelly, TIW. To 2,000 psi. Test 85/8" csgn to 1,500 psi. State office of DOGM & Vernal BLM was notified of the test. PU & MU bit # 1 Tag cement @ 223'. Drill 77/8" hole with air mist to a depth of 3574'. TOH with drill string & BHA. PU & MU bit #2. MM, & BHA drill 77/8" hole with water based mud to a depth of 6265'. Lay down drill string. Open hole log. PU & MU Guide shoe, 1 jt 51/2" csg, Float collar & 149 jt's J-55 15.5 # 51/2" csgn. Set @ 6254'/KB. Cement with 550\* 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 350\* sks Prem Litell w/ 3% KCL, 3#/sk Korseal. 8% Gel, .5SMS, 5#sk BA90, mixed @ 11.0PPG >3.43. Good returns thru job with 18 bbl cement returned to bit. Set slips with 65,000# tension. Nipple down BOP's. Release rig @ 1:00pm on 8/6/01.

**RECEIVED**

AUG 07 2001

**DIVISION OF  
OIL, GAS AND MINING**

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

Signed

*Pat Wisener*  
Pat Wisener

Title

Drilling Foreman

Date

08/06/2001

(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 6254.15

ftcllr@6214'

LAST CASING 8 5/8" SET AT 308.52'

OPERATOR Inland Production Company

DATUM 10' KB

WELL Greater Boundry 14-27-8-17

DATUM TO CUT OFF CASING \_\_\_\_\_

FIELD/PROSPECT Monument Butte

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

CONTRACTOR & RIG # UNION #14

TD DRILLER 6265' LOGGER 6270'

HOLE SIZE 77/8"

**LOG OF CASING STRING:**

PIECES	OD	ITEM - MAKE - DESCRIPTION	WT / FT	GRD	THREAD	CONDT	LENGTH
		Landing Jt					14.4
<b>149</b>	<b>5 1/2"</b>	Maverick LT & C casing	<b>15.5#</b>	<b>J-55</b>	<b>8rd</b>	<b>A</b>	6204.74
		Float collar			<b>8rd</b>	<b>A</b>	0.6
<b>1</b>	<b>5 1/2"</b>	Maverick LT & C csg	<b>15.5#</b>	<b>J-55</b>	<b>8rd</b>	<b>A</b>	38.16
		Guide shoe			<b>8rd</b>	<b>A</b>	0.65

CASING INVENTORY BAL.	FEET	JTS	TOTAL LENGTH OF STRING	6258.55
TOTAL LENGTH OF STRING	6258.55	150	LESS CUT OFF PIECE	14.4
LESS NON CSG. ITEMS	15.65		PLUS DATUM TO T/CUT OFF CSG	10
PLUS FULL JTS. LEFT OUT	71.77	2	CASING SET DEPTH	<b>6254.15</b>

TOTAL		152	} COMPARE
TOTAL CSG. DEL. (W/O THRDS)	6314.67	152	
TIMING	1ST STAGE	2nd STAGE	
BEGIN RUN CSG.	3:00am		GOOD CIRC THRU JOB <u>yes</u>
CSG. IN HOLE	6:45am		Bbls CMT CIRC TO SURFACE <u>18</u>
BEGIN CIRC	6:50am	8:07am	RECIPROCATED PIPE FOR <u>10 mins.</u> THRU <u>6'</u> FT STROKE
BEGIN PUMP CMT	8:16am	8:42am	DID BACK PRES. VALVE HOLD ? <u>Yes</u>
BEGIN DSPL. CMT	9:07am		BUMPED PLUG TO <u>2250</u> PSI
PLUG DOWN	9:35am		

CEMENT USED	CEMENT COMPANY- <b>BJ</b>		
STAGE	# SX	CEMENT TYPE & ADDITIVES	
<b>1</b>	<b>350</b>	Premlite II W/ .5%SM+ 10%gel+ 3#/sk BA90+ 2#/sk/kolseal+ 3% KCL+ 1/4#/sk C.F.+05#/sk staticfree mixed @ 11.0 ppg W/3.435 cf/sk yield	
<b>2</b>	<b>550</b>	50/50 poz W/ 3% KCL, 1/4#/sk C.F., 2% gel, .3% SMS,.1R3 .05#/sk staticfree mixed @ 14.4 ppg W/ 1.24 cf/sk yield	
		SHOW MAKE & SPACING	

Centerlizer's  
 One on middle of frist jt, one on collar of second & third jts, 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

**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)

**2029 FWL 835 FSL SE/SW Section 27, T08S 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 BOUNDARY**

8. Well Name and No.

**GREATER BOUNDARY 14-27-8-17**

9. API Well No.

**43-013-32245**

10. Field and Pool, or Exploratory Area

**MONUMENT BUTTE**

11. County or Parish, State

**DUCHESNE COUNTY, UT**

12. CHECK APPROPRIATE BOX(es) 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 Weekly status report  
 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.)

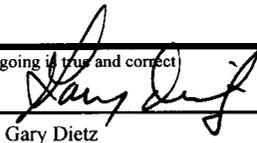
13. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to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

Status report for time period 8/20/01 through 8/26/01.

Subject well had completion procedures initiated on 8/20/01. A total of two Green River intervals were perforated and hydraulically fracture treated W/ 20/40 mesh sand. Bridge plugs and sand plugs were removed from wellbore. Zones were swab tested for cleanup. Production equipment was ran in well. Well began producing on pump on 8/27/01.

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

Signed

  
Gary Dietz

Title

Completion foreman

Date

8/27/01

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**

5. LEASE DESIGNATION AND SERIAL NO.

#UTU-76241

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

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

NA

1a. TYPE OF WORK

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

7. UNIT AGREEMENT NAME

Greater Boundary Unit

1b. TYPE OF WELL

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

8. FARM OR LEASE NAME, WELL NO.

GBU #14-27-8-17

2. NAME OF OPERATOR

INLAND RESOURCES INC.

9. WELL NO.

43-013-32245

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 2029' FWL & 835' FSL SESW Sec. 27, T8S, R17E

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

Sec. 27 Twp. 8S, Rng. 17E

At top prod. Interval reported below

At total depth

14. API NO. 43-013-32245 DATE ISSUED 4/30/01

12. COUNTY OR PARISH Duchesne 13. STATE UT

15. DATE SPUNDED 7/16/01 16. DATE T.D. REACHED 8/5/01 17. DATE COMPL. (Ready to prod.) 8/27/01 18. ELEVATIONS (DF, RKB, RT, GR, ETC.)\* 5064' GL 5074' KB 19. ELEV CASINGHEAD

20. TOTAL DEPTH, MD & TVD 6265' KB 21. PLUG BACK T.D., MD & TVD 6213' KB 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 4980'-6122'

25. WAS DIRECTIONAL SURVEY MADE

No

26. TYPE ELECTRIC AND OTHER LOGS RUN

*Rec 12-17-01*  
DIGL/SP/CDL/GR/Cal - 8-14-01

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#	308.52'	12-1/4"	To surface with 165 sx Class "G" cmt 350 sx Premlite II and 550 sx 50/50 Poz	
5-1/2" - J-55	15.5#	6254.15'	7-7/8"		

29. LINER RECORD

30. TUBING RECORD

SIZE	TOP (MD)	BOTTOM (MD)	SACKS CEMENT*	SCREEN (MD)	SIZE	DEPTH SET (MD)	PACKER SET (MD)
					2-7/8"	EOT @ 6103.38'	TA @ 6035.03'

31. PERFORATION RECORD (Interval, size and number)

INTERVAL	SIZE	NUMBER	DEPTH INTERVAL (MD)	AMOUNT AND KIND OF MATERIAL USED
(CP sands) 6117-22', 5826-40', 5804-12'	0.38"	108	5804'-6122'	Frac w/ 98,060# 20/40 sand in 633 bbl. fluid
(B,C,D2 sands) 5176-80', 5096-5102', 4980-84'	0.38"	56	4980'-5180'	Frac w/ 64,540# 20/40 sand in 489 bbl. fluid

33.\* PRODUCTION

DATE FIRST PRODUCTION 8/27/01	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. 65.3	GAS--MCF. 59.2	WATER--BBL. 20.8	GAS-OIL RATIO 907
FLOW TUBING PRESS	CASING PRESSURE	CALCULATED 24-HOUR RATE ->	OIL--BBL.	GAS--MCF.	WATER--BBL.	OIL GRAVITY API (CORP.)	

**RECEIVED**

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

TEST WITNESSED BY  
*SEP 17 2001*

35. LIST OF ATTACHMENTS

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

DIVISION OF  
OIL, GAS AND MINING

SIGNED *Kevin S. Weller* TITLE Manager of Development Operations DATE 9/13/01

BDH

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

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

38. GEOLOGIC MARKERS

FORMATION	TOP	BOTTOM	DESCRIPTION, CONTENTS, ETC.	NAME	TOP	
					MEAS. DEPTH	TRUE VERT. DEPTH
			Greater Boundary Unit #14-27-8-17	Garden Gulch Mkr	3935'	
				Garden Gulch 2	4228'	
				Point 3 Mkr	4501'	
				X Mkr	4739'	
				Y-Mkr	4774'	
				Douglas Creek Mkr	4905'	
				BiCarbonate Mkr	5146'	
				B Limestone Mkr	5283'	
				Castle Peak	5750'	
				Basal Carbonate		
				Total Depth (LOGGERS)	6270'	

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SEP 17 2001

DIVISION OF OIL, GAS AND MINING



September 14, 2001

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

Attn: Ms. Carol Daneils

Greater Boundary Unit #13-27-8-17  
**Greater Boundary Unit #14-27-8-17**  
Duchesne County, UT

Dear Ms. Carol Daneils

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) 893-0102 ext. 1449

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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SEP 17 2001

**DIVISION OF  
OIL, GAS AND 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		



## 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**

<b>ROUTING</b>
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:		<b>9/1/2004</b>
<b>FROM: (Old Operator):</b> N5160-Inland Production Company Route 3 Box 3630 Myton, UT 84052 Phone: 1-(435) 646-3721	<b>TO: ( New Operator):</b> N2695-Newfield Production Company Route 3 Box 3630 Myton, UT 84052 Phone: 1-(435) 646-3721	

**CA No. Unit: GREATER BOUNDARY (GR)**

<b>WELL(S)</b>								
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



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
REGION 8

1595 Wynkoop Street  
DENVER, CO 80202-1129

Phone 800-227-8917

<http://www.epa.gov/region08>

MAY 11 2010

Ref: 8P-W-GW

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

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

RE: Underground Injection Control (UIC)  
Additional Well to Boundary Area Permit  
EPA UIC Permit UT20702-08769  
Well: Greater Boundary 14-27-8-17  
SESW Sec. 27 T8S-R17E  
Duchesne County, Utah  
API No.: 43-013-32245

Dear Mr. Sundberg:

The Environmental Protection Agency Region 8 (EPA) hereby authorizes Newfield Production Company (Newfield) to convert the oil well Greater Boundary 14-27-8-17 to an enhanced recovery injection well according to the terms and conditions of the enclosed Authorization for Additional Well. The addition of this injection well, within the exterior boundary of the Uintah & Ouray Indian Reservation, is being made under the authority of 40 CFR §144.33 (c) and terms of the Boundary Area Permit No. UT20702-00000 and subsequent modifications.

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

RECEIVED

MAY 19 2010

DIV. OF OIL, GAS & MINING

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

Sincerely,



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

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

cc Letter Only:

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

Daniel Picard  
BIA - Uintah & Ouray Indian Agency

cc All Enclosures:

Ferron Secakuku  
Director, Natural Resources  
Ute Indian Tribe

Larry Love  
Director of Energy & Minerals Dept.  
Ute Indian Tribe

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

Fluid Minerals Engineering Office  
BLM - Vernal Office

Michael Guinn  
District Manager  
Newfield Production Company  
Myton, Utah



**UNITED STATES ENVIRONMENTAL PROTECTION AGENCY**

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

**AUTHORIZATION FOR ADDITIONAL WELL**

**UIC Area Permit UT20702-00000**

The Boundary Field Unit Final UIC Area Permit UT20702-00000, effective February 8, 1994, authorizes injection for the purpose of enhanced oil recovery in the, Boundary Field. On April 12, 2010, Newfield Production Company notified the Director concerning the following additional enhanced recovery injection well:

Well Name: **Greater Boundary 14-27-8-17**  
EPA Permit ID Number: **UT20702-08769**  
Location: **835' FSL & 2,029' FWL  
SESW Sec. 27 T8S-R17E  
Duchesne County, Utah  
API #43-013-32245**

Pursuant to 40 CFR §144.33, Area UIC Permit UT20702-00000 authorizes the permittee to construct and operate, convert, or plug and abandon additional enhanced recovery injection wells within the area permit. This well was determined to satisfy additional well criteria required by the permit.

This well is subject to all provisions of UIC Area Permit No. UT20702-00000, as modified and as specified in the Injection Well-Specific Requirements detailed below. This Authorization shall expire one year after the Effective Date unless the permittee has converted the well to injection or submits a written request to extend this Authorization prior to the expiration date.

This Authorization is effective upon signature.

Date:     **MAY 11 2010**    

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

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

## INJECTION WELL-SPECIFIC REQUIREMENTS

Well Name: **Greater Boundary 14-27-8-17**  
EPA Well ID Number: **UT20702-08769**

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

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

Once these records are received and approved by EPA, the Director will provide written authorization to inject for a limited period of 180 days, during which time a Radioactive Tracer Survey (RTS) is required. A successful RTS will be considered valid at injection pressures up to the MAIP until one of the following events occurs, at which time a subsequent RTS is required:

- a) If the submitted RTS is determined to be inconclusive or inadequate by EPA,
- b) If the MAIP of the injection well is exceeded for any reason (*It is a violation to exceed the MAIP without prior EPA approval*),
- c) If new injection perforations are added to the injection well, either through the creation of new perforations or the adjustment of the packer depth to inject into a set of existing perforations that were previously inactive,
- d) If the injection formation is acid-treated, hydraulically stimulated, or stimulated by any other method through the injection well, that may affect the cement integrity of the well,
- e) If the Director requests that a RTS be run for any reason.

A submitted RTS which indicates the movement of fluid behind casing from the injection zone will result in a requirement to demonstrate part II mechanical integrity using an approved demonstration method such as a temperature log, oxygen activation log, or noise log at a frequency no less than once every five years.

**Approved Injection Zone:** Due to the absence of cement through the previously established Areal Confining Zone (ACZ) located at approximately 3,734 feet (ft.) to 3,935 ft., injection in this well is limited to an interval from the base of a shale zone designated as Shale "B" at 4,241 ft. to the top of the Wasatch Formation at an estimated depth of approximately 6,295 ft. The designated injection interval for this well is from 4,241 ft. to 6,295 ft.

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

**Maximum Allowable Injection Pressure (MAIP):** The initial MAIP is 1,545 psig, based on the following calculation:

$$\begin{aligned} \text{MAIP} &= [\text{FG} - (0.433)(\text{SG})] * \text{D}, \text{ where} \\ \text{FG} &= 0.75 \text{ psi/ft.} \quad \text{SG} = 1.015 \quad \text{D} = 4,980 \text{ ft. (top perforation depth)} \\ \text{Initial MAIP} &= 1,545 \text{ psig} \end{aligned}$$

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

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

**Well Construction: Casing and Cementing:** The well was constructed in compliance with existing regulatory controls for casing and cementing pursuant to 40 CFR § 146.22(c). However, cementing records, including the Cement Bond Log (CBL), have not satisfactorily demonstrated the presence of adequate cement to prevent the migration of injection fluids behind the casing from the injection zone. An EPA-annotated wellbore diagram is attached.

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

**Demonstration of Mechanical Integrity:**

- (1) A successful demonstration of part I (internal) mechanical integrity using a Casing-Tubing Annulus Pressure Test is required prior to injection, and no less than every five years after the last successful test.
- (2) Because the cementing records have not satisfactorily demonstrated the presence of adequate cement to prevent migration of injection fluids behind the casing from the injection zone, a RTS is required to confirm the presence of adequate cement. The RTS will supplement the cementing records, which show an insufficient interval of 80 percent cement bond index or greater through the confining zone, by demonstrating the presence or absence of adequate cement to prevent fluid movement behind the casing above the uppermost perforation. It is intended that a maximum of 180 days of injection will allow the injection zone to achieve the Maximum Allowable Injection Pressure (MAIP) for the purpose of executing the RTS. If 180 days is not sufficient to achieve the MAIP specified in the permit, an extension of the period of Limited Authorization to Inject may be requested. If the RTS is not run, or if the RTS does not confirm adequate cement, the permittee shall demonstrate Part II (external) Mechanical Integrity pursuant to 40 CFR §146.8(a)(2) using an approved test method such as temperature log, noise log or oxygen activation log, and the demonstration of Part II Mechanical Integrity shall be repeated no less than every five years after the last successful test.

**Demonstration of Financial Responsibility:** The applicant has demonstrated financial responsibility by a Financial Statement in the amount of \$59,344 that has been approved by EPA. The Director may revise the amount required, and may require the permittee to obtain and provide updated estimates of costs for plugging the well according to the approved Plugging and Abandonment Plan.

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

- Plug No. 1: Set a cast iron bridge plug (CIBP) at 4,930 ft. Set 100 ft. cement plug on top of the CIBP.
- Plug No. 2: Perforate and squeeze cement up the backside of the 5-1/2" casing across the Trona Zone and the Mahogany Bench oil shale in a 174-foot cement plug from 3,046 ft. to 3,220 ft. unless pre-existing backside cement precludes cement-squeezing this interval. Set a 174-foot cement plug inside the 5-1/2" casing from 3,046 ft. to 3,220 ft.
- Plug No. 3: Perforate and squeeze cement up the backside of the 5-1/2" casing across the contact between the Uinta Formation and Green River Formation at 1,609 ft., in a 120-foot cement plug from 1,549 ft. to 1,669 ft., unless pre-existing backside cement precludes cement-squeezing this interval. Set a minimum 120-foot cement plug inside the 5-1/2" casing from 1,549 ft. to 1,669 ft.
- Plug No. 4: Perforate 5-1/2" casing at 65 ft. and squeeze cement up the 5-1/2"x 8-5/8" casing annulus to the surface unless the Permittee can demonstrate that the surface casing annulus was cemented adequately from a depth of 308 ft. to surface during well construction. Set a cement plug within the 5-1/2" casing, from a depth of 358 ft. to the surface.

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

## INJECTION WELL-SPECIFIC CONSIDERATIONS

Well Name: **Greater Boundary 14-27-8-17**

EPA Well ID Number: **UT20702-08769**

**Underground Sources of Drinking Water (USDWs):** USDWs in the Greater Boundary Unit generally occur within the Uinta Formation. According to "*Base of Moderately Saline Ground Water in the Uinta Basin, Utah, State of Utah Technical Publication No. 92,*" the base of moderately saline ground water may be found at approximately 203 ft. below ground surface in the Greater Boundary 14-27-8-17 well.

**Utah Division of Water Rights Information:** According to the state website, <http://utstnrwr6.waterrights.utah.gov/cgi-bin/wrplat.exe>, there are no known reservoirs, streams, domestic or agricultural water wells within one-quarter (1/4) mile of the well.

**Composition of Source, Formation, and Injectate Water:** The Total Dissolved Solids (TDS) content of water produced from the injection zone in the Green River Formation was determined to be 11,361 mg/l on November 27, 2009. Due to nearby injection activity for the purpose of enhanced oil recovery, this TDS value may not be representative of the original TDS content of formation waters at or near the Greater Boundary 14-27-8-17 well.

The TDS content of injectate was determined to be 2,897 mg/l on January 5, 2010. The injectate is water from a Boundary Injection Facility and consists of culinary water from the Johnson Water District blended with produced Green River Formation water.

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

**Confining Zone:** The established Areal Confining Zone (ACZ) directly overlies the Garden Gulch Member of the Green River Formation and is found between 3,734 ft. and 3,935 ft. in the Greater Boundary 14-27-8-17 well. However, the cement records show no cement behind casing across this interval. Therefore, the ACZ cannot be used as the confining zone for this well. To avoid the risks associated with cement-squeezing, two alternative Garden Gulch Member confining zones (below the ACZ) have been identified as follows:

Shale "A": 4,042 ft. to 4,120 ft. There is no cement across Shale "A" according to CBL analysis. Therefore, Shale "A" cannot be used as the confining zone in this well.

Shale "B": 4,164 ft. to 4,241 ft. Shale "B" is approximately 77 ft. in thickness. There is approximately 20 ft. of adequate cement (80 percent or greater cement bond index) across Shale "B" in the interval 4,218 ft. to 4,238 ft. Therefore, EPA has determined that Shale "B" is the alternate confining zone for the Greater Boundary 14-27-8-17 well.

**Injection Zone:** The injection zone for this well is in the Green River Formation from the base of Shale "B" at 4,241 ft. to the top of the Wasatch Formation at an estimated depth of approximately 6,295 ft. Due to the change in the designated confining zone, the injection zone has been limited to an interval from the base of Shale "B", at a depth of 4,241 ft. to the top of the Wasatch Formation, at an estimated depth of approximately 6,295 ft. This is a clarification of the depth of the base of Shale "B" provided in the permit application (4,235 ft. was indicated in the permit application as depth for the base of Shale "B"). Also, this clarifies that the top of the Wasatch at 6,295 ft. (not the well depth of 6,265 ft. as cited in the permit application) is used as the bottom of the injection zone. The injection zone at this well location consists of approximately 2,054 ft. of multiple lenticular sand units interbedded with shale, marlstone and limestone from the base of Formation tops are either submitted by the operator or are based on correlations to the Newfield Monument Butte Type Log.

**Well Construction:** The Cement Bond Log (CBL) for this well does not show a sufficient interval of continuous 80 percent or greater cement bond index through the ACZ (3,734 ft. to 3,935 ft.). However, there appears to be adequate cement in this well in Shale "B" in the interval 4,218 ft.-4,238 ft. A demonstration that well cement is adequate to prevent significant migration of injection fluids behind casing is therefore required.

**Surface Casing:** 8-5/8" casing is set at 308 ft. in a 12-1/4" hole, using 165 sacks of Class "G" Cement, cemented to the surface.

**Longstring Casing:** 5-1/2" casing is set at 6,254 ft. in a 7-7/8" hole secured with 350 sacks of Prem. Lite II cement and 550 sacks of 50/50 POZ cement. Total driller depth is 6,265 ft. Plugged back total depth is 6,213 ft. Cement Bond Log (CBL) shows top of cement is 70 ft.

**Perforations:** Top perforation: 4,980 ft. Bottom perforation: 6,122 ft.

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

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

**Fracture Gradient:** A fracture gradient value of 0.75 psi/ft. was selected by EPA because it is the most conservative fracture gradient calculated for other nearby wells.

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

**Well Plugging and Abandonment:** As discussed in the EPA Region 8 Groundwater Program Guidance #40, wells should be plugged and abandoned in a manner to prevent migration of fluids in the wellbore into or between USDWs. The four (4) cement plugs required for this well are as follows:

*Authorization for Additional Well: UIC Area Permit UT20702-00000  
Well: Greater Boundary 14-27-8-17 EPA Well ID: UT20702-08769*

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

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

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

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

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

The following two wells that penetrate the area confining zone within or proximate to a ¼-mile radius around the Greater Boundary 14-27-9-17 well were evaluated to determine if any corrective action is necessary to prevent fluid movement into USDWs:

<b><u>AOR Well</u></b>	<b><u>API Number</u></b>	<b><u>Location</u></b>
Greater Boundary Federal Q-27-8-17	API: 43-013-34009	SE/SW Sec. 27 T8S-R17E
Greater Boundary 11-27-8-17	API: 43-013-32243	NE/SW Sec. 27 T8S-R17E

#### **No Corrective Action is Required for the Two AOR wells:**

Greater Boundary Federal Q-27-8-17: The Cement Bond Log (CBL) shows the Top of Cement (TOC) to be at 90 ft. The ACZ is at 3,781 ft. to 3,992 ft. in this well. The CBL also shows 32 ft. of adequate cement (80 percent or greater cement bond index) in the interval 3,884 ft. to 3,916 ft.

Greater Boundary 11-27-8-17: The CBL shows the TOC to be at 120 ft. The ACZ is at 3,850 ft. to 3,960 ft. in this well. The CBL shows no adequate cement (80 percent or greater cement bond index) across the ACZ. However, the CBL shows 18 ft. of adequate cement across Shale "B" in the interval 4,250 ft. to 4,268 ft.

## **REPORTING REQUIREMENTS**

### **Reporting of Noncompliance:**

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

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

Emergency Operations Center at (303)-293-1788, if calling from outside EPA Region 8. The following information shall be included in the verbal report:

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

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

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

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

Tom Aalto, EPA  
TEA

# Greater Boundary 14-27-8-17

Spud Date: 7/16/2001  
Put on Production: 8/27/2001

Initial Production: 65.3 BOPD,  
59.2 MCFD, 20.8 BWPD

GL: 5064' KB: 5074' - 4871' = 203'  
SURFACE CASING (est. base of USDW)\*

CSG SIZE: 8-5/8" TOC @ 70'  
WEIGHT: 24#  
LENGTH: 7 jts. (299.52')  
DEPTH LANDED: 308.52' Casing Shoe @ 308'  
HOLE SIZE: 12-1/4"  
CEMENT DATA: 165 sxs Class "G" cmt, est 6 bbls cmt to surf

PRODUCTION CASING

CSG SIZE: 5-1/2"  
GRADE: J-55  
WEIGHT: 15.5#  
LENGTH: 150 jts. (6258.55')  
DEPTH LANDED: 6254.15'  
HOLE SIZE: 7-7/8"  
CEMENT DATA: 350 sk Prem. Lite II mixed & 550 sxs 50/50 POZ.  
CEMENT TOP AT: 70' per CBL

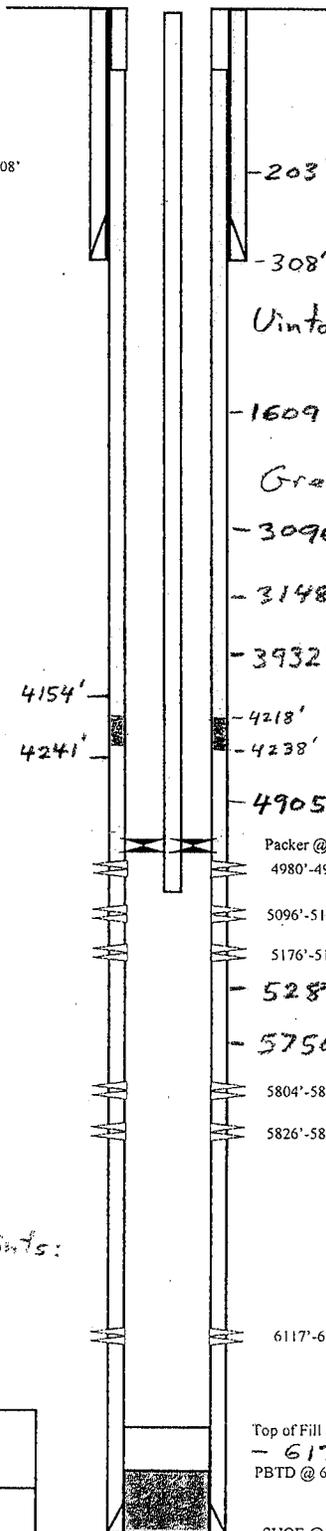
TUBING

SIZE/GRADE/WT.: 2-7/8" J-55/16.5#  
NO. OF JOINTS: 189 jts (6028.05')  
TUBING ANCHOR: 6038.05'  
NO. OF JOINTS: 1 jt (32.54')  
SEATING NIPPLE: 2-7/8" (1.10')  
SN LANDED AT: 6073.37' KB  
NO. OF JOINTS: 1 jts (31.46')  
TOTAL STRING LENGTH: EOT @ 6106.38' w/10' KB

Confining Zone  
Shale "B"

4154'  
4241'

Proposed Injection Wellbore Diagram



FRAC JOB

8/21/01 5804'-6122' Frac CP sand as follows:  
98,060# 20/40 sand in 633 bbls Viking I-25 fluid. Treated @ avg press of 1700 psi w/avg rate of 35.9 BPM. ISIP 1920 psi. Flowed for 5 hrs then died.  
8/22/01 4980'-5180' Frac B/C/D2 sands as follows:  
64,540# 20/40 sand in 489 bbls Viking I-25 fluid. Treated @ avg press of 1680 psi w/avg rate of 30.2 BPM. ISIP 1850 psi. Flowed for 4.5 hrs then died.  
6/3/03 Tubing Leak. Updated tubing and rod detail.  
5/05/04 Tubing leak. Pump change. Update rod details.  
10/4/04 Pump Change. Update rod details  
1/24/06 Tubing leak. Update rod and tubing details.  
4/19/09 Parted rods. Updated r & t details.

8/22/01 4980'-5180'  
-203' est. base of USDW

6/3/03  
-308'  
5/05/04  
Uinta Fm  
10/4/04  
1/24/06

-1609' Green River Mkr  
4/19/09  
Green River Fm

-3096' Trona  
-3148' Mahogany Bench  
-3932' Garden Gulch Mkr

-4218' 80% cement (CBL)  
-4238'

PERFORATION RECORD

Depth	Perforation	Holes
4905' Douglas Creek	8/21/01 6117'-6122'	4 JSPF 20 holes
	8/21/01 5826'-5840'	4 JSPF 56 holes
Packer @ 4930'	8/21/01 5804'-5812'	4 JSPF 32 holes
4980'-4984'	8/22/01 5176'-5180'	4 JSPF 16 holes
	8/22/01 5096'-5102'	4 JSPF 24 holes
5096'-5102'	8/22/01 4980'-4984'	4 JSPF 16 holes

5176'-5180'  
-5283' B Limestone Mkr  
-5750' Castle Peak  
5804'-5812'  
5826'-5840'

Top of Fill @ 6169'  
- 6170' Basal Carbonate  
PBTD @ 6213' (est. thickness 125')

SHOE @ 6254'  
TD @ 6265'

Wasatch Fm (est. 6295')

\* Base of USDW is estimated from ramp in Utah DNP Technical Publication No. 92. The well is located approximately mid-way between two elevation data points: 4758' and 4784'. The average of there is 4871'.

**NEWFIELD**

Greater Boundary 14-27-8-17  
2029 FWL & 835 FSL  
SE/SW Sec. 27, T8S R17E  
Duchesne, County  
API# 43-013-32245; Lease# UTU-76241

Attachment 02  
 Tom Aalto, EPA  
 EA

# Greater Boundary 14-27-8-17

Spud Date: 7/16/2001  
 Put on Production: 8/27/2001  
 GL: 5064' KB: 5074'

Initial Production: 65.3 BOPD,  
 59.2 MCFD, 20.8 BWPD

Proposed P&A  
 Wellbore Diagram

**SURFACE CASING**

CSG SIZE: 8-5/8"  
 GRADE: J-55 TOC @ 70'  
 WEIGHT: 24#  
 LENGTH: 7 jts. (299.52')  
 DEPTH LANDED: 308.52'  
 HOLE SIZE: 12-1/4" Casing Shoe @ 308'  
 CEMENT DATA: 165 sxs Class "G" cmt, est 6 bbbls cmt to surf

Pump 42 sx Class "G" Cement casing to 358'

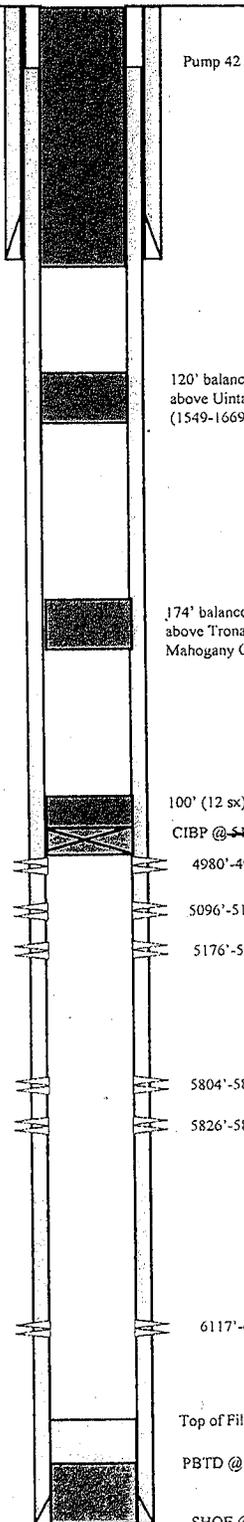
**PRODUCTION CASING**

CSG SIZE: 5-1/2"  
 GRADE: J-55  
 WEIGHT: 15.5#  
 LENGTH: 150 jts. (6258.55')  
 DEPTH LANDED: 6254.15'  
 HOLE SIZE: 7-7/8"  
 CEMENT DATA: 350 sk Prem. Lite II mixed & 550 sxs 50/50 POZ.  
 CEMENT TOP AT: 70' per CBL

120' balance plug using 14 sx Class "G" cement 60' above Uinta/Green River and extending 60' below (1549-1669')

174' balance plug using 20 sx Class "G" cement 50' above Trona-Bird's Nest extending 50' below base of Mahogany Oil Shale (3046-3220')

100' (12 sx) Class G Cement plug on top of CIBP  
 CIBP @ ~~5122~~ 4930' [Revision]



4980'-4984'  
 5096'-5102'  
 5176'-5180'  
 5804'-5812'  
 5826'-5840'  
 6117'-6122'  
 Top of Fill @ 6169'  
 PBTD @ 6213'  
 SHOE @ 6254'  
 TD @ 6265'

**NEWFIELD**

Greater Boundary 14-27-8-17  
 2029 FWL & 835 FSL  
 SE/SW Sec. 27, T8S R17E  
 Duchesne, County  
 API# 43-013-32245; Lease# UTU-76241

<b>STATE OF UTAH</b> DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		FORM 9
<b>SUNDRY NOTICES AND REPORTS ON WELLS</b>  Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.		<b>5. LEASE DESIGNATION AND SERIAL NUMBER:</b> UTU-76241
		<b>6. IF INDIAN, ALLOTTEE OR TRIBE NAME:</b>
<b>1. TYPE OF WELL</b> Oil Well		<b>7. UNIT or CA AGREEMENT NAME:</b> GMBU (GRRV)
<b>2. NAME OF OPERATOR:</b> NEWFIELD PRODUCTION COMPANY		<b>8. WELL NAME and NUMBER:</b> GBU 14-27-8-17
<b>3. ADDRESS OF OPERATOR:</b> Rt 3 Box 3630 , Myton, UT, 84052		<b>9. API NUMBER:</b> 43013322450000
<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> 0835 FSL 2029 FWL <b>QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:</b> Qtr/Qtr: SESW 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

TYPE OF SUBMISSION	TYPE OF ACTION		
<input type="checkbox"/> NOTICE OF INTENT Approximate date work will start:	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> CASING REPAIR
<input checked="" type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion: 5/14/2014	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> CHANGE WELL NAME
<input type="checkbox"/> SPUD REPORT Date of Spud:	<input checked="" type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input checked="" type="checkbox"/> CONVERT WELL TYPE
<input type="checkbox"/> DRILLING REPORT Report Date:	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> NEW CONSTRUCTION
	<input type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> PLUG BACK
	<input type="checkbox"/> PRODUCTION START OR RESUME	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION
	<input type="checkbox"/> REPERFORATE CURRENT FORMATION	<input type="checkbox"/> SIDETRACK TO REPAIR WELL	<input type="checkbox"/> TEMPORARY ABANDON
	<input type="checkbox"/> TUBING REPAIR	<input type="checkbox"/> VENT OR FLARE	<input type="checkbox"/> WATER DISPOSAL
	<input type="checkbox"/> WATER SHUTOFF	<input type="checkbox"/> SI TA STATUS EXTENSION	<input type="checkbox"/> APD EXTENSION
	<input type="checkbox"/> WILDCAT WELL DETERMINATION	<input type="checkbox"/> OTHER	OTHER: <input style="width: 100px;" type="text"/>

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

The subject well has been converted from a producing oil well to an injection well on 05/14/2014. Initial MIT on the above listed well. On 05/14/2014 the casing was pressured up to 1500 psig and charted for 30 minutes with no pressure loss. The well was not injecting during the test. The tubing pressure was 0 psig during the test. There was not an EPA representative available to witness the test. EPA# UT22197-10337

**Accepted by the  
Utah Division of  
Oil, Gas and Mining**  
**FOR RECORD ONLY**  
May 27, 2014

<b>NAME (PLEASE PRINT)</b> Lucy Chavez-Naupoto	<b>PHONE NUMBER</b> 435 646-4874	<b>TITLE</b> Water Services Technician
<b>SIGNATURE</b> N/A	<b>DATE</b> 5/20/2014	

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

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

EPA Witness: \_\_\_\_\_ Date: 5/14/2014  
 Test conducted by: Dustin Bennett  
 Others present: \_\_\_\_\_

Well Name: <u>Grater Bandy 14-27-8-17</u>	Type: ER SWD	Status: AC TA UC
Field: <u>Monument Butte</u>		
Location: <u>SE/1/4</u> Sec: <u>37</u> T: <u>8</u> N: <u>10</u> R: <u>17</u> W: <u>0</u> County: <u>Richeson</u> State: <u>UT</u>		
Operator: <u>Newfield Exploration</u>		
Last MIT: <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: 1515/0 psig

MIT DATA TABLE	Test #1	Test #2	Test #3
<b>TUBING PRESSURE</b>			
Initial Pressure	<u>0</u> psig	psig	psig
End of test pressure	<u>0</u> psig	psig	psig
<b>CASING / TUBING ANNULUS PRESSURE</b>			
0 minutes	<u>1515</u> psig	psig	psig
5 minutes	<u>1513</u> psig	psig	psig
10 minutes	<u>1510</u> psig	psig	psig
15 minutes	<u>1508</u> psig	psig	psig
20 minutes	<u>1505</u> psig	psig	psig
25 minutes	<u>1502</u> psig	psig	psig
30 minutes	<u>1500</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

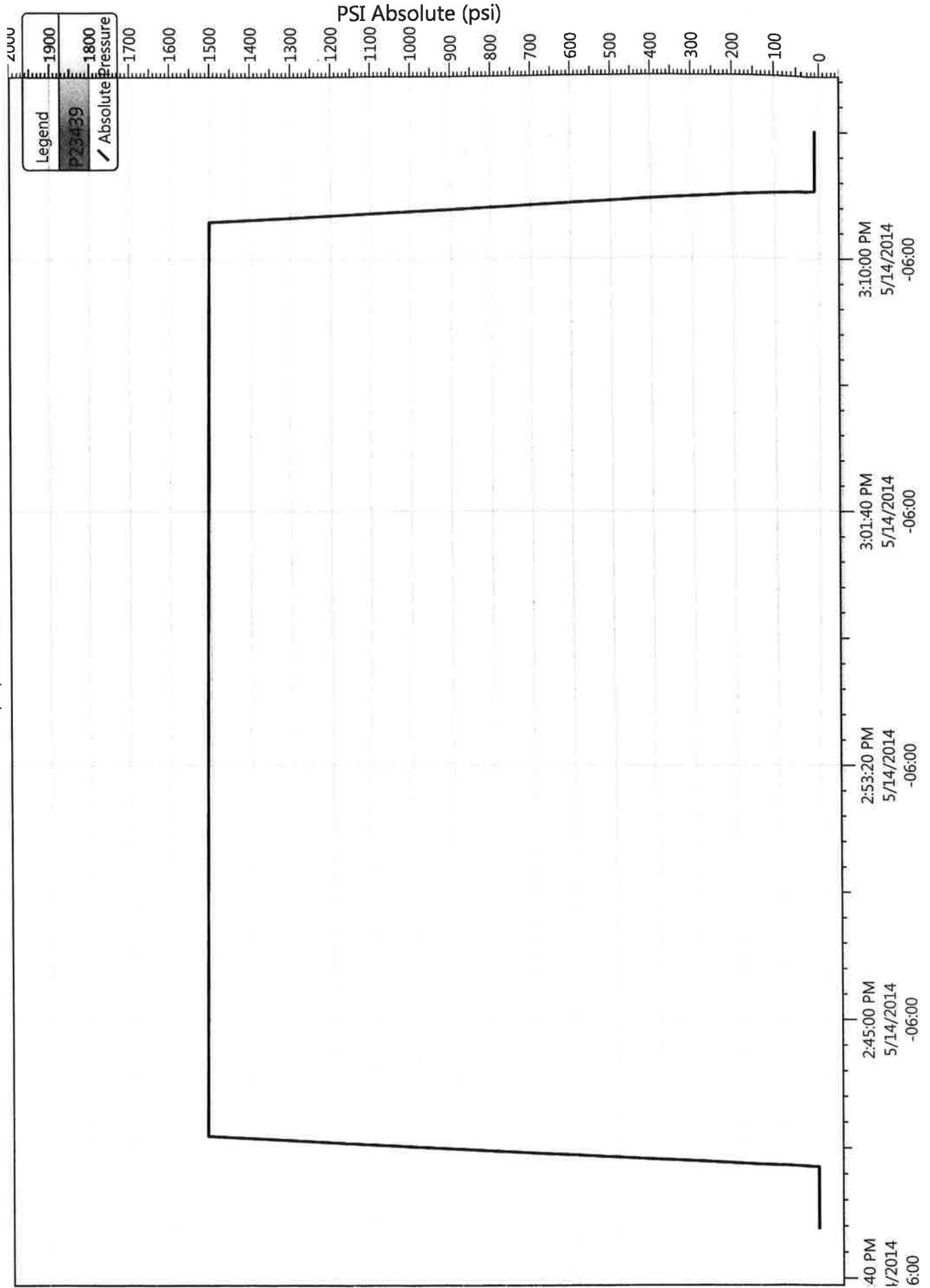
### MECHANICAL INTEGRITY PRESSURE TEST

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: \_\_\_\_\_

Greater Boundary 14-27-8-17 (Conversion MIT 5-14-2014)

5/14/2014 2:36:03 PM





### Job Detail Summary Report

Well Name: Gtrr Bndry II 14-27-8-17

Jobs		Job Start Date	Job End Date
Primary Job Type Conversion		5/14/2014	

Daily Operations		24hr Activity Summary
Report Start Date	Report End Date	LOAM FROM 16A-31-8-18, MIRU,
5/12/2014	5/12/2014	
Start Time	End Time	05:00
01:30	05:00	LOAM FROM 16A-31-8-18 TO 14-27-8-17 MIRU RD PUMPING UNIT, PUMP 60 BBLs DOWN CSG RODS PARTED TOOH LOOKING FOR PART FIND PART BODY BREAK IN ROD 38, TIH W/ RODS & OVER SHOT LATCH ONTO FISH UNSEAT PUMP W/8000 OVER STRING WT LD 2 RODS SWIFN @ 5:00
Start Time	End Time	06:00
05:00	06:00	CREW TRAVEL
Report Start Date	Report End Date	SOFT SEAT RODS & TOOH LD RODS
5/13/2014	5/13/2014	
Start Time	End Time	07:00
06:00	07:00	CREW TRAVEL & SAFETY MTG
Start Time	End Time	11:30
07:00	11:30	FLUSH RODS W/ 40 BBLs, RESEAT PUMP & TEST TO 3000 PSI W/1 BBL, TOOH LD RODS AS FOLLOWS 1 1/2 X 22' POLISH ROD, 1-4', 1-8' 3/4 PONY RODS, 81 3/4 4-PER, 96 3/4 SLICK RODS, 60 3/4 4-PER, 6 1 1/2 WT BARS, & PUMP, FLUSH 3 TIMES W/ TOTAL 60 BBLs ON TOOH
Start Time	End Time	17:00
11:30	17:00	X-OVER TO TBG EQUIP, ND WELL HEAD, RELEASE TAC, NU BOPS, PU & TIH TO 6175' 38' OF TOTAL FILL, LD EXTRA TBG TOOH BREAKING & REDOPING EVERY COLLAR ON TOTAL OF 154 JTS FLUSH TBG 2 TIMES ON TOOH W/ TOTAL 65 BBLs WAIT ON TRAILER TO LD TBG SWIFN
Start Time	End Time	18:00
17:00	18:00	CREW TRAVEL
Report Start Date	Report End Date	LD EXTRA TBG TIH W/ PKR & TEST
5/14/2014	5/14/2014	
Start Time	End Time	07:00
06:00	07:00	CREW TRAVEL & SAFETY MTG
Start Time	End Time	12:00
07:00	12:00	FLUSH TBG W/ 25 BBLs, CONT TOOH LD TOTAL OF 38 JTS & BHA, PU & TIH W/ AS1 PKR & TBG AS FOLLOWS WIRE LINE RE-ENTRY TOOL, XN NIPPLE, 2 3/8 X 4 PUP JT, 2 3/8 X 2 7/8 X-OVER, AS1 PKR, ON OFF TOOL, PSN, 153 JTS PUMP 35 BBL PAD, DROP SV PRESS UP TBG TO 3000 W/ 26 BBLs GET GOOD TEST
Start Time	End Time	16:00
12:00	16:00	FISH SV, ND BOPS LAND TBG W/ B1 ADAPTOR FLANGE PUMP 50 BBLs FRESH WATER W/ PKR FLUID SET AS1 PKR W/ 15000 TENSION LAND TBG W/ INJ TREE W/ PSN @4923.75, PKR CE@ 4930.97, EOT @ 4940.04, PRESS UP CSG TO 1700 PSI WAIT ON MIT GET MIT
Start Time	End Time	16:30
16:00	16:30	Initial MIT on the above listed well. On 05/13/2014 the casing was pressured up to 1500 psig and charfed for 30 minutes with no pressure loss. The well was not injecting during the test. The tubing pressure was 0 psig during the test. There was not an EPA representative available to witness the test. EPA# UT22197-10337
Start Time	End Time	17:30
16:30	17:30	RDMO
Start Time	End Time	18:30
17:30	18:30	CREW TRAVEL

**NEWFIELD**

**Schematic**

**Well Name: Grtr Bndry II 14-27-8-17**

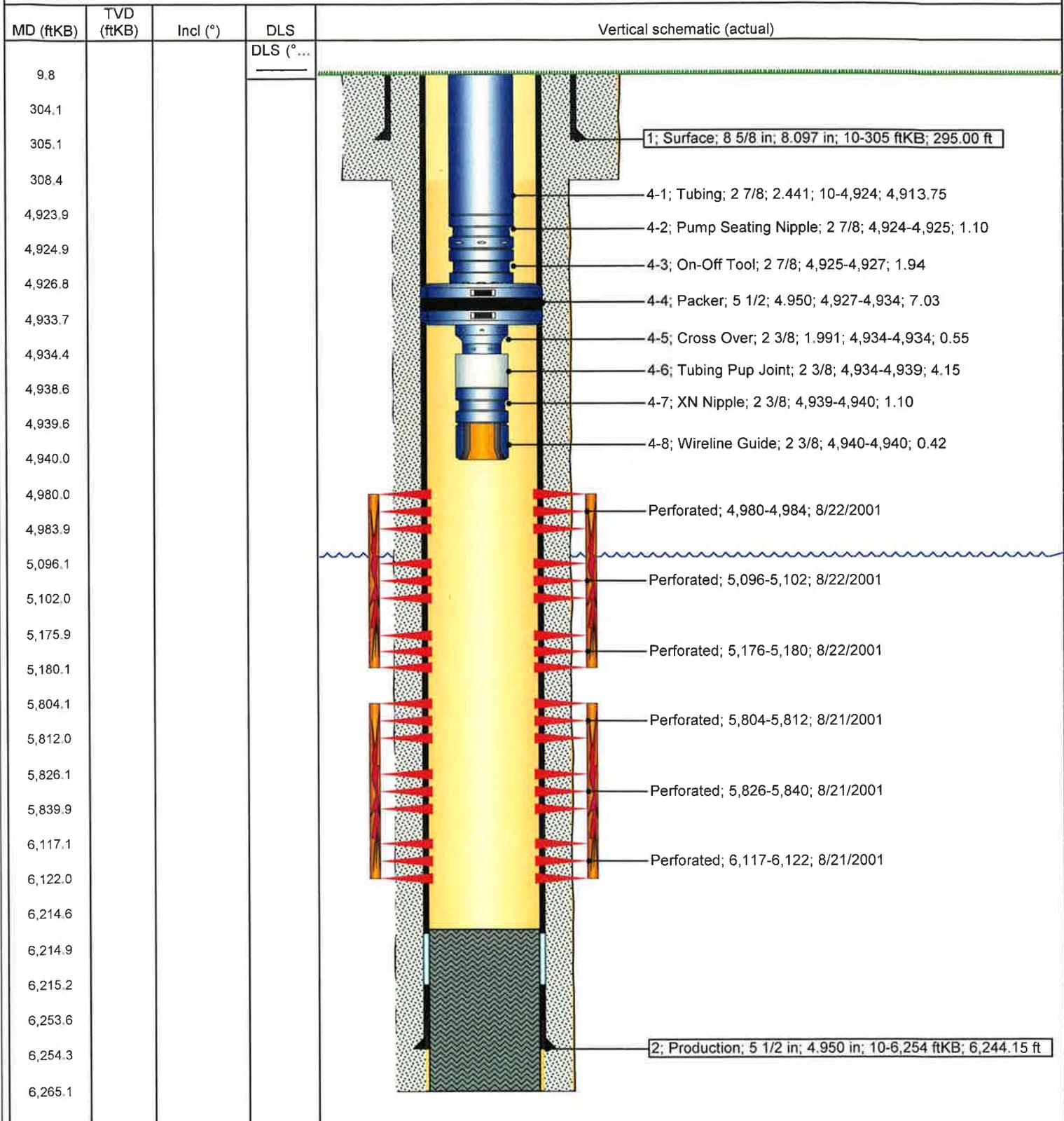
Surface Legal Location 2029' FWL & 835' FSL (SE/SW) SECTION 27-T8S-R17E			API/JWI 43013322450000	Well RC 500150736	Lease	State/Province Utah	Field Name GMBU CTB7	County DUCHESNE
Spud Date 7/16/2001	Rig Release Date 8/6/2001	On Production Date 8/27/2001	Original KB Elevation (ft) 5,074	Ground Elevation (ft) 5,064	Total Depth All (TVD) (ftKB)		PBTD (All) (ftKB) Original Hole - 6,214.7	

**Most Recent Job**

Job Category Production / Workover	Primary Job Type Conversion	Secondary Job Type Basic	Job Start Date 5/12/2014	Job End Date 5/14/2014
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**TD: 6,265.0**

Vertical - Original Hole, 5/20/2014 10:13:03 AM



**NEWFIELD**

### Newfield Wellbore Diagram Data Grtr Bndry II 14-27-8-17

Surface Legal Location 2029' FWL & 835' FSL (SE/SW) SECTION 27-T8S-R17E			API/UWI 43013322450000		Lease	
County DUCHESNE		State/Province Utah		Basin Uintah Basin		Field Name GMBU CTB7
Well Start Date 7/16/2001		Spud Date 7/16/2001		Final Rig Release Date 8/6/2001		On Production Date 8/27/2001
Original KB Elevation (ft) 5,074	Ground Elevation (ft) 5,064	Total Depth (ftKB) 6,265.0		Total Depth All (TVD) (ftKB)		PBTB (All) (ftKB) Original Hole - 6,214.7

**Casing Strings**

Csg Des	Run Date	OD (in)	ID (in)	Wt/Len (lb/ft)	Grade	Set Depth (ftKB)
Surface	7/16/2001	8 5/8	8.097	24.00	J-55	305
Production	8/6/2001	5 1/2	4.950	15.50	J-55	6,254

**Cement****String: Surface, 305ftKB 7/16/2001**

Cementing Company BJ Services Company		Top Depth (ftKB) 10.0	Bottom Depth (ftKB) 305.0	Full Return?	Vol Cement Ret (bbl)
Fluid Description 3% CaCL2 + 1/4#/sk Cello-Flake		Fluid Type Lead	Amount (sacks) 165	Class G	Estimated Top (ftKB)

**String: Production, 6,254ftKB 8/6/2001**

Cementing Company BJ Services Company		Top Depth (ftKB) 10.0	Bottom Depth (ftKB) 6,265.0	Full Return?	Vol Cement Ret (bbl)
Fluid Description		Fluid Type Lead	Amount (sacks) 350	Class Premlite II	Estimated Top (ftKB)
Fluid Description		Fluid Type Tail	Amount (sacks) 550	Class 50:50 POZ	Estimated Top (ftKB)

**Tubing Strings**

Tubing Description					Run Date	Set Depth (ftKB)			
Tubing					5/13/2014	4,940.0			
Item Des	Jts	OD (in)	ID (in)	Wt (lb/ft)	Grade	Len (ft)	Top (ftKB)	Btm (ftKB)	
Tubing	153	2 7/8	2.441	6.50	J-55	4,913.75	10.0	4,923.8	
Pump Seating Nipple		2 7/8				1.10	4,923.8	4,924.9	
On-Off Tool		2 7/8				1.94	4,924.9	4,926.8	
Packer		5 1/2	4.950			7.03	4,926.8	4,933.8	
Cross Over		2 3/8	1.991			0.55	4,933.8	4,934.4	
Tubing Pup Joint		2 3/8				4.15	4,934.4	4,938.5	
XN Nipple		2 3/8				1.10	4,938.5	4,939.6	
Wireline Guide		2 3/8				0.42	4,939.6	4,940.0	

**Rod Strings**

Rod Description				Run Date	Set Depth (ftKB)			
Item Des	Jts	OD (in)	Wt (lb/ft)	Grade	Len (ft)	Top (ftKB)	Btm (ftKB)	

**Perforation Intervals**

Stage#	Zone	Top (ftKB)	Btm (ftKB)	Shot Dens (shots/ft)	Phasing (*)	Norm Hole Dia (in)	Date
2	B & C & D2 SANDS, Original Hole	4,980	5,180	4			8/22/2001
1	CP5 & CP2 & CP1 SANDS, Original Hole	5,804	6,122	4			8/21/2001

**Stimulations & Treatments**

Stage#	ISIP (psi)	Frac Gradient (psi/ft)	Max Rate (bbl/min)	Max PSI (psi)	Total Clean Vol (bbl)	Total Slurry Vol (bbl)	Vol Recov (bbl)
1	1,920	0.81	36.2	2,300			
2	1,850	0.8	30.4	2,150			

**Proppant**

Stage#	Total Prop Vol Pumped (lb)	Total Add Amount
1		Proppant White Sand 98060 lb
2		Proppant White Sand 64540 lb

<b>STATE OF UTAH</b> DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		<b>FORM 9</b>
<b>SUNDRY NOTICES AND REPORTS ON WELLS</b>  Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.		<b>5. LEASE DESIGNATION AND SERIAL NUMBER:</b> UTU-76241
		<b>6. IF INDIAN, ALLOTTEE OR TRIBE NAME:</b>
<b>1. TYPE OF WELL</b> Water Injection Well		<b>7. UNIT or CA AGREEMENT NAME:</b> GMBU (GRRV)
<b>2. NAME OF OPERATOR:</b> NEWFIELD PRODUCTION COMPANY		<b>8. WELL NAME and NUMBER:</b> GBU 14-27-8-17
<b>3. ADDRESS OF OPERATOR:</b> Rt 3 Box 3630 , Myton, UT, 84052		<b>9. API NUMBER:</b> 43013322450000
<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> 0835 FSL 2029 FWL <b>QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:</b> Qtr/Qtr: SESW 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

TYPE OF SUBMISSION	TYPE OF ACTION		
<input type="checkbox"/> NOTICE OF INTENT Approximate date work will start:	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> CASING REPAIR
<input checked="" type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion: 6/13/2014	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> CHANGE WELL NAME
<input type="checkbox"/> SPUD REPORT Date of Spud:	<input checked="" type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input checked="" type="checkbox"/> CONVERT WELL TYPE
<input type="checkbox"/> DRILLING REPORT Report Date:	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> NEW CONSTRUCTION
	<input type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> PLUG BACK
	<input type="checkbox"/> PRODUCTION START OR RESUME	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION
	<input type="checkbox"/> REPERFORATE CURRENT FORMATION	<input type="checkbox"/> SIDETRACK TO REPAIR WELL	<input type="checkbox"/> TEMPORARY ABANDON
	<input type="checkbox"/> TUBING REPAIR	<input type="checkbox"/> VENT OR FLARE	<input type="checkbox"/> WATER DISPOSAL
	<input type="checkbox"/> WATER SHUTOFF	<input type="checkbox"/> SI TA STATUS EXTENSION	<input type="checkbox"/> APD EXTENSION
	<input type="checkbox"/> WILDCAT WELL DETERMINATION	<input type="checkbox"/> OTHER	OTHER: <input type="text"/>

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

The above reference well was put on injection at 10:34 AM on  
06/13/2014. EPA # UT22197-10337

**Accepted by the  
Utah Division of  
Oil, Gas and Mining  
FOR RECORD ONLY**  
June 16, 2014

<b>NAME (PLEASE PRINT)</b> Lucy Chavez-Naupoto	<b>PHONE NUMBER</b> 435 646-4874	<b>TITLE</b> Water Services Technician
<b>SIGNATURE</b> N/A	<b>DATE</b> 6/16/2014	