



February 23, 2001

State of Utah
Department of Natural Resources
Division of Oil, Gas and Mining
ATTN: Lisha Cordova
P.O. Box 145601
Salt Lake City, UT 84114-5801

RE: Applications for Permits to Drill

Dear Lisha:

Please find attached Applications for Permits to Drill (APDs) the following wells:

Greater Boundary Unit #3-27-8-17
Greater Boundary Unit #5-27-8-17
Greater Boundary Unit #12-27-8-17

Please send approved APDs to Brad Mecham at Inland's field office in Pleasant Valley.
Contact me at (970) 481-1202 if you have any questions or require additional information.
Thank you for your assistance with these APDs.

Respectfully,

Jon D. Holst
Permitting Agent
Inland Production Company

RECEIVED

FEB 28 2001

DIVISION OF
OIL, GAS AND MINING

**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 WELL GAS WELL OTHER SINGLE ZONE MULTIPLE ZONE

5. LEASE DESIGNATION AND SERIAL NO.
UTU-76241

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

7. UNIT AGREEMENT NAME
Greater Boundary

8. FARM OR LEASE NAME WELL NO.
#3-27-8-17

9. API WELL NO.

10. FIELD AND POOL OR WILDCAT
 Monument Butte

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

12. County
Duchesne

13. STATE
UT

2. NAME OF OPERATOR
Inland Production Company

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

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.)*
At Surface **NE/NW 2096' FWL & 857' FNL** **4438450N**
At proposed Prod. Zone **555712E**

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

15. DISTANCE FROM PROPOSED* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to Approx. 857' f/lse line	16. NO. OF ACRES IN LEASE 1760	17. NO. OF ACRES ASSIGNED TO THIS WELL 40
--	--	---

18. DISTANCE FROM PROPOSED LOCATION* TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR ON THIS LEASE, FT. Approx. 1320'	19. PROPOSED DEPTH 6500'	20. ROTARY OR CABLE TOOLS Rotary
--	------------------------------------	--

21. ELEVATIONS (Show whether DF, RT, GR, etc.)
5178.4' GR

22. APPROX. DATE WORK WILL START*

23. PROPOSED CASING AND CEMENTING PROGRAM

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

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

Draft Conditions of Approval are attached.

RECEIVED

FEB 28 2001

**DIVISION OF
OIL, GAS AND MINING**

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

24. SIGNED *[Signature]* TITLE **Permitting Agent** DATE 2/23/01

(This space for Federal or State office use)

PERMIT NO. 43-013-32224 APPROVAL **Federal Approval of this Action is Necessary**

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

CONDITIONS OF APPROVAL, IF ANY:

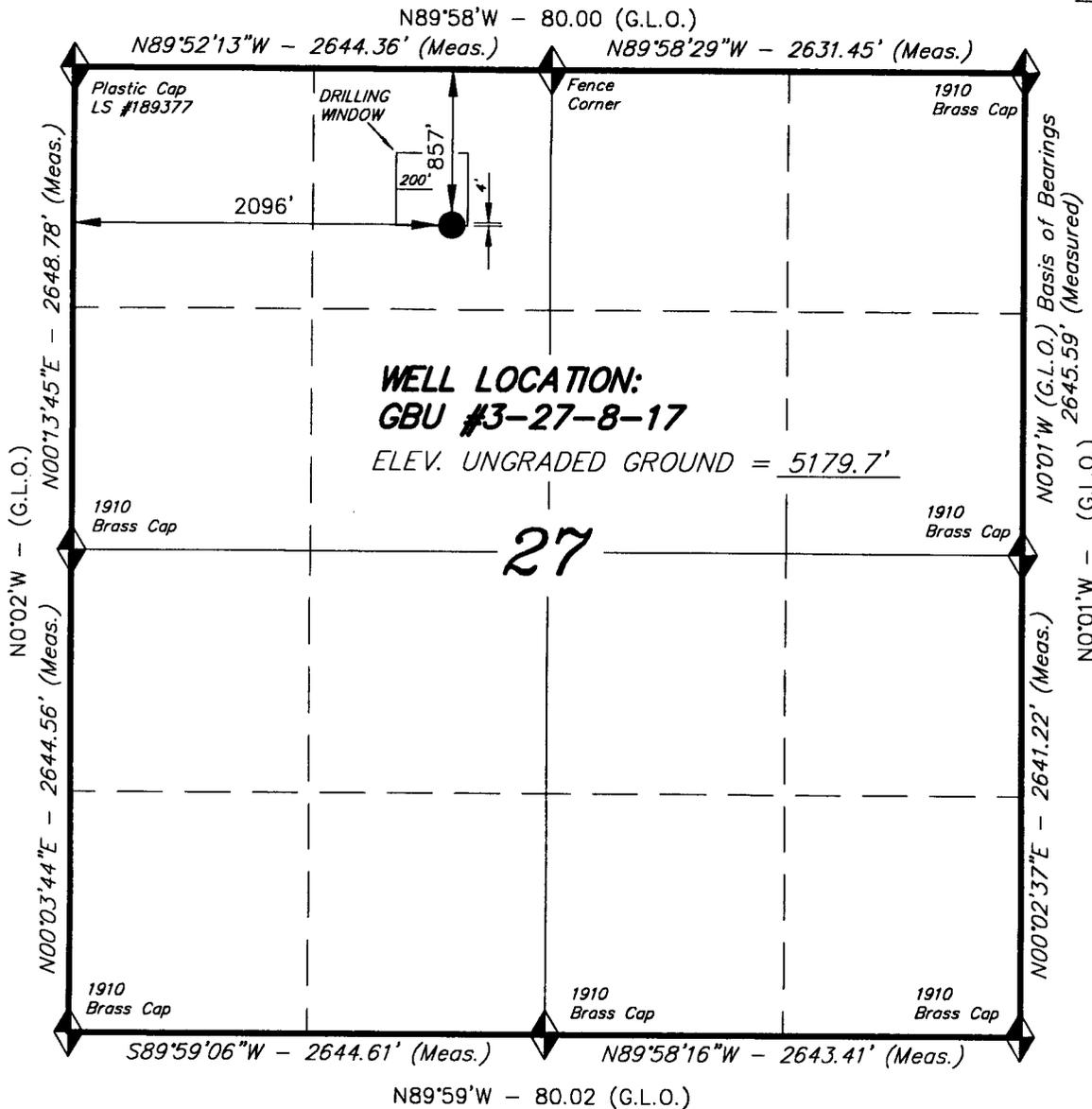
APPROVED BY *[Signature]* TITLE **BRADLEY G. HILL** DATE 03-05-01
RECLAMATION SPECIALIST III

***See Instructions On Reverse Side**

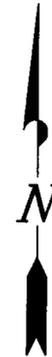
Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

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

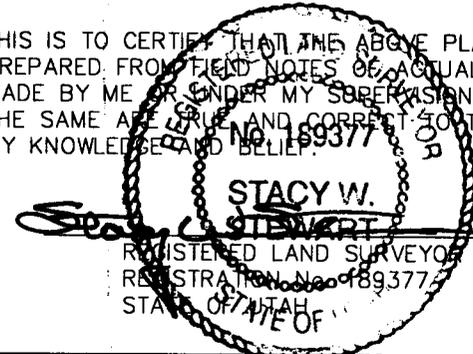
INLAND PRODUCTION COMPANY



WELL LOCATION, GREATER BOUNDARY UNIT #3-27-8-17, LOCATED AS SHOWN IN THE NE 1/4 NW 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.



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

SCALE: 1" = 1000'	SURVEYED BY: C.D.S. R.J.
DATE: 1-4-01	WEATHER: COLD
NOTES:	FILE #

◆ = SECTION CORNERS LOCATED

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

Well No.: 3-27-8-17

CONDITIONS OF APPROVAL
APPLICATION FOR PERMIT TO DRILL

Company/Operator: Inland Production Company

Well Name & Number: Greater Boundary 3-27-8-17

API Number:

Lease Number: UTU-76241

Location: NENW Section 27, T8S R17E

GENERAL

Access well location from the west, following the agricultural fence line south to the existing gas pipeline.

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.*

BURROWING OWL: Due to the proximity of the location to active prairie dog towns, there is the potential to encounter nesting burrowing owls between April 1 and July 15. If new construction or surface disturbing activities are scheduled between April 1 and July 15, pre-construction surveys will be conducted to detect the presence of nesting burrowing owls within 0.5 mile of any new construction or surface

disturbing activity (see Vernal BLM Field Office Protocol). No new construction or surface disturbing activities will be allowed between April 1 and July 15 within a 0.5 mile radius of any active burrowing owl nest.

THREATENED, ENDANGERED, 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.

MOUNTAIN PLOVER: If new construction or surface disturbing activities are scheduled to occur between March 15 and August 15, detailed surveys of the area within 0.5 mile of the proposed location and within 300 feet of proposed access routes must be conducted to detect the presence of mountain plovers. All surveys must be completed prior to initiating new construction or surface disturbing activities (see Survey Protocol COAs 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 #3-27-8-17
NE/NW 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 "F".

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 #3-27-8-17
NE/NW 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 # 3-27-8-17 located in the NE 1/4 NW 1/4 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 – 9.1 miles ± to the beginning of the proposed access road to the east; proceed east and then south 3.5 mile ± along the proposed access road 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 "D".

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 "C".

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 Archaeological and Paleontological Resource Surveys for this area are attached.

Inland Production Company requests a 60' ROW for the Greater Boundary #3-27-8-17 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 #3-27-8-17 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: Jon Holst
Address: 2507 Flintridge Place
Fort Collins, CO 80521
Telephone: (970) 481-1202

Certification

Please be advised that INLAND PRODUCTION COMPANY is considered to be the operator of well #3-27-8-17 NE/NW 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.

2/23/01

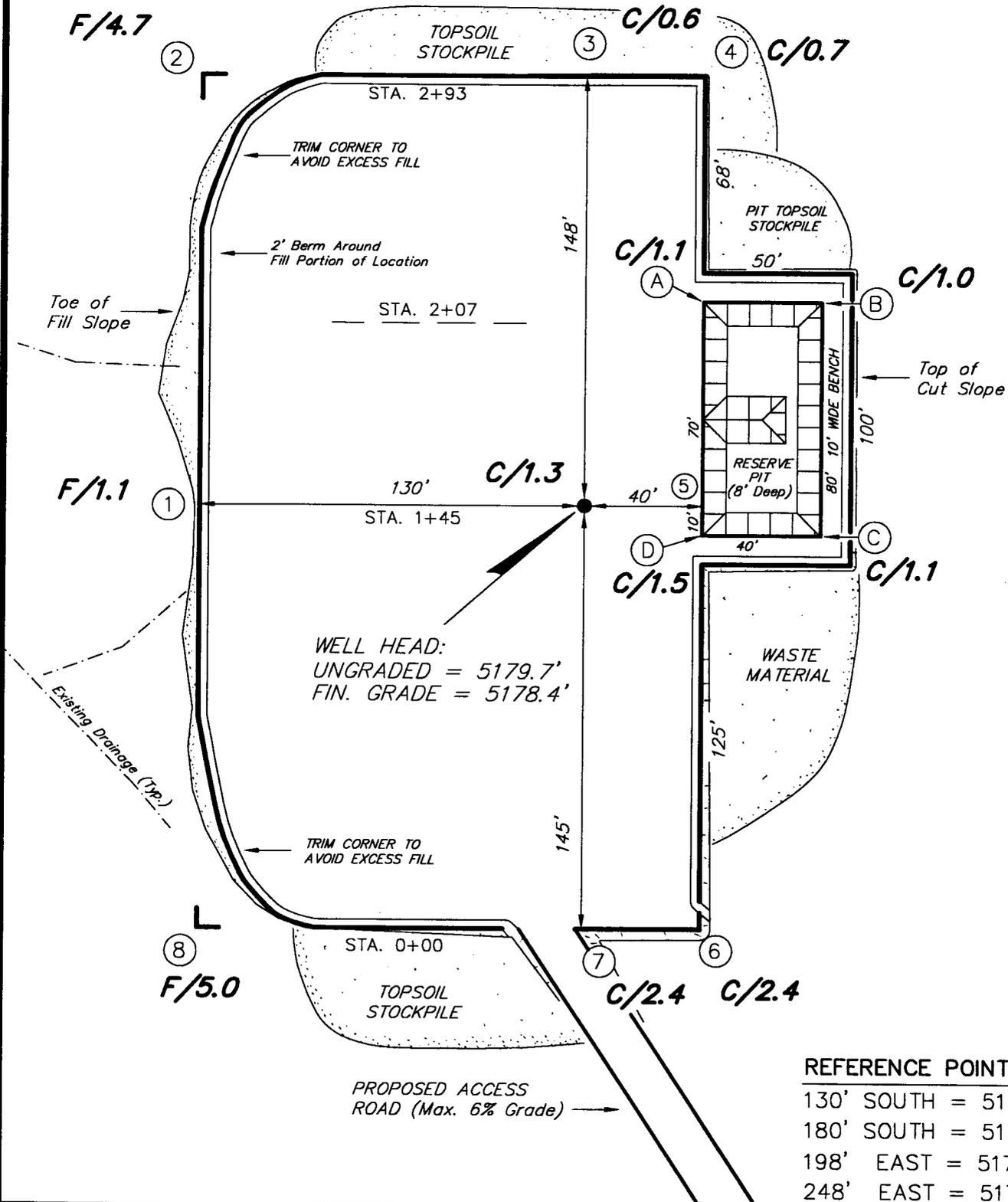
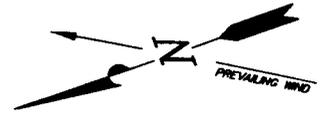
Date



Jon Holst
Permitting Agent

INLAND PRODUCTION COMPANY

GBU #3-27-8-17
SEC. 27, T8S, R17E, S.L.B.&M.



REFERENCE POINTS

- 130' SOUTH = 5179.7'
- 180' SOUTH = 5179.2'
- 198' EAST = 5178.6'
- 248' EAST = 5178.4'

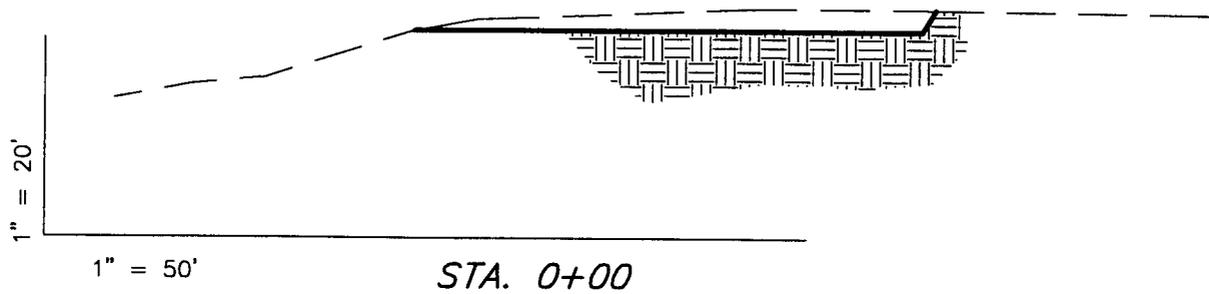
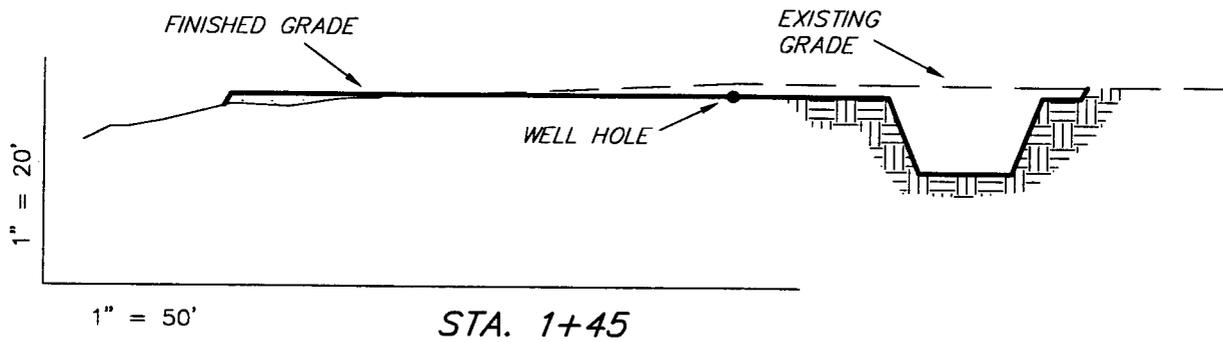
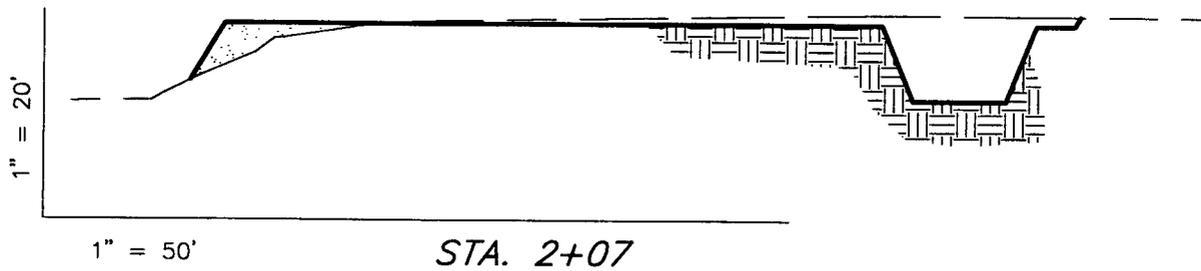
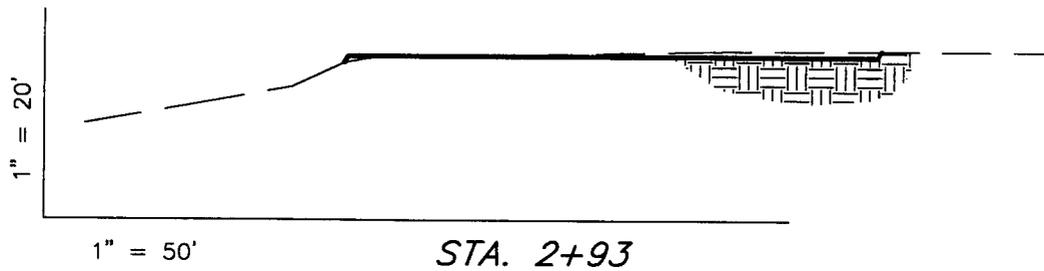
SURVEYED BY: C.D.S.	SCALE: 1" = 50'	<p style="text-align: right; font-size: small;">(435) 781-2501</p>
DRAWN BY: J.R.S.	DATE: 1-4-01	

38 WEST 100 NORTH VERNAL, UTAH 84078

INLAND PRODUCTION COMPANY

CROSS SECTIONS

GBU #3-27-8-17



APPROXIMATE YARDAGES

CUT = 900 Cu. Yds.

FILL = 900 Cu. Yds.

PIT = 640 Cu. Yds.

6" TOPSOIL = 1,020 Cu. Yds.

SURVEYED BY: C.D.S.

SCALE: 1" = 50'

DRAWN BY: J.R.S.

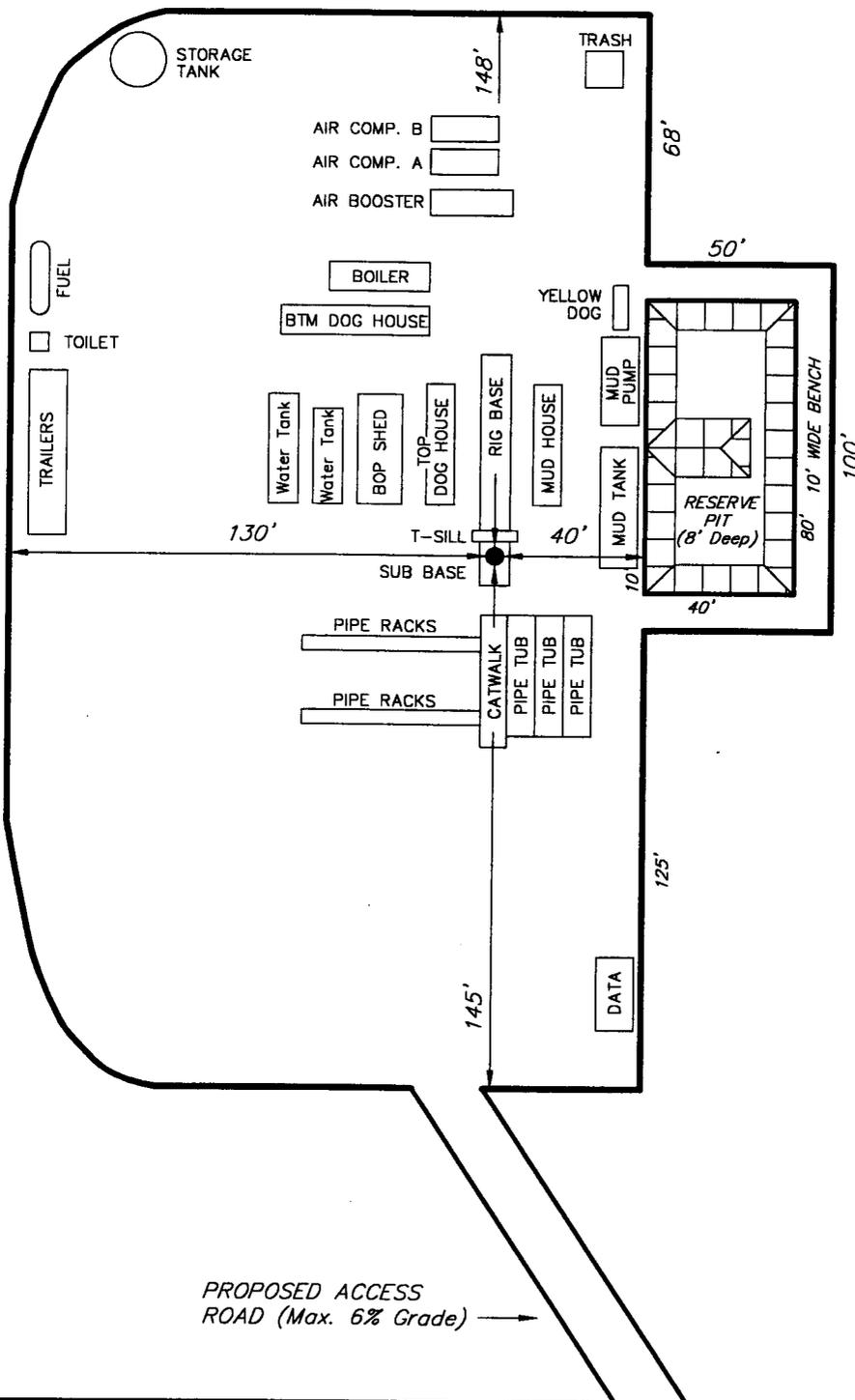
DATE: 1-4-01

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

INLAND PRODUCTION COMPANY

TYPICAL RIG LAYOUT

GBU #3-27-8-17



SURVEYED BY: C.D.S.

SCALE: 1" = 50'

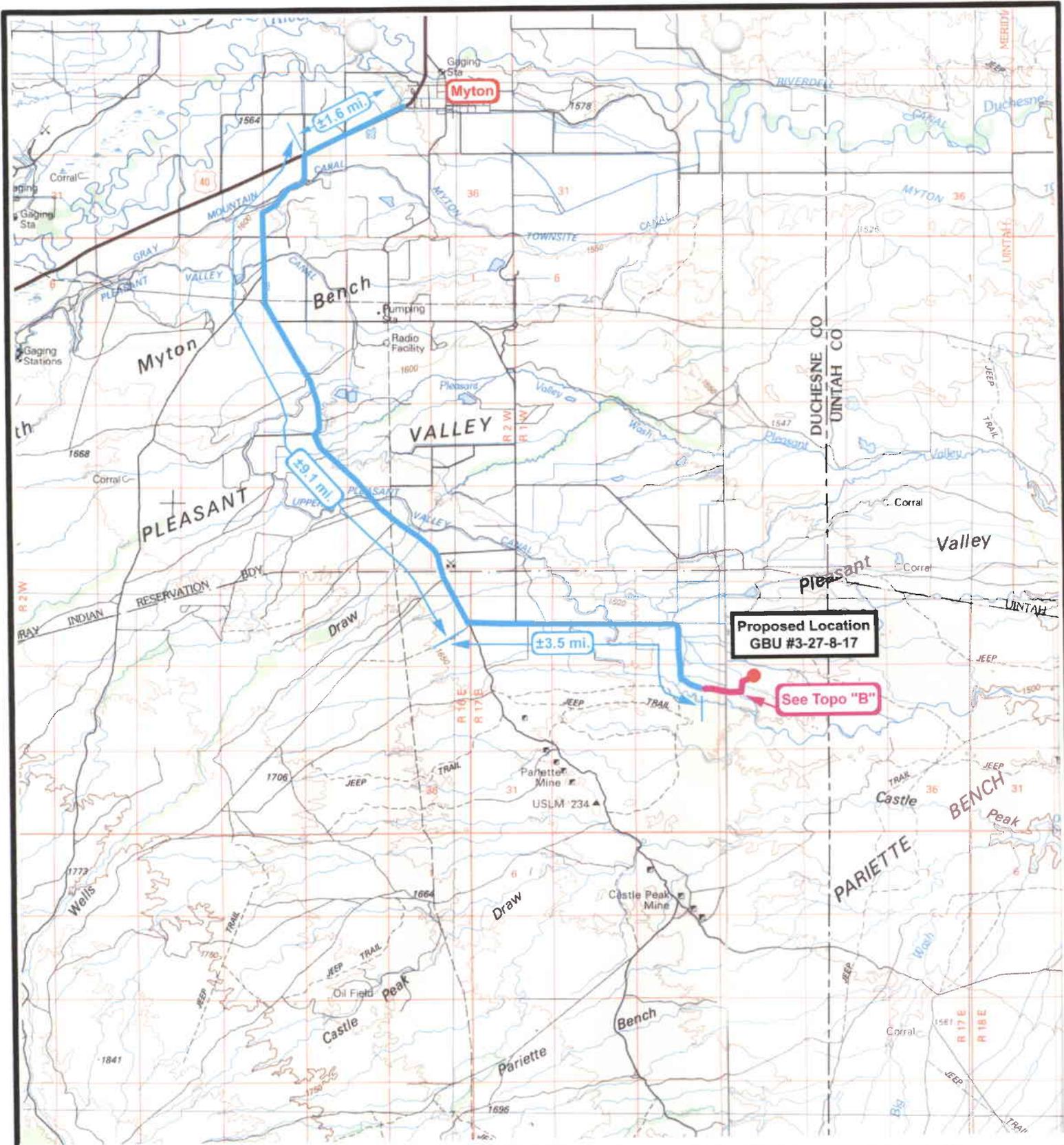
Tri State
Land Surveying, Inc.

(435) 781-2501

DRAWN BY: J.R.S.

DATE: 1-4-01

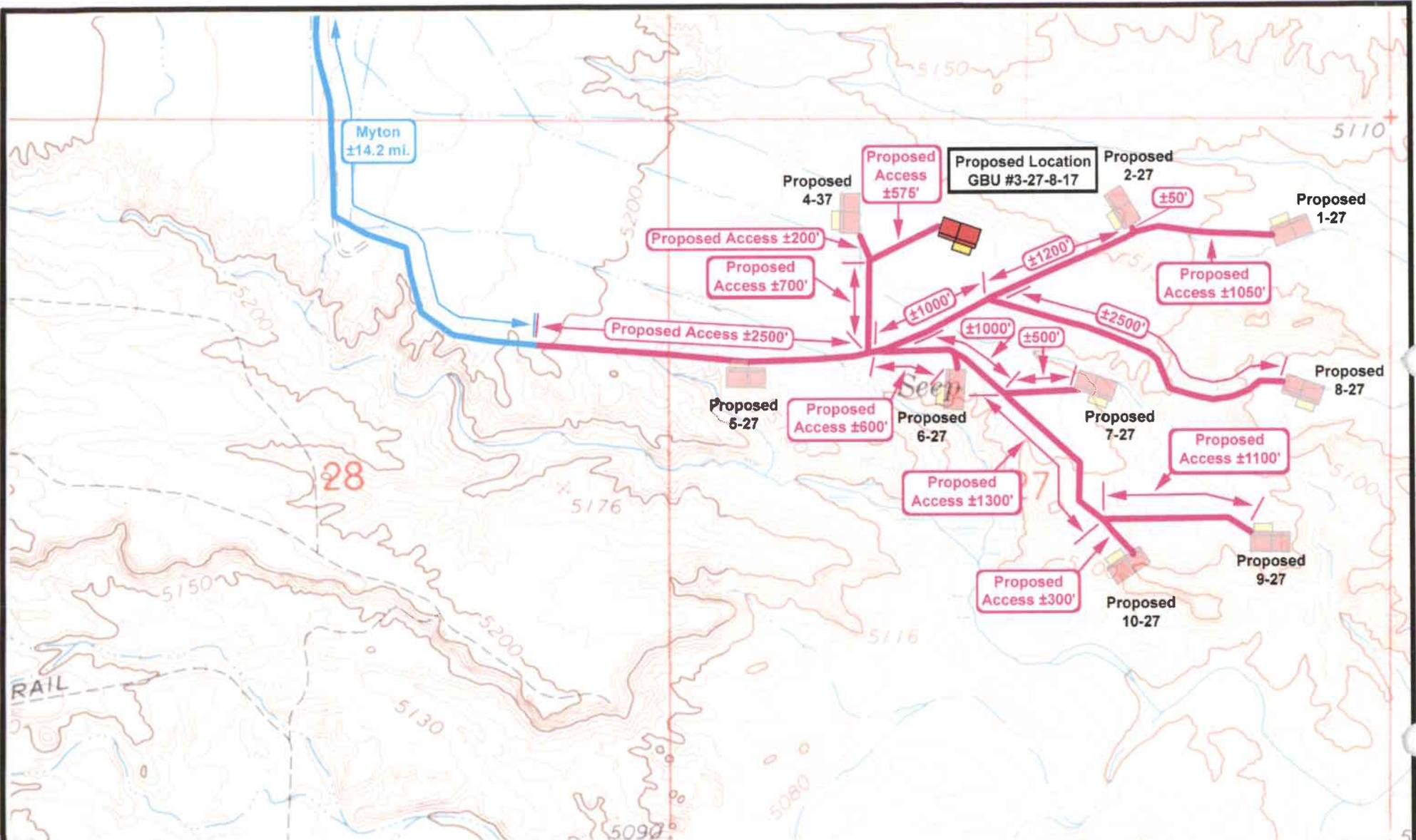
38 WEST 100 NORTH VERNAL, UTAH 84078



GREATER BOUNDARY UNIT #3-27-8-17
SEC. 27, T8S, R17E, S.L.B.&M.
TOPOGRAPHIC MAP "A"



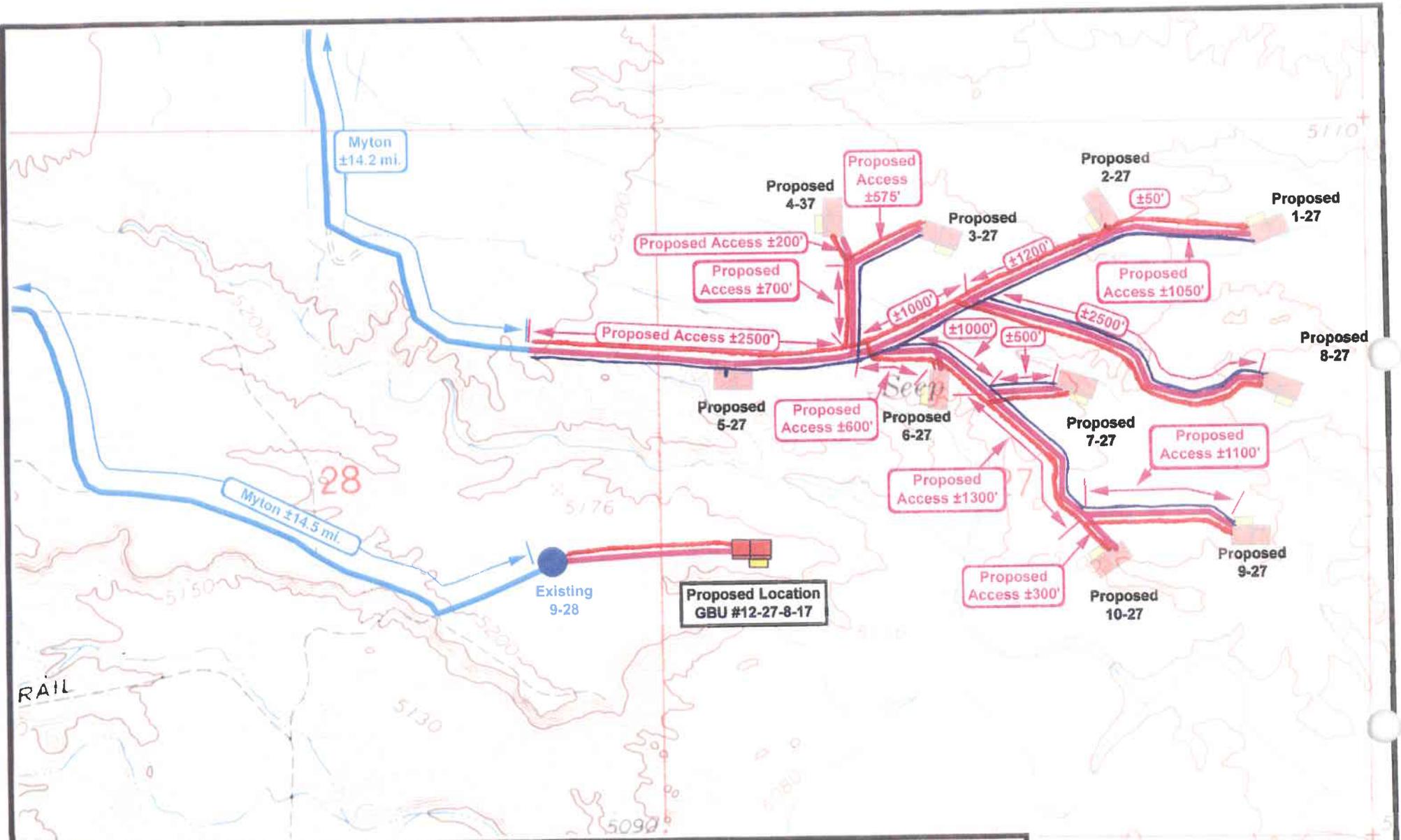
Drawn By: bgm	Revision:
Scale: 1: 100,000	File:
Date: 01-31-2001	
Tri-State Land Surveying Inc. P.O. Box 533, Vernal, UT 84078 435-781-2501 Fax 435-781-2518	



GREATER BOUNDARY #3-27-8-17
SEC. 27, T8S, R17E, S.L.B.&M.
TOPOGRAPHIC MAP "B"



Drawn By: bgm	Revision:
Scale: 1" : 1000'	File:
Date: 01-29-2001	
Tri-State Land Surveying Inc. P.O. Box 533, Vernal, UT 84078 435-781-2501 Fax 435-781-2518	



**Proposed Gas and Water Pipelines
Greater Boundary Unit Section 27, T8S, R17E
Topographic Map "C"**

— = GAS PIPELINE — = WATER PIPELINE

Drawn By: bgm

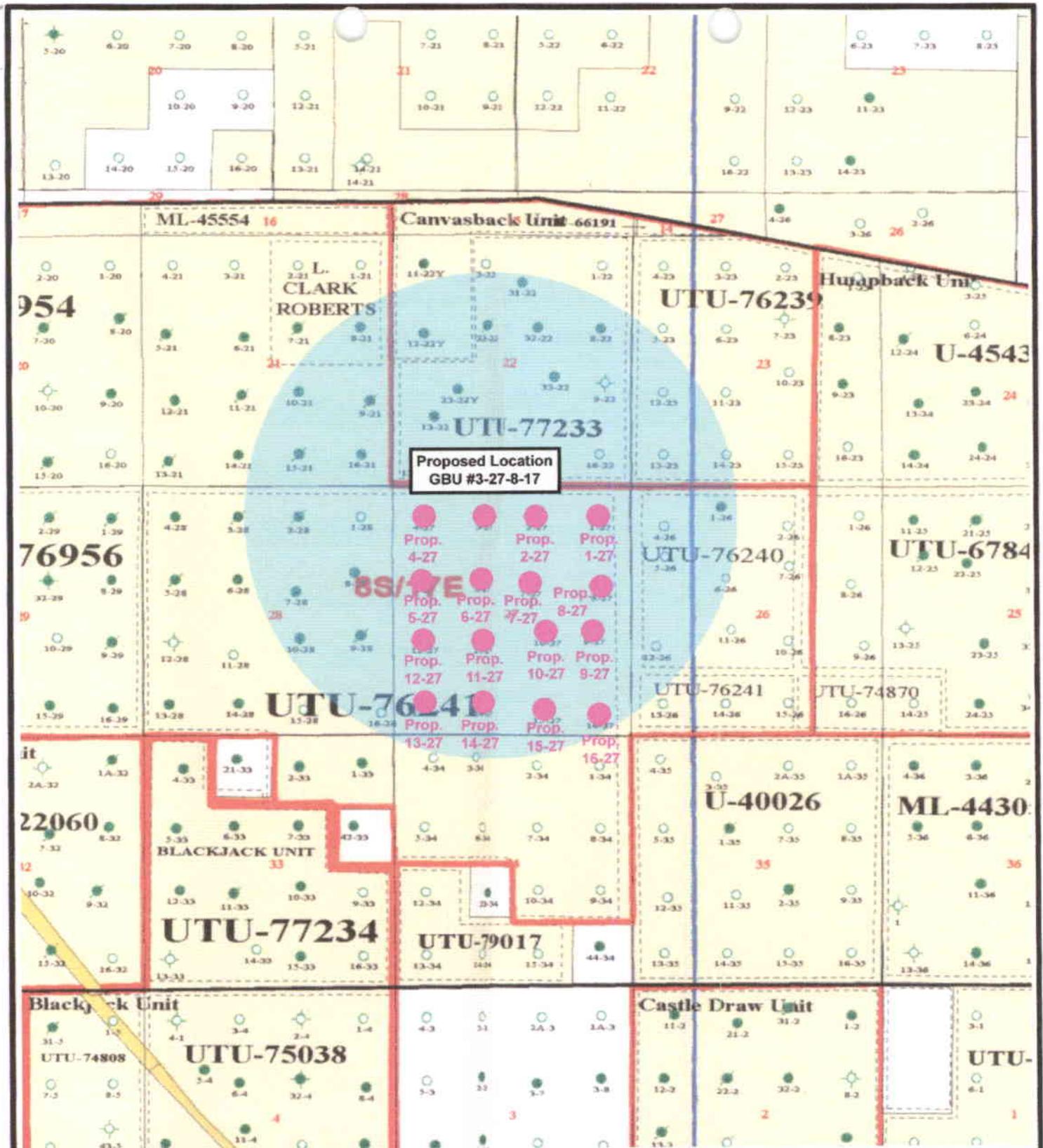
Revision:

Scale: 1" : 1000'

File:

Date: 02-08-2001

**Tri-State Land Surveying Inc.
P.O. Box 533, Vernal, UT 84078
435-781-2501 Fax 435-781-2518**



**Proposed Location
GBU #3-27-8-17**

ML-45554 16

Canvasback Unit 66191

Humpback Unit

UTU-76239

U-4543

UTU-77233

954

L. CLARK ROBERTS

76956

8S/17E

UTU-76240

UTU-6784

UTU-76241

UTU-76241

UTU-74870

22060

BLACKJACK UNIT

U-40026

ML-4430

UTU-77234

UTU-79017

Black Jack Unit

UTU-75038

Castle Draw Unit

UTU-



**GREATER BOUNDARY UNIT #3-27-8-17
SEC. 27, T8S, R17E, S.L.B.&M.**

TOPOGRAPHIC MAP "C"

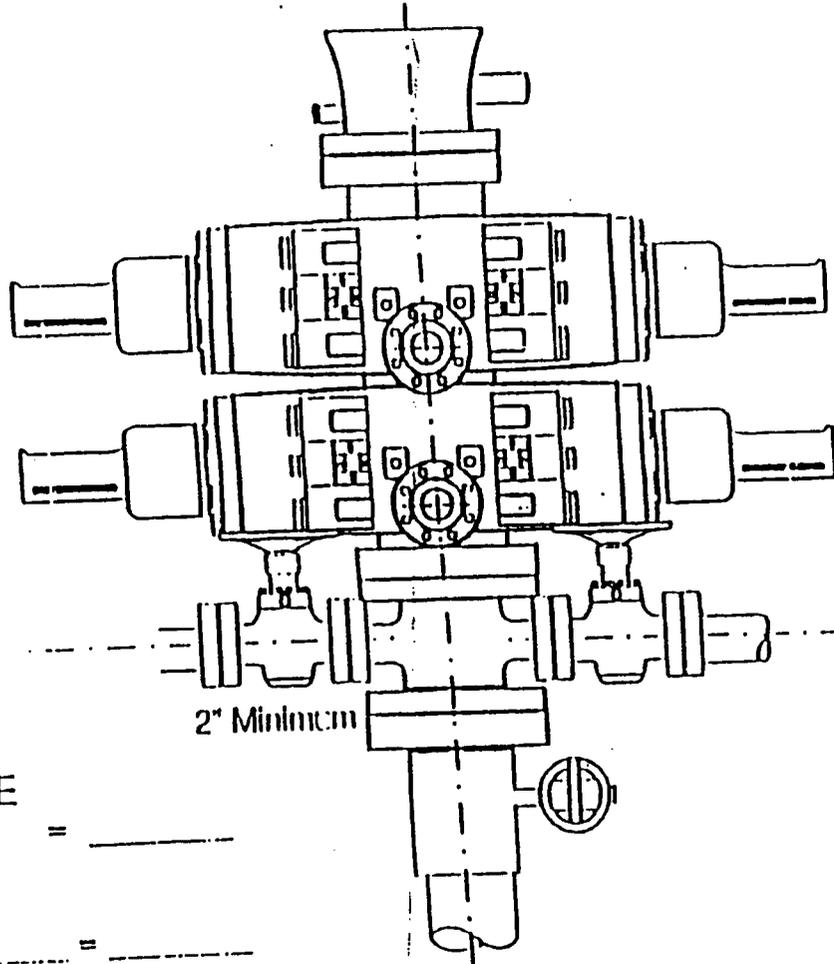


Drawn By: bgm	Revision:
Scale:	File:
Date: 01-04-2001	
Tri-State Land Surveying Inc. P.O. Box 533, Vernal, UT 84078 435-781-2501 Fax 435-781-2518	

EXHIBIT D

B.O.P.

2-M SYSTEM



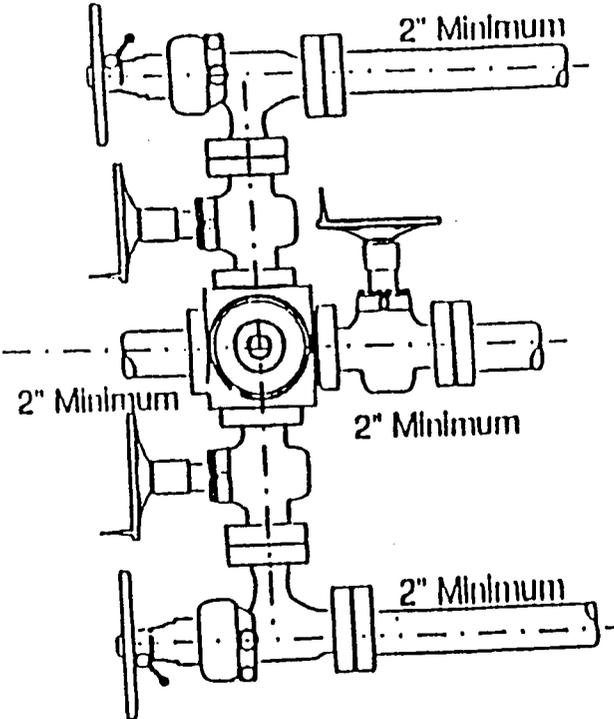
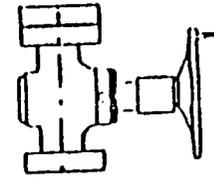
2" Minimum

O CLOSE
ar BOP = _____

ype BOP
rams x _____ = _____

= _____ Gal.

____ x 2 = _____ Total Gal.



2" Minimum

2" Minimum

2" Minimum

2" Minimum

ending off to the next higher
ment of 10 gal. would require
... Gal. (total fluid & nitro volume)

**Miller Consulting
2871 Indian Hills Drive
Provo, Utah 84604
(801) 375-5058
INLAND RESOURCES, INC.**

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

(Section 27, T 8 S, R 17 E; Section 11, T 9 S, R 15 E;
Sections 7&8, T 9 S, R 16 E; Section 27, T 8 S, R 16 E)

REPORT OF SURVEY

Prepared for:

Inland Resources, Inc.

Prepared by:

Wade E. Miller
Consulting Paleontologist
November 6, 2000

Report of Paleontological Survey

INTRODUCTION

Over the past several years, Mr. Jon Holst of Inland Resources, Inc. has fulfilled requirements for Bureau of Land Management (BLM) leased lands by seeing that the proper surveys were conducted before developing new well sites. For approximately the last two and one-half years the needed paleontological surveys were mostly performed by Wade Miller, consulting paleontologist. Reports of the finished paleontological surveys have been sent to Mr. Jon Holst and to Mr. Blaine Phillips of the BLM's Vernal, Utah office.

As per other surveys, topographic maps showing the new areas to be covered were first obtained. These were taken into the field and used in locating the newly proposed drilling areas. Since geologic maps covering the areas surveyed in the past two and one-half years have only shown the Eocene age Uinta Formation and patchy Pleistocene deposits, mostly in arroyos, these were no longer necessary to use. As has been reported earlier, important Pleistocene fossils might occur anywhere these age deposits are exposed. Many have been found in various areas throughout Utah. It was also reported in similar reports to this one that the Eocene Age Uinta Formation includes many very important vertebrate fossils, mostly reptiles and mammals, but also fish and some birds. While the first of these finds were reported many years ago, more are continually coming to light as paleontologists further collect in the formation in eastern Utah. Thanks to Mr. Jon Holst, partially exposed crocodile jaws were reported within the currently considered oil and gas field being operated by Inland Resources, Inc. When the find was reported to me earlier in the year, I arranged to take two paleontology majors from Brigham Young University into the area with me to collect this important fossil. This was successfully done, a skull was also found, and now the specimen is nearly completely prepared.

Paleontological Field Survey

At the end of last month Mr. Jon Holst of Inland Resources, Inc. Denver, Colorado, sent both e-mail messages and facsimiles over a period of a week requesting that Wade Miller perform a paleontological survey on several newly proposed well sites in southeastern Duchesne County, Utah. These pertain to sites in the general area where previous surveys have been performed and reported on. This report covers the paleontological survey just completed. The specific sites that were surveyed include the SW & NE 1/4, NW 1/4, and NW 1/4, SW 1/4, Sec. 27, T 8 S, R 17 E, located on the Pariette Draw SW 7.5' USGS topographic map; the Eastern one-half of Sec. 11, T 9 S, R 15 E; the eastern 1/4 of Sec. 7, and the NW 1/4, SW 1/4 & NE 1/4, NW 1/4, Sec. 8, T 9 S, R 16 E located on the Myton SW 7.5' USGS topographic map; and the NE 1/4, NE 1/4, Sec. 27 & the SW 1/4 & NE 1/4, SW 1/4, and SE 1/4, NW 1/4, Sec. 23, T 8S, R 16 E located on the Myton SE 7.5' USGS topographic map.

Again it is emphasized that in any area where the Uinta Formation is exposed, there is the potential to have important vertebrate fossils present. So, when any land disturbance activity is considered, a paleontological survey should be performed in order to determine what fossils might be present at that particular locality. It is repeated here that Inland Resources should again be commended for adhering to guidelines requiring surveys to be conducted before any drilling or excavating activity is begun. Although few markers were present at the above sites to indicate proposed access roads as well as proposed well pads, the areas were well enough surveyed to determine whether any fossils are present.

All the above sites listed on three separate 7.5' topographic maps were paleontologically surveyed on Saturday, November 4, 2000. In order to adequately accomplish a survey over such a widespread area in one day, it was necessary to have assistance. Two paleontology majors in

the Geology Department at Brigham Young University aided in the present survey under the direct supervision of Wade Miller. Both of these students, Allen Shaw and Stephen Sandau, have done considerable fossil collecting in the past and are knowledgeable in the fields of geology and paleontology. Both in fact assisted me in the removal of the crocodile fossil collected in the area last summer. Not only were the exposed jaws collected, but the entire skull.

The designated quarter, quarter sections in Section 27, T 8 S, R 17 E, have a short, broad arroyo running west to east through much of the area. Extensive exposures of the Uinta Formation occur here. Visible units range from medium to coarse grained, crossbedded channel sandstones to overbank thin, fine grained sandstone to mudstones and shales. The entire suite of sediments is variegated in color. These range from brown to gray to red and green and are sharply demarked. Occasional invertebrate borings of an unidentified animal were seen in some of the finer sandstones. Two partial turtle shells were found *in situ* in the SW 1/4 SW 1/4, NW 1/4, Sec. 27, T 8 S, R 17 E. These were the only fossils observed in the area. Above this arroyo the ground was soil and plant covered; no exposures of the Uinta Formation present.

In the eastern half of Section 11, T 9 S, R 15 E the southern two-thirds mostly consists of soil covered hill slopes with occasional thin exposures of Uinta Formation. The units here are gray siltstones to brown fine to medium grained sandstones. Only sparse worm trails were seen in the siltstones. Toward the north end of the surveyed area, an arroyo runs west to east, with tributary southwest to northeast channels. Brown sandstones in one of these tributaries at the NW 1/4, SW 1/4, NE 1/4 contain fragmented plant stems and leaves. It is probable that this sandstone in nearby areas (outside the present area of consideration) also contains similar plant fossils.

The quarter, quarter sections listed above in Sections 7 and 8, T 9 S, R 16 E were also carefully surveyed. One traverse made was along the bottom of Wells Draw where Pleistocene deposits up to 25 feet thick border it. No traces of fossils were found. Some minor outcrops of Uinta Formation occur along the inside of the draw, but no fossils were seen in them. However, a small

outcropping of this formation exists in the NE corner of the NE 1/4, NE 1/4, Sec. 7. A few very poorly preserved plant fragments were found here. The hills immediately east of Wells Draw within the surveyed area of Section 7 were also inspected. These hills are all comprised of sandstone and shale units within the Uinta Formation. A brown sandstone unit near the base of the hills, probably correlates with the one containing plant debris in Section 11 T 9 S, R 15 E mentioned above. In the SW 1/4, SW 1/4, NW 1/4, Sec. 8, T 9 S, R 16 E, isolated skull bones and scales of a gar pike were found associated with plant fragments. Two leaf imprints were observed that show venation. About one-quarter mile to the northeast (NW 1/4, SW 1/4, NW 1/4, Sec. 8, T 9 S, R 16 E) another fossil plant site was found in the brown sandstone unit as above. On the hill tops and upper slopes, soil/plant cover exists. While a few limited outcrops were observed in this area, no other fossils were seen.

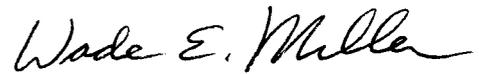
The last area checked in the present survey was the NE 1/4, NE 1/4, Sec. 27, the SW 1/4, SW 1/4, the NE 1/4, SW 1/4 & SE 1/4, NW 1/4, Sec. 23, T 8 S, R 16 E. This entire area is covered with soil and rock rubble, even extending down slopes into Wells Draw. As a result, there were no Uinta Formation outcrops to check.

Results of Survey

As noted above, fossils were found at several widespread localities on three different 7.5' topographic maps. These included partial turtle shells, gar pike bones, worm trails and invertebrate burrow structures as well as plant material. A sample of rocks showing the best plant material, including leaf imprints, and gar pike bones, scales and impressions (molds) thereof, were collected and are presently located at Brigham Young University. These finds were reported to the Utah State Paleontology Office of the Utah Geological Survey in Salt Lake City by phone. Numbers were assigned to the sites (two) where significant fossils were collected. This consists of those above bearing vertebrates (turtles and gar pike). The two accompanying 'Paleontological Attachments' bear these numbers as well as the site descriptions.

Recommended Mitigation

While various types of fossils were found on the survey reported here, only two sites yielded significant fossils. These consist of the two partial turtle shells found in the SW 1/4, SW 1/4, NW 1/4, Sec. 27, T 8 S, R 17 E., and the gar pike bones as well as leaf imprints in the SW 1/4, SW 1/4, NW 1/4 Sec. 8, T 9 S, R 16 E. If any excavation projects are anticipated for these two sites, then a qualified paleontologist should be on hand when work is done. Fossils found at the other sites are not considered significant. But as always, whenever a geological formation that is known to contain fossils is excavated, there is a chance of uncovering important material. If any fossils are noted during excavation or drilling processes, they should be reported to a paleontologist as quickly as possible.

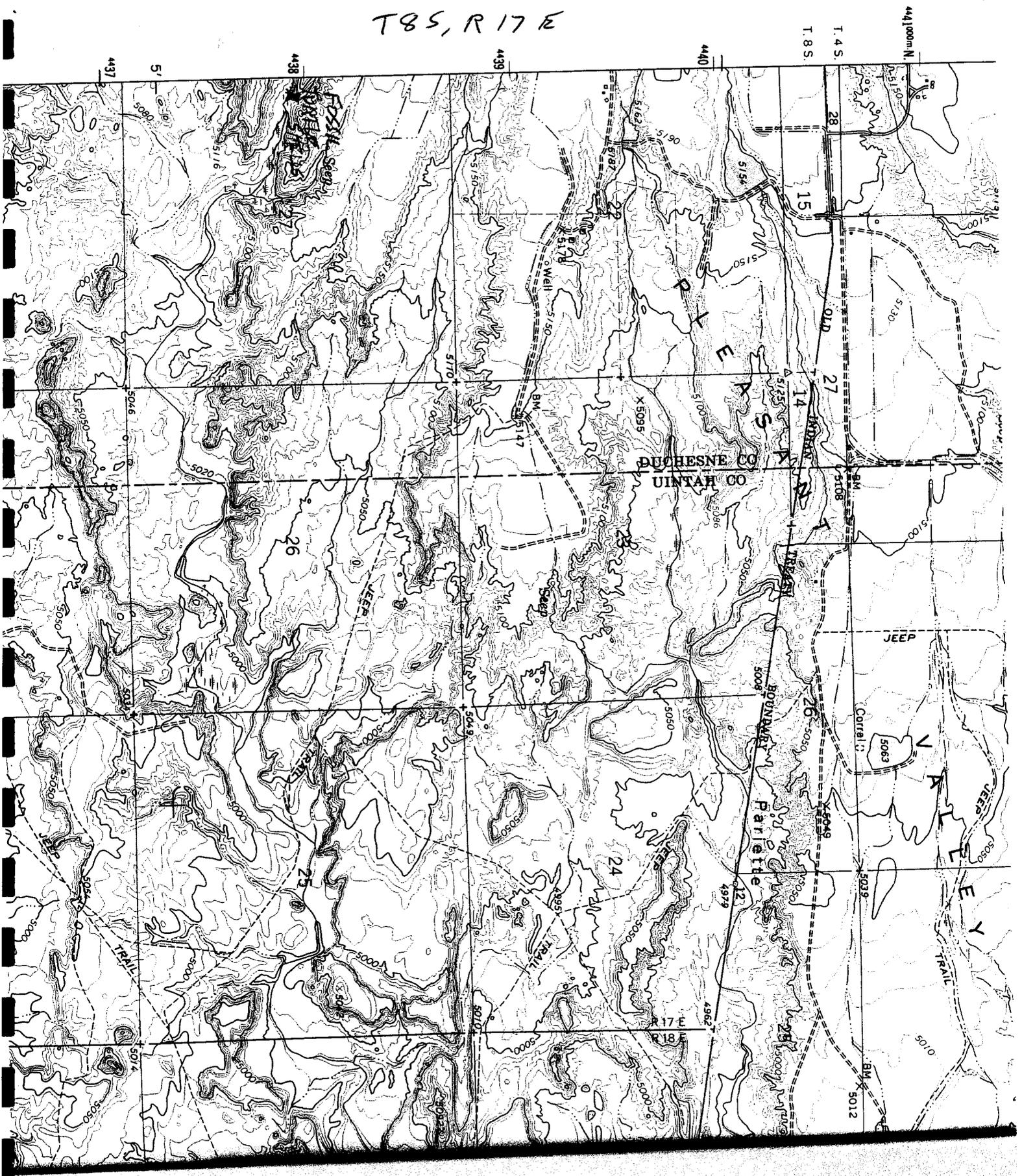


Wade E. Miller

11/6/00

F. RIETTE DRAW SW 4 M. 1964

T8S, R17E



PALEONTOLOGY ATTACHMENT

Locality No(s) 42-DC338

1. Type of Locality: Invertebrate Plant Vertebrate Trace Other

2. Formation/Horizon/Geologic Age: UNTA FM - EOCENE

3. Description of Geology and Topography: INTERBEDDED SANDSTONES AND SHALES ON HILLSLOPE ADJACENT WALLS DRAWS

4. Location of Outcrop: SOUTHEAST DUCHESNE COUNTY SOUTHWEST OF MYTON, UTAH IN OIL & GAS FIELDS OF INLAND PRODUCTION CO.

5. Map Ref.: USGS Quad: MYTON SW 7.5' QUAD Ed.

SW1/4, SW1/4, NW1/4 Sec. 8 T. 9S R. 16E Meridian

6. County DUCHESNE

7. Ownership: Priv. State BLM USFS NPS Ind. Mil. Other

8. Federal Admin.. Unit(s)

9. Specimens Collected and field Accession No. 2 SMALL ROCK SAMPLES WITH BONE & BONE IMPRESSIONS & SCALES; PLANT FRAGMENTS WITH LEAF IMPRESSIONS

10. Repository: BRIGHAM YOUNG UNIVERSITY FOSSIL COLLECTIONS

11. Specimens Observed and Disposition: GAR PIKE SKULL BONES/MOLDS, SCALES/MOLDS; ANGIOSPERM LEAVES

12. Recommendations for Further Work or Mitigation: AREA TO BE PALEONTOLOGICALLY MONITORED IF ANY EXCAVATIONS TAKE PLACE

13. Type of Map Made by Recorder: COPY OF QUAD SECTIONS

14. Published References:

15. Remarks:

16. Sensitivity: Sensitive Non-Sensitive

17. Recorded By: WADE E. MILLER

PALEONTOLOGY ATTACHMENT

Locality No(s) 42-DC-337 V

1. Type of Locality: Invertebrate Plant Vertebrate Trace Other

2. Formation/Horizon/Geologic Age: VINTA FM - EOCENE

3. Description of Geology and Topography: SHORT, BROAD ARROYO EXPOSING SEVERAL VINTA FM. UNITS

4. Location of Outcrop: SOUTHEAST DUCHESNE COUNTY, SOUTHWEST OF MYTOM, UTAH IN OIL & GAS FIELD OF INLANDA PRODUCTION CO.

5. Map Ref.: USGS Quad: PARIETTE DRAW SW Ed. _____

SW 1/4, SW 1/4, NW 1/4 Sec. 27 T. 8S R. 17E Meridian

6. County DUCHESNE

7. Ownership: Priv. State BLM USFS NPS Ind. Mil. Other

8. Federal Admin.. Unit(s) _____

9. Specimens Collected and field Accession No. NONE

10. Repository: _____

11. Specimens Observed and Disposition: TWO PARTIAL TURTLE SHELLS, BROKEN BUT IN SITU

12. Recommendations for Further Work or Mitigation: OBSERVE AREA WHEN OR IF EXCAVATIONS MADE

13. Type of Map Made by Recorder: COPY OF QUAD SECTIONS

14. Published References: _____

15. Remarks: _____

16. Sensitivity: Sensitive Non-Sensitive

17. Recorded By: WADE E. MILLER

**CULTURAL RESOURCE INVENTORY OF INLAND PRODUCTION'S
WELLS DRAW 760 ACRE PARCEL
IN PLEASANT VALLEY, DUCHESNE COUNTY, UTAH**

by

**Keith R. Montgomery
and
Sarah Ball**

Prepared For:

**Bureau of Land Management
Vernal Field Office**

Prepared Under Contract With:

**Inland Production Company
2507 Flintridge Place
Fort Collins CO 80521**

Prepared By:

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

December 12, 2000

MOAC Report No. 00-102

**United States Department of Interior (FLPMA)
Permit No. 00-UT-60122**

**State of Utah Antiquities Project (Survey)
Permit No. U-00-MQ-0731b**

ABSTRACT

In November, 2000, a cultural resource inventory of a 760 acre parcel for well development including access roads and pipelines was performed by Montgomery Archaeological Consultants for Inland Production. The project area is situated in the Pleasant Valley region of the Uintah Basin, in the Wells Draw vicinity and includes four inventory areas; a 40 acre in the NE1/4 of the NE1/4 of Sec. 27, T 8S, R 16E; a forty acre in the SW1/4 of the SW1/4 of Sec. 23, T 8S, R 16E; a 40 acre in the NE1/4 of the SW1/4 of 23, T 8S, R 16E; and a 640 acre in Sec. 27, T 8S, R 17E. A total of 760 acres was inventoried for cultural resources located on public lands administered by the Bureau of Land Management (BLM), Vernal Field Office.

The archaeological survey resulted in the documentation of four historic temporary camps (42Dc1321, 42Dc1322, 42Dc1323, and 42Dc1324), two prehistoric temporary camps (42Dc1325 and 42Dc1355), six prehistoric lithic scatters (42Dc1347, 42Dc1348, 42Dc1349, 42Dc1350, 42Dc1353, and 42Dc1354), one prehistoric lithic and ceramic scatter (42Dc1352), one multi-component site consisting of a prehistoric lithic scatter and historic trash scatter (42Dc1351), and 17 isolated finds of artifacts (IF-A through IF-Q). Five of these sites are recommended as eligible to the NRHP: 42Dc1325, 42Dc1347, 42Dc1348, 42Dc1351, and 42Dc1355. Site 42Dc1325 is a prehistoric temporary camp with a fire cracked rock feature. Sites 42Dc1347 and 42Dc1348 are lithic scatters located in aeolian dunes. Site 42Dc1351 is a lithic scatter and historic trash scatter, also located on aeolian dunes. Site 42Dc1355 is a prehistoric temporary camp with two hearth features. All of these sites are recommended as eligible under criterion (D), due to the potential for buried cultural remains. Additional investigations at the site could provide significant data concerning site function, chronology, subsistence, and material culture.

Four historic sites, 42Dc1321, 42Dc 1322, 42Dc1323 and 42Dc1324 represent temporary range camps having a limited range of cultural materials. Additional investigations at these sites would fail to provide information relevant to historic research domains of the area. The prehistoric sites, 42Dc1349, 42Dc1350, 42Dc1352, 42Dc1353 and 42Dc1354 are recommended as not eligible for NRHP inclusion since they have an absence of additional diagnostic artifacts or features. Further research of these sites would not provide pertinent information to the prehistory of the area. The isolated finds of artifacts are also considered not eligible to the NRHP since they lack additional research potential.

The eligible sites (42Dc1325, 42Dc1347, 42Dc1348, 42Dc1351 and 42Dc1355) need to be avoided by future development within the parcels. Based on adherence to this recommendation, a determination of "no historic properties affected" is recommended for this project pursuant to Section 106, CFR 800.

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INTRODUCTION

In November 2000, a cultural resource inventory was conducted by Montgomery Archaeological Consultants (MOAC) for Inland Production's Wells Draw 760 Acre Parcel in Pleasant Valley, Duchesne County, Utah. The project area is proposed for well development, access roads and pipelines. The survey was implemented at the request of Mr. John Holst, Permitting Agent, Inland Production Company. The project area occurs on land administered by the Bureau of Land Management (BLM), Vernal Field Office.

The objective of the inventory was to locate, document and evaluate any cultural resources within the project area pursuant to a determination of "no effect" to historic properties in accord with Section 106 of 36 CFR 800, the National Historic Preservation Act of 1966 (as amended). Also, the inventory was implemented to attain compliance with a number of federal and state mandates, including the National Environmental and Historic Preservation Act of 1969, the Archaeological and Historic Conservation Act of 1972, the Archaeological Resources Protection Act of 1979 and the American Indian Religious Freedom Act of 1978.

The fieldwork was performed by Keith R. Montgomery, Principal Investigator for Montgomery Archaeological Consultants, aided in the field by Stan Ferris, Jay Willans, and Michael Wolfe. The inventory was conducted under the auspices of U.S.D.I. (FLPMA) Permit No. 00-UT-60122 and State of Utah Antiquities Project (Survey) No. U-00-MQ-0731b.

A file search for previous projects and documented cultural resources was conducted by Keith Montgomery at the BLM Vernal Field Office on October 30, 2000 and at the Utah Division of State History on November 3, 2000. These consultations indicated that no archaeological projects have been conducted in the immediate project area. However, various archaeological projects have been completed nearby. Archeological-Environmental Research Corporation (AERC) completed two surveys for Equitable Resources Energy Company in 1996, in T 9S, R 16E, Sec. 1 and 2, and T 8S, R 17E, Sec. 36, locating no new cultural resources (Hauck 1996a; 1996b). In 1997 AERC conducted an inventory for Inland Production in T 9S, R 17E Sec. 15 and 22, locating no cultural resources (Hauck and Hadden 1997). Sagebrush Consultants performed an inventory in 1997 for Inland Production in T 8S, R 17E, Sec. 28 and 29, documenting six prehistoric sites (42Dc1134 through 42Dc1139) and one historic site (42Dc1140) (Ellis 1997). In 1998 Sagebrush conducted another survey for Inland Production in T 9S, R 17E, Sec 3 and 10, locating two prehistoric sites (42Dc1191 and 42Dc1192), and one historic site (42Dc1190) (Polk 1998). JBR Environmental Consultants completed a survey for Inland Resources in 1998 situated in T 9S, R 17E, Sec. 1, locating no archaeological sites (Crosland and Billat 1998). In 1998 AERC performed an inventory for Inland Resources in several nearby sections, documenting 28 prehistoric sites (42Dc1149, 42Dc1150, 42Dc1155 through 42Dc1166, 42Dc1171, 42Dc1174 through 42Dc1177, 42Un 2532 through 42Un2538, 42Un2552, 42Un2566) (Hauck 1998). In summary, no archaeological sites have been documented in the immediate project area, however, a number of inventories near the project area have been performed, resulting in the documentation of both prehistoric and historic cultural resources.

DESCRIPTION OF PROJECT AREA

Environmental Setting

The project area lies in the Pleasant Valley area of the Uinta Basin, to the south of Myton, Utah. The inventory area consists of a 760 acre parcel, allocated for development of well locations, access roads and pipelines. Three adjoining 40 acre parcels occur to the southeast of Wells Draw, approximately 6.5 miles southwest of Myton, Utah. The legal description for these parcels is T 8S, R 16E, Sections 23 and 27 (Figure 1). A 640 acre parcel lies about 4.5 miles to the east of this, along both sides of a tributary of Pariette Draw. The legal description for this parcel is T 8S, R 17E, Section 27 (Figure 2). Topographically, this area consists of highly dissected sandstone and mudstone rock formations and broad sandy silt ridges (Stokes 1986). The elevation ranges from 5550 to 5020 feet a.s.l. Pariette Draw is a major water source in the area, as is Wells Draw although it is ephemeral. The project area lies within the Upper Sonoran life zone, dominated by a shadscale community intermixed with low sagebrush, snakeweed, prickly pear cactus and a variety of low grasses. A riparian zone exists along the washes, and includes cottonwood, Russian olive, cattail, and tamarisk. Modern disturbances to the landscape include well locations, access roads, pipelines, and livestock grazing.

Cultural Overview

The cultural-chronological sequence represented in the study area includes the Paleoindian, Archaic, Fremont, Protohistoric, and Euro-American stages. The earliest inhabitants of the region are representative of the Paleoindian stage (ca. 12,000-8,000 B.P.). This stage is characterized by the adaptation to terminal Pleistocene environments and by the exploitation of big game fauna. The presence of Paleoindian hunters in the Uinta Basin region is implied by the discovery of Clovis and Folsom fluted points (ca. 12,000 B.P. - 10,000 B.P.), as well as the more recent Plano Complex lanceolate points (ca. 10,000 B.P. - 7,000 B.P.). However, no such artifacts have been recovered in stratigraphic or chronometrically controlled contexts in northeastern Utah.

The Archaic stage (ca. 8,000 B.P. - 1,500 B.P.) is characterized by peoples depending on a foraging subsistence strategy, seasonally exploiting a wide spectrum of plant and animal species in different ecozones. The shift to an Archaic lifeway was marked by the appearance of new projectile point types perhaps reflecting the development of the atlatl in response to a need to pursue smaller and faster game (Holmer 1986). In the Uinta Basin, evidence of widespread Early Archaic exploitation is relatively sparse compared to the subsequent Middle and Late Archaic periods. Early Archaic (ca. 6000-3000 B.C.) sites in the basin include sand dune sites and rockshelters clustered mainly in the lower White River drainage as well as along the Green River in the Browns Park and Flaming Gorge (Spangler 1995:373). Projectile points recovered from Uinta Basin contexts include Pinto Series, Humboldt, Elko Series, Northern Side-notched, Hawken Side-notched, Sudden Side-notched and Rocker Base Side-notched points. Excavated sites in the area with Early Archaic components include Deluge Shelter in Dinosaur National Monument, and open campsites along the Green River and on the Diamond Mountain plateau (Spangler 1995:374). The Middle Archaic period (ca. 3000-500 B.C.) is characterized by improved climatic conditions and increased human populations on the northern Colorado Plateau. Several stratified Middle Archaic sites have been excavated and dozens of sites have been documented in the Uinta Basin. Middle Archaic sites in the area reflect cultural influences from the Plains, although a Great Basin and/or northern Colorado Plateau influence is represented in the continuation of the Elko

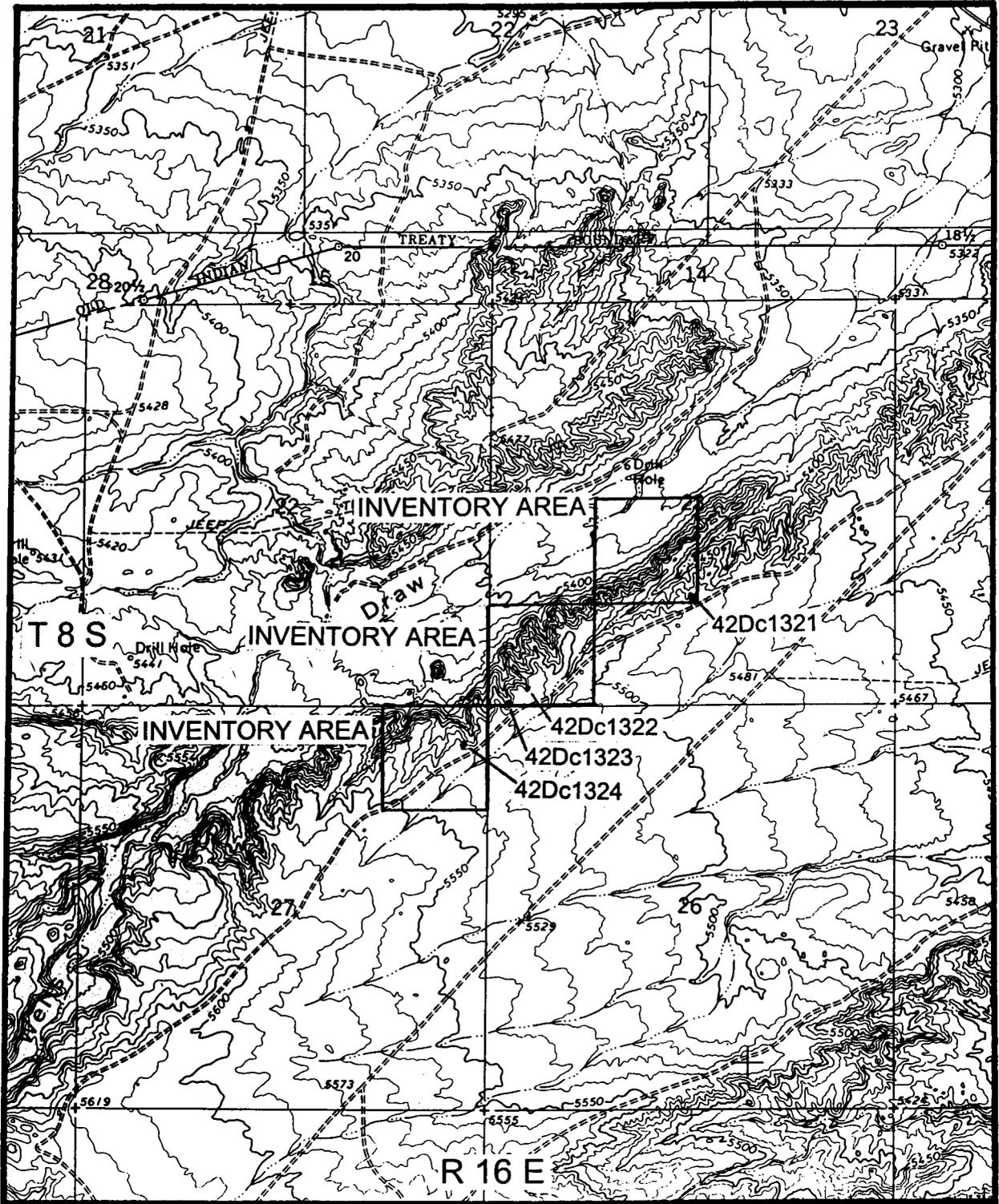


Figure 1. Inventory Area of Inland Production's Wells Draw 760 Acre Parcel in Pleasant Valley with Cultural Resources, Duchesne County, UT. USGS 7.5' Myton SE, UT 1964. Scale 1:24000.

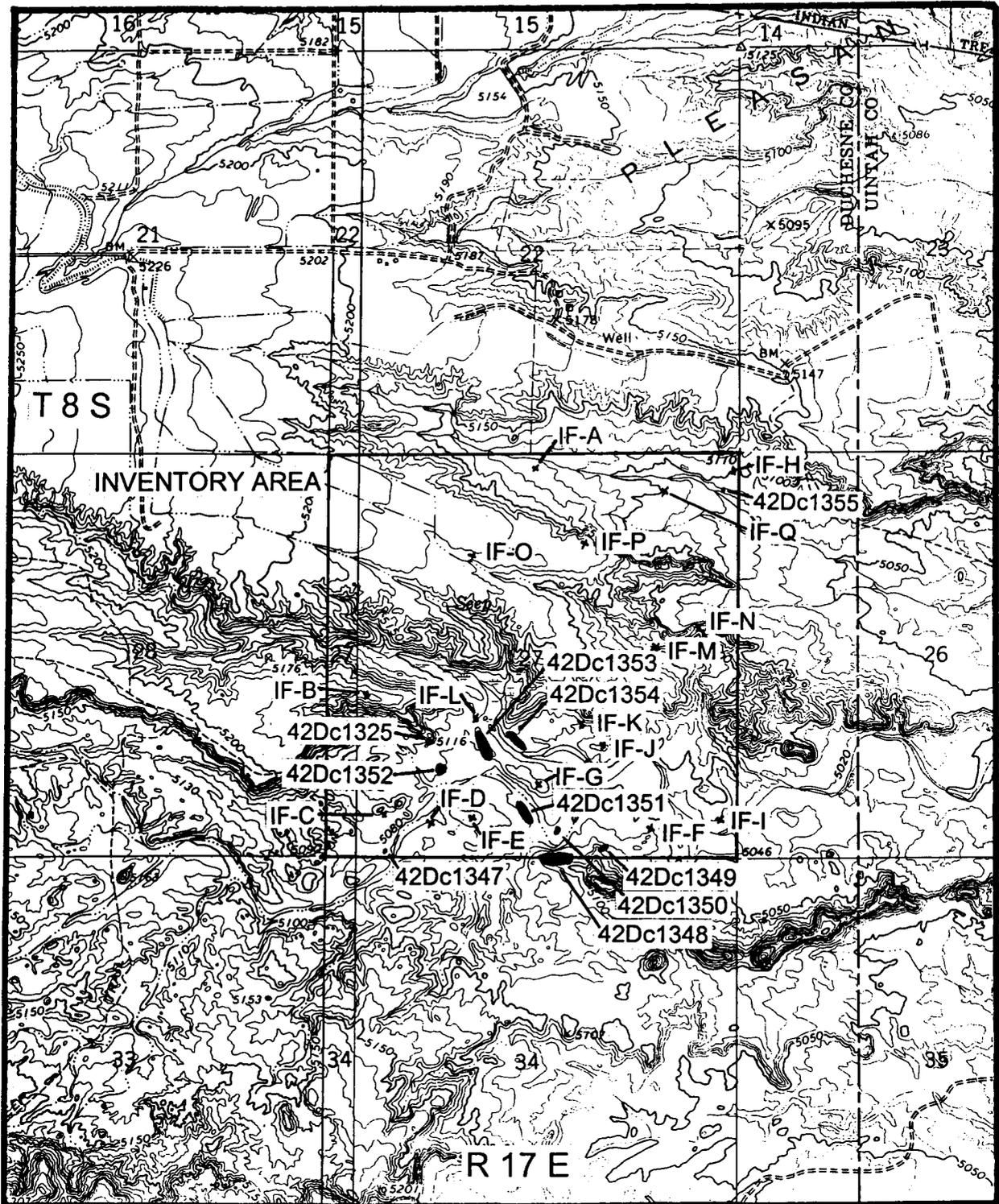


Figure 2. Inventory Area of Inland Production's Wells Draw 760 Acre Parcel in Pleasant Valley with Cultural Resources, Duchesne County, UT. USGS 7.5' Pariette Draw SW, UT 1964. Scale 1:24000.

Series projectile points. Subsistence data from Middle Archaic components indicate gathering and processing of plants as well as faunal exploitation (e.g., mule deer, antelope, bighorn sheep, cottontail rabbit, muskrat, prairie dog, beaver and birds). The Late Archaic period (ca. 500 B.C.-A.D. 550) in the Uinta Basin is distinguished by the continuation of Elko Series atlatl points with the addition of semi-subterranean residential structures at base camps. By about A.D. 100, maize horticulture and Rose Springs arrow points had been added to the Archaic lifeway. In the Uinta Basin, the earliest evidence of Late Archaic architecture occurs at the Cockleburr Wash Site (42Un1476) where a temporary structure, probably a brush shelter, yielded a date of 316 B.C. The structure was probably associated with seasonal procurement of wild floral resources gathered along Cliff Creek (Tucker 1986).

The Formative stage (A.D. 500-1300) is recognized in the area by the Uinta Fremont as first termed by Marwitt (1970). This stage is characterized by reliance upon domesticated corn and squash, increasing sedentism, and in its later periods, substantial habitation structures, pottery, and bow and arrow weapon technology. Based on the evidence from Caldwell Village, Boundary Village, Deluge Shelter, Mantles Cave and others, the temporal range of the Uinta Fremont appears to be from A.D. 650 to 950. This variant is characterized by shallow, saucer-shaped pithouse surface structures with randomly placed postholes and off-center firepits, some of which were adobe-rimmed. Traits considered unique or predominate to the Uinta Basin include calcite-tempered pottery, two-handled wide-mouth vessels, Utah type metates, the use of gilsonite for pottery repair, settlement on tops of buttes and large-shouldered bifaces (Shields 1970).

Archaeological evidence suggests that Numic peoples appeared in east-central Utah at approximately A.D. 1100 or shortly before the disappearance of Formative-stage peoples (Reed 1994). The archaeological remains of Numic-speaking Utes consist primarily of lithic scatters with low quantities of brown ware ceramics, rock art, and occasional wickiups. The brown ware ceramics appear to be the most reliable indicator of cultural affiliation, as Desert Side-notched and Cottonwood Triangular points were manufactured by other cultural groups beside the Ute (Horn, Reed, and Chandler 1994:130). The Ute appear to have been hunter and gatherers exploiting various fauna and flora resources. According to macrobotanical and faunal data from dated components deer, elk, pronghorn, bison, and small game were acquired (Reed 1994:191). Plant materials thought to have been exploited for food include goosefoot, grass seeds, pinyon nuts, juniper berries, squawbush berries and leaves, hackberry seeds and possibly saltbush seeds, knotweed, chokecherry, and chickweed (Ibid 191).

The cultural history of the Eastern Ute, comprising the bands living east of the Green River, has been divided into four phases (Reed 1988). The earliest and most tenuous phase is the Chipeta Phase, dated between ca. 1250 and 1400. Diagnostic artifacts include Desert Side-notched, Cottonwood Triangular, and small corner-notched arrow points and possibly Shoshonean knives. The Canalla phase (ca. A.D. 1400-1650) designates the period between the appearance of well-dated Uncompahgre brown ware ceramics and the adoption of an equestrian lifeway. Diagnostic artifacts include Uncompahgre Brown Ware ceramics, Desert Side-notched and Cottonwood Triangular points, and Shoshonean knives. The pedestrian hunter and gatherers probably lived in wickiups. Near the end of the phase, some groups may have obtained trade items from Spanish settlements in New Mexico (Horn, Reed, and Chandler 1994:131). The Antero phase (ca. A.D. 1650-1881) represents a shift to a fully equestrian lifestyle and integration of Euroamerican trade goods into Ute material culture. The horse permitted hunting of bison on the Plains and led to an increase in the importance of raiding for economic gain (Ibid 131). Euroamerican trade goods became important, and tepees as well as wickiups were inhabited.

The early Utes in Uintah County were Uinta-ats, a small band of a few hundred members (Burton 1996:20). In pre-horse days, Ute family groups lived largely independently of others with key gathering, hunting, and fishing sites being communal and granted to all, within both the local and extralocal Ute communities (ibid 340). According to Smith's (1974) informants both deer and buffalo were important game for the White River Ute band. Before the buffalo became extinct in the Uintah Basin in the 1830s, the Ute would make trips northeast of Fort Bridger in the vicinity of what is now Rock Springs and Green River, Wyoming using the horse to surround and drive the buffalo over a precipice (Callaway, Janetski, and Stewart 1986; Smith 1974). All Ute groups made tripod or conical houses with a three or four-pole foundation and a circular ground plan some 10 to 15 feet in diameter with covering brush or bark.

The first Euro-Americans in the Uinta Basin were Spanish missionaries, traveling between Sante Fe, New Mexico up through western Colorado, towards the Utah Valley, and on to California. In 1776, under the leadership of Fray Francisco Atanasio Dominguez and Fray Silvestre Velez de Escalante, the Spanish commenced to explore a northern route from Santa Fe to the garrison of Monterey on the California coast (Spangler et al. 1995). Euro-American traders were another early factor in the history of the Uinta Basin. Some of these were Spaniards, who continued to visit the region until the Mexican war of independence in 1821, when most Spanish were expelled from the Southwest. It was the beaver trade in the early part of the nineteenth century, that cemented trade with Ute and Shoshone in the area, and resulted in the establishment of trading posts along the major rivers in the area, including the Duchesne, Green, and Uinta (Spangler et al. 1995).

The settlement of the Uinta Basin differs from that of much of Utah in that early settlement in the area occurred around Indian "agencies" assigned to the Uinta and Ouray Reservations, rather than under the direction of the Mormon church (Spangler et al. 1995). These agencies consisted of cabins and a trading post with farms cropping up around the agency, and were directed by a government Indian agent. The first agency was constructed at the mouth of Daniels Canyon in 1864, and was moved several times before 1868. The Mormon church, under Brigham Young consigned survey parties to the Uinta Basin in the early 1860s, determining that the land was not very suitable for cultivation. For this reason, Mormon occupation of the area occurred later than in many parts of the state. By 1876, only a handful of ranchers, had settled the area, to be joined that year by a group of Mormons. They formed a settlement around the ranch of Pardon Dodds, an Indian agent, located in Dry Fork Canyon; later to become known as Old Ashley Town. Another small group of Mormon settlers arrived in 1878, camping near the confluence of Ashley Creek, and naming their settlement Incline. In 1878, additional Mormon settlers ventured into the area; locating near what is today Vernal. With agrarian pursuits being the focus of the majority of the Mormon communities in the region, water became a leading priority. In 1880 the Rock Point Canal and Irrigation Company built a six-mile long canal from the mouth of Ashley Canyon to various homesteads in the region. The Ashley Upper Irrigation Canal was constructed in 1880 with the purpose of yielding water from the Ashley Creek to Bingham Corner. Settlement increased rapidly, and many different water projects were initiated. Most of the canals and reservoirs in the region were built after 1905 by the Uintah Irrigation Project and the Dry Gulch Irrigation Company (ibid 809-12).

SURVEY METHODOLOGY

An intensive pedestrian survey was performed for this project which is considered 100% coverage. The 760 acre parcel was examined for cultural resources by the archaeologists walking parallel transects spaced no more than 10 m apart. Ground visibility was considered good. A total of 760 acres was inventoried on BLM administered land, Vernal Field Office.

Cultural resources were recorded as an archaeological site or isolated find of artifacts. Archaeological sites were defined as spatially definable areas with features and/or ten or more artifacts. Sites were documented by the archaeologists walking transects across the site, spaced no more than 3 m apart, and marking the locations of cultural materials with pinflags. This procedure allowed clear definition of site boundaries and artifact concentrations. At the completion of the surface inspection, a Brunton compass was employed to point-provenience diagnostic artifacts and other relevant features in reference to the site datum, a steel rebar stamped with a temporary site number. Archaeological sites were plotted on a 7.5' USGS quadrangle, photographed, with site data entered on an Intermountain Antiquities Computer System (IMACS, 1990 version) inventory form (Appendix A). Isolated finds are defined as individual artifacts or light scatter of items, which lack sufficient material culture to warrant IMACS forms, or to derive interpretation of human behavior in a cultural and temporal context. All isolated artifacts were plotted on a 7.5' USGS map and are described in this report.

INVENTORY RESULTS

The inventory of Inland Production's 760 acre parcel in Pleasant Valley resulted in the documentation of 14 newly-found archaeological sites (42Dc1321, 42Dc1322, 42Dc1323, 42Dc1324, 42Dc1325, 42Dc1347, 42Dc1348, 42Dc1349, 42Dc1350, 42Dc1351, 42Dc1352, 42Dc1353, 42Dc1354, and 42Dc1355), and 17 isolated finds of artifacts (IF-A through IF-Q).

Archaeological Sites

Smithsonian Site No.: 42Dc1321

Temporary Site No.: 610-3

Legal Description: T 8S, R 16E, Sec. 23

Jurisdiction: BLM, Vernal Field Office

Description: This is a historic temporary camp dating between 1917 and 1945. It consists of a tin can scatter and a concentration of axe-cut wood fragments, possibly representing a firewood pile. The pile measures 4 meters by 2 meters and is located in the western portion of the site. The majority of artifacts are tin cans. These are dominated by hole in top evaporated milk cans. Of these, seven are stamped with "PUNCH HERE" (1935-1945). Eight sanitary cans are observed, including: a cut-around commodity stamped with an oval on the base, a cut-around commodity, a smashed, cut-around commodity with "CANCO" on the base (ca. 1923), a lard bucket, and a pry-lid commodity can. A rectangular pepper can, a key-opened coffee can, a coffee can lid, a piece of 3 1/2" horse tack, some bailing wire, and black rubber shoe sole fragments are also observed. The site occurs in an area of shallow soil and is evaluated as not eligible to the NRHP since it lacks potential for additional functional or temporal information.

Smithsonian Site No.: 42Dc1322
Temporary Site No.: 610-4
Legal Description: T. 8S, R. 16E, Sec. 23
Jurisdiction: BLM, Vernal District Office

Description: This is a historic temporary camp dating between 1910 and 1950. The majority the artifacts are tin cans. These are dominated by five crushed, hole in top evaporated milk cans with two concentric raised rings on top and four hinged lid tobacco tins. Most of the other cans are sanitary and include: a cut-around commodity can lid; a crushed can fragment stamped with "840813" on the base; a crushed, cut-around sanitary can; a tuna or meat can; a pry-lid baking powder tin with a bail handle; and a 3/4" wide strip of a key-opened coffee can lid. One cut-around, hole in cap can is observed. Nine pieces of glass are noted, including: two rim fragments of a clear glass domestic vessel; three pieces of a small purple vessel of undetermined function; and four pieces of a brown patent medicine bottle with a patent finish and a linear design embossed on the shoulder. Also observed are a 2" long cartridge shell stamped with "Peters 25-36", one piece of bailing wire, a chunk of gilsonite, and a modern aluminum ointment tube with a screw lid. Two possible firewood collection piles are observed. Feature 1 (F-1) is a 7 meter x 8 meter concentration of 75+ pieces of axe-cut juniper wood. Feature 2 (F-2) is a smaller (4 meter x 4 meter) sparse concentration of axe-cut juniper fragments. The site is located in an area of shallow soil and is evaluated as not eligible to the NRHP since it lacks potential for additional functional or temporal information.

Smithsonian Site No.: 42Dc1323
Temporary Site No.: 610-5
Legal Description: T 8S, R 16E, Sec. 23
Jurisdiction: BLM, Vernal Field Office

Description: This is a historic temporary camp consisting of a light scatter of glass and tin cans along with a small concentration of axe-cut juniper pieces, possibly a firewood collection pile. Approximately 30 pieces of clear glass are observed, including 10 fragments of a tubular-shaped Alka-Seltzer container, 10 pieces each of two different small screw finish bottles; one with a rectangular base embossed with "DES Pat 35925" and an unidentified trademark, and the other with a round base. The majority of the tin cans are hinged-lid tobacco tins (n=7). Other tin cans include: a crushed, sanitary, cut-around; a crushed, sanitary cut-around stamped with an oval shape on the top; a crushed, sanitary, cut-around fruit can; and a 1 lb. key-opened coffee can. Also observed are: an alarm clock back, a modern toothpaste tube and four pieces of bailing wire. The site is located in an area of shallow soil and lacks features with potential for depth, and hence is evaluated as not eligible to the NRHP since it lacks potential for additional functional or temporal information.

Smithsonian Site No.: 42Dc1324
Temporary Site No.: 610-6
Legal Description: T 8S, R 16E, Sec. 27
Jurisdiction: BLM, Vernal Field Office

Description: This is a historic temporary camp dating between 1908 and 1945, and consists of a tin can scatter, rock alignment, and firewood pile, along with a few other artifacts. The majority of artifacts are tin cans. These are dominated by 14 evaporated milk cans, four of which are stamped with "PUNCH HERE" (1935-1945). Other tin cans include: four crushed, hinged-lid tobacco tins; a crushed Hershey Cocoa tin with a pry-lid; six cut-around sanitary cans of various

sizes; and three galvanized oil or gas cans with screw-lids and spouts, that have had the bottoms cut out. Also observed are: two pieces of clear window glass; six pieces of bailing wire; a piece of black leather with a round-head nail attached; three pieces of a leather boot including nine eyelets and four fast loops; and a center fire cartridge marked with "WRA Co 44 W.C.F" (post 1908). Feature 1 (F-1) is a rock alignment of unknown function, consisting of two sandstone rocks (20"x15" average size), and a sandstone slab (2" thick). A concentration of small, axe-cut pieces of juniper in an area measuring 4 meters x 3 meters is observed, as is a 8 meter x 16 meter area that exhibits an abundance of weeds, and is notably devoid of native plants, and may have been used for grazing.

Smithsonian Site No.: 42Dc1325
Temporary Site No.: 610-7
Legal Description: T 8S, R 17E, Sec. 27
Jurisdiction: BLM, Vernal Field Office

Description: This is a temporary camp located around an outcrop of large boulders (Figures 3 and 4). The site consists of a fire cracked rock concentration and 29 lithic tools . The majority of tools are unprepared chert cores. Other tools include: four hammerstones, one biface, three Stage I bifaces, three manos or mano fragments, and a slab metate. Also observed are approximately 150 pieces of lithic debitage with all reduction stages common. The materials utilized include various kinds of chert along with siltstone and quartzite. Feature 1 is a concentration of fire cracked rock located on the east side of a large boulder. The feature includes approximately 75 fire cracked and oxidized medium grained sandstone rock fragments (up to 25x15x10cm) scattered in an irregular configuration. No charcoal is visible, however a one meter diameter ash stain is apparent. A shallow (30 cm deep) drainage intersects the east margin of the feature. A petroglyph panel, possibly Archaic, is observed on a large boulder in the central portion of the site (Figure 5). The panel includes two solidly pecked figures, an anthropomorph and an elk, and measures 1.2 meters in length by 78 cm in height. A historic inscription occurs on a large boulder, incised with: "V O NEILSON", "1932", "VICK ROSS", "LEON".



Figure 3. 42Dc1325. Site overview. Photo is viewed to the southeast. Roll 610/3:11.

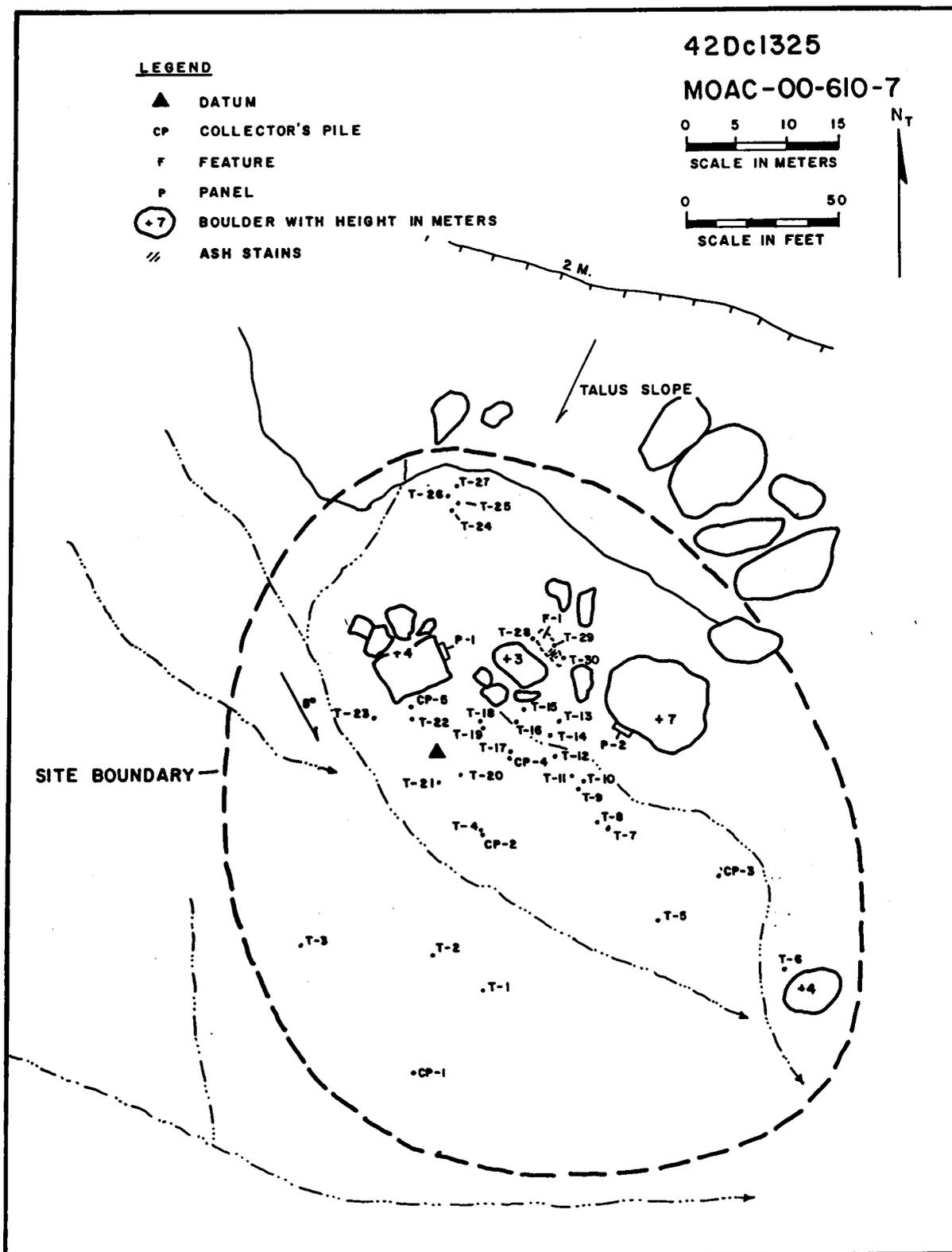


Figure 4. Site Map 42Dc1325.

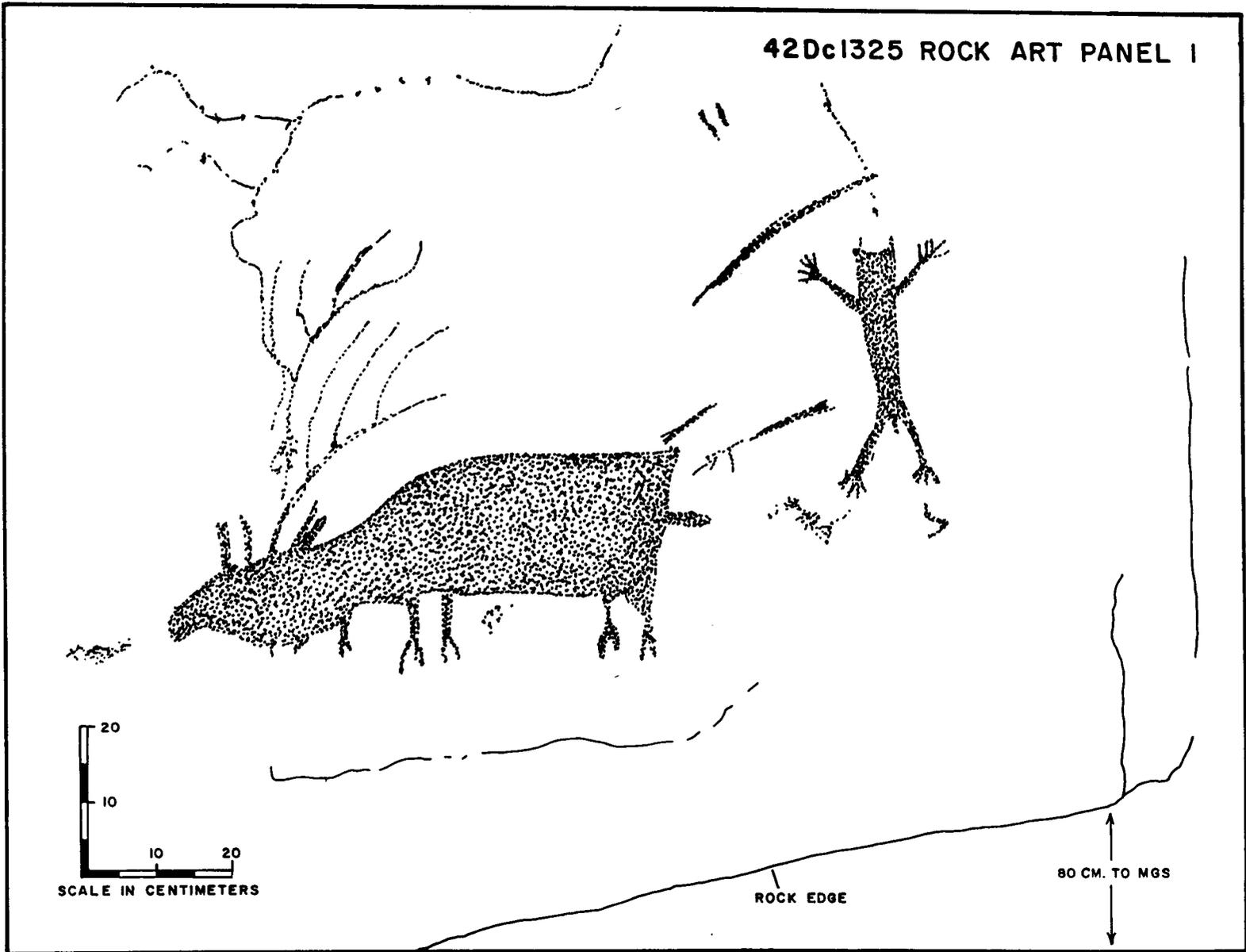


Figure 5. 42Dc1325. Rock Art Panel 1.

Smithsonian Site No.: 42Dc1347
Temporary Site No.: 731-1
Legal Description: T 8S, R 17E, Sec. 27
Jurisdiction: BLM, Vernal Field Office

Description: The site is a lithic scatter of unknown cultural affiliation, located in a valley, within an area of sand dunes (Figures 6 and 7). Artifacts are dominated by secondary reduction stage flakes of various chert materials (n=118). The majority of flakes are located in a concentration towards the central portion of the site, as well as in two collector's piles, one of which contains 10 chert flakes, and the other 20 chert flakes. Several tools are observed, including two Stage II bifaces, a Stage III biface, two unprepared cores, and a single-handed cobble mano. An oxidized sandstone rock is located approximately one meter to the northwest of Tool 4. Due to the location in sand dunes, the site exhibits good potential for buried cultural remains and is recommended as eligible under criterion (D).



Figure 6. 42Dc1347. Site overview. Photo is viewed to the east. Roll 731/1:4.

Smithsonian Site No.: 42Dc1348
Temporary Site No.: 731-2
Legal Description: T 8S, R 17E, Sec. 27
Jurisdiction: BLM, Vernal Field Office

Description: The site is a lithic scatter of unknown cultural affiliation, located in a valley, within an area of sand dunes (Figure 8). Artifacts at the site are dominated by secondary reduction stage flakes of various chert materials, with all other reduction stages represented (n=165). Tools include: five unprepared cores, three scrapers, two choppers, a Stage I and Stage II biface, a single-handed mano, two slab metates, and a ground stone fragment. Due to the location in sand dunes, the site exhibits good potential for buried cultural remains and is recommended as eligible under criterion (D).

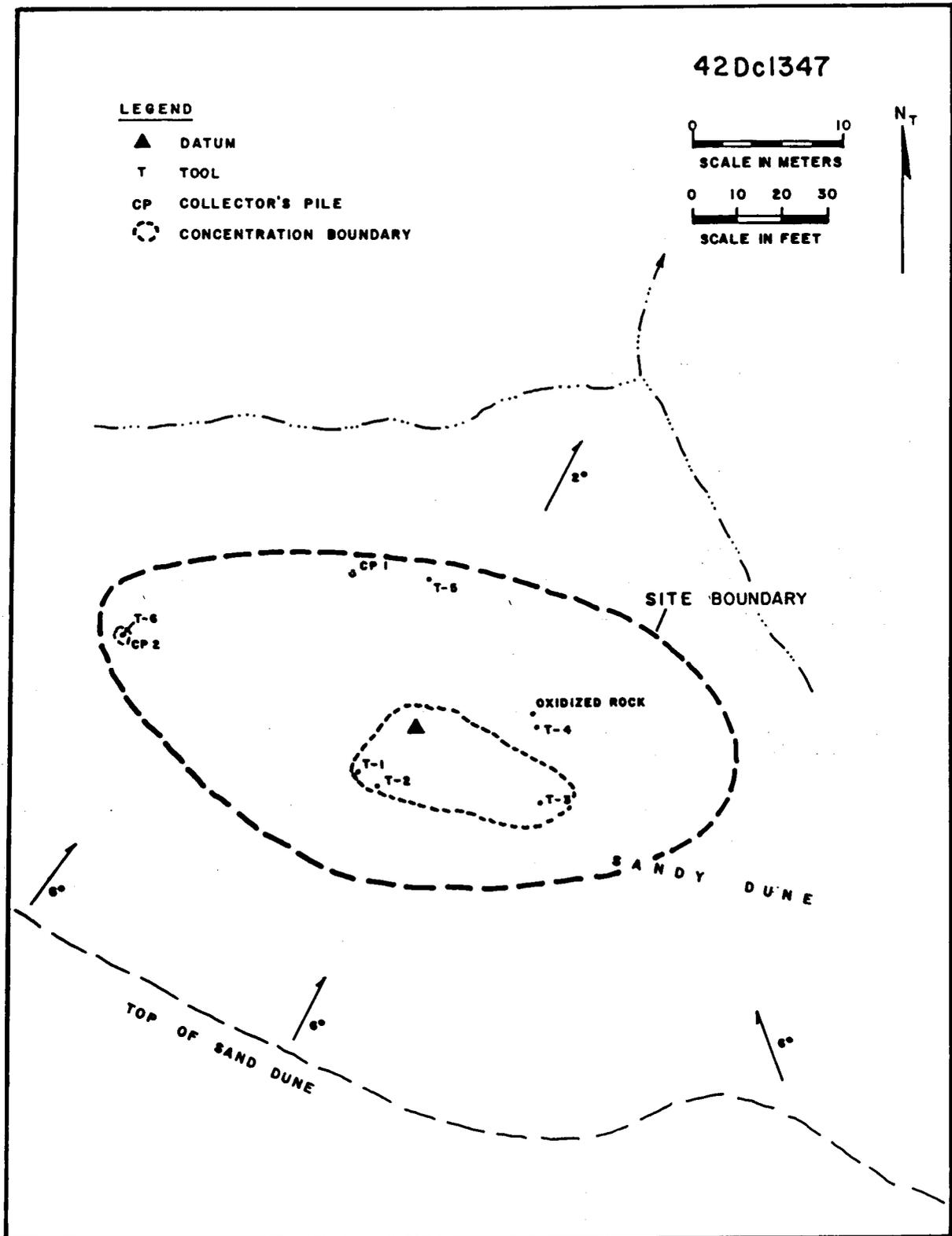
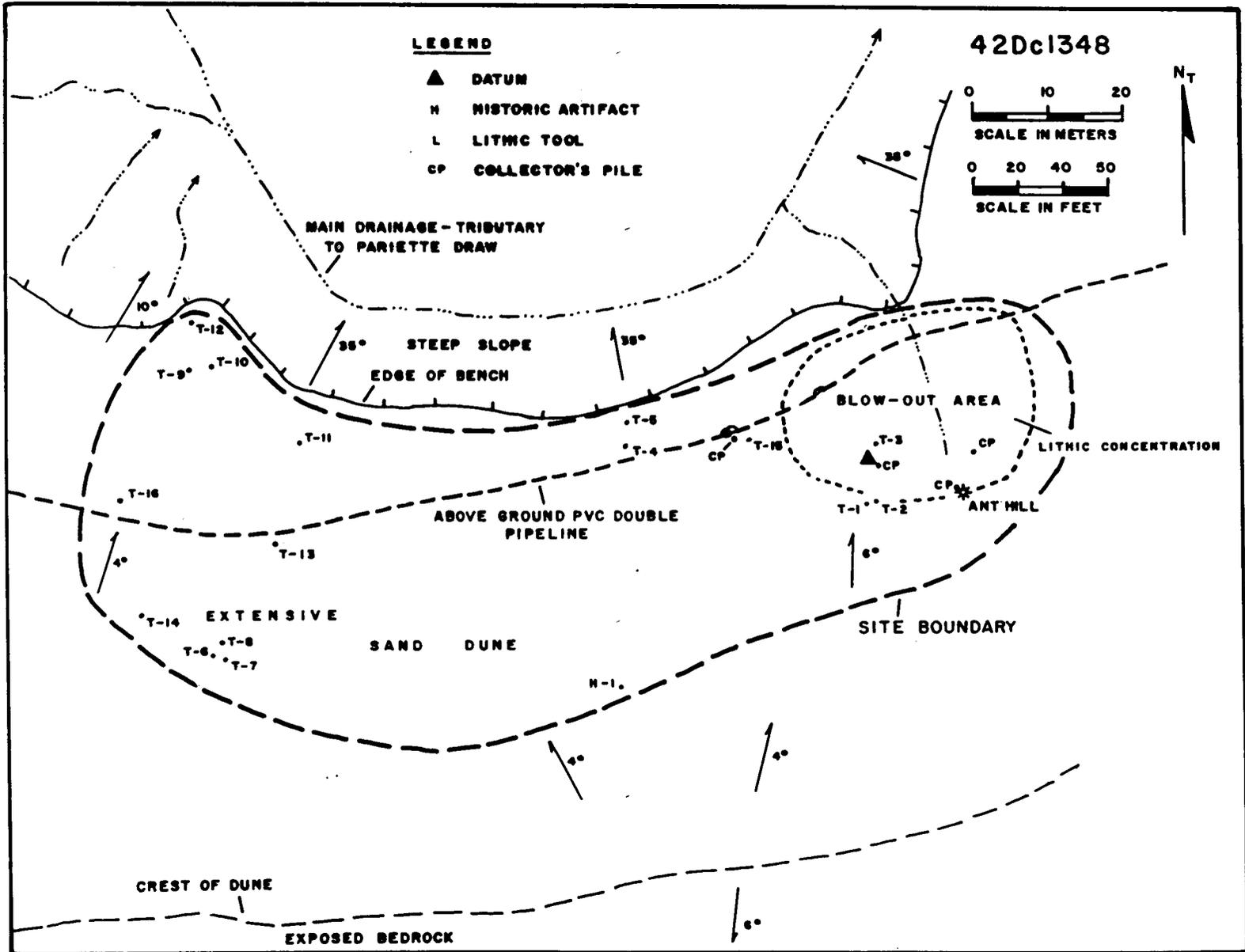


Figure 7. Site map 42Dc1347.

Figure 8. Site map 42Dc1348.



Smithsonian Site No.: 42Dc1349
Temporary Site No.: 731-3
Legal Description: T 8S, R 17E, Sec. 27
Jurisdiction: BLM, Vernal Field Office

Description: The site is a lithic scatter of unknown cultural affiliation, located on a terrace in a valley, in an area of thin residual soils covered with a veneer of small rocks. Artifacts are dominated by secondary reduction stage flakes of various chert materials, with primary flakes also represented (n=48). Tools include: a scraper, a prepared core, an unprepared core, two Stage I biface fragments, and two utilized flakes. Due to its location on thin deposits of soil, and the lack of cultural features which would provide potential for depth of cultural remains, the site is recommended as not eligible to the NRHP.

Smithsonian Site No.: 42Dc1350
Temporary Site No.: 731-4
Legal Description: T 8S, R 17E, Sec. 27
Jurisdiction: BLM, Vernal Field Office

Description: The site is a lithic scatter of unknown cultural affiliation, located on a terrace in a valley, in an area of thin, residual soils covered with a veneer of small rocks. Artifacts are dominated by secondary reduction stage flakes of various chert materials, with primary flakes also represented (n=48). Tools include: a scraper, a prepared core, an unprepared core, two Stage I biface fragments, and two utilized flakes. Due to its location on thin deposits of soil, and the lack of cultural features which would provide potential for depth of cultural remains, the site is recommended as not eligible to the NRHP.

Smithsonian Site No.: 42Dc1351
Temporary Site No.: 731-5
Legal Description: T 8S, R 17E, Sec. 27
Jurisdiction: BLM, Vernal Field Office

Description: This is a multi-component site consisting of a lithic scatter of unknown cultural affiliation and a historic trash scatter, located on a sand dune above an intermittent stream (Figures 9 and 10). Lithic debitage is dominated by secondary reduction stage flakes of various chert materials, with all reduction stages represented (n=27). Tools include an unprepared core, a spent core and a Stage II biface fragment. Feature 1 (F-1) is a concentration of 30+ fire cracked tabular-shaped sandstone rocks (up to 15x10x2cm). It is located in a 1.6 m by 1.0 m area and is eroding from a dune. No ash staining or charcoal is observed. Two sandstone slabs (up to 30x25cm) are located approximately two meters to the northwest of the feature. The historic artifacts are limited to a scatter of tin cans, dominated by five hole in top evaporated milk can fragments, along with one sanitary commodity can. Also observed are a deteriorated wash basin or bucket (H-1) and a large, rusted bucket or drum (H-10). The site exhibits good potential for buried cultural remains and is evaluated as eligible under criterion (D).

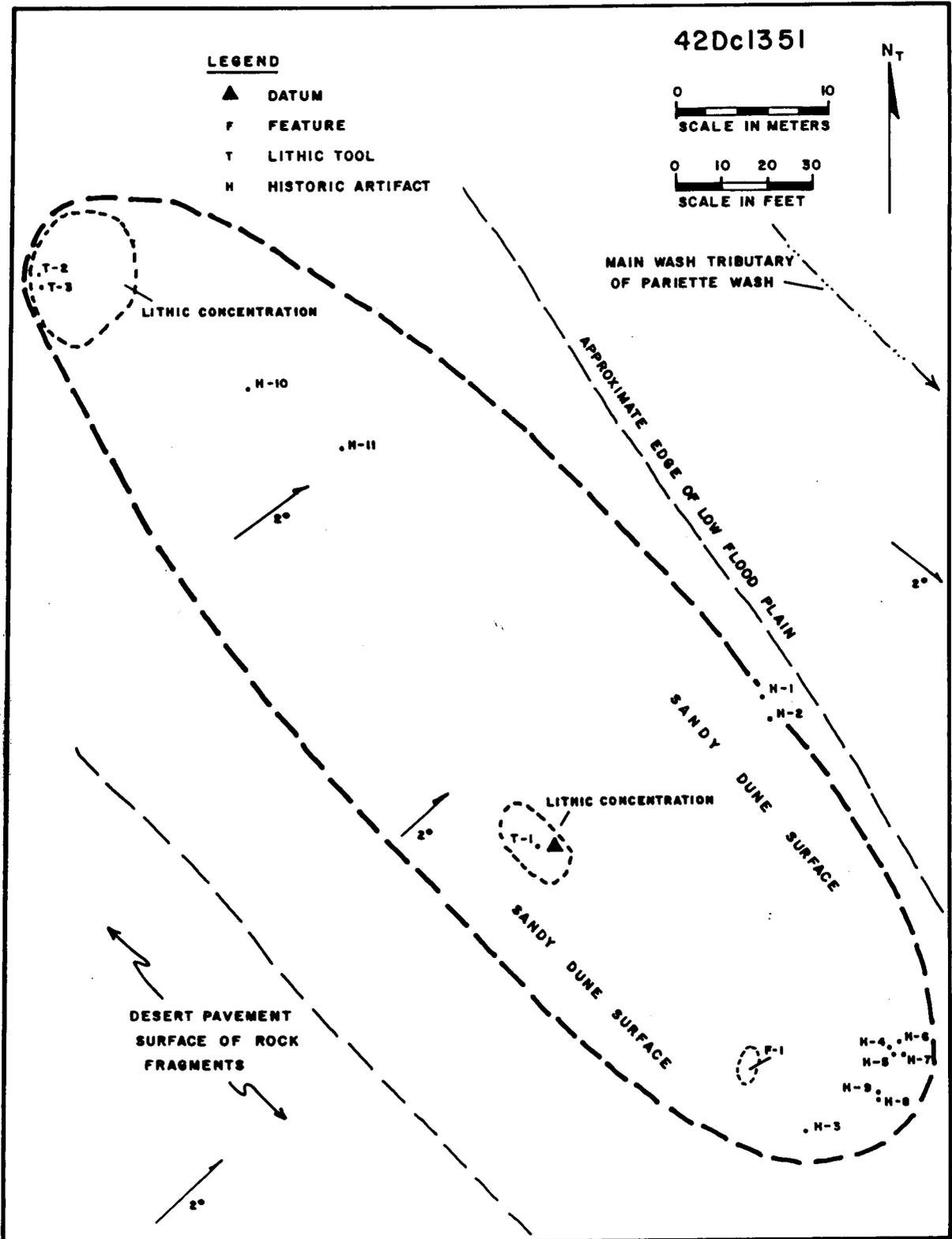


Figure 9. Site map 42Dc1351.



Figure 10. 42Dc1351. Site overview. Photo is viewed to the east. Roll 731/1:6.

Smithsonian Site No.: 42Dc1352
Temporary Site No.: 731-9
Legal Description: T 8S, R 17E, Sec. 27
Jurisdiction: BLM, Vernal Field Office

Description: This is a low density lithic and ceramic scatter situated on a southeast-trending slope of desert pavement near a tributary of Pariette Draw. It consists of 18 flakes of chert and quartzite material, 11 lithic tools, and a single Numic finger-indented brownware body sherd. The debitage includes 10 primary reduction stage flakes, and several secondary reduction stage flakes. Lithic tools consist of two scrapers, a single-handed mano fragment, and eight cores. The site is situated on desert pavement and shows little potential for buried cultural remains. It does not meet any of the eligibility criteria for inclusion to the NRHP, and the research potential has been exhausted by this documentation.

Smithsonian Site No.: 42Dc1353
Temporary Site No.: 731-6
Legal Description: T 8S, R 17E, Sec. 27
Jurisdiction: BLM, Vernal Field Office

Description: The site is a lithic scatter of unknown cultural affiliation, located on a bench above a tributary of Pariette Draw. Lithic debitage includes a nearly equal amount of secondary and primary reduction stage flakes of various chert materials (n=23). Tools include: six scrapers, four unprepared cores, four test cores, three choppers, three Stage I bifaces, one Stage III biface, one single-handed mano, and one hammerstone. Due to its location on thin deposits of soil, and the lack of cultural features which would provide potential for depth of cultural remains, the site is recommended as not eligible to the NRHP.

Smithsonian Site No.: 42Dc1354
Temporary Site No.: 731-7
Legal Description: T 8S, R 17E, Sec. 27
Jurisdiction: BLM, Vernal Field Office

Description: The site is a low density lithic scatter of unknown cultural affiliation, located on a bench above a tributary of Pariette Draw. Lithic debitage is dominated by secondary reduction flakes of tan opaque chert and tan and brown opaque chert, with primary flakes also represented. One rose-colored quartzite primary flake is also noted. A high percentage of cobble cores occur on the site including: four unprepared cores, three test cores, and three prepared cores. Also documented are three choppers and a Stage I biface. Due to its location on thin deposits of soil, and the lack of cultural features which would provide potential for depth of cultural remains, the site is recommended as not eligible to the NRHP.

Smithsonian Site No.: 42Dc1355
Temporary Site No.: 731-8
Legal Description: T 8S, R 17E, Sec. 27
Jurisdiction: BLM, Vernal Field Office

Description: This is a temporary camp of unknown cultural affiliation situated on a southeast-facing bench near an unnamed stream (Figures 11 and 12). The site consists of a sparse, low density lithic scatter (10 flakes), five lithic tools, and two hearth features. The debitage is manufactured from chert and quartzite, and is dominated by primary reduction flakes. Lithic tools include two hammerstones and three cores. Feature 1 is a concentration of oxidized quartzite and sandstone cobble rocks (n=37), ranging in size from 7 to 17 cm diameter. The feature measures 1.0 by 4.5 m, and no ash or charcoal-stained soils are observed. Feature 2 is a scatter of oxidized quartzite rock fragments and cobbles (n=40), ranging in size from 5 to 15 cm diameter. The feature measures 3 m in diameter and no ash or charcoal-stained soils are observed. The thermal features lie on colluvial soils with potential for buried cultural materials. Thus, the site is evaluated as eligible for inclusion to the NRHP under criterion D, since it could yield additional information relevant to the prehistory of the area.



Figure 11. 42Dc1355. Site overview. Photo is viewed to the northeast. Roll 731/2:9.

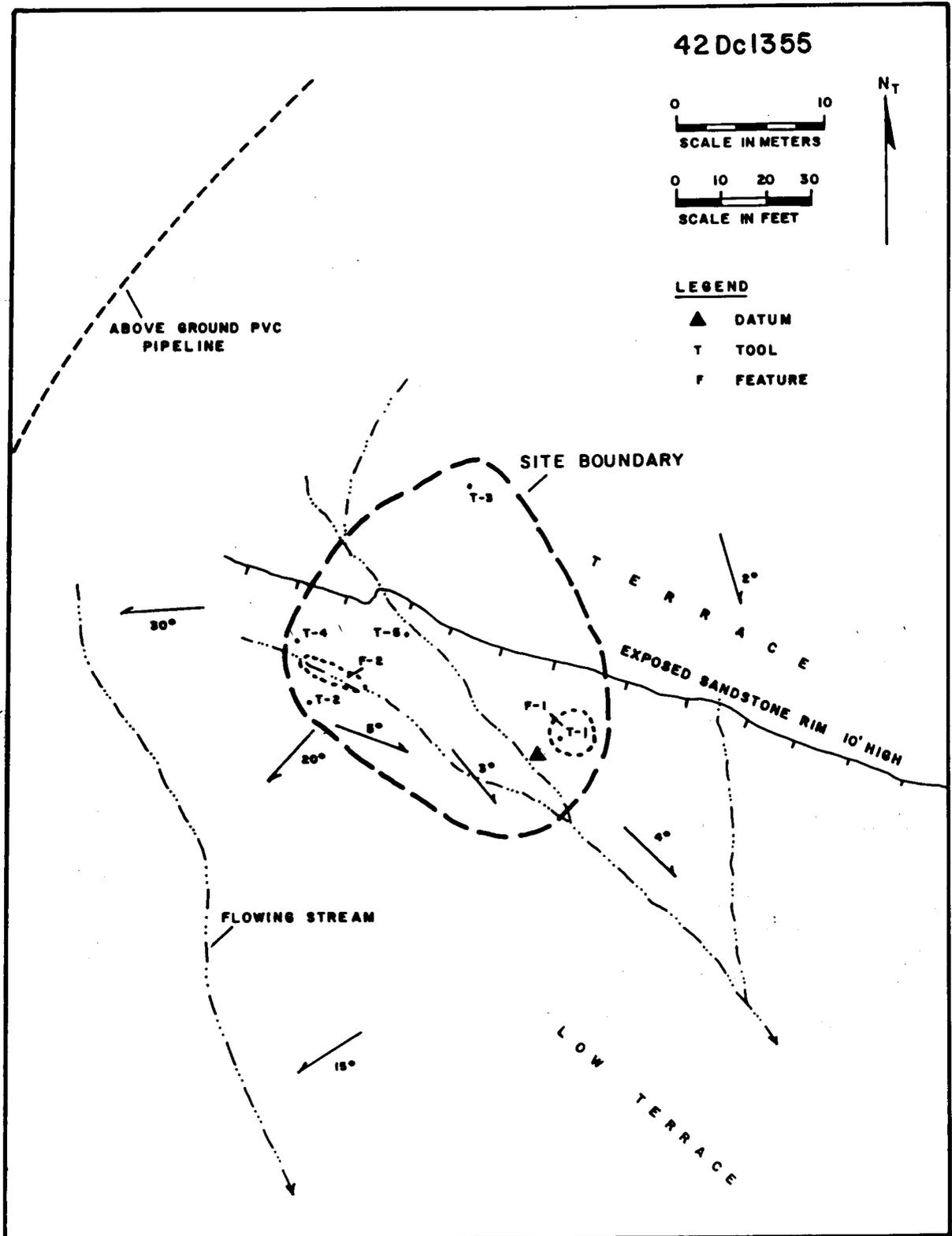


Figure 12. Site map 42Dc1355.

Isolated Finds of Artifacts

Isolated Find A (IF-A) is located in the NE/NE/NW of S. 27, T 8S, R 17E (UTM 585940E-4438550N). It is a brown and tan opaque chert tabular prepared core with 30+ flakes detached from narrow margins (8x7x2cm).

Isolated Find B (IF-B) is located in the NW/NW/SW of S. 27, T 8S, R 17E (UTM 585300E-4437740N). It consists of two tan opaque chert secondary flakes.

Isolated Find C (IF-C) is located in the SE/SW/SW of Sec. 27, T 8S, R 17E (UTM 585370E-4437280N). It is a brownish-yellow opaque chert cobble hammerstone with battering on two poles (8x7x6cm).

Isolated Find D (IF-D) is located in the SW/SE/SW of Sec. 27, T 8S, R 17E (UTM 585560E-4437230N). It is a light gray opaque chert secondary flake.

Isolated Find E (IF-E) is located in the SW/SE/SW of Sec. 27, T 8S, R 17E (UTM 585720E-4437360N). It is a light gray opaque chert secondary flake.

Isolated Find F (IF-F) is located in the SW/SE/SE of Sec. 27, T 8S, R 17E (UTM 586410E-4437210N). It consists of two light gray opaque chert secondary flakes and one primary flake of the same material.

Isolated Find G (IF-G) is located in the NW/SW/SE of Sec. 27, T 8S, R 17E (UTM 585980E-4437400N). It includes three light gray opaque chert secondary flakes.

Isolated Find H (IF-H) is located in the NE/NE/NE of Sec. 27, T 8S, R 17E (UTM 586710E-4438640N). It is a gray opaque chert unprepared core with dark brown cortex and 5 flakes removed from narrow margins (9x8x3cm).

Isolated Find I (IF-I) is located in the SE/SE/SE of Sec. 27, T 8S, R 17E (UTM 585680E-4437260N). It consists of two light gray opaque chert secondary flakes.

Isolated Find J (IF-J) is located in the SE/NW/SE of Sec. 27, T 8S, R 17E (UTM 586220E-4437540N). It is a large secondary blank (13x8x3cm).

Isolated Find K (IF-K) is located in the SW/NW/SE of Sec. 27, T 8S, R 17E (UTM 586140-4437640N). It is a large ovate Stage II biface preform 18x6x4cm).

Isolated Find L (IF-L) is located in the SW/NESW of Sec. 27, T 8S, R 17E (UTM 585720E-4437630N). It consists of a two light gray opaque chert secondary flakes and a brown opaque chert unprepared core with 3 flakes removed from narrow margins (6x4x21cm).

Isolated Find M (IF-M) is located in the SW/SE/NE of Sec. 27, T 8S, R 17E (UTM 586440E-4437920N). It is a light gray opaque chert unprepared core with dark brown cortex and four flakes detached from wide margins (8x6x3.5cm).

Isolated Find N (IF-N) is located in the SE/SE/NE of Sec. 27, T 8S, R 17E (UTM 586580E-4438000N). It is an ovate-shaped, light gray opaque chert unprepared core with dark brown cortex and 20+ flakes removed from narrow and wide margins (7.0x5.5x2.5cm).

Isolated Find O (IF-O) is located in the NW/SE/NW of Sec. 27, T 8S, R 17E (UTM 585710E-4438300N). It includes two light gray opaque chert secondary flakes.

Isolated Find P (IF-P) is located in the SW/NW/NE of Sec. 27, T 8S, R 17E (UTM 586140E-4438360N). It is a light gray opaque chert decortication flake.

Isolated Find Q (IF-Q) is located in the NW/NE/NE of Sec. 27, T 8S, R 17E (UTM 586430E-4438660N). It is a light gray opaque chert unprepared core with dark brown cortex and 4 flakes removed from narrow margins (7x5x2cm).

NATIONAL REGISTER OF HISTORIC PLACES EVALUATION

The National Register Criteria for Evaluation of Significance and procedures for nominating cultural resources to the National Register of Historic Places (NRHP) are outlined in 36 CFR 60.4 as follows:

The quality of significance in American history, architecture, archaeology, and culture is present in districts, sites, buildings, structures, and objects of State and local importance that possess integrity of location, design, setting, material, workmanship, feeling, and association, and that they:

- a)...are associated with events that have made a significant contribution to the broad patterns of our history; or
- b)...are associated with the lives of persons significant to our past; or
- c)...embody the distinctive characteristics of a type, period, or method of construction; or that represents the work of a master, or that possess high artistic values, or that represent a significant and distinguishable entity whose components may lack individual distinction; or
- d)...have yielded or may be likely to yield information important in prehistory or history.

The inventory of the Inland Production's 760 acre parcel in Pleasant Valley resulted in the documentation of four historic temporary camps (42Dc1321, 42Dc1322, 42Dc1323, and 42Dc1324), two prehistoric temporary camps (42Dc1325 and 42Dc1355), six prehistoric lithic scatters (42Dc1347, 42Dc1348, 42Dc1349, 42Dc1350, 42Dc1353, and 42Dc1354), one prehistoric lithic and ceramic scatter (42Dc1352), and one multi-component site consisting of a prehistoric lithic scatter and historic trash scatter (42Dc1351). Five of these sites are recommended as eligible to the NRHP under criterion (D): 42Dc1325, 42Dc1347, 42Dc1348, 42Dc1351, and 42Dc1355. Site 42Dc1325 is a prehistoric temporary camp with a fire cracked rock feature. Sites 42Dc1347 and 42Dc1348 are lithic scatters located in aeolian dunes. Site 42Dc1351 is a lithic scatter and historic trash scatter, also located on aeolian deposition. Site 42Dc1355 is a prehistoric temporary camp with two hearth features. All of these sites are recommended as eligible due to the potential for buried cultural remains. Additional investigations at these sites could provide significant data concerning site function, chronology, subsistence, and material culture.

Four historic sites, 42Dc1321, 42Dc1322, 42Dc1323 and 42Dc1324 represent temporary livestock camps having a limited range of cultural materials. Additional investigations at these sites would fail to provide information relevant to historic research domains of the area. Five

prehistoric sites (42Dc1349, 42Dc1350, 42Dc1352, 42Dc1353, and 42Dc1354) are recommended as not eligible for NRHP inclusion since they have an absence of additional diagnostic artifacts or features. Further research of these sites would not provide pertinent information to the prehistory of the area. The isolated finds of artifacts are also considered not eligible to the NRHP since they lack additional research potential.

MANAGEMENT RECOMMENDATIONS

The inventory resulted in the documentation of five sites that are recommended as eligible to the NRHP. These include: two prehistoric temporary camps (42Dc1325 and 42Dc1355); two lithic scatters (42Dc1347 and 42Dc1348); and one multi-component site consisting of a lithic scatter and historic trash scatter (42Dc1351). All of these sites need to be avoided by the future development within the parcel. Based on these findings, a determination of "no historic properties affected" is recommended for this project pursuant to Section 106, CFR 800.

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APPENDIX A
INTERMOUNTAIN ANTIQUITIES COMPUTER SYSTEM (IMACS)
SITE INVENTORY FORMS

On File At:

U.S. Bureau of Land Management
Vernal Field Office
Vernal, Utah

**WORKSHEET
APPLICATION FOR PERMIT TO DRILL**

APD RECEIVED: 02/28/2001

API NO. ASSIGNED: 43-013-32224

WELL NAME: GBU 3-27-8-17
 OPERATOR: INLAND PRODUCTION (N5160)
 CONTACT: JON HOLST

PHONE NUMBER: 970-481-1202

PROPOSED LOCATION:
 NENW 27 080S 170E
 SURFACE: 0857 FNL 2096 FWL
 BOTTOM: 0857 FNL 2096 FWL
 DUCHESNE
 MONUMENT BUTTE (105)

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

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

PROPOSED FORMATION: GRRV

RECEIVED AND/OR REVIEWED:

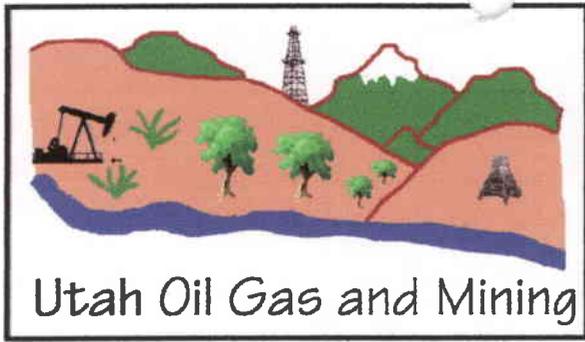
- Plat
- Bond: Fed¹ Ind[] Sta[] Fee[]
(No. 4488944)
- Potash (Y/N)
- Oil Shale (Y/N) *190-5 (B) or 190-3
- Water Permit
(No. MUNICIPAL)
- RDCC Review (Y/N)
(Date:)
- Fee Surf Agreement (Y/N)

LOCATION AND SITING:

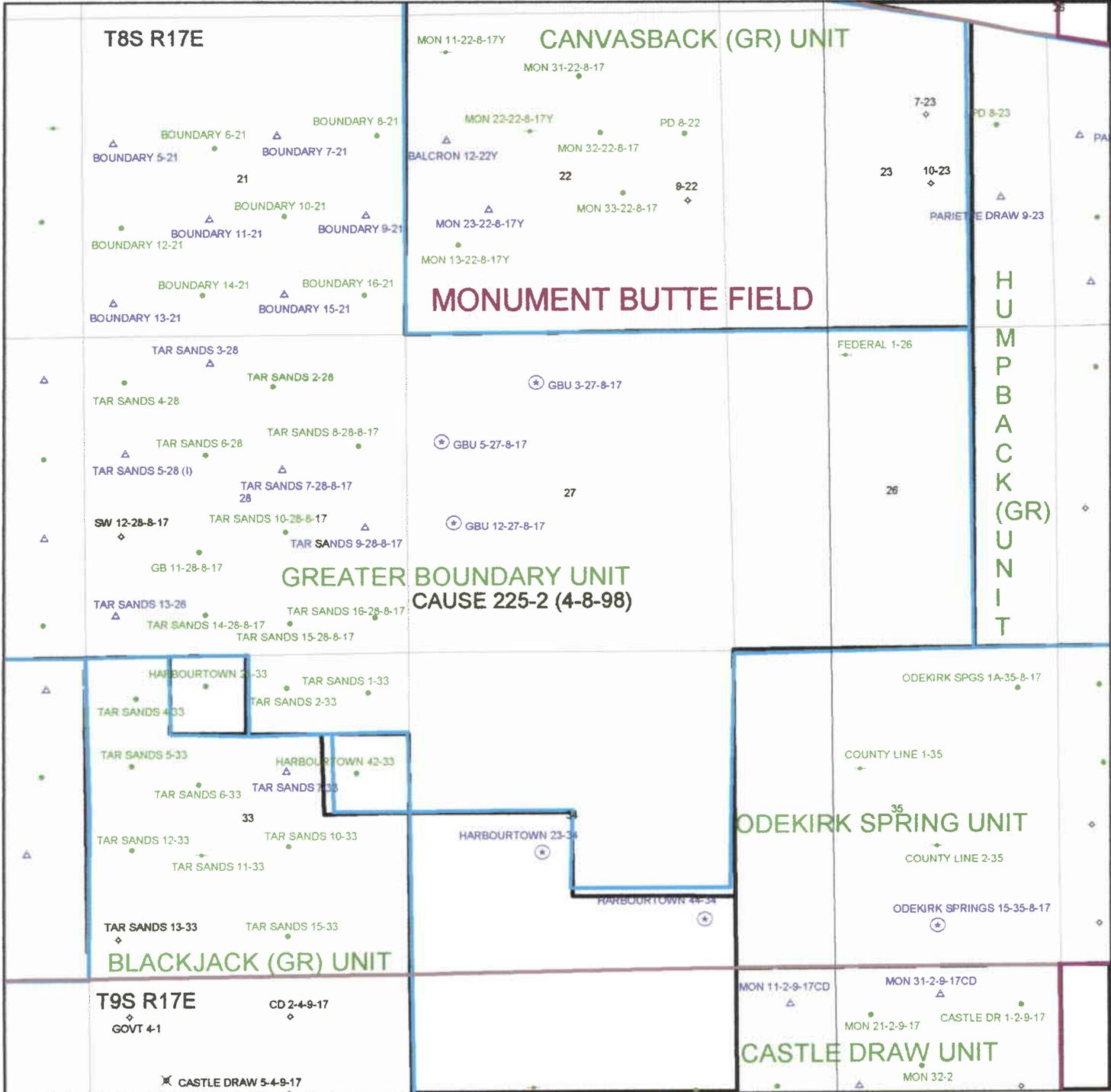
- R649-2-3. Unit GREATER BOUNDARY
- R649-3-2. General
Siting: 460 From Qtr/Qtr & 920' Between Wells
- R649-3-3. Exception
- Drilling Unit
Board Cause No: 225-2 * Unit E. Enh. Rec.
Eff Date: 4-8-98
Siting: 460' fr. Unit Boundary
- R649-3-11. Directional Drill

COMMENTS: Mon. Butte Field, SOP, separate file.

STIPULATIONS: ① FEDERAL APPROVAL



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





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)

March 5, 2001

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

Re: Greater Boundary Unit 3-27-8-17 Well, 857' FNL, 2096' FWL, NE NW, 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 43-013-32224.

Sincerely,

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

John R. Baza
Associate Director

er

Enclosures

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

Operator: Inland Production Company
Well Name & Number Greater Boundary Unit 3-27-8-17
API Number: 43-013-32224
Lease: UTU-76241

Location: NE NW **Sec.** 27 **T.** 8 South **R.** 17 East

Conditions of Approval

1. General

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

2. Notification Requirements

Notify the Division within 24 hours of spudding the well.

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

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

- Contact Dan Jarvis at (801) 538-5338

3. Reporting Requirements

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

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

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

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. TYPE OF WORK DRILL <input type="checkbox"/> DEEPEN <input checked="" type="checkbox"/>		5. LEASE DESIGNATION AND SERIAL NO. UTU-76241	
1b. TYPE OF WELL OIL WELL <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <input type="checkbox"/>		6. IF INDIAN, ALLOTTEE OR TRIBE NAME N/A	
2. NAME OF OPERATOR Inland Production Company		7. UNIT AGREEMENT NAME Greater Boundary	
3. ADDRESS OF OPERATOR 410 - 17th Street, Suite 700, Denver, CO 80202		8. FARM OR LEASE NAME WELL NO #3-27-8-17	
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.)* At Surface NE/NW 2096' FWL & 857' FNL		9. API WELL NO.	
14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE* 14.2 miles southeast of Myton, Utah		10. FIELD AND POOL OR WILDCAT Monument Butte	
15. DISTANCE FROM PROPOSED* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to) Approx. 857' f/lease line		11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA NE/NW Sec. 27, T8S, R17E	
16. NO. OF ACRES IN LEASE 1760		12. County Duchesne	
17. NO. OF ACRES ASSIGNED TO THIS WELL 40		13. STATE UT	
18. DISTANCE FROM PROPOSED LOCATION* TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR ON THIS LEASE, FT. Approx. 1320'		20. ROTARY OR CABLE TOOLS Rotary	
19. PROPOSED DEPTH 6500'		22. APPROX. DATE WORK WILL START*	
21. ELEVATIONS (Show whether DF, RT, GR, etc.) 5178.4' GR			

23. PROPOSED CASING AND CEMENTING PROGRAM

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

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

Draft Conditions of Approval are attached.

RECEIVED

APR 11 2001

DIVISION OF
OIL, GAS AND MINING

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

24. SIGNED *[Signature]* TITLE Permitting Agent DATE 2/23/01

(This space for Federal or State office use)
NOTICE OF APPROVAL PERMIT NO. APPROVAL DATE **CONDITIONS OF APPROVAL ATTACHED**

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 *[Signature]* TITLE Assistant Field Manager Mineral Resources DATE 04/05/2001

***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.

DOB/M

CONDITIONS OF APPROVAL
APPLICATION FOR PERMIT TO DRILL

Company/Operator: Inland Production Company

Well Name & Number: Greater Boundary 3-27-8-17

API Number: 43-013-32224

Lease Number: U - 76241

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

Agreement: Greater Boundary GR SR

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

CONDITIONS OF APPROVAL FOR NOTICE TO DRILL

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

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

A. DRILLING PROGRAM

1. Casing Program and Auxiliary Equipment

As a minimum, the usable water resources and other resources shall be isolated and/or protected by having a cement top for the production casing at least 200 ft. above the top of the Green River Formation, identified at $\pm 1,870$ ft.

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

Plans For Reclamation of Location:

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

shadscale	Atriplex conflertifolia	4 lbs/acre
gardners saltbush	Atriplex gardneri	4 lbs/acre
galleta grass	Hilaria jamesii	4 lbs/acre

If the seed mixture is to be aerielly 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.

DIVISION OF OIL, GAS AND MINING

SPUDDING INFORMATION

Name of Com pany: INLAND PRODUCTION COMPANY

Well Name: GBU 3-27-8-17

Api No. 43-013-32224 LEASE TYPE: FEDERAL

Section 27 Township 08S Range 17E County DUCHESNE

Drilling Contractor LEON ROSS DRILLING RIG # 14

SPUDDED:

Date 04//17/2001

Time 10:00 AM

How DRY

Drilling will commence _____

Reported by PAT WISENER

Telephone # 1-435-823-7468

Date 04/19/2001 Signed: CHD

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

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

SUNDRY NOTICES AND REPORTS ON WELLS

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

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.

3-27-8-17

9. API Well No.

43-013-32224

10. Field and Pool, or Exploratory Area

Monument Butte

11. County or Parish, State

Duchesne, Utah.

SUBMIT IN TRIPLICATE

1. Type of Well

Oil Well

Well

Gas Well

Well

Other

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)

2096' FWL & 857' FN NE/NW Sec.27, T8S, R17E

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

TYPE OF SUBMISSION

Notice of Intent

Subsequent Report

Final Abandonment Notice

TYPE OF ACTION

Abandonment

Recompletion

Plugging Back

Casing Repair

Altering Casing

Other Spud

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.)*

On 4/16/01 MIRU Ross #14. Drill 305' of 12 1/4" hole with air mist. TIH w/ 8 Jt's 85/8" J-55 24# csgn. Set @ 302.33/GL On 4/18/01 cement with 145 sks of Class "G" w/ 2% CaCL2 + 1/4# sk Cello-Flake Mixed @ 15.8 ppg > 1.17 cf/sk yeild. 0 bbls cement returned to surface. TOP off cement w/ 1" tbg @ 60' EOT. On 4/19/01 cement with 35 sks of Class "G" w/ 3% CaCL2 + 1/4# sk Cello-Flake Mixed @ 15.8 ppg > 1.17 cf/sk yeild. 2 bbls cement returned to surface.

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

Signed

Pat Wisener
Pat Wisener

Title

Drilling Foreman

Date

04/22/2001

(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 305.19

LAST CASING 8 5/8" SET AT 305.19
 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 3-27-8-16
 FIELD/PROSPECT Monument Butte
 CONTRACTOR & RIG # Ross #14

LOG OF CASING STRING:							
PIECES	OD	ITEM - MAKE - DESCRIPTION	WT / FT	GRD	THREAD	CONDT	LENGTH
		shjt 42.09					
		WHI - 92 csg head			8rd	A	0.95
8	8 5/8"	Maverick ST&C csg	24#	J-55	8rd	A	300.48
		GUIDE shoe			8rd	A	0.9
CASING INVENTORY BAL.		FEET	JTS	TOTAL LENGTH OF STRING			302.33
TOTAL LENGTH OF STRING		302.33	8	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			301.33
TOTAL		300.48	8	} COMPARE			
TOTAL CSG. DEL. (W/O THRDS)		300.48	8				
TIMING		1ST STAGE					
BEGIN RUN CSG.		SPUD	04/16/2001	GOOD CIRC THRU JOB <u>yes</u>			
CSG. IN HOLE		10:00am		Bbls CMT CIRC TO SURFACE <u>2nd top off job required</u>			
BEGIN CIRC				RECIPROCATED PIPE FOR _____ THRU _____ FT STROKE			
BEGIN PUMP CMT				DID BACK PRES. VALVE HOLD ? <u>N/A</u>			
BEGIN DSPL. CMT				BUMPED PLUG TO _____ 200 _____ PSI			
PLUG DOWN		Cemented					
CEMENT USED		CEMENT COMPANY- BJ					
STAGE	# SX	CEMENT TYPE & ADDITIVES					
1	145	Class "G" w/ 2% CaCL2 + 1/4#/sk Cello-Flake mixed @ 15.8 ppg 1.17 cf/sk yield					
2	35	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							

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

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

OPERATOR ACCT NO N5160

ACTION CODE	CURRENT ENTITY NO	NEW ENTITY NO	AP NUMBER	WELL NAME	WELL LOCATION					SPUD DATE	EFFECTIVE DATE
					QQ	SC	TP	RS	COUNTY		
A	99999	12391	43-013-32224	Boundary #3-27-8-17	NE/NW	27	8S	17E	Duchesne	April 16, 2001	04/16/01

WELL 1 COMMENTS

5-8-01

ACTION CODE	CURRENT ENTITY NO	NEW ENTITY NO	AP NUMBER	WELL NAME	WELL LOCATION					SPUD DATE	EFFECTIVE DATE
					QQ	SC	TP	RS	COUNTY		
A	99999	12391	43-013-32225	Boundary #5-27-8-17	SW/NW	27	8S	17E	Duchesne	April 19, 2001	04/19/01

WELL 2 COMMENTS

5-8-01

ACTION CODE	CURRENT ENTITY NO	NEW ENTITY NO	AP NUMBER	WELL NAME	WELL LOCATION					SPUD DATE	EFFECTIVE DATE
					QQ	SC	TP	RS	COUNTY		
A	99999	12391	43-013-32231	Boundary #6-27-8-17	SE/NW	27	8S	17E	Duchesne	April 20, 2001	04/20/2001

WELL 3 COMMENTS

5-8-01

ACTION CODE	CURRENT ENTITY NO	NEW ENTITY NO	AP NUMBER	WELL NAME	WELL LOCATION					SPUD DATE	EFFECTIVE DATE
					QQ	SC	TP	RS	COUNTY		
A	99999	12391	43-013-32232	Boundary #7-27-8-17	SW/NE	27	8S	17E	Duchesne	April 25, 2001	04/25/01

WELL 4 COMMENTS

5-8-01

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

WELL 5 COMMENTS

- ACTION CODES: (See instructions on back of form)
- A - Establish new entity for a well through well plat
 - B - Add new well to existing well group (well plat)
 - C - Reassign well to another well group and/or new entity
 - D - Reassign well from one existing entity to a new entity
 - E - Other (explain in comments section)

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

Kathie Jones
 Signature
 Production Clerk
 Title

Kathie S. Jones

May 8, 2001
 Date

P. 02/02

FAX NO. 435 646 3031

INLAND PRODUCTION CO

MAY-08-01 TUE 09:30 AM

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)

2096' FWL & 857' FNL NE/NW 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.

3-27-8-17

9. API Well No.

43-013-32224

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

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.)*

On 5/31/01 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 @ 259'. Drill 77/8" hole with air mist to a depth of 3592'. TOH with drill string & BHA. PU & MU bit #2, MM, & BHA drill 77/8" hole with water based mud to a depth of 6311'. Lay down drill string. Open hole log. PU & MU Guide shoe, 1 jt 5 1/2" csg, Float collar & 149 jt's J-55 15.5 # 5 1/2" csgn. Set @ 6311'/KB. Cement with 525* 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 367* sks Prem Litell w/ 3% KCL, 3#/sk Kolseal, 8% Gel, .5SMS, 5#sk BA90, mixed @ 11.0PPG >3.43 Good returns thru job with 30 bbls dye water returned to pit. Set slips with 92,000# tension. Nipple down BOP's. Release rig @ 3:00pm on 6/07/01.

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

Signed

Pat Wisener

Title

Drilling Foreman

Date

06/11/2001

(This space for Federal or State office use)

Approved by

Title

Date

Conditions of approval, if any:

INLAND PRODUCT N COMPANY - CASING & CEMENT REPORT

5 1/2" CASING SET AT _____

LAST CASING 8 5/8" SET 6,299'
 DATUM 10' KB
 DATUM TO CUT OFF CASING 15'
 DATUM TO BRADENHEAD FLANGE _____
 TD DRILLER 6,311' LOGG R T.D 6,314'
 HOLE SIZE 7 7/8

OPERATOR Inland Production Company
 WELL Greater Boundry 3-27-8-16
 FIELD/PROSPECT Monument Butte
 CONTRACTOR & RIG # Union # 14

LOG OF CASING STRING:

PIECES	OD	ITEM - MAKE - DESCRIPTION	WT / FT	GRD	THREAD	CONDT	LENGTH
		37.50' @ 4,428'					
149	5 1/2"	Maverick L & C csg	15.5 #	J-55	8rd	A	6294.25
		Float collar					0.65
1	5 1/2"	Maverick L T & C csg	15.5 #	J-55	8rd	A	20.4
		Guide shoe			8rd	A	0.9
CASING INVENTORY BAL.		FEET	JTS	TOTAL LENGTH OF STRING			6,316.20
TOTAL LENGTH OF STRING		6,316.20	150	LESS CUT OFF PIECE			15'
LESS NON CSG. ITEMS		1.55		PLUS DATUM TO T/CUT OFF CSG			10'
PLUS FULL JTS. LEFT OUT		0		CASING SET DEPTH			6,311.20
TOTAL		6,314.65	150	} COMPARE			
TOTAL CSG. DEL. (W/O THRDS)		6,314.65	150				
TIMING		1ST STAGE		GOOD CIRC THRU JOB			yes
BEGIN RUN CSG.		5:00 AM		Bbls CMT CIRC TO SURFACE			Dye Water to pit
CSG. IN HOLE		8:30 AM		RECIPROCATED PIPE FOR			THRU _____ FT STROKE
BEGIN CIRC		8:45AM		DID BACK PRES. VALVE HOLD ?			N/A
BEGIN PUMP CMT		10:00AM		BUMPED PLUG TO			1527 PSI
BEGIN DSPL. CMT		10:58AM					
PLUG DOWN		11:17 AM					
CEMENT USED		CEMENT COMPANY- BJ					
STAGE	# SX	CEMENT TYPE & ADDITIVES					
1	367 SKS	PLII+.5S.M.+10%GELL+3#SKBA90+2#SKK.S. , 3%KCL+1/4#SKC.F.+2%GELL+.3%S.M.					
2	525 SKS	50/50POZ+3%KCL+1/4#SKC.F.+2%GELL+.3%S.M., .1%R-3+5#BLEND S.F.					
CENTRALIZER & SCRATCHER PLACEMENT			SHOW MAKE & SPACING				
Centralizers - Middle first, top second & third for 3							
One on middle of first jt, one on collar of second & third jts, then every third collar for a total of twenty.							

COMPANY REPRESENTATIVE Ray Herrera

DATE 6/7/01

STATE OF UTAH
DIVISION OF OIL, GAS AND MINING

REPORT OF WATER ENCOUNTERED DURING DRILLING

Well name and number: Greater Boundry 3-27-8-17

API number: 43-013-32224

Well Location: QQ ne/nw 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: Union Drilling

Address: Drawer 40

Buckhannon, WV 26201

Phone: 304-472-4610

Water encountered (attach additional pages as needed):

DEPTH		VOLUME (FLOW RATE OR HEAD)	QUALITY (FRESH OR SALTY)
FROM	TO		
1529'	1535'	No flow to surface	

**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: 06/11/01

Name & Signature:

[Signature]

Time: 10:00 AM

UNICHEM

A Division of BJ Services

P.O. Box 217
Roosevelt, Utah 84066

Office (435) 722-5066
Fax (435) 722-5727

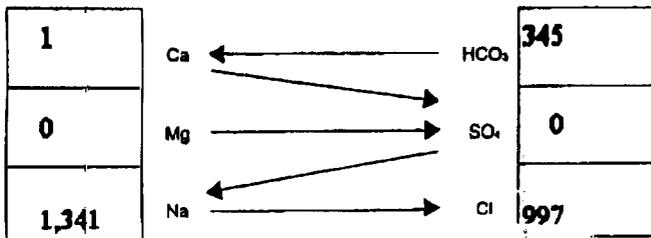
WATER ANALYSIS REPORT

Company INLAND PRODUCTION Address _____ Date 6/1/01
Source GBU 3-27-8-17 1529 ft. Date Sampled 6/1/01 Analysis No. _____

	Analysis	mg/l(ppm)	*Meg/l
1. PH	<u>9.2</u>		
2. H ₂ S (Qualitative)	<u>1.0</u>		
3. Specific Gravity	<u>1.038</u>		
4. Dissolved Solids		<u>47,702</u>	
5. Alkalinity (CaCO ₃)	CO ₃	<u>7,500</u>	+ 30 <u>250</u> CO ₃
6. Bicarbonate (HCO ₃)	HCO ₃	<u>5,795</u>	+ 61 <u>95</u> HCO ₃
7. Hydroxyl (OH)	OH		+ 17 _____ OH
8. Chlorides (Cl)	Cl	<u>35,400</u>	+ 35.5 <u>997</u> Cl
9. Sulfates (SO ₄)	SO ₄	<u>0</u>	+ 48 <u>0</u> SO ₄
10. Calcium (Ca)	Ca	<u>20</u>	+ 20 <u>1</u> Ca
11. Magnesium (Mg)	MG	<u>4</u>	+ 12.2 <u>0</u> Mg
12. Total Hardness (CaCO ₃)		<u>70</u>	
13. Total Iron (Fe)		<u>5.0</u>	
14. Manganese			
15. Phosphate Residuals			

*Milli equivalents per liter

PROBABLE MINERAL COMPOSITION



Compound	Eqvly. Wt.	X	Meg/l	=	Mg/l
Ca(HCO ₃) ₂	81.04	<u>1</u>			<u>81</u>
CaSO ₄	68.07				
CaCl ₂	55.50				
Mg(HCO ₃) ₂	73.17				
MgSO ₄	60.19				
MgCl ₂	47.62				
NaHCO ₃	84.00	<u>344</u>			<u>28,896</u>
Na ₂ SO ₄	71.03				
NaCl	58.46	<u>997</u>			<u>58,285</u>

Saturation Values	Distilled Water 20°C
CaCO ₃	13 Mg/l
CaSO ₄ · 2H ₂ O	2,090 Mg/l
MgCO ₃	103 Mg/l

Depth = 1,529'

REMARKS _____



August 22, 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 #3-27-8-17
Greater Boundary Unit #7-27-8-17
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

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

FOR OTHER USES
(See other in-
structive
reverse)

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

WELL COMPLETION OR RECOMPLETION REPORT AND LOG*

1a. TYPE OF WORK
 OIL WELL GAS WELL DRY Other _____

1b. TYPE OF WELL
 NEW WELL WORK OVER DEEPEN PLUG BACK DIFF RESVR. Other _____

2. NAME OF OPERATOR
 INLAND RESOURCES INC.

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

4. LOCATION OF WELL (Report locations clearly and in accordance with any State requirements.)*
 At Surface 857' FNL & 2096' FVL NENW S 27, T8S & R17E
 At top prod. Interval reported below _____
 At total depth _____

5. LEASE DESIGNATION AND SERIAL NO.
 UTU-76241

6. IF INDIAN, ALLOTTEE OR TRIBE NAME
 NA

7. UNIT AGREEMENT NAME
 Greater Boundary Unit

8. FARM OR LEASE NAME, WELL NO.
 GBU #3-27-8-17

9. WELL NO.
 43-013-32224

10. FIELD AND POOL OR WILDCAT
 Monument Butte

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

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

14. API NO. 43-013-32224 **DATE ISSUED** 2/23/01

15. DATE SPUNDED 4/16/01 **16. DATE T.D. REACHED** 6/6/01 **17. DATE COMPL. (Ready to prod.)** 7/23/01 **18. ELEVATIONS (DF, RKB, RT, GR, ETC.)*** 5178' GR 5188' KB **19. ELEV. CASINGHEAD**

20. TOTAL DEPTH, MD & TVD 6311' KB **21. PLUG BACK T.D., MD & TVD** 6287' 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)*
 Lower Green River 4821' - 6204'

25. WAS DIRECTIONAL SURVEY MADE No

26. TYPE ELECTRIC AND OTHER LOGS RUN
 6-85-01
 DIGL/SP/CDL/GR/Cal - 7-8-01

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#	301' KB	12-1/4"	To surface with 180 sx Class "G" cmt	
5-1/2" - J-55	15.5#	6299' KB	7-7/8"	367 sx Premilite II and 525 sx 50/50 Poz	

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 @ 6190'	TA @ 6124'

31. PERFORATION RECORD (Interval, size and number)

INTERVAL	SIZE	NUMBER	DEPTH INTERVAL (MD)	ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.
(CP sands) 6023-34', 6136-39', 6084-91'				
6067-74', 6023-34'	0.38"	136	6023'-6204'	Frac w/ 130,000# 20/40 sand in 768 bbl. Fluid.
(LODC) 5864-82', 5855-60', 5846-52'	0.38"	116	5846'-5882'	Frac w/ 120,220# 20/40 sand in 839 bbl. Fluid.
(A,C,D sands) 5615-21', 5336-40', 5328-32', 5265-71'	0.38"	80	5265'-5621'	Frac w/ 64,220# 20/40 sand in 512 bbl. Fluid.
(D-1 sand) 5145-50'	0.38"	20	5145'-5150'	Frac w/ 26,200# 20/40 sand in 234 bbl. Fluid.
(PB sands) 4920-27', 4820-27'	0.38"	52	4821'-4927'	Frac w/ 54,260# 20/40 sand in 447 bbl. Fluid.

33.* PRODUCTION

DATE FIRST PRODUCTION 7/23/01 **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	HOURS TESTED	CHOKE SIZE	PROD'N. FOR TEST PERIOD	OIL--BBL	GAS--MCF	WATER--BBL	GAS-OIL RATIO
10 day ave			----->	11.6	15.1	95.4	1302

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

34. DISPOSITION OF GAS (Sold, used for fuel, vented, etc.) Sold & Used for Fuel **T. ST WITNESSED BY** _____

35. LIST OF ATTACHMENTS _____

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

SIGNED Kevin S. Weller TITLE Manager of Development Operations DATE 8/21/01 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);

FORMATION	TOP	BOTTOM	DESCRIPTION, CONTENTS, ETC.	GEOLOGIC MARKERS		
				NAME	MEAS. DEPTH	TRUE VERT. DEPTH
			Greater Boundary Unit #3-27-8-17			
				Garden Gulch Mkr	4138'	
				Garden Gulch 2	4445'	
				Point 3 Mkr	4719'	
				X Mkr	4947'	
				Y-Mkr	4980'	
				Douglas Creek Mkr	5122'	
				BiCarbonate Mkr	5375'	
				B Limestone Mkr	5516'	
				Castle Peak	5971'	
				Basal Carbonate		
				Total Depth (LOGGERS)	6339'	

38.



May 9, 2002

Mr. Dan Jarvis
State of Utah
Division of Oil, Gas and Mining
Post Office Box 145801
Salt Lake City, Utah 84114-5801

Re: Permit Application for Water Injection Well
Greater Boundary #3-27-8-17 *43-013-32224*
Monument Butte Field, Greater Boundary Unit, Lease #UTU-76241
Section *2* 17-Township 8S-Range 17E
Duchesne County, Utah

Dear Mr. Jarvis:

Inland Production Company herein requests
from a producing oil well to a water injective
Field.

Greater Boundary (EP) or Boundary #3-27-8-17
UIC-293.1 Unit of Monument Butte

I hope you find this application complete; if
information, please contact me at (303) 893-
1111.

is or require additional

Sincerely,

Joyce McGough
Regulatory Specialist

Enclosure

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KG

NOTICE PREPARED
6-5-02



May 9, 2002

Mr. Dan Jarvis
State of Utah
Division of Oil, Gas and Mining
Post Office Box 145801
Salt Lake City, Utah 84114-5801

Re: Permit Application for Water Injection Well
Greater Boundary #3-27-8-17 *43-013-32224*
Monument Butte Field, Greater Boundary Unit, Lease #UTU-76241
Section ~~1~~7-Township 8S-Range 17E
Duchesne County, Utah

Dear Mr. Jarvis:

Inland Production Company herein requests approval to convert the Greater Boundary #3-27-8-17 from a producing oil well to a water injection well in the Greater Boundary Unit of Monument Butte Field.

I hope you find this application complete; however, if you have any questions or require additional information, please contact me at (303) 893-0102.

Sincerely,

Joyce McGough
Regulatory Specialist

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**DIVISION OF
OIL, GAS AND MINING**

STAT' F UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS, AND MINING

SUNDRY NOTICES AND REPORTS ON WELLS

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

5. Lease Designation and Serial No.

UTU-76241

6. If Indian, Allottee or Tribe Name

NA

7. If unit or CA, Agreement Designation

Greater Boundary Unit

8. Well Name and No.

Greater Boundary 3-27-8-17

9. API Well No.

43-013-32224

10. Field and Pool, or Exploratory Area

Monument Butte

11. County or Parish, State

Duchesne County, UT

SUBMIT IN TRIPLICATE

1. Type of Well

Oil Well Gas well Other

2. Name of Operator

INLAND PRODUCTION COMPANY

3. Address and Telephone No.

410 Seventeenth Street, Suite 700 Denver, CO 80202 (303) 893-0102

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

NE/NW 857' FNL, 2096' FWL Sec. 27, T8S, R17E

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

TYPE OF SUBMISSION

TYPE OF ACTION

Notice of Intent

Abandonment

Change of Plans

Subsequent Report

Recompletion

New Construction

Final Abandonment Notice

Plugging Back

Non-Routine Fracturing

Casing repair

Water Shut-off

Altering Casing

Conversion to Injection

Other _____

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)

Please see attached injection application.

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

Signed

Joyce I. McGough
Joyce I. McGough

Title

Regulatory Specialist

Date

4/30/02

(This space of Federal or State office use.)

Approved by _____

Title _____

Date _____

Conditions of approval, if any:

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



May 9, 2002

Mr. Emmett Schmitz
U.S. Environmental Protection Agency
Region VIII
999 18th Street, Suite 500
Denver, Colorado 80202-2405

RE: Permit Application for Water Injection Well
Greater Boundary #3-27-8-17
Monument Butte Field, Greater Boundary Unit, Lease #UTU-76241
Section 27-Township 8S-Range 17E
Duchesne County, Utah

Dear Mr. Schmitz:

Inland Production Company herein requests a permit to convert the Greater Boundary #3-27-8-17 from a producing oil well to a water injection well.

I hope you find this application complete; however, if you have any questions or require additional information, please contact me at (303) 893-0102.

Sincerely,

A handwritten signature in cursive script that reads "Joyce I. McGough". The signature is written in black ink and is positioned above the typed name and title.

Joyce I. McGough
Regulatory Specialist

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**DIVISION OF
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INLAND PRODUCTION COMPANY
APPLICATION FOR APPROVAL OF CLASS II INJECTION WELL
GREATER BOUNDARY #3-27-8-17
MONUMENT BUTTE (GREEN RIVER) FIELD
LEASE #UTU-76241
GREATER BOUNDARY UNIT
APRIL 30, 2002

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ATTACHMENT R	NECESSARY RESOURCES

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**DIVISION OF
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STATE OF UTAH
DIVISION OF OIL, GAS AND MINING

APPLICATION FOR INJECTION WELL - UIC FORM 1

OPERATOR Inland Production Company
ADDRESS 410 17th Street, Suite 700
Denver, Colorado 80202

Well Name and number: Greater Boundary 3-27-8-17
Field or Unit name: Monument Butte (Green River) Greater Boundary Unit Lease No. UTU-76241
Well Location: QQ NE/NW section 27 township 8S range 17E county Duchesne

Is this application for expansion of an existing project? Yes [X] No []

Will the proposed well be used for:
Enhanced Recovery? Yes [X] No []
Disposal? Yes [] No [X]
Storage? Yes [] No [X]

Is this application for a new well to be drilled? Yes [] No [X]

If this application is for an existing well,
has a casing test been performed on the well? Yes [X] No []

Date of test: _____
API number: 43-013-32224

Proposed injection interval: from 4138' to 6204'
Proposed maximum injection: rate 500 bpd pressure 1411 psig
Proposed injection zone contains [x] oil, [] gas, and/or [] fresh water within 1/2
mile of the well.

IMPORTANT: Additional information as required by R615-5-2 should accompany this form.

List of Attachments: Attachments "A" through "R"

I certify that this report is true and complete to the best of my knowledge.

Name: Joyce I. McGough Signature Joyce I. McGough
Title: Regulatory Specialist Date 4/30/02
Phone No. (303) 893-0102

(State use only)
Application approved by _____ Title _____
Approval Date _____

Comments:

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Form 4 UIC	UNITED STATES ENVIRONMENTAL PROTECTION AGENCY UNDERGROUND INJECTION CONTROL PERMIT APPLICATION <i>(Collected under the authority of the Safe Drinking Water Act. Sections 1421, 1422, 40 CFR 144)</i>	I. EPA ID NUMBER <table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td style="width:80%;"></td> <td style="width:10%; text-align: center;">T/A</td> <td style="width:10%; text-align: center;">C</td> </tr> <tr> <td style="text-align: center;">U</td> <td></td> <td></td> </tr> </table>		T/A	C	U		
	T/A	C						
U								

READ ATTACHED INSTRUCTIONS BEFORE STARTING
FOR OFFICIAL USE ONLY

Application Approved <small>mo day year</small>	Date Received <small>mo day year</small>	Permit/Well Number	Comments
		43-013-32224	

II. FACILITY NAME AND ADDRESS	III. OWNER/OPERATOR AND ADDRESS
Facility Name Greater Boundary #3-27-8-17	Owner/Operator Name Inland Production Company
Street Address Section 27 - Township 8S - Range 17E	Street Address 410 17th Street, Suite 700
City Duchesne County	City Denver
State Utah	State CO
Zip Code	Zip Code 80202

IV. OWNERSHIP STATUS (Mark 'x')	V. SIC CODES
<input checked="" type="checkbox"/> A. Federal <input type="checkbox"/> B. State <input type="checkbox"/> C. Private <input type="checkbox"/> D. Public <input type="checkbox"/> E. Other (Explain)	

VI. WELL STATUS (Mark 'x')			
<input checked="" type="checkbox"/> A. Operating	Date Started		<input checked="" type="checkbox"/> B. Modification/Conversion <input type="checkbox"/> C. Proposed
	mo	day	year
	7	23	1

VII. TYPE OF PERMIT REQUESTED (Mark 'x' and specify if required)			
<input type="checkbox"/> A. Individual <input checked="" type="checkbox"/> B. Area Minor Modification	Number of Existing wells 16	Number of Proposed wells 1	Name(s) of field(s) or project(s) Greater Boundary Unit

VIII. CLASS AND TYPE WELL (see reverse)			
A. Class(es) <small>(enter codes(s))</small> II	B. Type(s) <small>(enter codes(s))</small> R	C. If class is "other" or type is code 'x', explain NA	D. Number of wells per type (if area permit) 1

IX. LOCATION OF WELL(S) OR APPROXIMATE CENTER OF FIELD OR PROJECT												X. INDIAN LANDS (Mark 'x')			
A. Latitude			B. Longitude			Township and Range									
Deg	Min	Sec	Deg	Min	Sec	Twp	Range	Sec	¼ Sec	Feet from	Line	Feet from	Line	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
1						8S	17E	27	NENW	857	N	2096	W		

XI. ATTACHMENTS

(Complete the following questions on a separate sheet(s) and number accordingly; see instructions)
 FOR CLASSES I, II, III (and other classes) complete and submit on separate sheet(s) Attachments A -- U (pp 2-6) as appropriate. Attach maps where required. List attachments by letter which are applicable and are included with your application.

XII. CERTIFICATION

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

A. Name and Title (Type or Print) Joyce I. McGough/Regulatory Specialist	B. Phone No. (Area Code and No.) 303-893-0102
C. Signature <i>Joyce I. McGough</i>	D. Date Signed April 30, 2002

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WORK PROCEDURE FOR INJECTION CONVERSION

1. Rig up hot oil truck to casing. Pump water. Unseat pump. Flush rods. Trip out of hole with rods and pump.
2. Trip out of hole with tubing, breaking and doping every connection. Trip in hole with packer and tubing. Rig up water truck to casing. Pump packer fluid. Set packer.
3. Test casing and packer.
4. Rig down, move out.

Greater Boundary #3-27-8-17

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Greater Boundary Unit #3-27-8-17

Spud Date: 4/16/2001
 Put on Production: 7/23/2001
 GL: 5178' KB: 5188'

Initial Production: 11.6 BOPD,
 15.1 MCFD, 95.4 BWPD

Proposed Injector
 Wellbore Diagram

SURFACE CASING

CSG SIZE: 8-5/8"
 GRADE: J-55
 WEIGHT: 24#
 LENGTH: 8 jts. (302')
 DEPTH LANDED: 301'
 HOLE SIZE: 12-1/4"
 CEMENT DATA: 180 sxs Class "G" cmt, est 5 bbls cmt to surf

PRODUCTION CASING

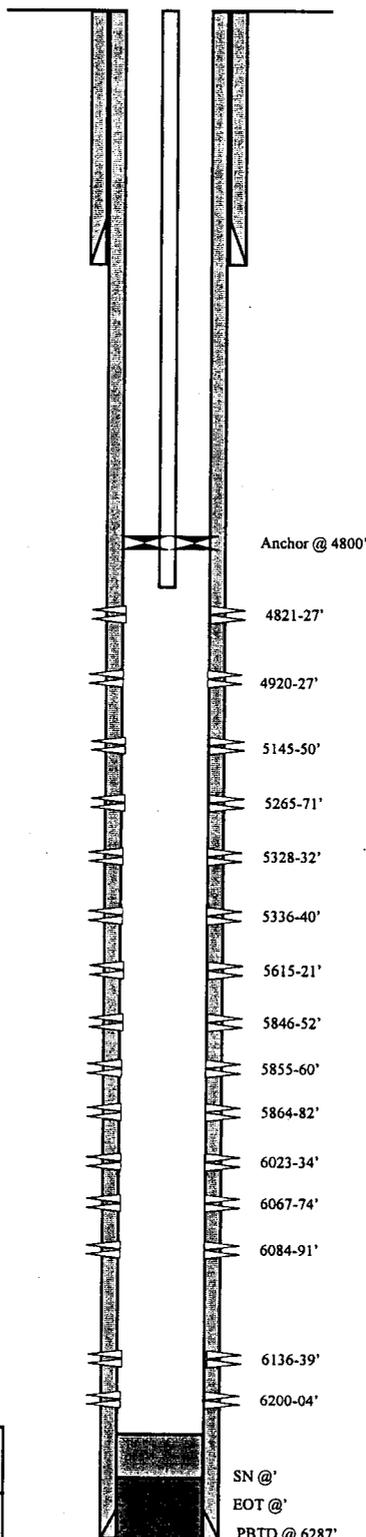
CSG SIZE: 5-1/2"
 GRADE: J-55
 WEIGHT: 15.5#
 LENGTH: 150 jts.
 DEPTH LANDED: 6299' KB
 HOLE SIZE: 7-7/8"
 CEMENT DATA: 367 sk Prem. Lite II mixed & 525 sxs 50/50 POZ.
 CEMENT TOP AT: ? per CBL

TUBING

SIZE/GRADE/WT.: 2-7/8" / J-55 / 6.5#
 NO. OF JOINTS: 189 jts (6111')
 PACKER: ?
 SEATING NIPPLE: 2-7/8" (1.10')
 SN LANDED AT: ? KB
 TOTAL STRING LENGTH: EOT @ ?

FRAC JOB

7/16/01 6023'-6204' 7/17/01 5846'-5882' 7/18/01 5265'-5621' 7/19/01 5145'-5150' 7/19/01 4821'-4927'	<p>Frac CP sand as follows: 130,000# 20/40 sand in 768 bbls Viking I-25 fluid. Treated @ avg press of 1550 psi w/avg rate of 35.5 BPM. ISIP 1880 psi. Flowed for 6.5 hrs. then died.</p> <p>Frac LODC sand as follows: 120,222# 20/40 sand in 839 bbls Viking I-25 fluid. Treated @ avg press of 2050 psi w/avg rate of 29.5 BPM. ISIP 2310 psi. Flowed for 7.5 hrs. then died.</p> <p>Frac A,C,D, sands as follows: 64,220# 20/40 sand in 512 bbls Viking I-25 fluid. Treated @ avg press of 1450 psi w/avg rate of 29.9 BPM. ISIP 1470 psi. Flowed for 4.75 hrs. then died.</p> <p>Frac D-1 sand as follows: 26,200# 20/40 sand in 234 bbls Viking I-25 fluid. Treated @ avg press of 1900 psi w/avg rate of 21.8 BPM. Screened out.</p> <p>Frac PB sand as follows: 54,260# 20/40 sand in 447 bbls Viking I-25 fluid. Treated @ avg press of 1943 psi w/avg rate of 29.8 BPM. ISIP 2050 psi. Flowed for 3 hrs. then died.</p>
---	--



PERFORATION RECORD

Date	Depth Range	Tool	Holes
7/14/01	6200'-6204'	4 JSPF	16 holes
7/14/01	6136'-6139'	4 JSPF	12 holes
7/14/01	6084'-6091'	4 JSPF	28 holes
7/14/01	6067'-6074'	4 JSPF	36 holes
7/14/01	6023'-6034'	4 JSPF	44 holes
7/17/01	5864'-5882'	4 JSPF	72 holes
7/17/01	5855'-5860'	4 JSPF	20 holes
7/17/01	5846'-5852'	4 JSPF	24 holes
7/18/01	5615'-5621'	4 JSPF	24 holes
7/18/01	5336'-5340'	4 JSPF	16 holes
7/18/01	5328'-5332'	4 JSPF	16 holes
7/18/01	5265'-5271'	4 JSPF	24 holes
7/19/01	5145'-5150'	4 JSPF	20 holes
7/19/01	4920'-4927'	4 JSPF	28 holes
7/19/01	4821'-4827'	4 JSPF	24 holes

Inland Resources Inc.

Greater Boundary Unit #3-27-8-17

857' FNL & 2096' FWL

NENW Section 27-T8S-R17E

Duchesne Co, Utah

API #43-013-32224; Lease #UTU-76241

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**DIVISION OF
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BDH 10/15/01

ATTACHMENT A
AREA OF REVIEW METHODS

Give the methods and, if appropriate, the calculations used to determine the size of the area of review (fixed radius or equation). The area of review shall be a fixed radius of 1/4 mile from the well bore unless the use of an equation is approved in advance by the Director.

The area of review shall be a fixed radius of ½ mile from the Greater Boundary #3-27-8-17. Inland Production Company has chosen to use a fixed radius of ½ mile to satisfy the requirements of both the EPA and the State of Utah.

Attachment A-1 One-half Mile Radius Map

Attachment A-2 Listing of Surface Owners

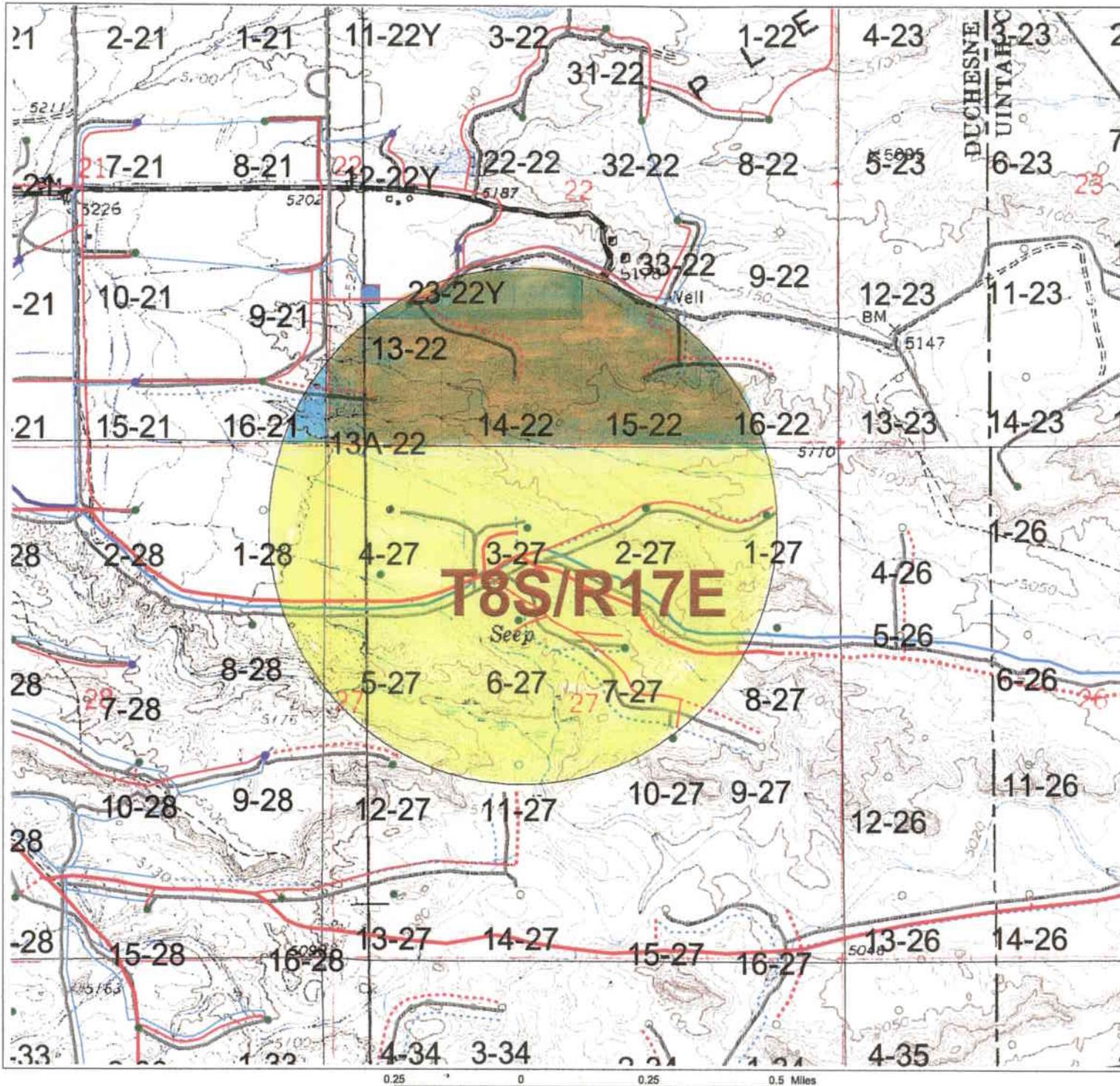
Attachment A-3 Certification for Surface Owner Notification

Attachment A-4 Well Location Plat

Attachment A-5 Name(s) and Address(s) of Surface Owners

Greater Boundary #3-27-8-17

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- 1/2 Mile Radius
- ⊗ Water Taps
- Well Categories
 - IND ● UTA-76241
 - WTR ● UTA-76954
 - SWD ◆
 - OIL ● UTA-77233
 - GAS ⊙
 - DRY ⊙
 - SHUTIN ⊙
 - SUSPENDED ⊙
 - ASND ◆
 - LDC ○
- Compressor Stations
 - Gas 10 Inch —
 - Gas 6 Inch and larger —
 - Proposed 6 Inch Gas - - -
 - Gas 4 Inch and Smaller - - -
 - Proposed Gas - - -
 - Gas Buried - - -
 - Petrolyph Gasline - - -
 - Questair Gasline - - -
 - Compressors - Other - - -
- Gas Meters
 - Water 6 Inch —
 - Water 4 Inch —
 - Water 4 Inch - High Pressure —
 - Water 4 Inch poly —
 - Water 2 to 3 Inch —
 - Proposed Water Line - - -
 - Johnson Water Line - - -
- Injection Stations —
- Pump Stations —
- Roads (Digitized)
 - Paved —
 - Dirr - - -
 - Proposed - - -
 - Two Track - - -
 - Private - - -

DIVISION OF
 OIL, GAS AND MINING

Attachment
A-1

GBU 3-27-8-17
 Sec. 27-T8S-R17E



418 17th Street Suite 309
 Denver, Colorado 80202
 Phone: (303) 493-6102

Area Map

LINTA BASIN, UTAH

Duchesne & Uintah Counties, Utah

Attachment A-2
Page 1

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#	Land Description	Minerals Ownership & Expires	Minerals Leased By	Surface Rights
1	<u>Township 8 South, Range 17 East</u> Section 26: S/2SW/4, SW/4SE/4 Section 27: All Section 28: All Section 33: N/2NE/4 Section 34: N/2, N/2SE/4	UTU-76241 HBP	Inland Production Company	(Surface Rights) Joseph & Carol Shields
2	<u>Township 8 South Range 17 East</u> Section 17: Lots 1-4, (All) Section 18: Lots 1 & 2 Section 19: E/2 Section 20: All Section 21: W/2, SE/4	UTU-76954 HBP	Inland Production Company	(Surface Rights) Joseph & Carol Shields
3	<u>Township 8 South, Range 17 East</u> Section 22: NE/4, E/2NW/4, S/2	UTU-77233 HBP	Inland Production Company	(Surface Rights) Brad & JoAnn Nelson Lee & Louise Nelson

ATTACHMENT A-3

CERTIFICATION FOR SURFACE OWNER NOTIFICATION

Re: Application for Approval of Class II Injection Well
Greater Boundary #3-27-8-17

I hereby certify that a copy of the injection application has been provided to all surface owners within a one-half mile radius of the proposed injection well.

Signed: Joyce I. McGough
Inland Production Company
Joyce I. McGough
Regulatory Specialist

Sworn to and subscribed before me this 30th day of April, 2002.

Notary Public in and for the State of Colorado:

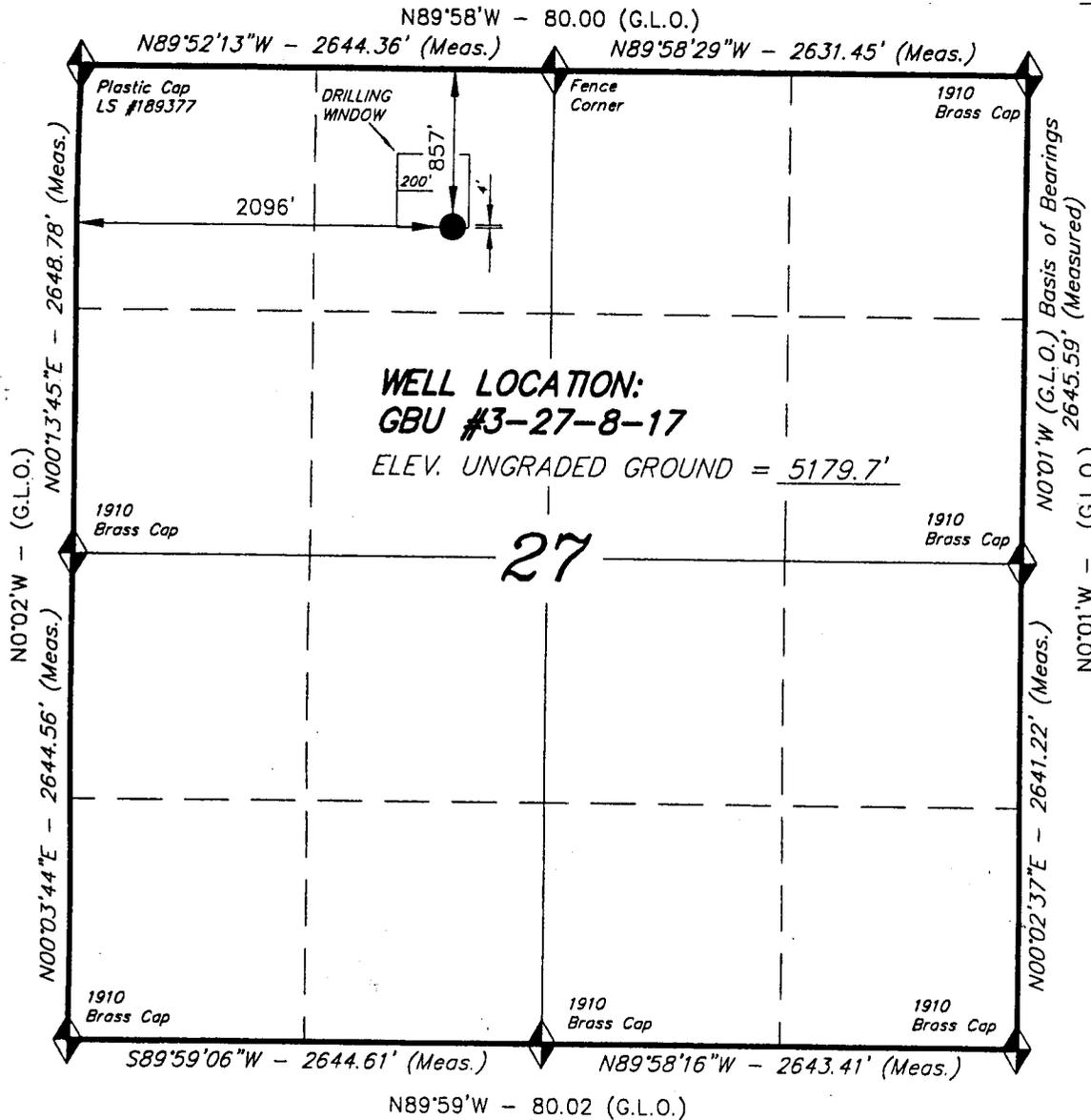
[Signature]

My commission expires: August 29, 2005

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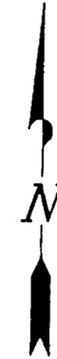
T8S, R17E, S.L.B.&M.

INLAND PRODUCTION COMPANY



WELL LOCATION, GREATER BOUNDARY UNIT #3-27-8-17, LOCATED AS SHOWN IN THE NE 1/4 NW 1/4 OF SECTION 27, T8S, R17E, S.L.B.&M. DUCHESNE COUNTY, UTAH.

Attachment A-4



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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.

Stacy W. Stewart
 REGISTERED LAND SURVEYOR
 REGISTRATION No. 189377
 STATE OF UTAH

TRI STATE LAND SURVEYING & CONSULTING

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

SCALE: 1" = 1000'	SURVEYED BY: C.D.S. R.J.
DATE: 1-4-01	WEATHER: COLD
NOTES:	FILE #

◆ = SECTION CORNERS LOCATED

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

ATTACHMENT A-5

Names and Addresses of Surface Owners

1. USA

Greater Boundary #3-27-8-17

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ATTACHMENT B

MAPS OF WELLS/AREA AND AREA OF REVIEW

Submit a topographic map, extending one mile beyond the property boundaries, showing the injection well(s) or project area for which a permit is sought and the applicable area of review.

There are no hazardous waste, treatment, storage or disposal facilities within a one-mile radius of the property boundaries.

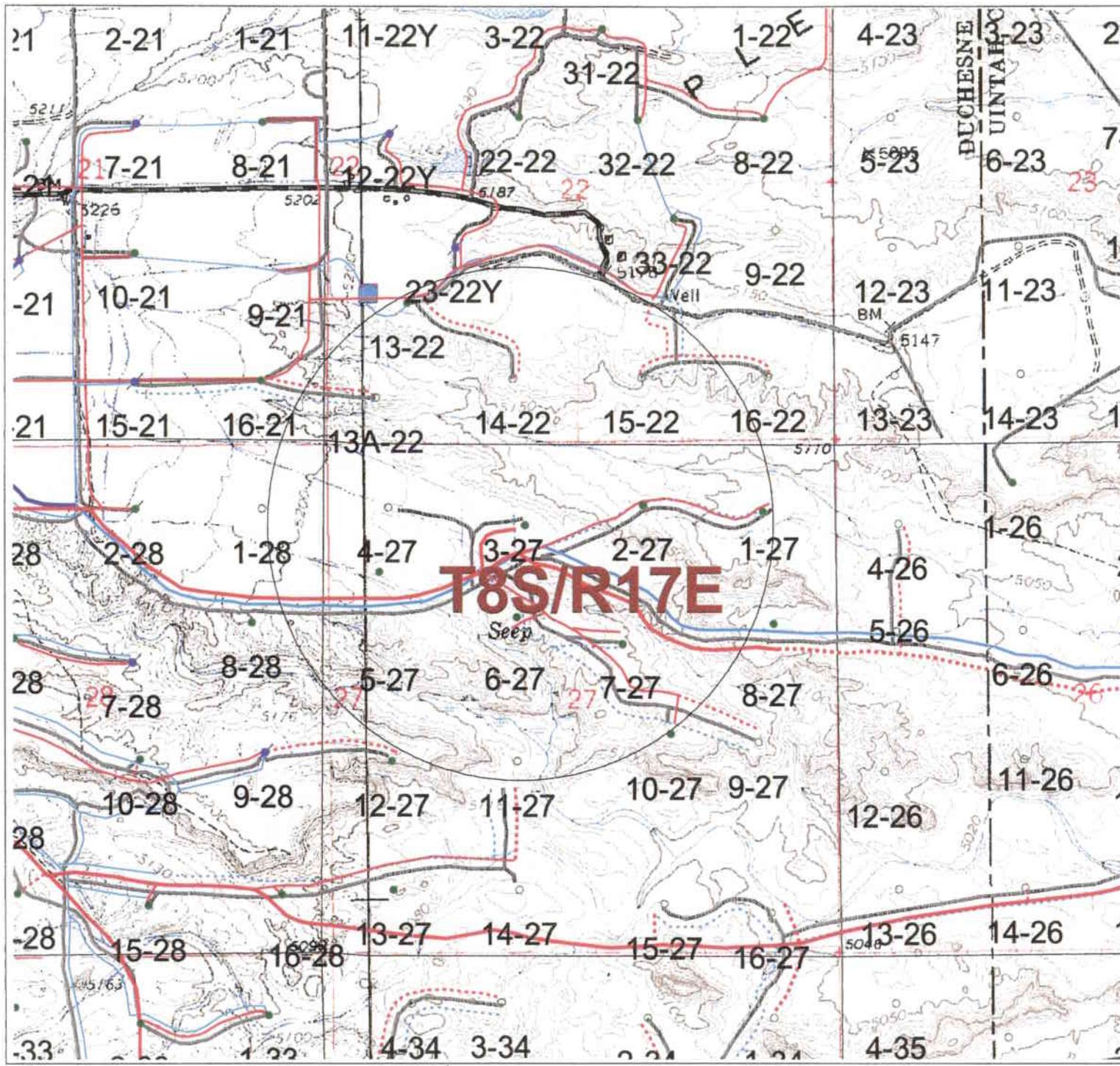
Attachment B-1 Area of Review and Existing/Proposed Waterlines

Greater Boundary #3-27-8-17

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- 1/2 Mile Radius
- ⊙ Water Taps
- Well Categories
 - ⊙ INJ
 - ⊙ MTR
 - ⊙ SMD
 - ⊙ OIL
 - ⊙ GAS
 - ⊙ DRY
 - ⊙ SHUTIN
 - ⊙ SUSPENDED
 - ⊙ ABND
 - ⊙ LOC
- Compressor Stations
 - Gas 10 Inch
 - Gas 6 Inch and larger
 - Proposed 6 Inch Gas
 - Gas 4 Inch and Smaller
 - Proposed Gas
 - Gas Buried
 - Petroglyph Gasline
 - Questar Gasline
 - Compressors - Other
- Gas Meters
 - Water 6 Inch
 - Water 4 Inch
 - Water 4 Inch - High Pressure
 - Water 4 Inch Poly
 - Water 2 to 3 Inch
 - Proposed Water
 - Johnson Water Line
- Injection Stations
 - Pump Stations
 - Roads (Digitized)
 - Paved
 - Dirt
 - Proposed
 - Two Track
 - Private

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T8S/R17E

Attachment
B-1



GBU 3-27-8-17
 Sec. 27-T8S-R17E

410 17th Street Suite 300
 Denver, Colorado 80202
 Phone: (303) 493 0102

Area Map

LINTA BASIN, UTAH

Duchesne & Uintah Counties, Utah

P.C. 5/20/02



ATTACHMENT C

CORRECTIVE ACTION PLAN AND WELL DATA

Submit a tabulation of data reasonably available from public records or otherwise known to the applicant on all wells within the area of review, including those on the map required in Attachment B, which penetrate the proposed injection zone.

Step rate tests will be performed periodically to determine the fracture pressure. The injection pressure will be kept under the fracture pressure.

Attachment C-1	Wellbore Diagram – Greater Boundary #3-27-8-17
Attachment C-2	Wellbore Diagram – Greater Boundary #1-27-8-17
Attachment C-3	Wellbore Diagram – Greater Boundary #2-27-8-17
Attachment C-4	Wellbore Diagram – Greater Boundary #4-27-8-17
Attachment C-5	Wellbore Diagram – Greater Boundary #5-27-8-17
Attachment C-6	Wellbore Diagram – Greater Boundary #6-27-8-17
Attachment C-7	Wellbore Diagram – Greater Boundary #7-28-8-17

Greater Boundary #3-27-8-17

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OIL, GAS AND MINING**

Greater Boundary Unit #3-27-8-17

Spud Date: 4/16/2001
 Put on Production: 7/23/2001
 GL: 5178' KB: 5188'

Initial Production: 11.6 BOPD,
 15.1 MCFD, 95.4 BWPD

Wellbore Diagram

SURFACE CASING

CSG SIZE: 8-5/8"
 GRADE: J-55
 WEIGHT: 24#
 LENGTH: 8 jts. (302')
 DEPTH LANDED: 301'
 HOLE SIZE: 12-1/4"
 CEMENT DATA: 180 sxs Class "G" cmt, est 5 bbls cmt to surf

PRODUCTION CASING

CSG SIZE: 5-1/2"
 GRADE: J-55
 WEIGHT: 15.5#
 LENGTH: 150 jts.
 DEPTH LANDED: 6299' KB
 HOLE SIZE: 7-7/8"
 CEMENT DATA: 367 sk Prem. Lite II mixed & 525 sxs 50/50 POZ.
 CEMENT TOP AT: ? per CBL

TUBING

SIZE/GRADE/WT.: 2-7/8" / J-55 / 6.5#
 NO. OF JOINTS: 153 jts (4962.69')
 TUBING PACKER: 4969.59'
 NO. OF JOINTS: 32 jts. (1026.68')
 SEATING NIPPLE: 2-7/8" (1.10')
 SN LANDED AT: 5997.37' KB
 NO. OF JOINTS: 1 jt (32.29')
 TOTAL STRING LENGTH: EOT @ 6030.41'

SUCKER RODS

POLISHED ROD: 1-1/2" x 22' SM
 SUCKER RODS: 4-1 1/2" weight bars; 236-3/4" guided rods.
 PUMP SIZE: 2-1/2" x 1-1/2" x 15" RHAC
 STROKE LENGTH: 72"
 PUMP SPEED, SPM: 5
 LOGS: DIGL/SP/GR/CAL

FRAC JOB

7/16/01 6023'-6204' **Frac CP sand as follows:**
 130,000# 20/40 sand in 768 bbls Viking I-25 fluid. Treated @ avg press of 1550 psi w/avg rate of 35.5 BPM. ISIP 1880 psi. Flowed for 6.5 hrs. then died.

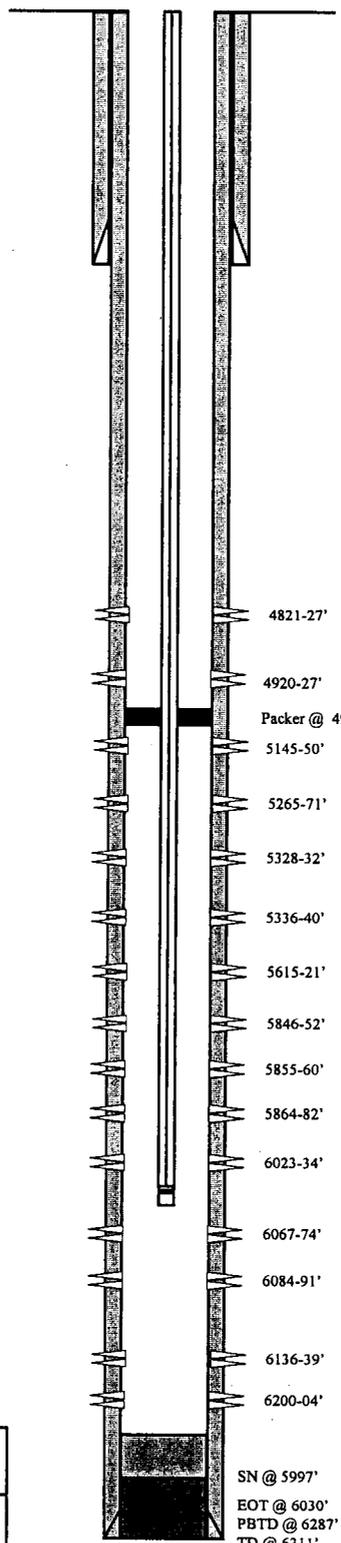
7/17/01 5846'-5882' **Frac LODC sand as follows:**
 120,222# 20/40 sand in 839 bbls Viking I-25 fluid. Treated @ avg press of 2050 psi w/avg rate of 29.5 BPM. ISIP 2310 psi. Flowed for 7.5 hrs. then died.

7/18/01 5265'-5621' **Frac A,C,D, sands as follows:**
 64,220# 20/40 sand in 512 bbls Viking I-25 fluid. Treated @ avg press of 1450 psi w/avg rate of 29.9 BPM. ISIP 1470 psi. Flowed for 4.75 hrs. then died.

7/19/01 5145'-5150' **Frac D-1 sand as follows:**
 26,200# 20/40 sand in 234 bbls Viking I-25 fluid. Treated @ avg press of 1900 psi w/avg rate of 21.8 BPM. Screened out.

7/19/01 4821'-4927' **Frac PB sand as follows:**
 54,260# 20/40 sand in 447 bbls Viking I-25 fluid. Treated @ avg press of 1943 psi w/avg rate of 29.8 BPM. ISIP 2050 psi. Flowed for 3 hrs. then died.

10/05/01 Isolate PB-8 zone.
 10/15/01 Move packer. Update rod and tubing details.



PERFORATION RECORD

Date	Interval	Tool	Holes
7/14/01	6200'-6204'	4 JSPF	16 holes
7/14/01	6136'-6139'	4 JSPF	12 holes
7/14/01	6084'-6091'	4 JSPF	28 holes
7/14/01	6067'-6074'	4 JSPF	36 holes
7/14/01	6023'-6034'	4 JSPF	44 holes
7/17/01	5864'-5882'	4 JSPF	72 holes
7/17/01	5855'-5860'	4 JSPF	20 holes
7/17/01	5846'-5852'	4 JSPF	24 holes
7/18/01	5615'-5621'	4 JSPF	24 holes
7/18/01	5336'-5340'	4 JSPF	16 holes
7/18/01	5328'-5332'	4 JSPF	16 holes
7/18/01	5265'-5271'	4 JSPF	24 holes
7/19/01	5145'-5150'	4 JSPF	20 holes
7/19/01	4920'-4927'	4 JSPF	28 holes
7/19/01	4821'-4827'	4 JSPF	24 holes

Inland Resources Inc.
 Greater Boundary Unit #3-27-8-17
 857' FNL & 2096' FWL
 NENW Section 27-T8S-R17E
 Duchesne Co, Utah
 API #43-013-32224; Lease #UTU-76241

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RDH 10/15/01

Greater Boundary Unit #1-27-8-17

Spud Date: 5/10/2001
 Put on Production: 7/23/2001
 GL: 5083' KB: 5093'

Initial Production: 77.5 BOPD,
 47.4 MCFD, 28.5 BWPD

Wellbore Diagram

SURFACE CASING

CSG SIZE: 8-5/8"
 GRADE: J-55
 WEIGHT: 24#
 LENGTH: 7 jts. (302')
 DEPTH LANDED: 310'
 HOLE SIZE: 12-1/4"
 CEMENT DATA: 145 sxs Class "G" cmt.

PRODUCTION CASING

CSG SIZE: 5-1/2"
 GRADE: J-55
 WEIGHT: 15.5#
 LENGTH: 150 jts. (6329.05' KB)
 DEPTH LANDED: 6324' KB
 HOLE SIZE: 7-7/8"
 CEMENT DATA: 367 sk Prem. Lite II mixed & 525 sxs 50/50 POZ.
 CEMENT TOP AT: ? per CBL

TUBING

SIZE/GRADE/WT.: 2-7/8" / J-55 / 6.5#
 NO. OF JOINTS: 195 jts (6106')
 TUBING ANCHOR: 6116'
 NO. OF JOINTS: 2 jts (63')
 SEATING NIPPLE: 2-7/8" (1.10')
 SN LANDED AT: 6182' KB
 NO. OF JOINTS: 1 jt (31')
 TOTAL STRING LENGTH: EOT @ 6215'

SUCKER RODS

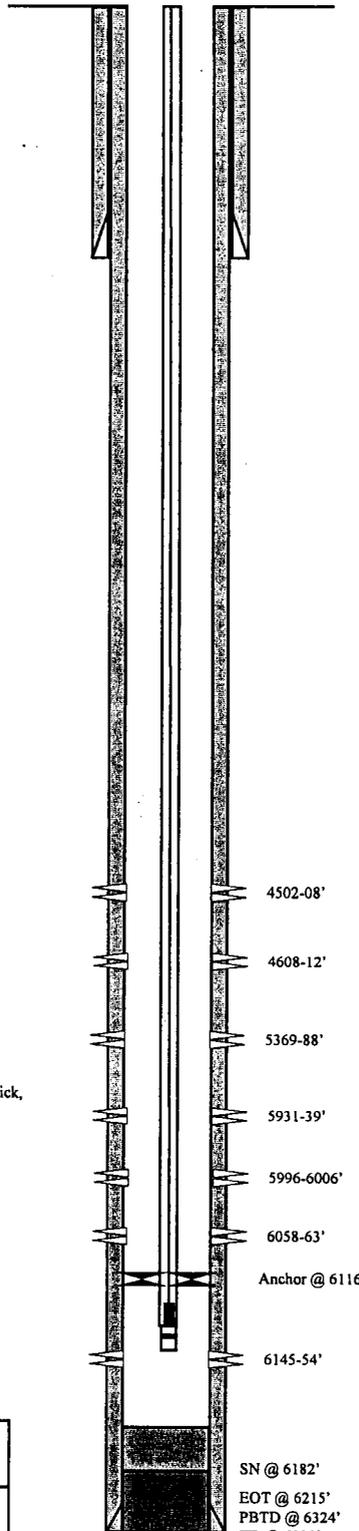
POLISHED ROD: 1-1/2" x 22' SM
 SUCKER RODS: 4-1 1/2" weight bars; 10-3/4" scraped rods; 142-3/4" slick,
 90-3/4" scraper rods, 1-4', 1-6'x 3/4" pony rods.
 PUMP SIZE: 2-1/2" x 1-1/2" x 15' RHAC
 STROKE LENGTH: 86"
 PUMP SPEED, SPM: 5.5
 LOGS: DIGL/SP/GR/CAL

FRAC JOB

7/16/01	5931'-6154'	Frac CP sand as follows: 135,800# 20/40 sand in 822 bbls Viking I-25 fluid. Treated @ avg press of 1425 psi w/avg rate of 35.5 BPM. ISIP 1700 psi. Flowed for 6 hrs. then died.
7/17/01	5369'-5388'	Frac B-0.5 sand as follows: 106,720# 20/40 sand in 759 bbls Viking I-25 fluid. Treated @ avg press of 1600 psi w/avg rate of 30 BPM. ISIP 1910 psi. Flowed for 5 hrs. then died.
7/18/01	4502'-4612'	Frac CB sand as follows: 48,660# 20/40 sand in 391 bbls Viking I-25 fluid. Treated @ avg press of 190 psi w/avg rate of 29.8 BPM. ISIP 2100 psi. Flowed for 4 hrs. then died.

PERFORATION RECORD

7/14/01	6145'-6154'	4 JSPP	36 holes
7/14/01	6058'-6063'	4 JSPP	20 holes
7/14/01	5996'-6006'	4 JSPP	40 holes
7/14/01	5931'-5939'	4 JSPP	32 holes
7/17/01	5369'-5388'	4 JSPP	76 holes
7/18/01	4608'-4612'	4 JSPP	16 holes
7/18/01	4502'-4508'	4 JSPP	24 holes





Inland Resources Inc.
 Greater Boundary Unit #1-27-8-17
 733' FNL & 726' FEL
 NENE Section 27-T8S-R17E
 Duchesne Co, Utah
 API #43-013-32228; Lease #UTU-76241

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Greater Boundary Unit #2-27-8-17

Spud Date: 6/04/2001
 Put on Production: 7/31/2001
 GL: 5118' KB: 5128'

Initial Production: 141 BOPD,
 97 MCFD, 26.5 BWPD

Wellbore Diagram

SURFACE CASING

CSG SIZE: 8-5/8"
 GRADE: J-55
 WEIGHT: 24#
 LENGTH: 7 jts. (307.66')
 DEPTH LANDED: 307.66'
 HOLE SIZE: 12-1/4"
 CEMENT DATA: 145 sxs Class "G" cmt, est 4 bbls cmt to surf

PRODUCTION CASING

CSG SIZE: 5-1/2"
 GRADE: J-55
 WEIGHT: 15.5#
 LENGTH: 148 jts. (6298')
 DEPTH LANDED: 6298'
 HOLE SIZE: 7-7/8"
 CEMENT DATA: 515 sk Prem. Lite II mixed & 525 sxs 50/50 POZ.
 CEMENT TOP AT: ? per CBL

TUBING

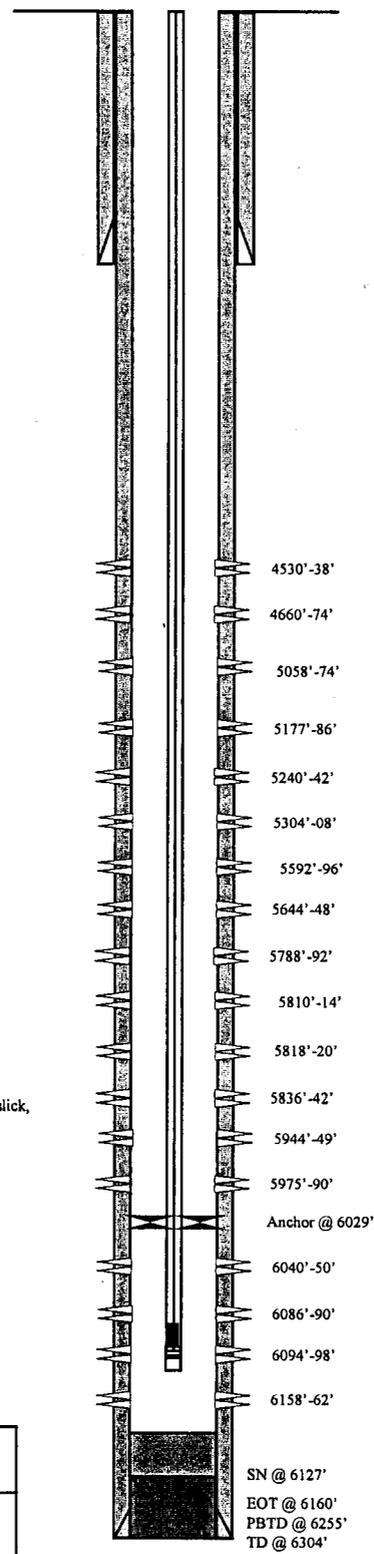
SIZE/GRADE/WT.: 2-7/8" / J-55 / 6.5#
 NO. OF JOINTS: 188 jts (6019.73')
 TUBING ANCHOR: 6029.73'
 NO. OF JOINTS: 3 jts (6124')
 SEATING NIPPLE: 2-7/8" (1.10')
 SN LANDED AT: 6127.71' KB
 NO. OF JOINTS: 1 jt (6158')
 TOTAL STRING LENGTH: EOT @ 6160.64'

SUCKER RODS

POLISHED ROD: 1-1/2" x 22' SM
 SUCKER RODS: 4-1 1/2" weight bars; 10-3/4" scraped rods; 140-3/4" slick,
 90-3/4" scraper rods, 1-2", 1-4", 1-8" x 3/4" pony rods
 PUMP SIZE: 2-1/2" x 1-1/2" x 16" RHAC
 STROKE LENGTH: 73"
 PUMP SPEED, SPM: 5 SPM
 LOGS: DIGL/SP/GR/CAL

FRAC JOB

7/24/01 5944'-6162' **Frac CP sand as follows:**
 154,000# 20/40 sand in 930 bbls Viking I-25 fluid. Treated @ avg press of 1800 psi w/avg rate of 35.3 BPM. ISIP 2050 psi. Flowed for 7.5 hrs then died.
 7/25/01 5592'-5842' **Frac A/LODC sands as follows:**
 98,000# 20/40 sand in 706 bbls Viking I-25 fluid. Treated @ avg press of 1930 psi w/avg rate of 30.9 BPM. ISIP 1950 psi. Flowed for 4.5 hrs then died.
 7/26/01 5058'-5308 **Frac C/D sands as follows:**
 132,000# 20/40 sand in 888 bbls Viking I-25 fluid. Treated @ avg press of 1470 psi w/avg rate of 31 BPM. ISIP 1510 psi. Flowed for 6 hrs then died.
 7/27/01 4530'-4674' **Frac GB sands as follows:**
 104,160# 20/40 sand in 710 bbls Viking I-25 fluid. Treated @ avg press of 2450 psi w/avg rate of 30.9 BPM. ISIP 1960 psi. Flowed for 5.75 hrs then died.



PERFORATION RECORD

Date	Depth Range	Tool	Holes
7/23/01	6158'-6162'	4 JSPF	16 holes
7/23/01	6094'-6098'	4 JSPF	16 holes
7/23/01	6086'-6090'	4 JSPF	16 holes
7/23/01	6040'-6050'	4 JSPF	40 holes
7/23/01	5975'-5990'	4 JSPF	60 holes
7/23/01	5944'-5949'	4 JSPF	20 holes
7/25/01	5836'-5842'	4 JSPF	24 holes
7/25/01	5818'-5820'	4 JSPF	08 holes
7/25/01	5810'-5814'	4 JSPF	16 holes
7/25/01	5788'-5792'	4 JSPF	16 holes
7/25/01	5644'-5648'	4 JSPF	16 holes
7/25/01	5592'-5596'	4 JSPF	16 holes
7/26/01	5304'-5308'	4 JSPF	16 holes
7/26/01	5240'-5242'	4 JSPF	08 holes
7/26/01	5177'-5186'	4 JSPF	36 holes
7/26/01	5058'-5074'	4 JSPF	64 holes
7/27/01	4660'-4674'	4 JSPF	56 holes
7/27/01	4530'-4538'	4 JSPF	32 holes

Inland Resources Inc.
 Greater Boundary Unit #20-27-8-17
 660' FNL & 1980' FEL
 NWSE Section 27-T8S-R17E
 Duchesne Co, Utah
 API #43-013-32229; Lease #UTU-76241

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 BDH 8/2/01
 DIVISION OF OIL, GAS AND MINING

Greater Boundary Unit #4-27-8-17

Spud Date: 1/21/02
 Put on Production: 5/01/02
 GL: 5186' KB: 5196'

Initial Production: BOPD,
 MCFD, BWPD

Wellbore Diagram

SURFACE CASING

CSG SIZE: 8-5/8"
 GRADE: J-55
 WEIGHT: 24#
 LENGTH: 7 jts. (293.20')
 DEPTH LANDED: 301.20' KB
 HOLE SIZE: 12-1/4"
 CEMENT DATA: 150 sxs Class "G" cmt, est 4 bbls cmt to surf.

PRODUCTION CASING

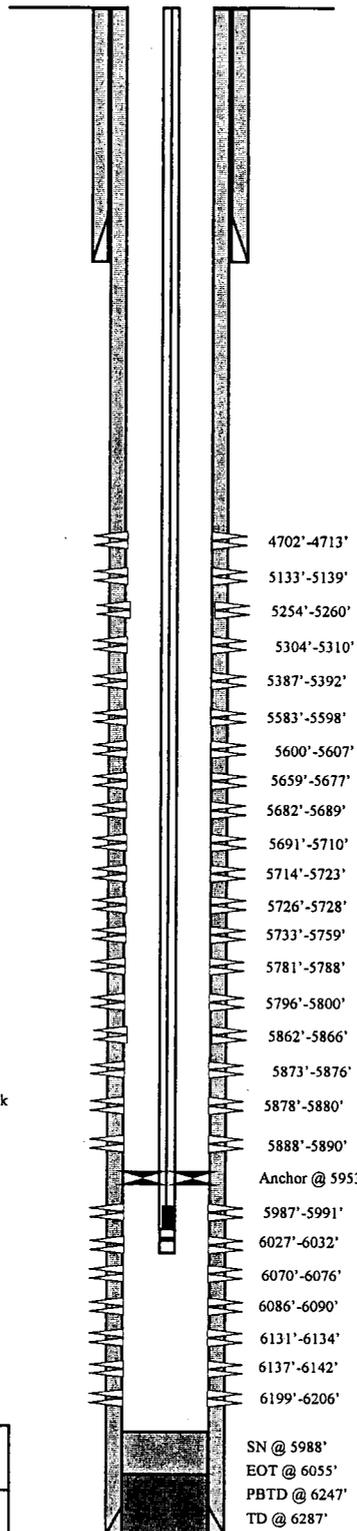
CSG SIZE: 5-1/2"
 GRADE: J-55
 WEIGHT: 15.5#
 LENGTH: 148 jts. (6264.68')
 DEPTH LANDED: 6263.68' KB
 HOLE SIZE: 7-7/8"
 CEMENT DATA: 300 sxs Prem. Lite II mixed & 550 sxs 50/50 POZ.
 CEMENT TOP AT: 270' per CBL

TUBING

SIZE/GRADE/WT.: 2-7/8" / J-55 / 6.5#
 NO. OF JOINTS: 183 jts (5943.19')
 TUBING ANCHOR: 5953.19'
 NO. OF JOINTS: 1 jt (32.53')
 SEATING NIPPLE: 2-7/8" (1.10')
 SN LANDED AT: 5988.52' KB
 NO. OF JOINTS: 2 jts (65.12')
 TOTAL STRING LENGTH: EOT @ 6055.19'

SUCKER RODS

POLISHED ROD: 1-1/2" x 22' SM
 SUCKER RODS: 6-1 1/2" weight bars; 10-3/4" scraper rods; 123-3/4" slick rods, 99-3/4" scraper rods, 1-2', 1-8' x 3/4" pony rods.
 PUMP SIZE: 2-1/2" x 1-1/2" x 14.5' RHAC
 STROKE LENGTH: 88"
 PUMP SPEED, SPM: 6 SPM
 LOGS: DIGL/SP/GR/CAL



FRAC JOB

4/22/02 5987'-6206' **Frac CP sands as follows:**
 75,000# 20/40 sand in 587 bbls Viking I-25 fluid. Treated @ avg press of 1560 psi w/avg rate of 26.8 BPM. ISIP 1880 psi. Calc. flush: 5987 gal. Actual flush: 5922 gal.

4/22/02 5659'-5800' **Frac Up LODC sands as follows:**
 251,766# 20/40 sand in 1646 bbls Viking I-25 fluid. Treated @ avg press of 2150 psi w/avg rate of 28.8 BPM. ISIP 2100 psi. Calc. flush: 5659 gal. Actual flush: 5586 gal.

4/23/02 5583'-5607' **Frac A1 sands as follows:**
 70,802# 20/40 sand in 552 bbls Viking I-25 fluid. Treated @ avg press of 1800 psi w/avg rate of 26.9 BPM. ISIP 1920 psi. Calc. flush: 5583 gal. Actual flush: 5502 gal.

4/23/02 5254'-5392' **Frac B/C/D sands as follows:**
 50,802# 20/40 sand in 426 bbls Viking I-25 fluid. Treated @ avg press of 1925 psi w/avg rate of 27 BPM. ISIP 1785 psi. Calc. flush: 5254 gal. Actual flush: 5187 gal.

4/23/02 5133'-5139' **Frac D1 sands as follows:**
 20,802# 20/40 sand in 243 bbls Viking I-25 fluid. Treated @ avg press of 1750 psi w/avg rate of 24.6 BPM. Screened out w/ 18,634# sand in fmn. 2168# in csg. Calc. flush: 5133 gal. Actual flush: 4746 gal.

4/23/02 4702'-4713' **Frac GB6 sands as follows:**
 30,802# 20/40 sand in 284 bbls Viking I-25 fluid. Treated @ avg press of 1950 psi w/avg rate of 27 BPM. Screened out at end of flush. Calc. flush: 4702 gal. Actual flush: 4620 gal.

4/26/02 5862'-5890' **Frac Lo LODC sands as follows:**
 19,400# 20/40 sand in 176 bbls Viking I-25 fluid. Treated @ avg press of 3945 psi w/avg rate of 15.4 BPM. ISIP 2200 psi. Calc. flush: 1483 gal. Actual flush: 1386 gal.

PERFORATION RECORD

Date	Depth Range	Tool	Holes
4/18/02	6199'-6206'	4 JSPF	28 holes
4/18/02	6137'-6142'	4 JSPF	20 holes
4/18/02	6131'-6134'	4 JSPF	12 holes
4/18/02	6086'-6090'	4 JSPF	16 holes
4/18/02	6070'-6076'	4 JSPF	24 holes
4/18/02	6027'-6032'	4 JSPF	20 holes
4/18/02	5987'-5991'	4 JSPF	16 holes
4/22/02	5796'-5800'	2 JSPF	08 holes
4/22/02	5781'-5788'	2 JSPF	14 holes
4/22/02	5733'-5759'	2 JSPF	52 holes
4/22/02	5726'-5728'	2 JSPF	04 holes
4/22/02	5714'-5723'	2 JSPF	18 holes
4/22/02	5691'-5710'	2 JSPF	38 holes
4/22/02	5682'-5689'	2 JSPF	14 holes
4/22/02	5659'-5677'	2 JSPF	36 holes
4/23/02	5600'-5607'	4 JSPF	28 holes
4/23/02	5583'-5598'	4 JSPF	60 holes
4/23/02	5387'-5392'	4 JSPF	20 holes
4/23/02	5304'-5310'	4 JSPF	24 holes
4/23/02	5254'-5260'	4 JSPF	24 holes
4/23/02	5133'-5139'	4 JSPF	24 holes
4/23/02	4702'-4713'	4 JSPF	44 holes
4/26/02	5888'-5890'	4 JSPF	08 holes
4/26/02	5878'-5880'	4 JSPF	08 holes
4/26/02	5862'-5866'	4 JSPF	12 holes
4/26/02	5866'	4 JSPF	16 holes

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 OIL, GAS AND MINING



Inland Resources Inc.

Greater Boundary Unit #4-27-8-17

660' FNL & 1285' FWL

NWNW Section 27-T8S-R17E

Duchesne Co, Utah

API #43-013-32230; Lease #UTU-76241

Greater Boundary Unit #5-27-8-17

Spud Date: 4/20/2001
 Put on Production: 6/30/2001
 GL: 5178' KB: 5188'

Initial Production: 209.8 BOPD, 172.4 MCFD,
 47.9 BWPD

Wellbore Diagram

SURFACE CASING

CSG SIZE: 8-5/8"
 GRADE: J-55
 WEIGHT: 24#
 LENGTH: 7 jts. (306.71')
 DEPTH LANDED: 302.31'
 HOLE SIZE: 12-1/4"
 CEMENT DATA: 265 sxs Class "G" cmt.

PRODUCTION CASING

CSG SIZE: 5-1/2"
 GRADE: J-55
 WEIGHT: 15.5#
 LENGTH: 147 jts. (6178.46')
 DEPTH LANDED: 6174.06'
 HOLE SIZE: 7-7/8"
 CEMENT DATA: 475 sk Prem. Lite II mixed & 400 sxs 50/50 POZ

TUBING

SIZE/GRADE/WT.: 2-7/8" / J-55 / 6.5#
 NO. OF JOINTS: 177 jts (5727.10')
 TUBING ANCHOR: 5737.10'
 NO. OF JOINTS: 2 jts (64.63')
 SEATING NIPPLE: 2-7/8" (1.10')
 SN LANDED AT: 5804.53' KB
 NO. OF JOINTS: 1 jt (32.20')
 TOTAL STRING LENGTH: EOT @ 5838.28'

SUCKER RODS

POLISHED ROD: 1-1/2" x 22' SM
 SUCKER RODS: 4-1 1/2" weight bars, 10-3/4" guided rods, 127-3/4" slick rods, 90-3/4" guided rods, 1-8", 1-6" x 3/4" pony rods.
 PUMP SIZE: 2-1/2" x 1-1/2" x 15.5" RHAC
 STROKE LENGTH: 68"
 PUMP SPEED, SPM: 5.5 SPM
 LOGS: DIGL/SP/GR/CAL

FRAC JOB

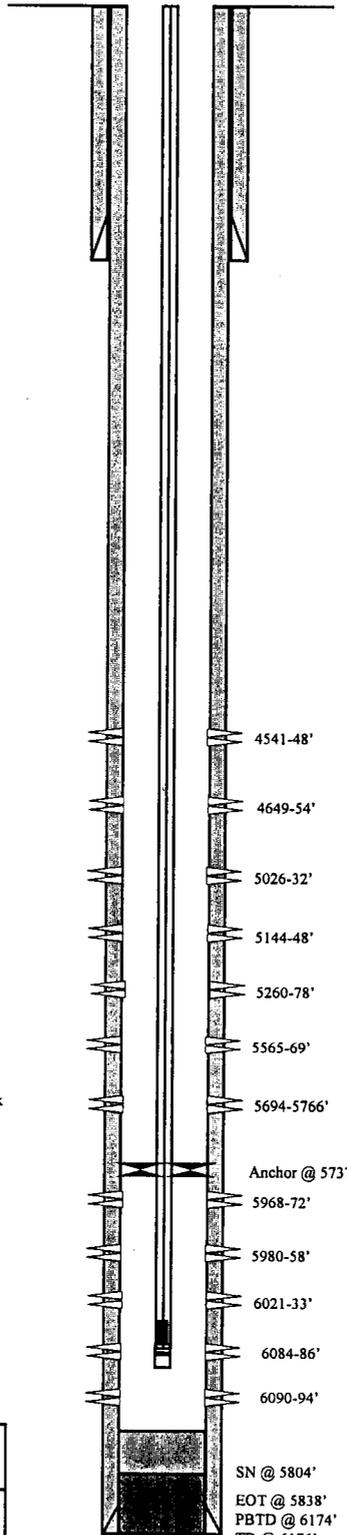
6/20/01 5968'-6086' **Frac CP sands as follows:**
 104,030# 20/40 sand in 755 bbls Viking I-25 fluid. Treated @ avg press of 1200 psi w/avg rate of 30.8 BPM. ISIP 1580 psi. Flowed for 8 hrs and died.

6/21/01 5694'-5766' **Frac LODC sands as follows:**
 405,030# 20/40 sand in 2273 bbls Viking I-25 fluid. Treated @ avg press of 1850 psi w/avg rate of 30.3 BPM. ISIP 2170 psi. Flowed for 15 hrs and died.

6/22/01 5260'-5278' **Frac C sands as follows:**
 122,540# 20/40 sand in 751 bbls Viking I-25 fluid. Treated @ avg press of 1550 psi w/avg rate of 31.3 BPM. ISIP 2625 psi. Flowed for 7.5 hrs and died.
 *Note: A-1 (5565-69') and D-2 (5144-48') did not break. Left unfraced.

6/25/01 4541'-5032' **Frac GB & D-1 sands as follows:**
 48,280# 20/40 sand in 367 bbls Viking I-25 fluid. Treated @ avg press of 2000 psi w/avg rate of 26.1 BPM. ISIP 1900 psi. Flowed for 2.5 hrs and died.

8/7/01 Pump change. Update rod & tubing details.



PERFORATION RECORD

Date	Depth Range	Tool Joint	Holes
6/19/01	6090'-6094'	4 JSPF	16 holes
6/19/01	6084'-6086'	4 JSPF	8 holes
6/19/01	6021'-6033'	4 JSPF	48 holes
6/19/01	5980'-5985'	4 JSPF	20 holes
6/19/01	5968'-5972'	4 JSPF	16 holes
6/21/01	5694'-5766'	4 JSPF	288 holes
6/22/01	5565'-5569'	4 JSPF	16 holes
6/22/01	5260'-5278'	4 JSPF	72 holes
6/22/01	5144'-5148'	4 JSPF	16 holes
6/25/01	5026'-5032'	4 JSPF	24 holes
6/25/01	4649'-4654'	4 JSPF	20 holes
6/25/01	4541'-4548'	4 JSPF	28 holes

Inland Resources Inc.
 Greater Boundary #5-27-8-17
 555' FWL & 1823' FNL
 SWNW Section 27-T8S-R17E
 Duchesne Co, Utah
 API #43-013-32225; Lease #UTU-76241

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BDH 8/10/01
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 OIL, GAS AND MINING

Greater Boundary Unit #6-27-8-17

Spud Date: 4/20/2001
 Put on Production: 6/18/2001
 GL: 5167' KB: 5177'

Wellbore Diagram

Initial Production: 66 BOPD, 35 MCFD, 15.5 BWPD

SURFACE CASING

CSG SIZE: 8-5/8"
 GRADE: J-55
 WEIGHT: 24#
 LENGTH: 7 jts. (300.05')
 DEPTH LANDED: 309.05'
 HOLE SIZE: 12-1/4"
 CEMENT DATA: 145 sxs Class "G" cmt, est 5 bbls cmt to surf

FRAC JOB

6/12/01 5961'-6182' **Frac CP sands as follows:**
 179,206# 20/40 sand in 1056 bbls Viking I-25 fluid. Treated @ avg press of 1018 psi w/avg rate of 29.8 BPM. ISIP 1820 psi. Flowed 11 hours and died.

6/13/01 5594'-5755' **Frac A/LODC sands as follows:**
 316,254# 20/40 sand in 1977 bbls Viking I-25 fluid. Treated @ avg press of 1920 psi w/avg rate of 31.8 BPM. ISIP 2080 psi. Flowed 14 hours and died.

6/14/01 4628'-4648' **Frac GB-6 sands as follows:**
 46,920# 20/40 sand in 387 bbls Viking I-25 fluid. Treated @ avg press of 1650 psi w/avg rate of 26.9 BPM. ISIP 2000 psi. Flowed 3 hours and died.

PRODUCTION CASING

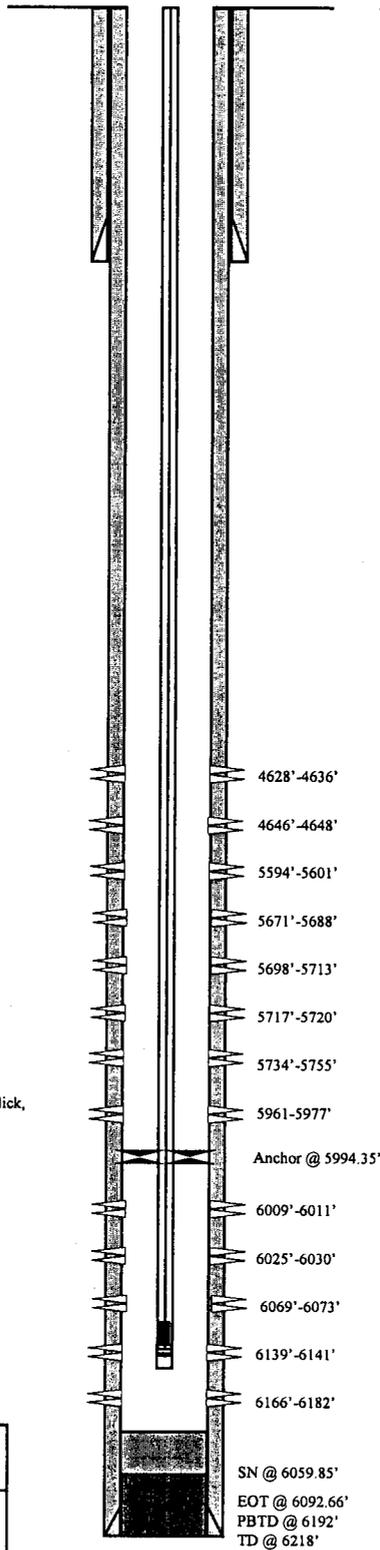
CSG SIZE: 5-1/2"
 GRADE: J-55
 WEIGHT: 15.5#
 LENGTH: 144 jts. (6219.33')
 DEPTH LANDED: 6213.43'
 HOLE SIZE: 7-7/8"
 CEMENT DATA: 435 sk Prem. Lite II mixed & 450 sxs 50/50 POZ.
 CEMENT TOP AT: ? per CBL

TUBING

SIZE/GRADE/WT.: 2-7/8" / J-55 / 6.5#
 NO. OF JOINTS: 190 jts (5984.35')
 TUBING ANCHOR: 5994.35'
 SEATING NIPPLE: 2-7/8" (1.10')
 SN LANDED AT: 6059.85' KB
 TOTAL STRING LENGTH: EOT @ 6092.66'

SUCKER RODS

POLISHED ROD: 1-1/2" x 22' SM
 SUCKER RODS: 4-1 1/2" weight bars; 10-3/4" scraped rods; 137-3/4" slick, 90-3/4" scraper rods, 1-2', 1-4', 1-6', 1-8' x 3/4" pony rods
 PUMP SIZE: 2-1/2" x 1-1/2" x 15' RHAC
 STROKE LENGTH: 73"
 PUMP SPEED, SPM: 5.5 SPM
 LOGS: DIGL/SP/GR/CAL



PERFORATION RECORD

Date	Depth Range	Tool	Holes
6/11/01	5961'-5977'	4 JSPF	64 holes
6/11/01	6009'-6011'	4 JSPF	8 holes
6/11/01	6025'-6030'	4 JSPF	20 holes
6/11/01	6069'-6073'	4 JSPF	16 holes
6/11/01	6139'-6141'	4 JSPF	8 holes
6/11/01	6166'-6182'	4 JSPF	64 holes
6/13/01	5594'-5601'	4 JSPF	28 holes
6/13/01	5671'-5688'	4 JSPF	68 holes
6/13/01	5717'-5720'	4 JSPF	60 holes
6/13/01	5698'-5713'	4 JSPF	12 holes
6/13/01	5734'-5755'	4 JSPF	84 holes
6/14/01	4628'-4636'	4 JSPF	32 holes
6/14/01	4646'-4648'	4 JSPF	8 holes



Inland Resources Inc.
 Greater Boundary Unit #6-27-8-17
 1804' FNL & 1996' FWL
 SENW Section 27-T8S-R17E
 Duchesne Co, Utah
 API #43-013-32231; Lease #UTU-76241

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 DIVISION OF OIL, GAS AND MINING

Tar Sands Federal #7-28

Spud Date: 6/22/98
 Put on Production: 8/8/98
 GL: 5196' KB: 5206'

Initial Production: 112 BOPD,
 196 MCFPD, 12 BWPD

Wellbore Diagram

SURFACE CASING

CSG SIZE: 8-5/8"
 GRADE: J-55
 WEIGHT: 24#
 LENGTH: 7 jts. (292.33')
 DEPTH LANDED: 292.83' GL
 HOLE SIZE: 12-1/4"
 CEMENT DATA: 120 sxs Class G cmt, est 4.5 bbls to surf.

PRODUCTION CASING

CSG SIZE: 5-1/2"
 GRADE: J-55
 WEIGHT: 15.5#
 LENGTH: 145 jts. (6165')
 DEPTH LANDED: 6176' KB
 HOLE SIZE: 7-7/8"
 CEMENT DATA: 360 sxs Premium Lite mixed & 400 sxs Class G
 CEMENT TOP AT: Surface per CBL

TUBING

SIZE/GRADE/WT.: 2-7/8" / J-55 / 6.5#
 NO. OF JOINTS: 182 jts
 TUBING ANCHOR: 5883'
 SEATING NIPPLE: 2-7/8" (1.10')
 TOTAL STRING LENGTH: EOT @ 6051'
 SN LANDED AT: 5985'

SUCKER RODS

POLISHED ROD: 1-1/2" x 22' SM
 SUCKER RODS: 4 - 1-1/2" weight rods, 4 - 3/4" scapered rods, 135 - 3/4" plain rods, 96 - 3/4" scapered rods. 1 - 8"x3/4" pony rod.
 PUMP SIZE: 2-1/2" x 1-1/2" x 16 RHAC
 STROKE LENGTH: 86"
 PUMP SPEED, SPM: 9 SPM
 LOGS: Dual Laterlog, GR, SP, Spectral Density-Dual Spaced Neutron, CBL-GR

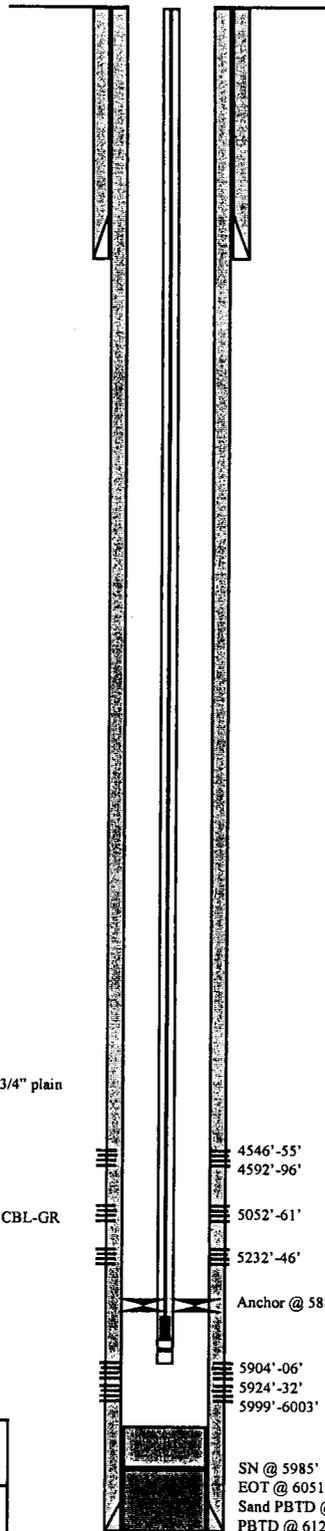
FRAC JOB

7/29/98 5904'-6003' **Frac CP sand as follows:**
 111,000# of 20/40 sand in 564 bbls
 Viking I-25 fluid. Prefrs broke down @
 2420 psi. Treated @ avg press of 1335
 psi w/avg rate of 29.9 bpm. ISIP: 1850
 psi, 5-min 1750 psi. Flowback on 12/64
 choke for 6 hours and died.

7/31/98 5232'-5246' **Frac C sand as follows:**
 104,500# of 20/40 sand in 531 bbls
 Viking I-25 fluid. Prefrs broke down @
 2920 psi. Treated @ avg press of 1620
 psi w/avg rate of 27.8 bpm. ISIP: 2420
 psi, 5-min 2200 psi. Flowback on 12/64
 choke for 3 hours and died.

8/3/98 5052'-5061' **Frac D sand as follows:**
 93,700# of 20/40 sand in 500 bbls
 Viking I-25 fluid. Prefrs broke down @
 2230 psi. Treated @ avg press of 1580
 psi w/avg rate of 26.3 bpm. ISIP: 2350
 psi, 5-min 1860 psi. Flowback on 12/64
 choke for 3 hours and died.

8/5/98 4546'-4596' **Frac GB sand as follows:**
 104,500# of 20/40 sand in 513 bbls
 Viking I-25 fluid. Prefrs broke down @
 3200 psi. Treated @ avg press of 1700
 psi w/avg rate of 28.8 bpm. ISIP: 2000
 psi, 5-min 1640 psi. Flowback on 12/64
 choke for 3-1/2 hours and died.



PERFORATION RECORD

Date	Depth Range	Tool Joint	Holes
7/28/98	5904'-5906'	4 JSPF	8 holes
7/28/98	5924'-5932'	4 JSPF	32 holes
7/28/98	5999'-6003'	4 JSPF	16 holes
7/30/98	5232'-5246'	4 JSPF	56 holes
8/1/98	5052'-5061'	4 JSPF	36 holes
8/4/98	4546'-4555'	4 JSPF	36 holes
8/4/98	4592'-4596'	4 JSPF	16 holes



Inland Resources Inc.
Tar Sands Federal #7-28
 2237 FNL 2031 FEL
 SWNE Section 28-T8S-R17E
 Duchesne Co, Utah
 API #43-013-32069; Lease #UTU-76241

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ATTACHMENT E

NAME AND DEPTH OF USDWs

For Class II wells, submit geologic name and depth to bottom of all underground sources of drinking water, which may be affected by the injection.

Due to the location and depth of the well, it will not affect any source of drinking water. See Attachments E-1 through E-3, showing pertinent water analyses.

Attachment E-1 Water analysis of the primary fluid to be injected (Unichem Water Analysis of the Johnson Water District, taken January 27, 2000)

Attachment E-2 Water Analysis of the formation fluid to be injected from the well

Attachment E-3 Analysis of the compatibility of the injected and formation water

Greater Boundary #3-27-8-17

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UNICHEM

A Division of BJ Services

P.O. Box 217
Roosevelt, Utah 84066

Office (435) 722-5066
Fax (435) 722-5727

Attachment E-1

WATER ANALYSIS REPORT

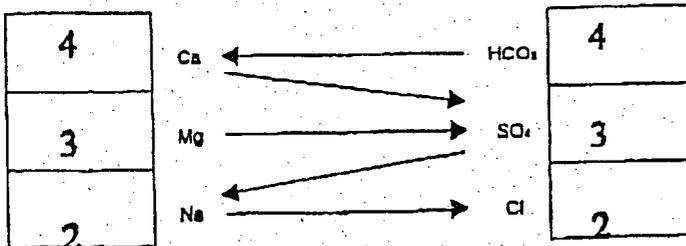
Company INLAND PRODUCTION Address _____ Date 1-27-00

Source JOHNSON Data Sampled 1-26-00 Analysis No. _____

	Analysis	mg/l(ppm)	*Mg/l	
1. PH	<u>7.4</u>			
2. H ₂ S (Qualitative)	<u>0.5</u>			
3. Specific Gravity	<u>1.001</u>			
4. Dissolved Solids		<u>600</u>		
5. Alkalinity (CaCO ₃)		<u>0</u>	+ 30 <u>0</u>	CO ₃
6. Bicarbonate (HCO ₃)		<u>240</u>	+ 61 <u>4</u>	HCO ₃
7. Hydroxyl (OH)		<u>0</u>	+ 17 <u>0</u>	OH
8. Chlorides (Cl)		<u>71</u>	+ 35.5 <u>2</u>	Cl
9. Sulfates (SO ₄)		<u>130</u>	+ 48 <u>3</u>	SO ₄
10. Calcium (Ca)		<u>72</u>	+ 20 <u>4</u>	Ca
11. Magnesium (Mg)		<u>41</u>	+ 12.2 <u>3</u>	Mg
12. Total Hardness (CaCO ₃)		<u>350</u>		
13. Total Iron (Fe)		<u>0.6</u>		
14. Manganese				
15. Phosphate Residuals				

*Milli equivalents per liter

PROBABLE MINERAL COMPOSITION



Compound	Equly. Wt.	X	Mg/l	=	Mg/l
Ca(HCO ₃) ₂	11.04	<u>4</u>			<u>324</u>
CaSO ₄	68.07				
CaCl ₂	55.50				
Mg(HCO ₃) ₂	73.17				
MgSO ₄	60.19	<u>3</u>			<u>181</u>
MgCl ₂	47.52				
NaHCO ₃	84.00				
Na ₂ SO ₄	71.03				
NaCl	58.48				

Saturation Values	Distilled Water 20°C
CaCO ₃	13 Mg/l
CaSO ₄ · 2H ₂ O	2,080 Mg/l
MgCO ₃	103 Mg/l

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REMARKS _____

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Analytical Laboratory Report for:
Inland Production



BJ Unichem
Chemical Services

UNICHEM Representative: Rick Crosby

Production Water Analysis

Listed below please find water analysis report from: GBU, 3-27-8-17

Lab Test No: 2001401963 Sample Date: 09/27/2001
Specific Gravity: 1.043
TDS: 65024
pH: 7.40

Cations:	mg/L	as:
Calcium	440	(Ca ⁺⁺)
Magnesium	72	(Mg ⁺⁺)
Sodium	24840	(Na ⁺)
Iron	40.00	(Fe ⁺⁺)
Manganese	0.20	(Mn ⁺⁺)
Anions:	mg/L	as:
Bicarbonate	732	(HCO ₃ ⁻)
Sulfate	0	(SO ₄ ⁻)
Chloride	38900	(Cl ⁻)
Gases:		
Carbon Dioxide		(CO ₂)
Hydrogen Sulfide	0	(H ₂ S)

Comments:

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DownHole SAT(tm)
MIXED WATER DEPOSITION POTENTIAL INDICATORS

Attachment E-3

1) Johnson Water

2) G.B. 3-27-8-17

Report Date: 09-27-2001

SATURATION LEVEL		MOMENTARY EXCESS (Lbs/1000 Barrels)	
Calcite (CaCO3)	11.72	Calcite (CaCO3)	2.99
Aragonite (CaCO3)	9.93	Aragonite (CaCO3)	2.94
Witherite (BaCO3)	0.00	Witherite (BaCO3)	-17.81
Anhydrite (CaSO4)	0.00	Anhydrite (CaSO4)	-816.90
Gypsum (CaSO4*2H2O)	0.00	Gypsum (CaSO4*2H2O)	-814.62
Barite (BaSO4)	0.00	Barite (BaSO4)	-8.37
Hydroxyapatite	0.00	Hydroxyapatite	-383.85
Iron hydroxide (Fe(OH)3)	0.00	Iron hydroxide (Fe(OH)3)	-0.192
Iron sulfide (FeS)	0.00	Iron sulfide (FeS)	-0.193

SIMPLE INDICES		BOUND IONS		TOTAL	FREE
Langelier	1.29	Calcium	440.55	391.28	
Stiff Davis Index	0.705	Barium	0.00	0.00	
		Carbonate	53.31	5.27	
		Phosphate	0.00	0.00	
		Sulfate	0.00	0.00	

OPERATING CONDITIONS

Temperature (°F) 100.00
Time (mins) 3.00

UNICHEM - Corporate Office
14505 Torrey Chase Boulevard, Houston, Texas 77014

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ATTACHMENT G

GEOLOGICAL DATA ON INJECTION AND CONFINING ZONES

For Class II wells, submit appropriate geological data on the injection zone and confining zones, including lithologic description, geological name, thickness, and depth and fracture pressure.

The proposed injection well produced from and will inject into the Green River formation. Water is sourced from the Johnson Water District and injected or is commingled with produced water at the Monument Butte Injection Facility and processed for individual well injection.

The injection zones are in the Green River formation, bounded by the Garden Gulch marker and the Basal Carbonate Marker. The Green River is composed of porous and permeable lenticular calcareous sandstone and low porosity carbonates and calcareous shales. At the Greater Boundary #3-27-8-17 location, the proposed injection zone is from 4138'-6204'. The porous and permeable lenticular sandstones vary in thickness from 0' – 31' and are confined to the Monument Butte area by low porosity calcareous shales and carbonates.

The confining strata directly above and below the injection zones are the top of the Garden Gulch formation and the Castle Peak formation in the Greater Boundary #3-27-8-17 well. The strata confining the injection zone are composed of tight, moderately calcareous, sandy lucustrine shales. All of the confining strata are impermeable, and will effectively seal off the oil, gas, and water of the injection zone from any strata directly above or below it.

The fracture pressure of the Greater Boundary #3-27-8-17 will be determined upon testing. The minimum fracture gradient calculates at 0.70 psig/ft. The maximum injection pressures will be limited so as not to exceed this gradient. A step rate test will be conducted upon injection and periodically thereafter to determine the actual fracture pressure. As the fracture pressure increases, we may elect to increase the injection pressure, but will not exceed the maximum of 1411 psig.

Communication Prevention:

The injection system will be equipped with high and low pressure shut down devices, which will automatically shut in injection waters if a system blockage or leakage occurs. One way check valves will also ensure proper flow management. Relief valves will also be utilized for high-pressure relief.

Attachment G-1 Formation Tops

Attachment G-2 Proposed Maximum Injection Pressure

Attachment G-3 Fracture Reports Dated 7/17, 7/18, 7/19 and 7/20/01

Attachment G-4 Drilling and Completion Reports Dated 5/30/01 through 6/7/01 and 7/15/01 through 7/24/01

Greater Boundary #3-27-8-17

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ATTACHMENT G-1
FORMATION TOPS
GREATER BOUNDARY #3-27-8-17

<u>FORMATION</u>	<u>DEPTH (ft)</u>
Uinta	Surface
Garden Gulch	4138'
Garden Gulch 2	4445'
Point Three Marker	4719'
X Marker	4947'
Y Marker	4980'
Douglas Creek	5122'
Bicarbonate Marker	5375'
B-Limestone	5516'
Castle Peak Limestone	5971'
Basal Carbonate	
Total Depth	6339'

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Attachment "G-2"

Greater Boundary #3-27-8-17
Proposed Maximum Injection Pressure

Frac Interval (feet)		Avg. Depth (feet)	ISIP (psi)	Calculated Frac Gradient (psi/ft)	Pmax
Top	Bottom				
6023	6204	6114	1880	0.74	1839
5846	5882	5864	2310	0.83	2290
5265	5621	5443	1470	0.70	1411 ←
5145	5150	5148	NA		
4821	4927	4874	2050	0.85	2017
				Minimum	<u>1411</u>

Calculation of Maximum Surface Injection Pressure
 $P_{max} = (Frac\ Grad - (0.433 * 1.005)) \times Depth\ of\ Top\ Perf$
 where pressure gradient for the fresh water is .433 psi/ft and
 specific gravity of the injected water is 1.005.

$Frac\ Gradient = (ISIP + (0.433 * Avg.\ Depth)) / Avg.\ Depth$

Please note: These are existing perforations; additional perforations may be added during the actual completion procedure.

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DAILY COMPLETION REPORT

WELL NAME: GBU 3-27-8-17

Report Date: July 20, 2001

Completion Day: 05 (b)

Present Operation: Completion

Rig: KEY # 965

WELL STATUS

Surf Csg: <u>8 5/8</u>	@ <u>305'</u>	Prod Csg: <u>5 1/2</u>	Wt: <u>15.5#</u>	@ <u>6311'</u>	Csg PBTD: <u>6287'</u>
Tbg: <u>Size: 2 7/8</u>	Wt: <u>6.5#</u>	Grd: <u>J-55</u>	EOT @: <u>0</u>	BP/Sand PBTD: <u>5650'</u>	BP/Sand PBTD: <u>4960'</u>

PERFORATION RECORD

Zone	Perfs	SPF/#shots	Zone	Perfs	SPF/#shots
PB8 sds	<u>4821-4827'</u>	<u>4/24</u>	LDC sds	<u>5846-5852'</u>	<u>4/24</u>
PB11 sds	<u>4920-4927'</u>	<u>4/28</u>	LDC sds	<u>5855-5860'</u>	<u>4/20</u>
D1 sds	<u>5145-5150'</u>	<u>4/20</u>	LDC sds	<u>5864-5882'</u>	<u>4/72</u>
D sds	<u>5265-5271'</u>	<u>4/24</u>	CP1 sds	<u>6023 - 6034</u>	<u>4/44</u>
C sds	<u>5328-5332'</u>	<u>4/16</u>	CP2 sds	<u>6067 - 6074'</u>	<u>4/36</u>
C sds	<u>5336-5340'</u>	<u>4/16</u>	CP2 sds	<u>6084 - 6091</u>	<u>4/28</u>
A1 sds	<u>5615-5621'</u>	<u>4/24</u>	CP3 sds	<u>6136 - 6139'</u>	<u>4/12</u>
			CP4 sds	<u>6200 - 6204'</u>	<u>4/16</u>

CHRONOLOGICAL OPERATIONS

Date Work Performed: July 19, 2001 SITP: _____ SICP: 0

RU Schlumberger and run 5 1/2" CE RBP & 4" perf guns. Set plug @ 4960'. Pressure test plug to 2000 psi. Perf PB11 sds @ 4920-27' & PB8 sds @ 4821-27' W/ 4 JSPF. All 1 run. RD WLT. TIH W/ 5 1/2" HD pkr & tbg. Tbg displaced 11 BW on TIH. Set pkr @ 4863'. Breakdn perfs 4920-27' (dn tbg) @ 4500 psi. Inject @ 2.5 BPM @ 3000 psi. Attempt to breakdn perfs 4821-27' (dn csg) W/ 4800 psi max pressure--no success. Release pkr. Pull EOT to 4839'. RU BJ & spot 55 gals 15% HCL acid dn tbg & across perfs @ 4821-27'. RIH W/ pkr & re-set @ 4863'. Breakdn perfs @ 2800 psi. Inject @ 4.8 BPM @ 1800 psi. Used 4 BW for breakdowns. Release pkr. TOH W/ tbg. LD pkr. RU BJ Services and frac PB sds W/ 54,260# 20/40 sand in 447 bbls Viking I-25 fluid. Treated @ ave press of 1943 psi W/ ave rate of 29.8 BPM. ISIP-2050 psi. RD BJ. Begin immediate flowback of PB frac on 12/64 choke @ 1 BPM. Zone flowed 3 hrs & died. Rec 118 BTF (est 26% of frac load). SIFN W/ est 1830 BWTR.

FLUID RECOVERY (BBLs)

Starting fluid load to be recovered: <u>1508</u>	Starting oil rec to date: <u>0</u>
Fluid lost/recovered today: <u>322</u>	Oil lost/recovered today: _____
Ending fluid to be recovered: <u>1830</u>	Cum oil recovered: <u>0</u>
IFL: _____ FFL: _____ FTP: _____	Choke: <u>12/64</u> Final Fluid Rate: _____ Final oil cut: _____

STIMULATION DETAIL

Base Fluid used: Viking I-25 Job Type: Sand frac

Company: BJ Services

Procedure or Equipment detail: PB8 & PB11 sands

4400 gals of pad

3000 gals W/ 1-5 ppg of 20/40 sand

6000 gals W/ 5-8 ppg of 20/40 sand

618 gals W/ 8 ppg of 20/40 sand

Flush W/ 4746 gals of slick water

COSTS

KES rig	<u>\$1,593</u>
RBP rental	<u>\$850</u>
Schlumberger-PB sds	<u>\$2,674</u>
BJ Services-PB sds	<u>\$24,708</u>
Frac water (piped)	<u>\$100</u>
Fuel gas (+/- 30 mcf)	<u>\$150</u>
IPC frac tks (4 X 5 days)	<u>\$800</u>
IPC frac head rental	<u>\$200</u>
IPC flowback super	<u>\$150</u>
IPC Supervision	<u>\$100</u>

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Max TP: 2650 Max Rate: 30 BPM Total fluid pmpd: 447 bbls

Avg TP: 1943 Avg Rate: 29.8 BPM Total Prop pmpd: 54,260#

ISIP: 2050 5 min: _____ 10 min: _____ FG: .83

Completion Supervisor: Gary Dietz

DAILY COST: DIVISION OF 31,325

TOTAL WELL COST: OIL GAS AND MINING 371,466



DAILY COMPLETION REPORT

WELL NAME: GBU 3-27-8-17

Report Date: July 20, 2001

Completion Day: 05 (a)

Present Operation: Completion

Rig: KEY # 965

WELL STATUS

Surf Csg: <u>8 5/8</u>	@ <u>305'</u>	Prod Csg: <u>5 1/2</u>	Wt: <u>15.5#</u>	@ <u>6311'</u>	Csg PBTB: <u>6287'</u>
Tbg: <u>Size: 2 7/8</u>	Wt: <u>6.5#</u>	Grd: <u>J-55</u>	EOT @: <u>0</u>	BP/Sand PBTB: <u>5650'</u>	BP/Sand PBTB: <u>5215'</u>

PERFORATION RECORD

Zone	Perfs	SPF/#shots	Zone	Perfs	SPF/#shots
D1 sds	<u>5145-5150'</u>	<u>4/20</u>	CP1 sds	<u>6023 - 6034</u>	<u>4/44</u>
D sds	<u>5265-5271'</u>	<u>4/24</u>	CP2 sds	<u>6067 - 6074'</u>	<u>4/36</u>
C sds	<u>5328-5332'</u>	<u>4/16</u>	CP2 sds	<u>6084 - 6091</u>	<u>4/28</u>
C sds	<u>5336-5340'</u>	<u>4/16</u>	CP3 sds	<u>6136 -6139'</u>	<u>4/12</u>
A1 sds	<u>5615-5621'</u>	<u>4/24</u>	CP4 sds	<u>6200 - 6204'</u>	<u>4/16</u>
LDC sds	<u>5846-5852'</u>	<u>4/24</u>			
LDC sds	<u>5855-5860'</u>	<u>4/20</u>			
LDC sds	<u>5864-5882'</u>	<u>4/72</u>			

CHRONOLOGICAL OPERATIONS

Date Work Performed: July 19, 2001 SITP: _____ SICP: 0

RU Schlumberger and run 5 1/2" CE RBP & 4" perf gun. Set plug @ 5215'. Pressure test plug to 2000 psi. Perf D1 sds @ 5145-50' W/ 4 JSPF. All 1 run. RU BJ Services and frac D1 sds W/ 26,200# 20/40 sand in 234 bbls Viking I-25 fluid. Perfs broke dn @ 1500 psi. Treated @ ave press of 1900 psi W/ ave rate of 21.8 BPM. Screened out W/ 6.5# sd on formation W/ 3150 gals flushed (1995 gals short of top perf). Est 16,185# sd in perfs & 10,015# sd left in csg. RD BJ. Flowback frac 30 mins & died. Rec 30 BTF (est 13% of frac load). TIH W/ RH & tbg. Tbg displaced 12 BW on TIH. Stage out sd laden fluid to 5158' (solid). C/O sd to RBP @ 5215'. Release plug. TOH W/ tbg--LD plug. Est 1508 BWTR.

See day 5(b)

FLUID RECOVERY (BBLs)

Starting fluid load to be recovered: <u>1316</u>	Starting oil rec to date: <u>0</u>
Fluid lost/recovered today: <u>192</u>	Oil lost/recovered today: _____
Ending fluid to be recovered: <u>1508</u>	Cum oil recovered: <u>0</u>
IFL: _____ FFL: _____ FTP: _____	Choke: <u>12/64</u> Final Fluid Rate: _____ Final oil cut: _____

STIMULATION DETAIL

Base Fluid used: Viking I-25 Job Type: Sand frac
 Company: BJ Services
 Procedure or Equipment detail: D1 sands
1900 gals of pad
1500 gals W/ 1-5 ppg of 20/40 sand
3288 gals W/ 5-8 ppg of 20/40 sand
Flush W/ 3150 gals of slick water (1995 gals short of top perf)
Screened out W/ 6.5 ppg sd on formation
Est 16,185# sd in perfs, left 10,015# sd in csg

COSTS

KES rig	<u>\$1,593</u>
Weatherford-BOP	<u>\$130</u>
Schlumberger-D1 sds	<u>\$2,460</u>
BJ Services-D1 sds	<u>\$20,243</u>
Frac water (piped)	<u>\$100</u>
Fuel gas (+/- 30 mcf)	<u>\$150</u>
RBP rental	<u>\$850</u>
IPC Supervision	<u>\$100</u>

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Max TP: 4280 Max Rate: 22.1 BPM Total fluid pmpd: 234 bbls
 Avg TP: 1900 Avg Rate: 21.8 bpm Total Prop pmpd: 26,200#
 ISIP: NA 5 min: _____ 10 min: _____ FG: NA
 Completion Supervisor: Gary Dietz

DIVISION OF
 DAILY COST, OIL, GAS AND MINING
 TOTAL WELL COST: \$340,141



Attachment G-3
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DAILY COMPLETION REPORT

WELL NAME: GBU 3-27-8-17 Report Date: July 19, 2001 Completion Day: 04

Present Operation: Completion Rig: KEY # 965

WELL STATUS

Surf Csg: 8 5/8 @ 305' Prod Csg: 5 1/2 Wt: 15.5# @ 6311' Csg PBTD: 6287'
Tbg: Size: 2 7/8 Wt: 6.5# Grd: J-55 EOT @: 0 BP/Sand PBTD: 5650'

PERFORATION RECORD

Zone	Perfs	SPF/#shots	Zone	Perfs	SPF/#shots
D sds	<u>5265-5271'</u>	<u>4/24</u>	CP1 sds	<u>6023 - 6034</u>	<u>4/44</u>
C sds	<u>5328-5332'</u>	<u>4/16</u>	CP2 sds	<u>6067 - 6074'</u>	<u>4/36</u>
C sds	<u>5336-5340'</u>	<u>4/16</u>	CP2 sds	<u>6084 - 6091</u>	<u>4/28</u>
A1 sds <i>NOT BRILLIANT</i>	<u>5615-5621'</u>	<u>4/24</u>	CP3 sds	<u>6136 - 6139'</u>	<u>4/12</u>
LDC sds	<u>5846-5852'</u>	<u>4/24</u>	CP4 sds	<u>6200 - 6204'</u>	<u>4/16</u>
LDC sds	<u>5855-5860'</u>	<u>4/20</u>			
LDC sds	<u>5864-5882'</u>	<u>4/72</u>			

CHRONOLOGICAL OPERATIONS

Date Work Performed: July 18, 2001 SITP: _____ SICP: 0

RU Schlumberger and perf A1 sds @ 5615-21', C sds @ 5336-40' & 5328-32' and D sds @ 5265-71'. All 4 JSPF. 1 run. RD WLT. TIH W/ RH, tbg sub, 5 1/2" HD pkr & tbg. Tbg displaced 12 BW on TIH. Tag sd @ 5913". C/O sd to RBP @ 5993'. Circ hole clean W/ no fluid loss. Release plug. Move tools, isolate & breakdown intervals as follows: A1 sds (5615-21') Made several unsuccessful attempts to break perfs W/ 5500 psi max pressure (decision made to leave). C sds (5328-32' & 5336-40') brokedn @ 3500 psi. Injected @ 3.6 BPM @ 1800 psi. D sds (5265-71') brokedn @ 3800 psi. Injected @ 3.8 BPM @ 2100 psi. Used 4 BW for breakdowns. Release plug. Reset @ 5650'. Press test to 3000 psi. TOH W/ tbg--LD pkr. RU BJ Services and frac A/C/D sds W/ 64,220# 20/40 sand in 512 bbls Viking I-25 fluid. Treated @ ave press of 1450 psi W/ ave rate of 29.9 BPM. ISIP-1470 psi. RD BJ. Begin immediate flowback of A/C/D frac on 12/64 choke @ 1 BPM. Zone flowed 4 3/4 hrs & died. Rec 228 BTF (est 44% of frac load). SIFN W/ est 1316 BWTR.

FLUID RECOVERY (BBLs)

Starting fluid load to be recovered: 1040 Starting oil rec to date: 0
Fluid lost/recovered today: 276 Oil lost/recovered today: _____
Ending fluid to be recovered: 1316 Cum oil recovered: 0
IFL: _____ FFL: _____ FTP: _____ Choke: 12/64 Final Fluid Rate: _____ Final oil cut: _____

STIMULATION DETAIL

Base Fluid used: Viking I-25 Job Type: Sand frac

Company: BJ Services

Procedure or Equipment detail: A/C/D sands

- 4800 gals of pad
- 3250 gals W/ 1-5 ppg of 20/40 sand
- 6500 gals W/ 5-8 ppg of 20/40 sand
- 1800 gals W/ 8 ppg of 20/40 sand
- Flush W/ 5166 gals of slick water

COSTS

KES rig	<u>\$2,645</u>
Weatherford-BOP	<u>\$130</u>
Schlumberger-A/C/D sd	<u>\$1,820</u>
BJ Services-A/C/D sds	<u>\$26,294</u>
Frac water (piped)	<u>\$100</u>
Fuel gas (+/- 30 mcf)	<u>\$150</u>
IPC flowback super	<u>\$150</u>
IPC Supervision	<u>\$200</u>

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Max TP: 2050 Max Rate: 30.3 BPM Total fluid pmpd: 512 bbls

Avg TP: 1450 Avg Rate: 29.9 BPM Total Prop pmpd: 64,220#

ISIP: 1470 5 min: _____ 10 min: _____ FG: .70

Completion Supervisor: Gary Dietz

DIVISION OF OIL AND GAS AND MINING
DAILY OPERATIONS \$31,489

TOTAL WELL COST: \$314,515



Attachment
G-3, Page 4 of 5

DAILY COMPLETION REPORT

WELL NAME: GBU 3-27-8-17 Report Date: July 18, 2001 Completion Day: 03

Present Operation: Completion Rig: KEY # 965

WELL STATUS

Surf Csg: 8 5/8 @ 305' Prod Csg: 5 1/2 Wt: 15.5# @ 6311' Csg PBTD: 6287'
Tbg: Size: 2 7/8 Wt: 6.5# Grd: J-55 EOT @: 0 BP/Sand PBTD: 5993'

PERFORATION RECORD

Zone	Perfs	SPF/#shots	Zone	Perfs	SPF/#shots
LDC sds	<u>5846-5852'</u>	<u>4/24</u>	CP1 sds	<u>6023 - 6034</u>	<u>4/44</u>
LDC sds	<u>5855-5860'</u>	<u>4/20</u>	CP2 sds	<u>6067 - 6074'</u>	<u>4/36</u>
LDC sds	<u>5864-5882'</u>	<u>4/72</u>	CP2 sds	<u>6084 - 6091</u>	<u>4/28</u>
			CP3 sds	<u>6136 -6139'</u>	<u>4/12</u>
			CP4 sds	<u>6200 - 6204'</u>	<u>4/16</u>

CHRONOLOGICAL OPERATIONS

Date Work Performed: July 17, 2001 SITP: _____ SICP: 0

TIH W/ RH & tbg. Tbg displaced 13 BW on TIH. Tag sd @ 6115'. C/O sd to RBP @ 6229'. Circ hole clean. Lost no fluid. Pull up & re-set plug @ 5993'. Pressure test plug to 3000 psi. TOH W/ RH & tbg. RU Schlumberger and perf LDC sds @ 5846-52', 5855-60' & 5864-82' W/ 4 JSPF. 3 runs (incl 1 misrun). RD WLT. RU BJ Services and frac LDC sds W/ 120,220# 20/40 sand in 839 bbls Viking I-25 fluid. Perfs broke dn @ 3101 psi. Treated W/ ave press of 2050 psi W/ ave rate of 29.7 BPM. ISIP-2310 psi. RD BJ. Begin immediate flowback of LDC frac on 12/64 choke @ 1 BPM. Zone flowed 7 1/2 hrs & died. Rec 412 BTF (est 49% of frac load). SIFN W/ est 1040 BWTR.

FLUID RECOVERY (BBLs)

Starting fluid load to be recovered: 626 Starting oil rec to date: 0
Fluid lost/recovered today: 414 Oil lost/recovered today: _____
Ending fluid to be recovered: 1040 Cum oil recovered: 0
IFL: _____ FFL: _____ FTP: _____ Choke: 12/64 Final Fluid Rate: _____ Final oil cut: _____

STIMULATION DETAIL

Base Fluid used: Viking I-25 Job Type: Sand frac
Company: BJ Services

Procedure or Equipment detail: LDC sands
9000 gals of pad
6000 gals W/ 1-5 ppg of 20/40 sand
12000 gals W/ 5-8 ppg of 20/40 sand
2496 gals W/ 8 ppg of 20/40 sand
Flush W/ 5754 gals of slick water

COSTS

KES rig	<u>\$2,645</u>
Weatherford-BOP	<u>\$130</u>
Schlumberger-LDC sds	<u>\$3,294</u>
BJ Services-LDC sds	<u>\$35,599</u>
Frac water (piped)	<u>\$100</u>
Fuel gas (+/- 30 mcf)	<u>\$150</u>
Blck Dmnd-wtr/gas line	<u>\$300</u>
IPC flowback super	<u>\$215</u>
IPC Supervision	<u>\$200</u>

Max TP: 2668 Max Rate: 30 BPM Total fluid pmpd: 839 bbls
Avg TP: 2050 Avg Rate: 29.7 BPM Total Prop pmpd: 120,220#
ISIP: 2310 5 min: _____ 10 min: _____ FG: .83
Completion Supervisor: Gary Dietz

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DAILY COST: \$42,633

TOTAL JOB COST: \$283,026
OIL, GAS AND MINING



DAILY COMPLETION REPORT

WELL NAME: GBU 3-27-8-17

Report Date: July 17, 2001

Completion Day: 02

Present Operation: Completion

Rig: KEY # 965

WELL STATUS

Surf Csg: 8 5/8 @ 305' Prod Csg: 5 1/2 Wt: 15.5# @ 6311' Csg PBTD: 6287'
Tbg: Size: 2 7/8 Wt: 6.5# Grd: J-55 EOT @: 0 BP/Sand PBTD: 6229'

PERFORATION RECORD

Zone	Perfs	SPF/#shots	Zone	Perfs	SPF/#shots
			CP1 sds	6023 - 6034	4/44
			CP2 sds	6067 - 6074'	4/36
			CP2 sds	6084 - 6091	4/28
			CP3 sds	6136 - 6139'	4/12
			CP4 sds	6200 - 6204'	4/16

CHRONOLOGICAL OPERATIONS

Date Work Performed: July 16, 2001

SITP: _____ SICP: 0

Con't TIH W/ 5 1/2" TS RBP, tbg sub, 5 1/2" HD pkr & tbg. Isolate & breakdown CP sds as follows: perfs 6200-04' broke dn @ 3500 psi. Injected @ 2.7 BPM @ 2300 psi. Perfs 6136-39' brokedn @ 4000 psi, injected @ 2.6 BPM @ 2800 psi. Perfs 6084-91' brokedn @ 3100 psi. Injected @ 3.7 BPM @ 1750 psi. Perfs 6067-74' brokedn @ 2800 psi. Injected @ 3.7 BPM @ 1800 psi. Perfs 6023-34' brokedn @ 2700 psi. Injected @ 4.8 BPM @ 1500 psi. Used 10 BW for breakdowns. Reset plug @ 6229'. TOH W/ tbg. LD pkr & RH. RU BJ Services and frac CP sds W/ 130,000# 20/40 sand in 768 bbls Viking I-25 fluid. Treated @ ave press of 1550 psi W/ ave rate of 35.5 BPM. ISIP-1870 psi. RD BJ. Begin immediate flowback of CP frac on 12/64 choke @ 1 BPM. Zone flowed 6 1/2 hrs & died. Rec 290 BTF (est 38% of frac load). SIFN W/ est 626 BWTR.

FLUID RECOVERY (BBLs)

Starting fluid load to be recovered: 138 Starting oil rec to date: 0
Fluid lost/recovered today: 488 Oil lost/recovered today: _____
Ending fluid to be recovered: 626 Cum oil recovered: 0
IFL: _____ FFL: _____ FTP: _____ Choke: 12/64 Final Fluid Rate: _____ Final oil cut: _____

STIMULATION DETAIL

COSTS

Base Fluid used: <u>Viking I-25</u> Job Type: <u>Sand frac</u>	KES rig	\$3,005
Company: <u>BJ Services</u>	Weatherford-BOP	\$130
Procedure or Equipment detail:	Schlumberger-CBL	\$2,385
<u>8000 gals of pad</u>	Zubiate--HO trk	\$200
<u>4000 gals W/ 1-5 ppg of 20/40 sand</u>	Aztec--2 7/8 J-55 tbg	\$19,453
<u>8000 gals W/ 5-8 ppg of 20/40 sand</u>	Drilling cost	\$165,283
<u>4000 gals W/ 8-10 ppg of 20/40 sand</u>	Weatherford-tools/serv	\$3,500
<u>2270 gals W/ 10 ppg of 20/40 sand</u>	IPC-water & truck	\$300
<u>Flush W/ 5964 gals of slick water</u>	BJ Services--CP sds	\$35,451
	Cameron-tbg head	\$1,500
	Fuel gas (+/- 45 mcf)	\$225
Max TP: <u>2190</u> Max Rate: <u>36 BPM</u> Total fluid pmpd: <u>768 bbls</u>	Frac water (piped)	\$100
Avg TP: <u>1550</u> Avg Rate: <u>35.5 BPM</u> Total Prop pmpd: <u>130,000#</u>	IPC Supervision	\$200
ISIP: <u>1870</u> 5 min: _____ 10 min: _____ FG: <u>.74</u>	COST:	\$231,732
Completion Supervisor: <u>Gary Dietz</u>	TOTAL WELL COST:	\$240,393

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DAILY DRILLING REPORT

GRTR BDRY 3-27

NE/NW Section 27 - T8S - R17E
Duchesne Co., UT
API # 43-013-32224

Spud Dat 5/28/01
TD 6311'
Drlg Rig Ross #14

Report Date 4/17/01 Days Since Spud 0 Depth: 305 Footage 0'

Time	Operation
0.00 HRS	WELL WAS SPUD ON 4/16/01 @ 10AM BY ROSS #14
0.00 HRS	Drill 305' of 12 1/4" hole, set 8 jts 8 5/8" 24# SC & T csg. Set @ 302.33/KB
0.00 HRS	4/19/01 Cement on W/ 145 sks Class G cmt W/2% CaCl2, 1/4#/sk Cello-flake
0.00 HRS	mixed @ 15.8 ppg W/1.17 cf/sk yield. Had good returns throughout job W/no cement
0.00 HRS	to surface.
0.00 HRS	04/20/01 RU 1" @ 45' EOT. Top off surface w/ 7.3 bbls (3 sks)
0.00 HRS	2 bbls cement to surface wt @ 14.4 ppg. No level fall detected

Daily Cost \$19,554 Cumulative Cost \$19,554

Report Date 5/30/01 Days Since Spud 1 Depth: 1103 Footage 844'

Time	Operation
0.00 HRS	MIRU Union #14. Set equipment. Nipple up. Pressure test, BOP's
8.00 HRS	Kelly, TIW, Choke manifold to 2,000 psi. Test 8 5/8" csg to 1,500 psi.
3.50 HRS	PU & MU bit #1, BHA Tag cement top @ 259' Drill out cement & shoe
4.50 HRS	Drill 7.875" hole w/ air mist to a depth of 542'
0.25 HRS	Change over to drill pipi & install drivers
3.00 HRS	Rig Service & survey
4.25 HRS	Drill 7.875 hole w/air mist to a depth of 1,103'

Daily Cost \$10,778 Cumulative Cost \$30,332

Report Date 6/1/01 Days Since Spud 2 Depth: 2001 Footage 899'

Time	Operation
3.00 HRS	Drill 7.875 hole w.air mist to a depth of 1258'
1.00 HRS	Service rig & Survey
1.25 HRS	Cut & slip drill line
7.00 HRS	Drill 7.875 hole w/air mist to a depth of 1723 HIT WATER @ 1529'
0.25 HRS	Survey
2.50 HRS	Work on mud pump
1.00 HRS	Drill 7.875 hole w/fluid to a depth of 1754'
1.00 HRS	Work on yellow dog pump
1.75 HRS	Drill 7.875 hole w/fluid to a depth of 1817'
1.00 HRS	Work on mud pump
4.25 HRS	4.25
4.25 HRS	Drill 7.875 hole w/fluid to a depth of 2002

Daily Cost \$10,988 Cumulative Cost \$41,320

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DAILY DRILLING REPORT

Report Date	6/2/01	Days Since Spud	3	Depth:	2947	Footage	945'
Time	Operation						
2.25	HRS	Drill 7.875 hole w/fluid to a depth of 2127'					
1.00	HRS	Service rig/survey					
2.50	HRS	Drill 7.875 hole w/fluid to a depth of 2252'					
0.50	HRS	Survey					
11.75	HRS	Drill 7.875 hole with fluid to a depth of 2749'					
0.50	HRS	Survey & rig service					
5.50	HRS	Drill 7.875 hole w/fluid to a depth of 2947'					
0.00	HRS	HIT WATER @ 1529'					

Daily Cost \$18,190 Cumulative Cost \$59,510

Report Date	6/3/01	Days Since Spud	4	Depth:	3592	Footage	645'
Time	Operation						
2.50	HRS	Drill 7.875 hole w/fluid to a depth of 3082'					
1.25	HRS	Service rig & survey					
5.25	HRS	Drill 7.875 hole w/ fluid to a depth of 3245'					
0.50	HRS	Survey & rig service					
10.50	HRS	Drill 7.875 hole with fluid to a depth of 3592'					
0.50	HRS	Circulate & Condition hole for trip out					
2.25	HRS	TOH pick up mud motor and bit #2					
1.25	HRS	Change out brake pads drawworks					
0.00	HRS	HIT WATER @ 1529'					

Daily Cost \$8,460 Cumulative Cost \$67,970

Report Date	6/4/01	Days Since Spud	5	Depth:	4325	Footage	733'
Time	Operation						
5.50	HRS	Change out brake pads on Drawworks					
		2.5					
		TIH w/ mudmotor & bit # 2					
2.50	HRS	TIH w/ mudmotor & bit #2					
1.00	HRS	Was 45' to bottom (no fill)					
4.00	HRS	Drill 7.875 hole w/ fluid to a depth of 3,766'					
0.75	HRS	Survey					
2.75	HRS	Drill 7.875 hole w/fluid to a depth of 3953'					
0.50	HRS	Rig service and pump					
4.75	HRS	Drill 7.875 hole w/fluid to a depth of 4261					
0.75	HRS	Survey					
1.50	HRS	Drill 7.875 hole w/fluid to a depth 4325					
0.00	HRS	HIT WATER @ 1529'					

Daily Cost \$8,996 Cumulative Cost \$76,966

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DIVISION OF
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DAILY DRILLING REPORT

Report Date 6/5/01 **Days Since Spud** 6 **Depth:** 5295 **Footage** 970'

Time	Operation
6.00 HRS	Drill 7 7/8" hole w/ water based mud to a depth of 4661'
0.25 HRS	Rig Service
1.75 HRS	Drill 7 7/8" hole w/water based mud to a depth of 4758'
0.75 HRS	Survey
2.50 HRS	Drill 7 7/8" hole w/water based mud to a depth of 4883'
0.25 HRS	repair iar leak on rig
10.00 HRS	Drill 7 7/8" hole w/water based mud to a depth of 5255'
1.00 HRS	Survey & rig service
1.50 HRS	Drill 7 7/8" hole w/water based mud to a depth of 5295'
0.00 HRS	HIT WATER @ 1529'

Daily Cost \$11,840 Cumulative Cost \$88,806

Report Date 6/6/01 **Days Since Spud** 7 **Depth:** 5985 **Footage** 690'

Time	Operation
2.50 HRS	Drill 7 7/8" hole w/ water based mud to a depth of 5410'
0.25 HRS	Service pump
11.75 HRS	Drill 7 7/8" hole with water based mud to a depth of 5753'
0.75 HRS	Survey & rig service
2.50 HRS	Drill 7 7/8" hole w/ water based mud to a depth of 5816'
0.50 HRS	Service rig & pump
1.25 HRS	Drill 7 7/8" hole w/ water based mud to a depth of 5875'
0.50 HRS	Work on mud pump
4.00 HRS	Drill 7 7/8" hole with water based mud to a depth of 5985'
0.00 HRS	HIT WATER @ 1529'

Daily Cost \$8,480 Cumulative Cost \$97,286

Report Date 6/7/01 **Days Since Spud** 8 **Depth:** 6311 **Footage** 326'

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Attachment G-4
Page 4 of 8

DAILY DRILLING REPORT

Time	Operation
2.50	HRS Drill 7 7/8" hole w/water based mud to a depth of 6060'
0.25	HRS Service pump
9.75	HRS Drill 7 7/8" hole w/water based mud to a depth of 6311'
0.00	HRS TD WELL 6311' @ 6:30 ON 6-6-01
1.25	HRS Circulate & condition hole-Drop survey
4.25	HRS LD drill pipe & B.H.A.
5.00	HRS Rig PSI run Digl/SP/GR Suite & Cd/Cal. Open hole log.
3.50	HRS TIH w/ Guide shoe, 1 jt float collar, 150 jts 5 1/2" J-55 15.5# Csg
1.00	HRS Set @ 6299'/KB C&C hole 1.5x RU BJ and cement csg w/ 367* sks permlite II w/ .5% sms
0.00	HRS 10% get, 3#sk BA90 3# SK kolseal 3% Kcl 1/4# sk cello flake, .05#sk static free mix
0.00	HRS @11.0 ppg>w/3.43 cf/sk yld. 525* sks 50/50 poz, w/3% kcl, 1/4#sk cello flake 3% sms
0.00	HRS .05# sk static free-mixed @ 14.2 ppg>W/1.24 cf/sk yld good returns through job with Dye water to pit. Drop
0.00	HRS slips w/ 92,000#. Nipple down BOP's Dump & clean pits
0.00	HRS Release rig @ 3:00 pm on 6/7/01

Daily Cost \$28,347 Cumulative Cost 125,633

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SUMMARY WORKOVER REPORT

GREATER BOUNDARY 3-27

NE/NW Section 27 - T8S - R17E
Duchesne Co., UT
API # 43-013-2224

Spud Dat 5/28/01
TD 6311'
Completion or Workover Rig Key # 965

Report Date 7/15/01 Day 1

Completion

Date Work Performed 7/14/01

MIRU Key #965. Set equipment. Install 5-M frac head & NU 5M BOP. Tally, drift, PU & TIH w/ 4 3/4" bit, 5 1/2" csg scraper & 194 jts 2 7/8" 8rd 6.5# J-55 tbg. Tag PBD @ 6287'. RU pump and test csg to 3000#. TOOH - RU Schlumberger and perf CP-4 sds @ 6200-04'; CP-3 sds @ 6136-39'; CP-2 sds @ 6084-91' & 6067-74'; and CP-1 sds @ 6023-34'. All 4 JSPF. RD WLT & TIH w/ Weatherford 5 1/2" "TS" RBP, 2 3/8" tbg sub and 5 1/2" "HD" pkr & tbg. Got to top perf. SWIFN.

Supervisor: Ray Herrera

Daily Cost \$8,661 Cumulative Cost \$8,661

Report Date 7/17/01 Day 2

Completion

Date Work Performed 7/16/01

Continue TIH w/5-1/2" TS RBP, tbg sub, 5-1/2" HD pkr & tbg. Isolate and break down CP sds as follows: Perfs 6200-04' broke down @ 3500 psi - injected @ 2.7 BPM @ 2300 psi. Perfs 6136-39' broke down @ 4000 psi - injected @ 2.6 BPM @ 2800 psi. Perfs @ 6084-91' broke down @ 3100 psi - injected @ 3.7 BPM @ 1750 psi. Perfs 6067-74' broke down @ 2800 psi - injected @ 3.7 BPM @ 1800 psi. Perfs 6023-34' broke down @ 2700 psi - injected @ 4.8 BPM @ 1500 psi. Used 10 BW for breakdowns. Re-set plug @ 6229' and TOH w/tbg. LD pkr & RH. RU BJ Services and frac CP sand w/130,000# 20/40 sand in 768 bbls Viking I-25 fluid. Treated @ avg pressure of 1550 psi w/avg rate of 35.5 BPM. ISIP 1870 psi. RD BJ and begin immediate flowback of CP frac on 12/64" choke @ 1 BPM. Zone flowed 6-1/2 hrs & died. Rec. 290 BTF (est 38% of frac load). SIFN w/est 626 BWTR.

Supervisor: Gary Dietz

8000 gals of pad
4000 gals w/1-5 ppg of 20/40 sand
8000 gals w/5-8 ppg of 20/40 sand
4000 gals w/8-10 ppg of 20/40 sand
2270 gals w/10 ppg of 20/40 sand
Flush w/5964 gals of slick water
Max TP 2190, max rate 36 BPM, Total fluid pumped 768 bbls
Avg TP 1550, avg rate 35.5 BPM, Total prop pumped 130,000#
ISIP 1870 FG: .74

Daily Cost 231,732 Cumulative Cost 240,393

Report Date 7/18/01 Day 3

Completion

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Attachment G-4
Page 6 of 8

SUMMARY WORKOVER REPORT

Date Work Performed 7/17/01

TIH W/RH & tbg. Tbg displaced 13 BW on TIH. Tag sd @ 6115'. C/O sd to RBP @ 6229' and circ hole clean. Lost no fluid. Pull up & re-set plug @ 5993'. Pressure test plug to 3000 psi. TOH W/ RH & tbg. RU Schlumberger and perf LDC sds @ 5846-52', 5855-60' & 5864-82' W/4 JSPF. 3 runs (incl 1 misrun). RD WLT. RU BJ Services and frac LDC sds W/ 120,220# 20/40 sand in 839 bbls Viking I-25 fluid. Perfs broke @ 3101 psi. Treated w/avg press of 2050 psi w/avg rate of 29.7 BPM. ISIP-2310 psi. RD BJ & begin immediate flowback of LDC frac on 12/64 choke @ 1 BPM. Zone flowed 7 1/2 hrs & died. Rec 412 BTF (est 49% of frac load). SIFN W/ est 1040 BWTR.

Supervisor: Gary Dietz

STIMULATION DETAIL: SAND FRAC

9000 gals of pad

6000 gals W/ 1-5 ppg of 20/40 sand

12000 gals W/ 5-8 ppg of 20/40 sand

2496 gals W/ 8 ppg of 20/40 sand

Flush W/ 5757 gals of slick water

Max TP: 2668, Avg TP: 2050, Max Rate: 30 BPM, Avg Rate: 29.7 BPM

Total fluid pmpd: 839 bbls, Total Prop pmpd: 120,220#

ISIP: 2310 FG: .83

Daily Cost \$42,633 Cumulative Cost 283,026

Report Date 7/19/01 Day 4

Completion

Date Work Performed 7/18/01

RU Schlumberger & perf A1 sds 5615-21'; C sds 5336-40' & 5328-32'; and D sds 5265-71', all with 4 JSPF. Made 1 run. RD WLT, then TIH w/RH, tbg sub, 5 1/2" HD pkr & tbg. Tbg displaced 12 BW on TIH. Tag sd @ 5913'. C/O sand to RBP @ 5993'; circ hole clean w/no fluid loss. Release plug, move tools and isolate & break down intervals as follows: A1 sds (5615-21') - made several unsuccessful attempts to break perfs w/5500 psi max pressure (decision made to leave). C sds (5328-32' & 5336-40') broke down @ 3500 psi - injected @ 3.6 BPM @ 1800 psi. D sds (5265-71') broke down @ 3800 psi - injected @ 3.8 BPM @ 2100 psi. Used 4 BW for breakdowns. Release plug and re-set @ 5650'; pressure test to 3000 psi. TOH w/tbg and LD pkr. RU BJ Services and frac A/C/D sands w/64,220# of 20/40 sand in 512 bbls Viking I-25 fluid. Treated @ avg pressure of 1450 psi w/avg rate of 29.9 BPM. ISIP 1470 psi. RD BJ and begin immediate flowback of A/C/D frac on 12/64" choke @ 1 BPM. Zone flowed 4-3/4 hrs & died. Rec 228 BTF (est 44% of frac load). SIFN w/est 1316 BWTR.

Procedure: used 4800 gals pad

3250 gals w/1-5 ppg of 20/40 sand

6500 gals w/5-8 ppg of 20/40 sand

1800 gals w/8 ppg of 20/40 sand

Flush w/5166 gals of slick water

Max TP 2050, max rate 30.3 BPM, total fluid pumped 512 bbls.

Avg TP 1450, Avg rate 29.9 BPM, total prop pumped 64,220#.

ISIP 1470 FG: .70

Supervisor: Gary Dietz

Daily Cost \$31,489 Cumulative Cost 314,515

Report Date 7/20/01 Day 5

Completion

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SUMMARY WORKOVER REPORT

Date Work Performed 7/19/01

DAY 5A RU Schlumberger and run 5-1/2" CE RBP and 4" perf gun. Set plug @ 5215' and pressure test plug to 2000 psi. Perf D1 sds 5145-50' w/4 JSPF - all 1 run. RU BJ Services & frac D1 sds w/26,200# of 20/40 sand in 234 bbls Viking I-25 fluid. Perfs broke down @ 1500 psi. Treated @ avg pressure of 1900 psi w/avg rate of 21.8 BPM. Screened out w/6.5# sand on formation w/3150 gals flushed (1995 gals short of top perf). Est 16,185# sand in perfs and 10,015# sand left in csg. RD BJ; flowback frac 30 minutes & died. Rec 30 BTF (est 13% of frac load). TIH w/RH & tbg. Tbg displaced 12 BW on TIH. Stage out sand-laden fluid to 5158' (solid). C/O sand to RBP @ 5125' and release plug. TOH w/tbg and LD plug. Est 1508 BWTR.

- 1900 gals of pad
- 1500 gals w/1-5 ppg of 20/40 sand
- 3288 gals w/508 ppg of 20/40 sand
- Flush w/3150 gals slick water (1995 gals short of top perf)
- Screened out w/6.5 ppg sand on formation. Est 16,185# sd in perfs; left 10,015# sd in csg.
- Max TP 4280, max rate 22.1 bpm, total fluid pumped 234 bbls. Avg TP 1900, avg rate 21.8 BPM, total prop pumped 26,200#.

DAY 5B RU Schlumberger and run 5-1/2" CE RBP & 4" perf guns. Set plug @ 4960' and pressure test plug to 2000 psi. Perf PB11 sds 4920-27' and PB8 sds 4821-27' w/4 JSPF, all in 1 run. RD WLT and TIH w/5-1/2" HD pkr & tbg. Tbg displaced 11 BW on TIH. Set pkr @ 4863'. Break down perfs 4920-27' (down tbg) @ 4500 psi - injected @ 2.5 BPM @ 3000 psi. Attempt to break down perfs 4821-27' (down csg) w/4800 psi max pressure but met w/no success. Release pkr & pull EOT to 4839'. RU BJ & spot 55 gals 15% HCl acid down tbg & across perfs @ 4821-27'. RIH w/pkr & re-set @ 4863'. Break down perfs @ 2800 psi - injected @ 4.8 BPM @ 1800 psi. Used 4 BW for breakdowns. Release pkr and TOH w/tbg. LD pkr and RU BJ Services. Frac PB sds w/54,260# 20/40 sand in 447 bbls Viking I-25 fluid. Treated @ avg pressure of 1943 psi w/avg rate of 29.8 BPM. ISIP 2050 psi. RD BJ and begin immediate flowback of PB frac on 12/64" choke @ 1 BPM. Zone flowed 3 hrs & died. Rec 118 BTF (est 26% of frac load). SIFN w/est 1830 BWTR.

Supervisor: Gary Dietz

- 4400 gals of pad
- 3000 gals w/1-5 ppg of 20/40 sand
- 6000 gals w/5-8 ppg of 20/40 sand
- 618 gals w/8 ppg of 20/40 sand
- Flush w/4746 gals of slick water
- Max TP 2650, Max rate 30 BPM, Total fluid pumped 447 bbls.
- Avg TP 1943, avg rate 29.8 BPM, Total prop pumped 54,260#.
- ISIP 2050 FG: .83

Daily Cost \$56,951 Cumulative Cost 371,466

Report Date 7/21/01 Day 6

Completion

Date Work Performed 7/20/01

TIH w/RH & tbg; tbg displaced 12 BW on TIH. Tag sand @ 4899'. C/O sand to RBP @ 4960'. Circ hole clean and release plug. TOH w/tbg & LD plug. TIH w/RH & tbg - tag sand @ 5481'. C/O sand to RBP @ 5650'. Circ hole clean & release plug. TOH w/tbg & LD plug. TIH w/NC & tbg - tag sand @ 6176'. C/O sand to PBSD @ 6287' and circ. hole clean. Lost no fluid during circulations. Pull EOT to 6212' and RU swab eqt. IFL @ sfc - made 3 swab runs and rec 87 BW. FFL @ 400'. SIFN w/est 1731 BWTR.

Supervisor: Gary Dietz

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Attachment G-4
Page 8 of 8

SUMMARY WORKOVER REPORT

Daily Cost \$4,749 Cumulative Cost 376,215

Report Date 7/22/01 Day 7

Completion

Date Work Performed 7/21/01

Bleed well off and continue to swab well. Made 12 runs and rec 269 total bbls (17 BO & 252 BW). TIH, tag sand @ 6282'. RU & clean out to 6287' (PBSD). TOH w/tbg, PU & MU new TAC & SN. TIH w/tbg as listed below. ND BOPs & 5-M frac head and install 3-M production head. Set TAC w/14,000# tension. Lost 15 bbls during clean out. Rec. 50 BO from flat tank.

Supervisor: Pat Wisener

Daily Cost \$4,257 Cumulative Cost 380,472

Report Date 7/24/01 Day 8

Completion

Date Work Performed 7/23/01

PU & MU new Randy's pump and TIH w/used rod string as listed below: Seat pump & pressure test to 800 psi. Stroke to 1000 psi and RU pumping unit. Place well on production @ 12:00 pm 7/23/01. 72" stroke @ 5.0 SPM. 7 bbls to fill; 1484 bbls to recover.

Supervisor: Ray Herrera FINAL REPORT.

Daily Cost \$89,575 Cumulative Cost 470,047

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ATTACHMENT H
OPERATING DATA

Submit the following proposed operating data for each well (including all those to be covered by area permits): (1) average and maximum daily rate and volume of the fluids to be injected; (2) average and maximum injection pressure; (3) nature of annulus fluid; and (4) for Class II wells, source and analysis of the physical and chemical characteristics of the injection fluid.

1. Estimated average daily rate is 300 BPD, and the estimated maximum daily rate is 500 BPD.
2. The average and maximum surface pressure will be determined upon testing.
3. Fresh water treated with scale inhibitor, oxygen scavenger, biocide (behind packer fluid).
4. The injected fluid is primarily culinary water from the Johnson Water District; in secondary cases the injected fluid will be culinary water from the Johnson Water District commingled with produced water. (See Attachments E-1 through E-3 for analysis).

Greater Boundary #3-27-8-17

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ATTACHMENT M
CONSTRUCTION DETAILS

Submit schematic or other appropriate drawings of the surface and subsurface construction details of the well.

Attachment M-1 Wellbore schematic of Greater Boundary #3-27-8-17.

Attachment M-2 Site Plan of Greater Boundary #3-27-8-17.

Greater Boundary #3-27-8-17

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Greater Boundary Unit #3-27-8-17

Spud Date: 4/16/2001
 Put on Production: 7/23/2001
 GL: 5178' KB: 5188'

Initial Production: 11.6 BOPD,
 15.1 MCFD, 95.4 BWPD

Wellbore Diagram

SURFACE CASING

CSG SIZE: 8-5/8"
 GRADE: J-55
 WEIGHT: 24#
 LENGTH: 8 jts. (302')
 DEPTH LANDED: 301'
 HOLE SIZE: 12-1/4"
 CEMENT DATA: 180 sxs Class "G" cmt, est 5 bbls cmt to surf

PRODUCTION CASING

CSG SIZE: 5-1/2"
 GRADE: J-55
 WEIGHT: 15.5#
 LENGTH: 150 jts.
 DEPTH LANDED: 6299' KB
 HOLE SIZE: 7-7/8"
 CEMENT DATA: 367 sk Prem. Lite II mixed & 525 sxs 50/50 POZ.
 CEMENT TOP AT: ? per CBL

TUBING

SIZE/GRADE/WT.: 2-7/8" / J-55 / 6.5#
 NO. OF JOINTS: 153 jts (4962.69')
 TUBING PACKER: 4969.59'
 NO. OF JOINTS: 32 jts. (1026.68')
 SEATING NIPPLE: 2-7/8" (1.10')
 SN LANDED AT: 5997.37' KB
 NO. OF JOINTS: 1 jt (32.29')
 TOTAL STRING LENGTH: EOT @ 6030.41'

SUCKER RODS

POLISHED ROD: 1-1/2" x 22' SM
 SUCKER RODS: 4-1 1/2" weight bars, 236-3/4" guided rods.
 PUMP SIZE: 2-1/2" x 1-1/2" x 15' RHAC
 STROKE LENGTH: 72"
 PUMP SPEED, SPM: 5
 LOGS: DIGL/SP/GR/CAL

FRAC JOB

7/16/01 6023'-6204' **Frac CP sand as follows:**
 130,000# 20/40 sand in 768 bbls Viking I-25 fluid. Treated @ avg press of 1550 psi w/avg rate of 35.5 BPM. ISIP 1880 psi. Flowed for 6.5 hrs. then died.

7/17/01 5846'-5882' **Frac LODC sand as follows:**
 120,222# 20/40 sand in 839 bbls Viking I-25 fluid. Treated @ avg press of 2050 psi w/avg rate of 29.5 BPM. ISIP 2310 psi. Flowed for 7.5 hrs. then died.

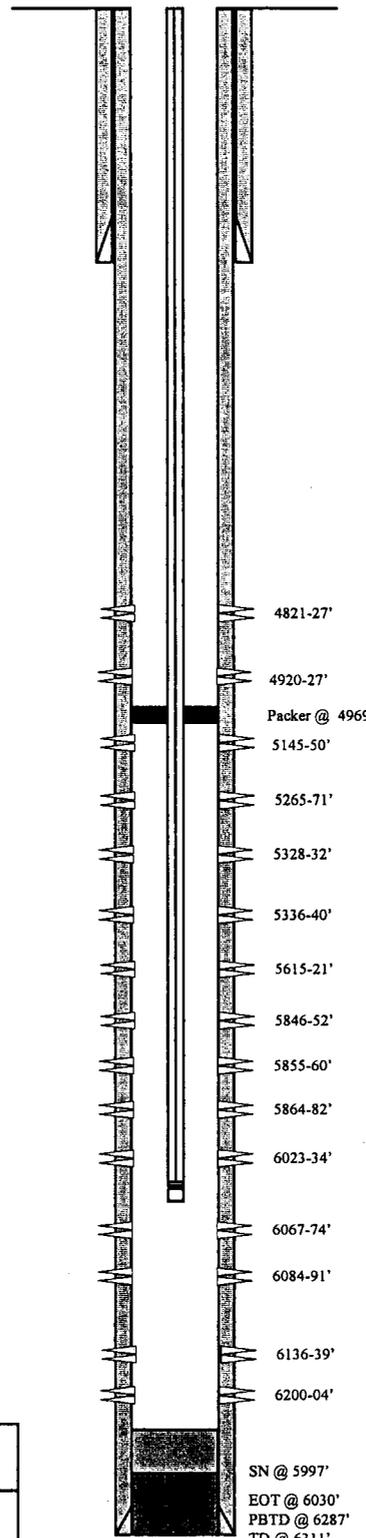
7/18/01 5265'-5621' **Frac A,C,D, sands as follows:**
 64,220# 20/40 sand in 512 bbls Viking I-25 fluid. Treated @ avg press of 1450 psi w/avg rate of 29.9 BPM. ISIP 1470 psi. Flowed for 4.75 hrs. then died.

7/19/01 5145'-5150' **Frac D-1 sand as follows:**
 26,200# 20/40 sand in 234 bbls Viking I-25 fluid. Treated @ avg press of 1900 psi w/avg rate of 21.8 BPM. Screened out.

7/19/01 4821'-4927' **Frac PB sand as follows:**
 54,260# 20/40 sand in 447 bbls Viking I-25 fluid. Treated @ avg press of 1943 psi w/avg rate of 29.8 BPM. ISIP 2050 psi. Flowed for 3 hrs. then died.

10/05/01 Isolate PB-8 zone.

10/15/01 Move packer. Update rod and tubing details.



PERFORATION RECORD

Date	Depth Range	Tool	Holes
7/14/01	6200'-6204'	4 JSPP	16 holes
7/14/01	6136'-6139'	4 JSPP	12 holes
7/14/01	6084'-6091'	4 JSPP	28 holes
7/14/01	6067'-6074'	4 JSPP	36 holes
7/14/01	6023'-6034'	4 JSPP	44 holes
7/17/01	5864'-5882'	4 JSPP	72 holes
7/17/01	5855'-5860'	4 JSPP	20 holes
7/17/01	5846'-5852'	4 JSPP	24 holes
7/18/01	5615'-5621'	4 JSPP	24 holes
7/18/01	5336'-5340'	4 JSPP	16 holes
7/18/01	5328'-5332'	4 JSPP	16 holes
7/18/01	5265'-5271'	4 JSPP	24 holes
7/19/01	5145'-5150'	4 JSPP	20 holes
7/19/01	4920'-4927'	4 JSPP	28 holes
7/19/01	4821'-4827'	4 JSPP	24 holes

Inland Resources Inc.
 Greater Boundary Unit #3-27-8-17
 857' FNL & 2096' FWL
 NENW Section 27-T8S-R17E
 Duchesne Co, Utah
 API #43-013-32224; Lease #UTU-76241

SN @ 5997'
 EOT @ 6030'
 PBTD @ 6287'
 TD @ 6311'

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 BDH 10/15/01

Inland Production Company Site Facility Diagram

Greater Boundary 3-27-8-17

NE/NW Sec. 27, T8S, 17E

Duchesne County, Utah

UTU-76241

June 13, 2001

Site Security Plan is held at the Pleasant Valley
Office, Duchesne County Utah

Production Phase:

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

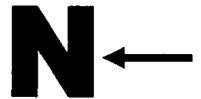
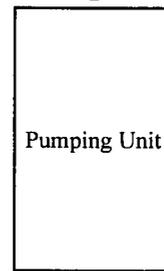
Sales Phase:

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

Draining Phase:

- 1) Valve 1 open

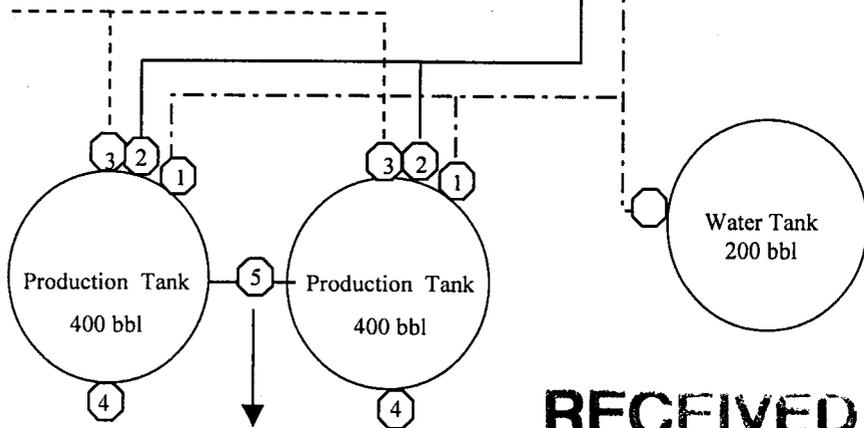
Well Head



Heater Treater

Gas Sales Meter

Water Tank
200 bbl



Legend

Emulsion Line
Load Line	-----
Water Line	-----
Oil Line	_____
Gas Sales	-----

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ATTACHMENT Q
PLUGGING AND ABANDONMENT PLAN

Submit a plan for plugging and abandonment of the well. Submit this information on EPA Form 7520-14, Plugging and Abandonment Plan.

Attachment Q-1 EPA Form 7520-14, Plugging and Abandonment Plan

Attachment Q-2 Wellbore Schematic of Proposed Plugging and Abandonment

Attachment Q-3 Work Procedure for Plugging and Abandonment

Greater Boundary #3-27-8-17

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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
WASHINGTON, DC 20460



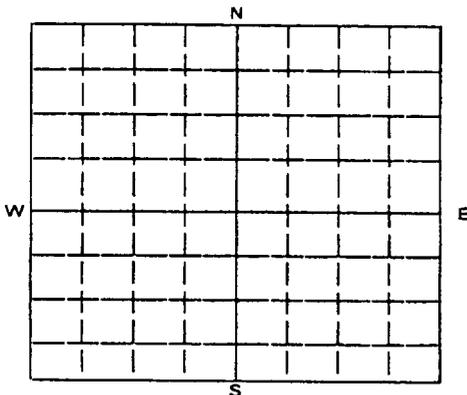
PLUGGING AND ABANDONMENT PLAN

NAME AND ADDRESS OF FACILITY
Greater Boundary 3-27-8-17
Duchesne County, Utah

NAME AND ADDRESS OF OWNER/OPERATOR
Inland Production Company
410 17th Street, Suite 700
Denver, Colorado 80202

STATE: Utah COUNTY: Duchesne PERMIT NUMBER: 43-013-32224

LOCATE WELL AND OUTLINE UNIT ON SECTION PLAT — 640 ACRES



SURFACE LOCATION DESCRIPTION
1/4 OF NE 1/4 OF NW SECTION 27 TOWNSHIP 8S RANGE 17E

LOCATE WELL IN TWO DIRECTIONS FROM NEAREST LINES OF QUARTER SECTION AND DRILLING UNIT

Surface Location 857 ft. from (N/S) N Line of quarter section
and 2096 ft. from (E/W) W Line of quarter section

TYPE OF AUTHORIZATION
 Individual Permit
 Area Permit
 Rule

WELL ACTIVITY
 CLASS I
 CLASS II
 Brine Disposal
 Enhanced Recovery
 Hydrocarbon Storage
 CLASS III

Number of Wells 16

Lease Name Greater Boundary

Well Number 3-27-8-17

CASING AND TUBING RECORD AFTER PLUGGING

SIZE	WT(LB/FT)	TO BE PUT IN WELL (FT)	TO BE LEFT IN WELL (FT)	HOLE SIZE
8-5/8"	24	301'	301'	12-1/4"
5-1/2"	15.5	6299'	6299'	7-7/8"

METHOD OF EMPLACEMENT OF CEMENT PLUGS

- The Balance Method
- The Dump Bailer Method
- The Two-Plug Method
- Other

CEMENTING TO PLUG AND ABANDON DATA:	PLUG #1	PLUG #2	PLUG #3	PLUG #4	PLUG #5	PLUG #6	PLUG #7
Size of Hole or Pipe in which Plug Will be Placed (inches)	5-1/2"	5-1/2"	5-1/2"				
Depth to Bottom of Tubing or Drill Pipe (ft.)	5633'	5633'	5633'				
Sacks of Cement To Be Used (each plug)	12	25	110				
Slurry Volume To Be Pumped (cu. Ft.)							
Calculated Top of Plug (ft.)	4630'	2000'	surface				
Measured Top of Plug (if tagged ft.)							
Slurry Wt. (Lb./Gal.)	15.8	15.8	15.8				
Type Cement or Other Material (Class III)	Class G	Class G	Class G				

LIST ALL OPEN HOLE AND/OR PERFORATED INTERVALS AND INTERVALS WHERE CASING WILL BE VARIED (if any)

From	To	From	To
no open holes			

Estimated Cost to Plug Wells \$23,000

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CERTIFICATION

MAY 2 8 2002

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

NAME AND OFFICIAL TITLE (Please type or print)
Joyce I. McGough/Regulatory Specialist

SIGNATURE
Joyce I. McGough

DATE SIGNED
April 30, 2002

Greater Boundary Unit #3-27-8-17

Spud Date: 4/16/2001
 Put on Production: 7/23/2001
 GL: 5178' KB: 5188'

Proposed P&A
 Wellbore Diagram

SURFACE CASING

CSG SIZE: 8-5/8"
 GRADE: J-55
 WEIGHT: 24#
 LENGTH: 8 jts. (302')
 DEPTH LANDED: 301'
 HOLE SIZE: 12-1/4"
 CEMENT DATA: 180 sxs Class "G" cmt, est 5 bbls cmt to surf

Casing shoe @ 301'

351' plug using 110 sx Class G cement down the 5-1/2" casing and up the 5-1/2" x 8-5/8" annulus to surface

PRODUCTION CASING

CSG SIZE: 5-1/2"
 GRADE: J-55
 WEIGHT: 15.5#
 LENGTH: 150 jts.
 DEPTH LANDED: 6299' KB
 HOLE SIZE: 7-7/8"
 CEMENT DATA: 367 sk Prem. Lite II mixed & 525 sxs 50/50 POZ.
 CEMENT TOP AT: ? per CBL

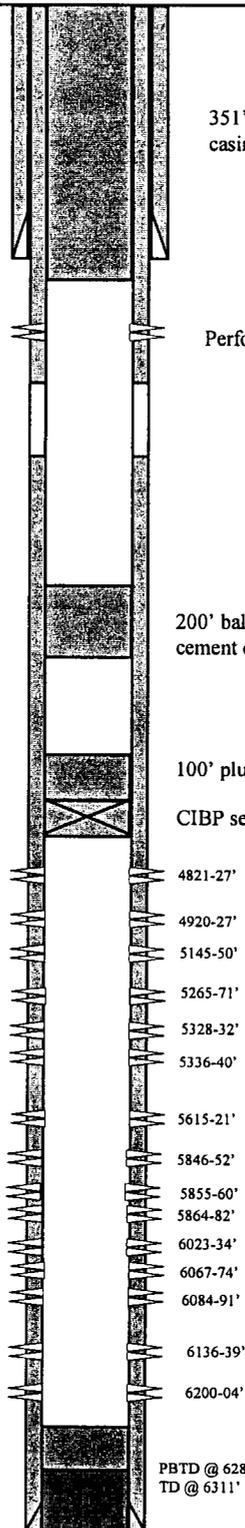
Cement Top @ 470'

Perforate 4 SPF @ 351'

200' balanced plug using 25 sx Class G cement over water zone, 2000'-2200'

100' plug using 12 sx Class G cement on top of CIBP

CIBP set @ 4730'



- 4821-27'
- 4920-27'
- 5145-50'
- 5265-71'
- 5328-32'
- 5336-40'
- 5615-21'
- 5846-52'
- 5855-60'
- 5864-82'
- 6023-34'
- 6067-74'
- 6084-91'
- 6136-39'
- 6200-04'

PBTD @ 6287'
 TD @ 6311'

 <p>Inland Resources Inc.</p> <p>Greater Boundary Unit #3-27-8-17</p> <p>857' FNL & 2096' FWL</p> <p>NENW Section 27-T8S-R17E</p> <p>Duchesne Co, Utah</p> <p>API #43-013-32224; Lease #UTU-76241</p>

RECEIVED

MAY 28 2002

**DIVISION OF
 OIL, GAS AND MINING**

JM 4/30/02

ATTACHMENT Q-3

WORK PROCEDURE FOR PLUGGING AND ABANDONMENT

1. Set CIBP @ 4730'.
2. Plug #1 Set 100' plug on top of CIBP using 12 sx Class G cement.
3. Plug #2 Set 200' plug from 2000'-2200' with 25 sx Class "G" cement.
4. RU perforators and perforate with 4 shots at 382'.
5. Plug #3 Circulate 110 sx Class G cement down 5-1/2" casing and up the 5-1/2" x 8-5/8" annulus to surface.

The approximate cost to plug and abandon this well is \$33,025.

Greater Boundary #3-27-8-17

RECEIVED

MAY 28 2002

**DIVISION OF
OIL, GAS AND MINING**

ATTACHMENT R
NECESSARY RESOURCES

Submit evidence such as a surety bond or financial statement to verify that the resources necessary to close, plug, or abandon the well are available.

Inland Production Company demonstrates financial responsibility by submitting annually the 10K financial report.

Greater Boundary #3-27-8-17

RECEIVED

MAY 28 2002

**DIVISION OF
OIL, GAS AND MINING**



RESOURCES INC.

May 9, 2002

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

RE: Greater Boundary #3-27-8-17
Section 17-Township 8S-Range 17E
Monument Butte Field, Greater Boundary Unit
Duchesne County, Utah

Dear Mr. Forsman:

Inland Production Company, as operator of the above referenced well, has requested to convert the above well from a producer to an injector. Enclosed for your review is a copy of the application filed with the State of Utah. Also enclosed is a copy of the sundry notice of intent.

Should you have any questions, please contact me at 303/893-0102.

Sincerely,

Joyce McGough
Regulatory Specialist

Enclosures

RECEIVED

MAY 28 2002

**DIVISION OF
OIL, GAS AND MINING**

UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT

SUNDRY NOTICES AND REPORTS ON WELLS

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

SUBMIT IN TRIPLICATE

1. Type of Well: Oil Well (checked), Gas well, Other. 2. Name of Operator: Inland Production Co. 3. Address and Telephone No.: 410 Seventeenth Street, Suite 700 Denver, CO 80202 (303) 893-0102. 4. Location of Well: NE/NW 857' FNL, 2096' FWL 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 Boundary Unit. 8. Well Name and No.: Greater Boundary 3-27-8-17. 9. API Well No.: 43-013-32224. 10. Field and Pool, or Exploratory Area: Monument Butte. 11. County or Parish, State: Duchesne County, UT.

12. CHECK APPROPRIATE BOX(S) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA. TYPE OF SUBMISSION: Notice of Intent (checked), Subsequent Report, Final Abandonment Notice. TYPE OF ACTION: Abandonment, Recompletion, Plugging Back, Casing repair, Altering Casing, Other, Change of Plans, New Construction, Non-Routine Fracturing, Water Shut-off, Conversion to Injection (checked), Dispose Water.

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).

Please see attached injection application.

14. I hereby certify that the foregoing is true and correct. Signed: Joyce I. McGough, Regulatory Specialist, Date: 4/30/02.

(This space of Federal or State office use.)

Approved by: _____ Title: _____ Date: _____

Conditions of approval, if any:

RECEIVED

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

DIVISION OF OIL, GAS AND MINING

*See Instruction on Reverse Side

TRANSACTION REPORT

P. 01

JUN-06-2002 THU 03:12 PM

FOR: OIL, GAS & MINING

801 359 3940

DATE	START	RECEIVER	TX TIME	PAGES	TYPE	NOTE	M#	DP
JUN-06	03:12 PM	2372776	45"	2	SEND	OK	975	
TOTAL :						45S	PAGES:	2



State of Utah
 DEPARTMENT OF NATURAL RESOURCES
 DIVISION OF OIL, GAS AND MINING

Michael O. Leavitt
 Governor
 Kathleen Clark
 Executive Director
 Lowell P. Braxton
 Division Director

1584 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)

June 6, 2002

SENT VIA E-MAIL AND FAX (801) 237-2776

Salt Lake Tribune
 PO Box 45838
 Salt Lake City, UT 84145

RE: Notice of Agency Action - Cause No. UIC 293

Gentlemen:

Enclosed is a copy of the referenced Notice of Agency Action. Please publish the Notice, once only, as soon as possible. Please send proof of publication and billing to the Division of Oil, Gas and Mining, Suite 1210, PO Box 145801, Salt Lake City, Utah 84114-5801.

Sincerely,



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
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Sincerely,

A handwritten signature in cursive script that reads "Earlene Russell".

Earlene Russell
Executive Secretary

encl.

TRANSACTION REPORT

P. 01

JUN-06-2002 THU 03:13 PM

FOR: OIL, GAS & MINING

801 359 3940

DATE	START	RECEIVER	TX TIME	PAGES	TYPE	NOTE	M#	DP
JUN-06	03:13 PM	14357224140	42"	2	SEND	OK	976	
TOTAL :						42S PAGES:	2	



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)

June 6, 2002

SENT VIA FAX(435) 722-4140 and Regular Mail

Uintah Basin Standard
 268 S 200 E
 Roosevelt, UT 84066-3109

RE: Notice of Agency Action - Cause No. UIC 293

Gentlemen:

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Sincerely,



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
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Sincerely,

Earlene Russell
Earlene Russell
Executive Secretary

encl.

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

IN THE MATTER OF THE	:	
APPLICATION OF INLAND	:	
PRODUCTION COMPANY FOR	:	
ADMINISTRATIVE APPROVAL OF THE	:	NOTICE OF AGENCY ACTION
GREATER BOUNDARY 3-27-8-17 AND	:	
BELUGA 10-7-9-17 WELLS LOCATED	:	CAUSE NO. UIC 293
IN SECTIONS 27 AND 7, TOWNSHIPS 8	:	
SOUTH, AND 9 SOUTH, RANGE 17	:	
EAST, DUCHESNE COUNTY, UTAH, AS	:	
CLASS II INJECTION WELLS	:	

THE STATE OF UTAH TO ALL PERSONS INTERESTED IN THE ABOVE ENTITLED MATTER.

Notice is hereby given that the Division of Oil, Gas and Mining (the "Division") is commencing an informal adjudicative proceeding to consider the application of Inland Production Company for administrative approval of the Greater Boundary 3-27-8-17 well located in Section 27, Township 8 South, Range 17 East, and the Beluga 10-7-9-17 well, located in Section 7, Township 9 South, Range 17 East, Duchesne County, Utah, for conversion to Class II injection wells. These wells are located in the Greater Boundary Unit, and the Beluga Unit Units respectively. The adjudicative proceeding will be conducted informally according to Utah Admin.Rule R649-10, Administrative Procedures.

Selective zones in the Green River Formation will be used for water injection. The maximum requested injection pressure and rate will be determined based on fracture gradient information submitted by Inland Production Company.

Any person desiring to object to the proposed application or otherwise intervene in the proceeding, must file a written protest or notice of intervention with the Division within fifteen days following publication of this notice. The Division's Presiding Officer for this proceeding is John R. Baza, Associate Director at PO Box 145801, Salt Lake City, Utah 84114-5801, phone number (801) 538-5277. If such a protest or notice of intervention is received, a hearing will be scheduled in accordance with the aforementioned administrative procedure rule. Protestants and/or interveners should be prepared to demonstrate at the hearing how this matter affects their interests.

Dated this 5th day of June, 2002:

STATE OF UTAH
DIVISION OF OIL, GAS & MINING



John R. Baza
Associate Director

Earlene Russell - Re: UIC Cause #293 & e-mail address change.

From: "NAC LEGAL" <naclegal@nacorp.com>
To: "Earlene Russell" <erussell.nrogm@state.ut.us>
Date: 06/07/2002 12:14 PM
Subject: Re: UIC Cause #293 & e-mail address change.

Earlene,
Thank you so much for emailing your ad. It is set to print on June 11. Please check the paper on Tuesday.
Thanks again.

----- Original Message -----

From: Earlene Russell
To: naclegal@nacorp.com
Sent: Friday, June 07, 2002 11:29 AM
Subject: UIC Cause #293 & e-mail address change.

Please notify me what the publication date will be. Thanks.

P.S. My e-mail address has change to earlenerussell@utah.gov

Have a GREAT Day !

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

---ooOoo---

IN THE MATTER OF THE :
APPLICATION OF INLAND PRODUCTION COMPANY
(operator)

NOTICE OF AGENCY
ACTION

CAUSE NO. UIC- 293

FOR ADMINISTRATIVE APPROVAL :
OF THE GREATER BOUNDARY 3-27-8-17

AND THE BEUWA 10-7-9-17 :

_____ WELLS

LOCATED IN SECTIONS 27 + 7

TOWNSHIPS 8 + 9 SOUTH

RANGE 17 EAST

S.L.M. or U.S.M.

DUCHESSNE COUNTY, UTAH,

AS CLASS II INJECTION WELLS

LOCATED IN THE
GREATER BOUNDARY AND
BEUWA UNITS

---ooOoo---

THE STATE OF UTAH TO ALL PERSONS INTERESTED IN THE ABOVE ENTITLED MATTER.

Notice is hereby given that the Division of Oil, Gas and Mining (the "Division") is commencing an informal adjudicative proceeding to consider the application of (operator - same as above) for administrative approval of the (same as above) wells, located in Sections (same as above), Township (same as above), Range (same as above), S.L.M. or U.S.M., (same as above) County, Utah, for conversion to Class II injection wells. The proceeding will be conducted in accordance with Utah Admin. R.649-10, Administrative Procedures.

The GREEN RIVER Formation will be selectively perforated for water injection. The maximum injection pressure and rate will be determined on each individual well based on fracture gradient information submitted by Inland Production Company.

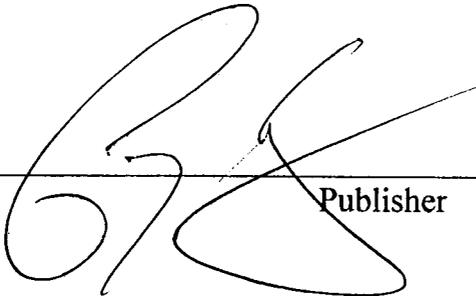
Any person desiring to object to the application or otherwise intervene in the proceeding, must file a written protest or notice of intervention with the Division within fifteen days following publication of this notice. If such a protest or notice of intervention is received, a hearing will be scheduled before the Board of Oil, Gas and Mining. Protestants and/or intervenors should be prepared to demonstrate at the hearing how this matter affects their interests.

Dated this _____ day of _____ ~~198~~.

AFFIDAVIT OF PUBLICATION

County of Duchesne,
STATE OF UTAH

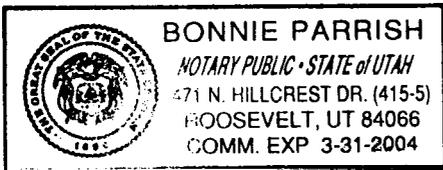
I, Craig L. Ashby on oath, say that I am the PUBLISHER of the Uintah Basin Standard, a weekly newspaper of general circulation, published at Roosevelt, State and County aforesaid, and that a certain notice, a true copy of which is hereto attached, was published in the full issue such newspaper for 1 consecutive issues, and that the first publication was on the 11 day of June, 2002, and that the last publication of such notice was in the issue of such newspaper dated the 11 day of June, 2002.



Publisher

Subscribed and sworn to before me this
19 day of June, 2002
Bonnie Parrish

Notary Public



NOTICE OF AGENCY ACTION CAUSE NO. UIC 293

IN THE MATTER OF THE APPLICATION OF INLAND PRODUCTION COMPANY FOR ADMINISTRATIVE APPROVAL OF THE GREATER BOUNDARY 3-27-8-17 AND BELUGA 10-7-9-17 WELLS LOCATED IN SECTIONS 27 AND 7, TOWNSHIPS 8 SOUTH, AND 9 SOUTH, RANGE 17 EAST, DUCHESNE COUNTY, UTAH, AS

CLASS II INJECTION WELLS

THE STATE OF UTAH TO ALL PERSONS INTERESTED IN THE ABOVE ENTITLED MATTER.

Notice is hereby given that the Division of Oil, Gas and Mining (the "Division") is commencing an informal adjudicative proceeding to consider the application of Inland Production Company for administrative approval of the Greater Boundary 3-27-8-17 well located in Section 27, Township 8 South, Range 17 East, and the Beluga 10-7-9-17 well, located in Section 7, Township 9 South, Range 17 East, Duchesne County, Utah, for conversion to Class II injection wells. These wells are located in the Greater Boundary Unit, and the Beluga Unit Units respectively. The adjudicative proceeding will be conducted informally according to Utah Admin. Rul R649-10, Administrative Procedures.

Selective zones in the Green River Formation will be used for water injection. The maximum requested injection pressure and rate will be determined based on fracture gradient information submitted by Inland Production Company.

Any person desiring to object to the proposed application or otherwise intervene in the proceeding, must file a written protest

or notice of intervention with the Division within fifteen days following publication of this notice. The Division's Presiding Officer for this proceeding is John R. Baza, Associate Director at PO Box 145801, Salt Lake City, Utah 84114-5801, phone number (801) 538-5277. If such a protest or notice of intervention is received, a hearing will be scheduled in accordance with the aforementioned administrative procedure rule. Protestants and/or interveners should be prepared to demonstrate at the hearing how this matter affects their interests.

Dated this 5th day of June, 2002.

STATE OF UTAH
DIVISION OF OIL,
GAS & MINING
John R. Baza
Associate Director
Published in the Uintah Basin Standard June 11, 2002.

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

143 SOUTH MAIN ST.
P.O. BOX 45838
SALT LAKE CITY, UTAH 84145
FED. TAX I.D.# 87-0217663

Newspaper Agency Corporation on

The Salt Lake Tribune



DESERET NEWS

CUSTOMER'S COPY

PROOF OF PUBLICATION

CUSTOMER NAME AND ADDRESS	ACCOUNT NUMBER	DATE
DIV OF OIL-GAS & MINING 1594 W NORTH TEMP #1210 P.O. BOX 145801 SALT LAKE CITY, UT 84114	D5385340L-07	06/11/02

ACCOUNT NAME	
DIV OF OIL-GAS & MINING	
TELEPHONE	INVOICE NUMBER
801-538-5340	TL8201MGLU1
SCHEDULE	
START 06/11/02 END 06/11/02	
CUST. REF. NO.	
UIC 293	
CAPTION	
BEFORE THE DIVISION OF OIL, GA	
SIZE	
61 LINES 2.00 COLUMN	
TIMES	RATE
1	1.64
MISC. CHARGES	AD CHARGES
.00	200.08
TOTAL COST	
200.08	

RECEIVED
 JUN 14 2002
 DIVISION OF
 OIL, GAS AND MINING

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

IN THE MATTER OF THE APPLICATION OF INLAND PRODUCTION COMPANY FOR ADMINISTRATIVE APPROVAL OF THE GREATER BOUNDARY 3-27-8-17 AND BELUGA 10-7-9-17 WELLS LOCATED IN SECTIONS 27 AND 7, TOWNSHIPS 8 SOUTH, AND 9 SOUTH, RANGE 17 EAST, DUCHESSNE COUNTY, UTAH, AS CLASS II INJECTION WELLS

NOTICE OF AGENCY ACTION
CAUSE NO. UIC293

THE STATE OF UTAH TO ALL PERSONS INTERESTED IN THE ABOVE ENTITLED MATTER.

Notice is hereby given that the Division of Oil, Gas and Mining (the "Division") is commencing an informal adjudicative proceeding to consider the application of Inland Production Company for administrative approval of the Greater Boundary 3-27-8-17 well located in Section 27, Township 8 South, Range 17 East, and the Beluga 10-7-9-17 well, located in Section 7, Township 9 South, Range 17 East, Duchesne County, Utah, for conversion to Class II injection wells. These wells are located in the Greater Boundary Unit, and the Beluga Unit respectively. The adjudicative proceeding will be conducted informally according to Utah Admin. Rule R649-10, Administrative Procedures.

Selective zones in the Green River Formation will be used for water injection. The maximum requested injection pressure and rate will be determined based on fracture gradient information submitted by Inland Production Company.

Any person desiring to object to the proposed application or otherwise intervene in the proceeding, must file a written protest or notice of intervention with the Division within fifteen days following publication of this notice. The Division's Presiding Officer for this proceeding is John R. Baza, Associate Director at PO Box 145801, Salt Lake City, Utah 84114-5801, phone number (801) 538-5277. If such a protest or notice of intervention is received, a hearing will be scheduled in accordance with the aforementioned administrative procedure rule. Protestants and/or interveners should be prepared to demonstrate at the hearing how this matter affects their interests.

AFFIDAVIT OF PUBLICATION

AS NEWSPAPER AGENCY CORPORATION LEGAL BOOKKEEPER, I CERTIFY THAT THE ADVERTISEMENT OF BEFORE THE DIVISION OF OIL, GA DIV OF OIL-GAS & MINING WAS PUBLISHED BY CORPORATION, AGENT FOR THE SALT LAKE TRIBUNE AND DESERET PRINTED IN THE ENGLISH LANGUAGE WITH GENERAL CIRCULATION IN SALT LAKE CITY, SALT LAKE COUNTY IN THE STATE OF UTAH.

PUBLISHED ON START 06/11/02 END 06/11/02 8201MGLU

SIGNATURE *John R. Baza*
 DATE 06/11/02

Dated this 5th day of June, 2002.

STATE OF UTAH
DIVISION OF OIL, GAS & MINING
/s/ John R. Baza
Associate Director

THIS IS NOT A STATEMENT BUT A "PROOF OF PUBLICATION"

PLEASE PAY FROM BILLING STATEMENT.

a
 2827 REC 6131 NUAD2016
~~MSKAD016~~ 6ED2



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

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

AUG - 8 2003

Ref: 8P-W-GW

CERTIFIED MAIL
RETURN RECEIPT REQUESTED

Mr. Michael Guinn
Vice President - Operations
Inland Production Company
Route 3 - Box 3630
Myton, UT 84052

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

RE: Extend Limited Authorization to Inject
EPA Permit No. UT20702-04675
Tar Sands Federal No. 3-27-8-17
Duchesne County, Utah

43-013-32224 Sec. 27, T8S, R7E

Dear Mr. Guinn:

The Region 8 Ground Water program office of the Environmental Protection Agency (EPA) authorized a one-hundred and eighty (180) day Limited Authorization to Inject for the Tar Sands Federal No. 3-27-8-17 enhanced recovery injection well. The Limited Authorization to Inject period was authorized to allow for stabilization of the injection zone formation pressure prior to the Radioactive Tracer Survey (RTS) demonstration of Part II (External) Mechanical Integrity.

On August 6, 2003, EPA received from Inland Production Company (Inland) a letter requesting an extension of the 180-day Limited Authorization to Inject deadline. Inland stated that operational information indicates that the injection zone reservoir had not reached the point of pressure stabilization that would allow for a valid Part II (External) Mechanical Integrity Test by a Radioactive Tracer Survey (RTS).

Therefore, EPA hereby authorizes a ninety (90) day extension of the Limited Authorization to Inject period to allow sufficient time for the stabilization of the injection formation pressure, and for Inland to coordinate and complete the required demonstration of Part II (External) Mechanical Integrity. This 90-day extension shall become effective as of August 7, 2003 (per an August 7, 2003, telephone message from E. Schmitz to you by authorization of Dan Jackson). The extension shall expire at midnight Wednesday, November 5, 2002.

RECEIVED
AUG 11 2003



Injection operations shall be suspended at midnight, Wednesday, November 5, 2003, unless the RTS demonstration is completed and approved on or before midnight, Wednesday, November 5, 2003, and injection operations shall remain suspended until an approved demonstration has been completed.

If you have any further questions regarding this action, or your proposed test plan, you may contact Dan Jackson of my staff at 1.800.227.8917 (Ext. 6155).

Sincerely,



Sandra A. Stavnes
Director
Ground Water Program

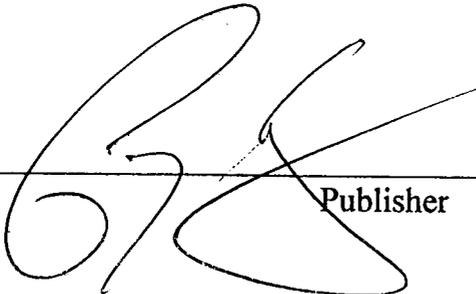
- cc: Ms. Maxine Natchees
Chairwoman
Uintah & Ouray Business Council
Ute Indian Tribe
P.O. Box 190
Fort Duchesne, UT 84026
- Ms. Elaine Willie
Environmental Coordinator
Ute Indian Tribe
P.O. Box 460
Fort Duchesne, UT 84026
- Mr. Chester Mills
Superintendent
Bureau of Indian Affairs
Uintah & Ouray Indian Agency
P.O. Box 130
Fort Duchesne, UT 84026
- Mr. Gil Hunt
Technical Services Manager
State of Utah - Natural Resources
Division Oil, Gas and Mining
1594 West North Temple - Suite 1220
Salt Lake City, UT 84114-5801

Mr. Jerry Kenczka
Petroleum Engineer
Bureau of Land Management
Vernal District
170 South 500 East
Vernal, UT 84078

AFFIDAVIT OF PUBLICATION

County of Duchesne,
STATE OF UTAH

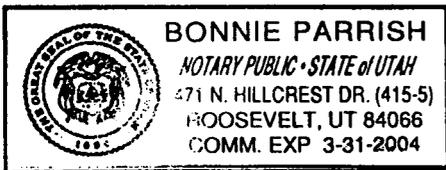
I, Craig L. Ashby on oath, say that I am the PUBLISHER of the Uintah Basin Standard, a weekly newspaper of general circulation, published at Roosevelt, State and County aforesaid, and that a certain notice, a true copy of which is hereto attached, was published in the full issue such newspaper for 1 consecutive issues, and that the first publication was on the 11 day of June, 2002, and that the last publication of such notice was in the issue of such newspaper dated the 11 day of June, 2002.



Publisher

Subscribed and sworn to before me this 19 day of June, 2002
Bonnie Parrish

Notary Public



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

**NOTICE OF
AGENCY
ACTION
CAUSE NO.
UIC 293**

IN THE MATTER OF
THE APPLICATION OF
INLAND PRODUCTION
COMPANY FOR ADMIN-
ISTRATIVE APPROVAL
OF THE GREATER
BOUNDARY 3-27-8-17
AND BELUGA 10-7-9-17
WELLS LOCATED IN
SECTIONS 27 AND 7,
TOWNSHIPS 8 SOUTH,
AND 9 SOUTH, RANGE
17 EAST, DUCHESNE
COUNTY, UTAH, AS

CLASS II INJECTION
WELLS
THE STATE OF UTAH
TO ALL PERSONS IN-
TERESTED IN THE
ABOVE ENTITLED
MATTER.

Notice is hereby given that the Division of Oil, Gas and Mining (the "Division") is commencing an informal adjudicative proceeding to consider the application of Inland Production Company for administrative approval of the Greater Boundary 3-27-8-17 well located in Section 27, Township 8 South, Range 17 East, and the Beluga 10-7-9-17 well, located in Section 7, Township 9 South, Range 17 East, Duchesne County, Utah, for conversion to Class II injection wells. These wells are located in the Greater Boundary Unit, and the Beluga Unit Units respectively. The adjudicative proceeding will be conducted informally according to Utah Admin. Rul R649-10, Administrative Procedures.

Selective zones in the Green River Formation will be used for water injection. The maximum requested injection pressure and rate will be determined based on fracture gradient information submitted by Inland Production Company.

Any person desiring to object to the proposed application or otherwise intervene in the proceeding, must file a written protest

or notice of intervention with the Division within fifteen days following publication of this notice. The Division's Presiding Officer for this proceeding is John R. Baza, Associate Director at PO Box 145801, Salt Lake City, Utah 84114-5801, phone number (801) 538-5277. If such a protest or notice of intervention is received, a hearing will be scheduled in accordance with the aforementioned administrative procedure rule. Protestants and/or interveners should be prepared to demonstrate at the hearing how this matter affects their interests.

Dated this 5th day of June, 2002.

STATE OF UTAH
DIVISION OF OIL,
GAS & MINING
John R. Baza
Associate Director
Published in the Uintah
Basin Standard June 11,
2002.

143 SOUTH MAIN ST.
P.O. BOX 45838
SALT LAKE CITY, UTAH 84145
FED. TAX I.D.# 87-0217663

Newspaper Agency Corporation
The Salt Lake Tribune  DESERET NEWS

CUSTOMER'S COPY

PROOF OF PUBLICATION

CUSTOMER NAME AND ADDRESS	ACCOUNT NUMBER	DATE
DIV OF OIL-GAS & MINING 1594 W NORTH TEMP #1210 P.O. BOX 145801 SALT LAKE CITY, UT 84114	D5385340L-07	06/11/02

ACCOUNT NAME	
DIV OF OIL-GAS & MINING	
TELEPHONE	INVOICE NUMBER
801-538-5340	TL8201MGLU1
SCHEDULE	
START 06/11/02 END 06/11/02	
CUST. REF. NO.	
UIC 293	
CAPTION	
BEFORE THE DIVISION OF OIL, GA	
SIZE	
61 LINES 2.00 COLUMN	
TIMES	RATE
1	1.64
MISC. CHARGES	AD CHARGES
.00	200.08
TOTAL COST	
200.08	

RECEIVED
 JUN 14 2002
 DIVISION OF
 OIL, GAS AND MINING

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

IN THE MATTER OF THE APPLICATION OF INLAND PRODUCTION COMPANY FOR ADMINISTRATIVE APPROVAL OF THE GREATER BOUNDARY 3-27-8-17 AND BELUGA 10-7-9-17 WELLS LOCATED IN SECTIONS 27 AND 7 TOWNSHIPS 8 SOUTH AND 9 SOUTH RANGE 17 EAST, DUCHESNE COUNTY, UTAH, AS CLASS II INJECTION WELLS

NOTICE OF AGENCY ACTION
CAUSE NO. UIC293

THE STATE OF UTAH TO ALL PERSONS INTERESTED IN THE ABOVE ENTITLED MATTER.

Notice is hereby given that the Division of Oil, Gas and Mining (the "Division") is commencing an informal adjudicative proceeding to consider the application of Inland Production Company for administrative approval of the Greater Boundary 3-27-8-17 well located in Section 27, Township 8 South, Range 17 East, and the Beluga 10-7-9-17 well, located in Section 7, Township 9 South, Range 17 East, Duchesne County, Utah, for conversion to Class II injection wells. These wells are located in the Greater Boundary Unit, and the Beluga Unit Units respectively. The adjudicative proceeding will be conducted informally according to Utah Admin. Rule R649-10, Administrative Procedures.

Selective zones in the Green River Formation will be used for water injection. The maximum requested injection pressure and rate will be determined based on fracture gradient information submitted by Inland Production Company.

Any person desiring to object to the proposed application or otherwise intervene in the proceeding, must file a written protest or notice of intervention with the Division within fifteen days following publication of this notice. The Division's Presiding Officer for this proceeding is John R. Baza, Associate Director at PO Box 145801, Salt Lake City, Utah 84114-5801, phone number (801) 538-5277. If such a protest or notice of intervention is received, a hearing will be scheduled in accordance with the aforementioned administrative procedure rule. Proponents and/or interveners should be prepared to demonstrate at the hearing how this matter affects their interests.

AFFIDAVIT OF PUBLICATION

AS NEWSPAPER AGENCY CORPORATION LEGAL BOOKKEEPER, I CERTIFY ADVERTISEMENT OF BEFORE THE DIVISION OF OIL, GA
DIV OF OIL-GAS & MINING WAS PUBLISHED BY CORPORATION, AGENT FOR THE SALT LAKE TRIBUNE AND DESERET PRINTED IN THE ENGLISH LANGUAGE WITH GENERAL CIRCULATION IN SALT LAKE CITY, SALT LAKE COUNTY IN THE STATE OF UTAH.

PUBLISHED ON START 06/11/02 END 06/11/02

SIGNATURE *Phyllis King*
DATE 06/11/02

Dated this 5th day of June, 2002.
STATE OF UTAH
DIVISION OF OIL, GAS & MINING
/s/ John R. Baza
Associate Director

Notary Public
JOANNE MOONEY
2507 Van Buren Avenue
Ogden, Utah 84403
My Commission Expires
April 1, 2004
State of Utah

THIS IS NOT A STATEMENT BUT A "PROOF OF PUBLICATION"
PLEASE PAY FROM BILLING STATEMENT.

a
2027 REC 6131 ~~NUAD2016~~ NUAD2016 BED2



State of Utah
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

1594 West North Temple, Suite 1210
PO Box 145801
Salt Lake City, Utah 84114-5801
(801) 538-5340 telephone
(801) 359-3940 fax
(801) 538-7223 TTY
www.nr.utah.gov

Michael O. Leavitt
Governor

Robert L. Morgan
Executive Director

Lowell P. Braxton
Division Director

August 22, 2002

Inland Production Company
410 Seventeenth Street, Suite 700
Denver, Colorado 80202

Re: Greater Boundary Unit Well: GBU 3-27-8-17, Section 27, Township 8 South,
Range 17 East, Duchesne County, Utah

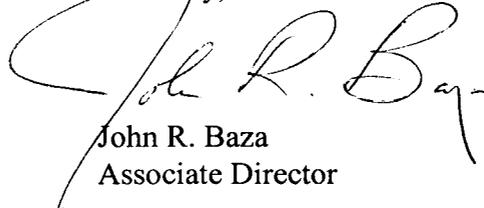
Gentlemen:

Pursuant to Utah Admin. Code R649-5-3-3, the Division of Oil, Gas and Mining (the "Division") issues its administrative approval for conversion of the referenced well to a Class II injection well. Accordingly, the following stipulations shall apply for full compliance with this approval:

1. Compliance with all applicable requirements for the operation, maintenance and reporting for Underground Injection Control ("UIC") Class II injection wells pursuant to Utah Admin. Code R649-1 et seq.
2. Conformance with all conditions and requirements of the complete application submitted by Inland Production Company.
3. A casing\tubing pressure test shall be conducted prior to commencing injection.

If you have any questions regarding this approval or the necessary requirements, please contact Brad Hill (801) 538-5315 or Dan Jarvis at (801) 538-5338.

Sincerely,

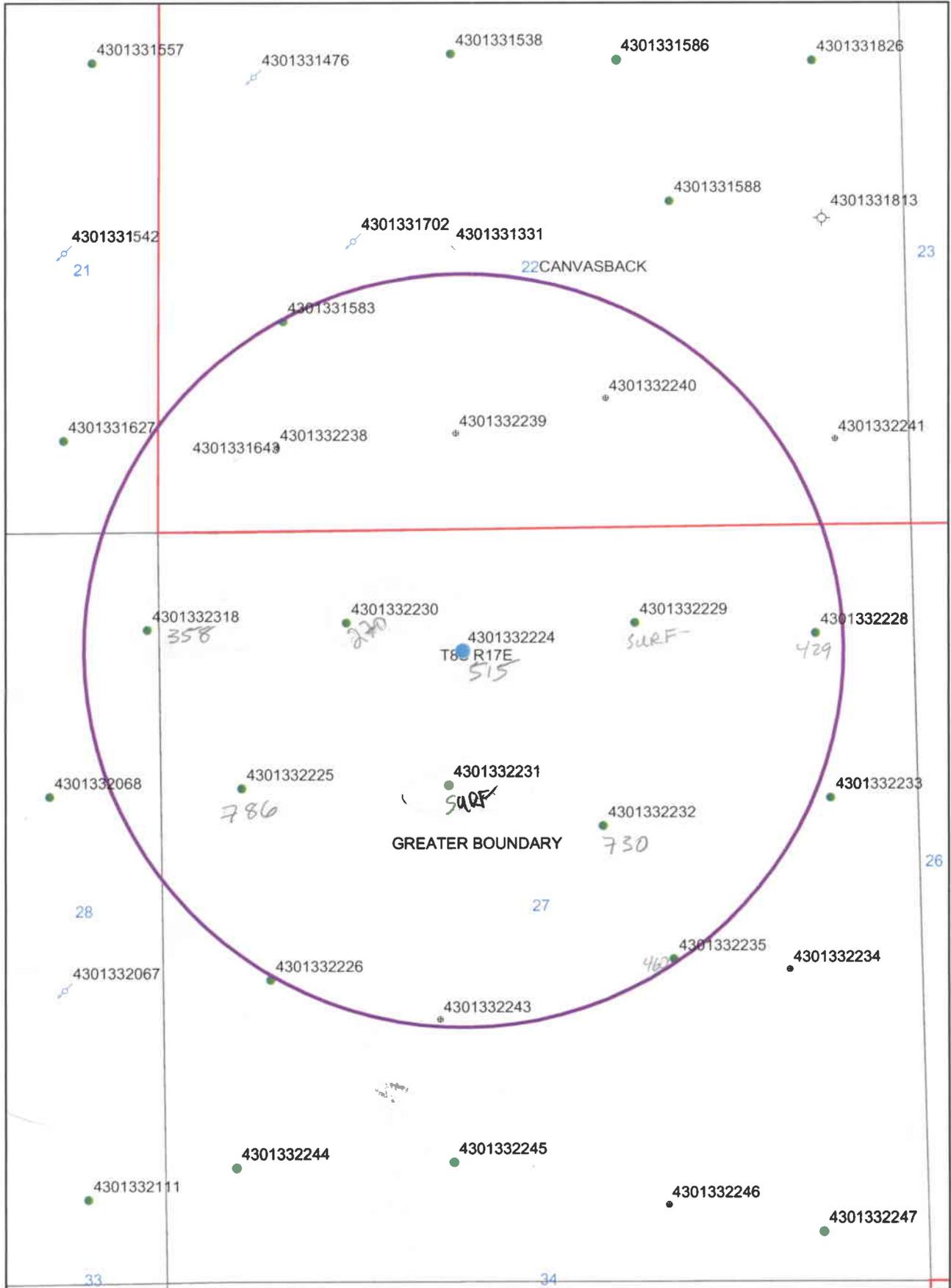


John R. Baza
Associate Director

er

cc: Dan Jackson, Environmental Protection Agency
Bureau of Land Management, Vernal
Inland Production Company, Myton

Greater Boundary 3-27-8-17





UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

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

NOV 4 2002

Ref: 8P-W-GW

CERTIFIED MAIL
RETURN RECEIPT REQUESTED

Mr. David Gerbig
Operations Engineer
Inland Production Co.
410 Seventeenth Street - Suite 700
Denver, CO 80202

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

RE: ADDITIONAL WELL: BOUNDARY AREA PERMIT
Area Permit ID: UT20702-00000
Greater Boundary No. 3-27-8-17
Well ID: UT20702-04675
Duchesne County, Utah

Dear Mr. Gerbig:

The Inland Production Co. (Inland) request **to convert** a former Garden Gulch-Douglas Creek Members of the Green River Formation oil well, the Greater Boundary No. 3-27-8-17, to a Green River Formation Garden Gulch-Douglas Creek Members enhanced recovery injection well is hereby authorized. The proposed Greater Boundary No. 3-27-8-17 Class II enhanced recovery injection well is within the exterior boundary of the Boundary Area Permit UT20702-00000; is within the exterior boundary of the Uintah & Ouray Indian Reservation; and the addition is being made under the authority of 40 CFR § 144.33 (c), and the terms of the Boundary Final Area Permit. Unless specifically mentioned in the enclosed Authorization For An Additional Well, all terms and conditions of the original Area Permit will apply to the conversion, operation, monitoring, and plugging of the Greater Boundary No. 3-27-8-17.

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



Pursuant to Part II. Section C. Condition No. 5, (Injection Pressure Limitation), Boundary Final Area Permit UT20702-00000, the initial surface injection pressure of Class II enhanced recovery injection wells shall not exceed 1800 psig. The EPA, using a 0.70 psi/ft fracture gradient and a perforation depth of 4821 feet, calculated a maximum surface injection pressure (MIP) of 1276 psig. The EPA **authorizes an initial maximum surface injection pressure that shall not exceed an MIP rounded to 1275 psig.** The Boundary Final Area Permit, Part II. C. 4., provides an opportunity for the permittee to request an increase, or decrease, in the initial maximum surface injection pressure.

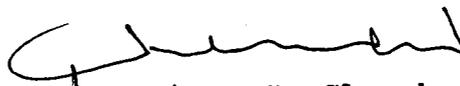
Please be aware that Inland does not have authorization to begin injection into the Greater Boundary no. 3-27-8-17 until the Prior to Commencing Injection requirements, listed above, have been submitted and evaluated by the EPA, and Inland has received written authorization to begin injection from the Assistant Regional Administrator, or the Assistant Regional Administrator's authorized representative.

Please note that the EPA has modified the Permit Authorization Identification (ID) number **from UT2702 to UT20702.** The Well ID remains UT04675. In all future correspondence to the EPA relative to the Greater Boundary No. 3-27-8-17 please use the ID number **UT20702-04675.** Reference to the Boundary Area Permit will be **UT20702-00000.**

Pages five (5) and six (6) of the enclosed AUTHORIZATION FOR AN ADDITIONAL WELL, and specifically PART III. E., describe phone numbers to be used in the event of Permit noncompliance. Please familiarize yourself with the new reporting telephone numbers.

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

Sincerely,



Kerrigan G. Clough
Assistant Regional Administrator
Office of Partnerships and
Regulatory Assistance

enclosures: EPA Form No. 7520-12 (Well Rework Record)
Authorization For An Additional Well
Schematic Diagram: Proposed Conversion

cc w/enclosures: Mr. D. Floyd Wopsock
Chairman
Uintah & Ouray Business Council
Ute Indian Tribe

Ms. Elaine Willie
Environmental Director
Ute Indian Tribe

Superintendent
Bureau of Indian Affairs
Uintah & Ouray Indian Agency

Mr. Mike Guinn
District Engineer
Inland production Company
Route 3 - Box 3630
Myton, UT 84502

Mr. Gil Hunt
State of Utah Natural Resources
Division of Oil, Gas, and Mining

Mr. Jerry Kenczka
BLM - Vernal, UT

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
WASHINGTON, DC 20460



WELL REWORK RECORD

NAME AND ADDRESS OF PERMITTEE

NAME AND ADDRESS OF CONTRACTOR

LOCATE WELL AND OUTLINE UNIT ON SECTION PLAT — 640 ACRES

N									
S									

STATE	COUNTY	PERMIT NUMBER
SURFACE LOCATION DESCRIPTION 1/4 of 1/4 of 1/4 of 1/4 of Section Township Range		
LOCATE WELL IN TWO DIRECTIONS FROM NEAREST LINES OF QUARTER SECTION AND DRILLING UNIT		
Surface Location ____ ft. from (N/S) ____ Line of quarter section and ____ ft. from (E/W) ____ Line of quarter section		
WELL ACTIVITY <input type="checkbox"/> Brine Disposal <input type="checkbox"/> Enhanced Recovery <input type="checkbox"/> Hydrocarbon Storage Lease Name	Total Depth Before Rework Total Depth After Rework Date Rework Commenced Date Rework Completed	TYPE OF PERMIT <input type="checkbox"/> Individual <input type="checkbox"/> Area Number of Wells ____ Well Number

WELL CASING RECORD — BEFORE REWORK

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

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

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

DESCRIBE REWORK OPERATIONS IN DETAIL
USE ADDITIONAL SHEETS IF NECESSARY

WIRE LINE LOGS. LIST EACH TYPE

Log Types	Logged Intervals

CERTIFICATION

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

NAME AND OFFICIAL TITLE (Please type or print)

SIGNATURE

DATE SIGNED

Greater Boundary Unit #3-27-8-17

Spud Date: 4/16/2001
 Put on Production: 7/23/2001
 GL: 5178' KB: 5188'

Initial Production: 11.6 BOPD,
 15.1 MCFD, 95.4 BWPD

Proposed Injector Wellbore Diagram

SURFACE CASING

CSG SIZE: 8-5/8"
 GRADE: J-55
 WEIGHT: 24#
 LENGTH: 8 jts. (302')
 DEPTH LANDED: 301' *Base USDW 188'*
 HOLE SIZE: 12-1/4"
 CEMENT DATA: 180 sxs Class "G" cmt, est 5 bbls cmt to surf

PRODUCTION CASING

CSG SIZE: 5-1/2"
 GRADE: J-55
 WEIGHT: 15.5#
 LENGTH: 150 jts.
 DEPTH LANDED: 609' KB
 HOLE SIZE: 7-7/8"
 CEMENT DATA: 367 sk Prem. Lite II mixed & 525 sxs 50/50 POZ.
 CEMENT TOP AT: ? per CBL

C2: 4078'-4145' -
Garden Gulch: 4140' -
Top 80% Cement 4307'-4356'

TUBING

SIZE/GRADE/WT.: 2-7/8" / J-55 / 6.5#
 NO. OF JOINTS: 189 jts (6111')
 PACKER: ?
 SEATING NIPPLE: 2-7/8" (1.10')
 SN LANDED AT: ? KB
 TOTAL STRING LENGTH: EOT @ ?

FRAC JOB

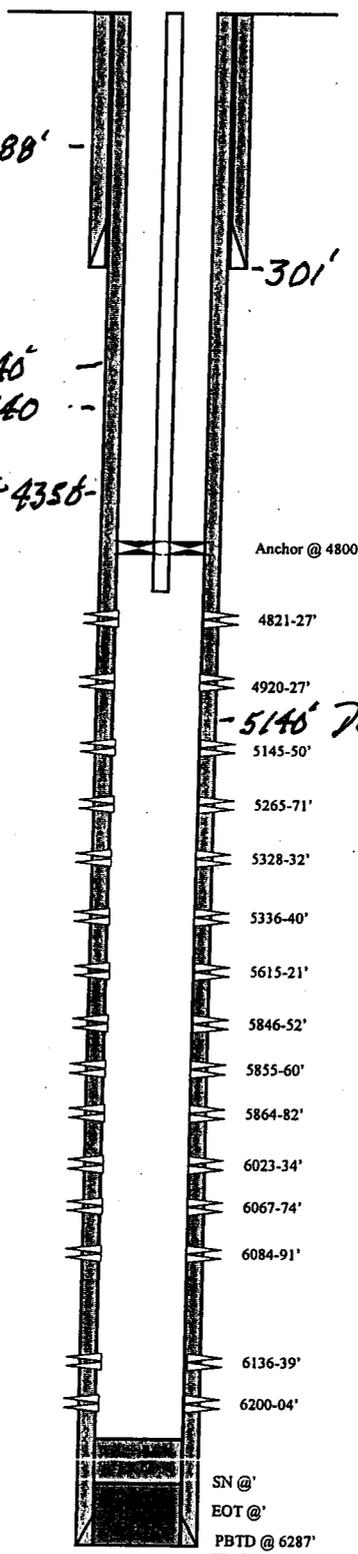
7/16/01 6023'-6204' **Frac CP sand as follows:**
 130,000# 20/40 sand in 768 bbls Viking I-25 fluid. Treated @ avg press of 1550 psi w/avg rate of 35.5 BPM. ISIP 1880 psi. Flowed for 6.5 hrs. then died.

7/17/01 5846'-5882' **Frac LODC sand as follows:**
 120,222# 20/40 sand in 839 bbls Viking I-25 fluid. Treated @ avg press of 2050 psi w/avg rate of 29.5 BPM. ISIP 2310 psi. Flowed for 7.5 hrs. then died.

7/18/01 5265'-5621' **Frac A,C,D, sands as follows:**
 64,220# 20/40 sand in 512 bbls Viking I-25 fluid. Treated @ avg press of 1450 psi w/avg rate of 29.9 BPM. ISIP 1470 psi. Flowed for 4.75 hrs. then died.

7/19/01 5145'-5150' **Frac D-1 sand as follows:**
 26,200# 20/40 sand in 234 bbls Viking I-25 fluid. Treated @ avg press of 1900 psi w/avg rate of 21.8 BPM. Screened out.

7/19/01 4821'-4927' **Frac PB sand as follows:**
 54,260# 20/40 sand in 447 bbls Viking I-25 fluid. Treated @ avg press of 1943 psi w/avg rate of 29.8 BPM. ISIP 2050 psi. Flowed for 3 hrs. then died.



Anchor @ 4800'

4821-27'

4920-27'

5145-50' *-5145' Douglas Creek Mem.*

5265-71'

5328-32'

5336-40'

5615-21'

5846-52'

5855-60'

5864-82'

6023-34'

6067-74'

6084-91'

6136-39'

6200-04'

SN @
 EOT @
 PBTD @ 6287'
 TD @ 6311'

PERFORATION RECORD

Date	Depth Range	Tool	Holes
7/14/01	6200'-6204'	4 JSPF	16 holes
7/14/01	6136'-6139'	4 JSPF	12 holes
7/14/01	6084'-6091'	4 JSPF	28 holes
7/14/01	6067'-6074'	4 JSPF	36 holes
7/14/01	6023'-6034'	4 JSPF	44 holes
7/17/01	5864'-5882'	4 JSPF	72 holes
7/17/01	5855'-5860'	4 JSPF	20 holes
7/17/01	5846'-5852'	4 JSPF	24 holes
7/18/01	5615'-5621'	4 JSPF	24 holes
7/18/01	5336'-5340'	4 JSPF	16 holes
7/18/01	5328'-5332'	4 JSPF	16 holes
7/18/01	5265'-5271'	4 JSPF	24 holes
7/19/01	5145'-5150'	4 JSPF	20 holes
7/19/01	4920'-4927'	4 JSPF	28 holes
7/19/01	4821'-4827'	4 JSPF	24 holes

Inland Resources Inc.

Greater Boundary Unit #3-27-8-17

857' FNL & 2096' FWL

NENW Section 27-T8S-R17E

Duchesne Co, Utah

API #43-013-32224; Lease #UTU-76241



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

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

**AUTHORIZATION FOR AN ADDITIONAL WELL
TO THE
BOUNDARY AREA PERMIT: UT20702-00000**

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

**WELL NAME: GREATER BOUNDARY NO. 3-27-8-17
WELL PERMIT NUMBER: UT20702-04675**

**SURFACE LOCATION: 857' FNL & 2096' FWL (NE NW)
Sec. 27 - T8S - R17E
Duchesne County, Utah.**

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

UNDERGROUND SOURCE OF DRINKING WATER (USDW): The base of the USDW in the Greater Boundary No. 3-27-8-17 (Boundary No. 3-27) occurs within the Uinta Formation approximately **188 feet** from ground level (GL). The source for the location of the base of the USDW is the STATE OF UTAH: PUBLICATION NO. 2. BASE OF MODERATELY SALINE GROUND WATER IN THE UINTA BASIN, UTAH. Surface casing was set at **301 feet** kelly bushing (KB) and cemented to the surface.

POSTPONEMENT OF CONVERSION: The permittee shall notify the Director if the Greater Boundary No. 3-27 is not converted within one (1) year of the effective date of this Authorization of an Additional Well within the Boundary Area Permit UT20702-00000. Authorization to convert and operate shall expire if the Boundary No. 3-27 has not been converted, and the application for the addition of the Boundary No. 3-27 will have to be resubmitted.

CONFINING ZONE REVIEW: Greater Boundary No. 3-27-8-17.

The Boundary Area Permit original Statement of Basis does not identify a specific confining zone proximate to the top of the Douglas Creek Member of the Green River Formation. Adjacent to the top of the Douglas Creek Member, in the Boundary No. 3-27 is a 40-foot (5100 feet to 5140 feet) impermeable shale confining zone. There is 80% annulus bond index cement bond within this confining interval from 5128 feet to 5366 feet.



The Garden Gulch Member of the Green River Formation was added as an injection zone, by Permit Modification on December 29, 1999. In the Boundary No. 3-27, the EPA identifies the confining zone directly overlying the top of the Garden Gulch as a 67-foot silty, black organic shale and argillaceous silt from 4073 feet to 4140 feet (CBL/GR). An EPA analysis of the Cement Bond Log/Gamma Ray (CBL/GR) indicates no 80% annulus bond index cement bond across or within the confining interval. In the Boundary No. 3-27, the top of the Garden Gulch Member is 4140 feet CBL/GR).

An EPA analysis of the **Greater Boundary No. 3-27 CBL/GR does not identify continuous 80% annulus bond index cement bond** across or within the Garden Gulch confining zone, pursuant to standards of Region 8 GROUND WATER SECTION GUIDANCE NO. 34: Cement Bond Logging Techniques and Interpretation. Therefore, it **has been determined** that the cement in this well **does not provide** an effective barrier to significant upward movement of fluids through vertical channels adjacent to the wellbore, pursuant to 40 CFR 146.8 (a) (2). The permittee **will be required** to demonstrate Part II Mechanical Integrity (MI) within a 180-day period of limited authorization.

INJECTION ZONE REVIEW: Greater Boundary No. 3-27-8-17

By Minor Permit Modification (May 20, 1998), the Boundary Area Permit identifies the combined gross intervals of the Garden Gulch and the Douglas Creek Members of the Green River Formation as the approved injection zone. In the Boundary No. 3-27, the top of the Garden Gulch Member is 4140 feet (CBL/GR). **The authorized injection zone for this well is 4140 feet to total depth 6311 feet in the Douglas Creek Member.**

The injectate is primarily water obtained from the Johnson Water District reservoir ((600 mg/l total dissolved solids (TDS)), and lesser volume of produced Garden Gulch-Douglas Creek Members water (65,024 mg/l TDS).

WELL CONSTRUCTION REVIEW: Greater Boundary No. 3-27-8-17

SURFACE CASING: 8-5/8 inch casing is set at 301 feet in a 12-1/4 inch hole, using 180 sacks of Class "G" cement circulated to the surface. The base of the USDWs is approximately 188 feet from ground level.

LONGSTRING CASING: 5-1/2 inch casing is set at 6289 feet kelly bushing (KB) in a 7-7/8 inch hole. The 5-1/2 inch casing was cemented with 367 sacks of Premium Lite II mixed with 525 sacks of 50/50 Poz.

The operator does not identify the top of cement.

The EPA analysis of the CBL/GR shows the shallowest interval of 80% annulus cement bond index is from 4307 feet to 4350 feet.

PART II. A. CONSTRUCTION REQUIREMENTS FOR ADDITIONAL WELLS**Tubing and Packer:**

(Condition 3)

For injection purposes, the **Greater Boundary No. 3-27** will be equipped with 2-7/8 tubing with a packer to be set at a depth no higher than 100 feet above the top perforation.

Formation Testing and Logging

(Condition 6)

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

PART II. B.**Corrective Action:**

As of October 2002, there are three (3) Garden Gulch-Douglas Creek Members oil wells within one-quarter (1/4) mile of the proposed injection well.

Garden Gulch-Douglas Creek Members Oil Well:**Greater Boundary Unit No. 2-27-8-17: (NW SE Sec. 27 - T8S - R17E)**

The confining zone (4052 feet to 4106 feet) immediately above the top of the Garden Gulch Member (4106 feet) has no 80% annulus bond index cement bond.

When a fluid leak is observed at the surface of the Greater Boundary Unit No. 2-27-8-17, the permittee will suspend injection into the Greater Boundary No. 3-27-8-17 and the well will stay suspended until the non-compliance has been resolved, and renewed injection has been approved in writing by the Director.

Greater Boundary Unit No. 4-27-8-17: (NW NW Sec. 27 - T8S - R17E)

The confining zone (4066 feet to 4142 feet) immediately above the top of the Garden Gulch Member (4142 feet) has no 80% annulus bond index cement bond.

When a fluid leak is observed at the surface of the Greater Boundary No. 4-27-8-17, the permittee will suspend injection into the Greater Boundary No. 3-27-8-17 and the well will stay suspended until the non-compliance has been resolved, and renewed injection has been approved in writing by the Director.

Greater Boundary Unit No. 6-27-8-27: (SE NW Sec. 27 - T8S - R17E)

The confining zone (4033 feet to 4096 feet) immediately above the top of the Garden Gulch Member (4096 feet) has no 80% annulus bond index cement bond.

When a fluid leak is observed at the surface of the Greater Boundary No. 6-27-8-17, the permittee will suspend injection into the Greater Boundary No. 3-27-8-17 and the well will stay suspended until the non-compliance has been resolved, and renewed injection has been approved in writing by the Director.

PART II. C.

Prior to Commencing Injection (Additional Wells):

(Condition 2)

Greater Boundary No. 3-27-8-17: This document is being issued without authority to inject. Prior to beginning injection, the operator is required to submit the following information for EPA review and written approval:

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

Confirmation that the injectate will be confined to the authorized injection zone:

It has been determined that the annulus cement in this well does not provide an effective barrier to significant upward movement of fluids through vertical channels adjacent to the wellbore (Part II MI), pursuant to 40 CFR 146.8 (a) (2).

Within a *180-day Limited Authorization To Inject Period*, the permittee/operator shall demonstrate **Part II (External) Mechanical Integrity**, i.e., no migration of fluid adjacent to the well bore. This demonstration may be made by using a Cement Bond Log, Temperature Survey, Noise Log, or Radioactive Tracer Survey under

certain circumstances. If a Temperature Survey, Noise Log, or Radioactive Tracer Survey is used, the Director may authorize a limited period for injection prior to the test to allow for stabilization of the injection formation prior to the test.

Injection Interval:

(Condition 3)

Injection shall be limited to the **gross Garden Gulch and Douglas Creek Members of the Green River Formation, 4140 feet (KB) (CBL/GR) to 6311 Total Depth in the Douglas Creek Member.**

Injection Pressure Limitation:

(Condition 4)

Pursuant to Final Area Permit UT20702-00000, Part II. Section C. 4. (b). the maximum surface injection pressure (MIP) shall not exceed 1800 psig. However, a sand-frac treatment of the injection perforations permits calculation of a fracture gradient of 0.70 psi/ft, and an MIP of 1275. Until such time that a step-rate injectivity test (SRT) has been performed, reviewed, and approved by the EPA, the EPA authorizes an initial maximum surface injection pressure (MIP) for the **Greater Boundary No. 3-27-8-17 of 1275 psig.**

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

$$\text{FG} = 0.70 \text{ psi/ft.}$$

$$\text{SG} = 1.005$$

$$\text{D} = 4821 \text{ feet. Top perforation.}$$

$$\text{MIP} = [0.70 - (0.433)(1.005) 4821]$$

$$\text{MIP} = 1276 \text{ psig, rounded down to 1275 psig.}$$

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

PART II. F.

Demonstration of Financial Responsibility:

(Condition 1)

The applicant has chosen to demonstrate financial responsibility with **\$45,000 Trust Fund**, which includes **\$15,000** to cover the Plugging and Abandonment of the Greater Boundary No. 3-27-8-17. The **Trust Fund** has been reviewed and approved by the EPA.

PART III. E.**Reporting of Noncompliance:**

(Condition 10)

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

Twenty-Four Hour Noncompliance Reporting:

(Condition 11)

The operator shall report to the Director any noncompliance which may endanger health or environment. Information shall be provided, either orally or by leaving a message, within twenty-four (24) hours from the time the operator becomes aware of the circumstances by telephoning **1.800.227.8917** and **asking for the EPA Region VIII UIC Program Compliance and Enforcement Director**, or by contacting the **Region VIII Emergency Operations Center at 303.293.1788** if calling from outside the EPA Region VIII. The following information shall be included in the verbal report:

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

Oil Spill and Chemical Release Reporting:

(Condition 12)

The operator shall comply with all other reporting requirements related to oil spills and chemical releases or other potential impacts to human health or the environment by contacting the National response Center (NRC) at 1.800.424.8802, or 202.267.2675, or through the NRC website at <http://www.nrc.uscg.mil/index.htm>.

Other Noncompliance:

(Condition 13)

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

Other Information:

(Condition 14)

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

APPENDIX C

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

PLUG NO. 1: Set a 100-foot cement plug on top of a cast iron bridge plug set at 4730 feet.

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

PLUG NO. 3: Set a cement plug, on the inside of the 5-1/2 inch casing, from 280 feet to 390 feet. Base of USDW is 342 feet.

PLUG NO. 4: Set a cement plug, on the backside of the 5-1/2 inch casing, from surface to a depth 351 feet.

PLUG NO. 5: Set a cement plug, on the inside of the 5-1/2 inch casing, from the surface to a depth of 50 feet.

This authorization for well conversion of the Greater Boundary No. 3-27-8-17 to an enhanced recovery injection well becomes effective upon signature.

Date: NOV 4 2002



Kerrigan G. Clough
Assistant Regional Administrator
Office of Partnerships and Regulatory Assistance

**DIVISION OF OIL, GAS AND MINING
UNDERGROUND INJECTION CONTROL PROGRAM
PERMIT
STATEMENT OF BASIS**

Applicant: Inland Production Company **Well:** GBU 3-27-8-17

Location: 27/8S/17E **API:** 43-013-32224

Ownership Issues: The proposed well is located on land owned by Joseph & Carol Shields. The well is located in the Greater Boundary Unit. Lands in the one-half mile radius of the well are owned by Joseph & Carol Shields, Brad & JoAnn Nelson and Lee & Louise Nelson. The Federal Government is the mineral owner within the area of review. Inland and various other individuals hold the leases in the unit. Inland has provided a list of all surface, mineral and lease holders in the half-mile radius. Inland is the operator of the Greater Boundary Unit. Inland has submitted an affidavit stating that all owners and interest owners have been notified of their intent.

Well Integrity: The proposed well has surface casing set at 302 feet and has a cement top at the surface. A 5 ½ inch production casing is set at 6299'. A cement bond log demonstrates adequate bond in this well up to 515 feet. A 2 7/8 inch tubing with a packer will be set at 4800. A mechanical integrity test will be run on the well prior to injection. There are 9 producing wells, 1 injection well and 1 P&A well in the area of review. All of the wells have evidence of adequate casing and cement. No corrective action will be required.

Ground Water Protection: According to Technical Publication No. 92 the base of moderately saline water is at a depth of approximately 200 feet. Injection shall be limited to the interval between 4138 feet and 6204 feet in the Green River Formation. All of these perforations will not be opened initially. Each time that new perforations are added and the packer is moved or disturbed an MIT shall be run to provide evidence of mechanical integrity. Information submitted by Inland indicates that the fracture gradient for the 3-27-8-17_well is .70 psi/ft., which was the lowest reported fracture gradient for the injection zone. The resulting minimum fracture pressure for the proposed injection interval is 1411 psig. The requested maximum pressure is 1411 psig. The anticipated average injection pressure is 1100 psig. Injection at this pressure should not initiate any new fractures or propagate existing fractures in the adjacent confining intervals. Any ground water present should be adequately protected.

GBU 3-27-8-17

page 2

Oil/Gas& Other Mineral Resources Protection: The Board of Oil, Gas & Mining approved the Greater Boundary Unit August 24, 1992 and expanded it on April 8, 1998. Correlative rights issues were addressed at this time. Previous reviews in this area indicate that other mineral resources in the area have been protected or are not at issue.

Bonding: Bonded with the BLM

Actions Taken and Further Approvals Needed: A notice of agency action has been sent to the Salt Lake Tribune and the Uinta Basin Standard. A casing/tubing pressure test will be required prior to injection. It is recommended that approval of this application be granted.

Note: Applicable technical publications concerning water resources in the general vicinity of this project have been reviewed and taken into consideration during the permit review process.

Reviewer(s): Brad Hill Date 08/22/2002

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

1. SUNDRY NOTICES AND REPORTS ON WELLS (Do not use this form for proposals to drill or to deepen or plug back to a different reservoir. Use "APPLICATION FOR PERMIT-" for such proposals.) OIL WELL <input type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <input checked="" type="checkbox"/>		5. LEASE DESIGNATION AND SERIAL NO. UTU-76241 6. IF INDIAN, ALLOTTEE OR TRIBAL NAME N/A 7. UNIT AGREEMENT NAME GREATER BOUNDARY	
2. NAME OF OPERATOR INLAND PRODUCTION COMPANY		8. FARM OR LEASE NAME GBU 3-27-8-17	
3. ADDRESS OF OPERATOR Rt. 3 Box 3630, Myton Utah 84052 435-646-3721		9. WELL NO. GBU 3-27-8-17	
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.) At surface NE/NW Section 27, T8S R17E 857 FNL 2096 FWL		10. FIELD AND POOL, OR WILDCAT MONUMENT BUTTE 11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA NE/NW Section 27, T8S R17E	
14. API NUMBER 43-013-32224	15. ELEVATIONS (Show whether DF, RT, GR, etc.) 5178 GR	12. COUNTY OR PARISH DUCHESNE	13. STATE UT

16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:		SUBSEQUENT REPORT OF:	
TEST WATER SHUT-OFF <input type="checkbox"/>	PULL OR ALTER CASING <input type="checkbox"/>	WATER SHUT-OFF <input type="checkbox"/>	REPAIRING WELL <input type="checkbox"/>
FRACTURE TREAT <input type="checkbox"/>	MULTIPLE COMPLETE <input type="checkbox"/>	FRACTURE TREATMENT <input type="checkbox"/>	ALTERING CASING <input type="checkbox"/>
SHOOT OR ACIDIZE <input type="checkbox"/>	ABANDON* <input type="checkbox"/>	SHOOTING OR ACIDIZING <input type="checkbox"/>	ABANDONMENT* <input type="checkbox"/>
REPAIR WELL <input type="checkbox"/>	<input type="checkbox"/>	(OTHER) <input checked="" type="checkbox"/> Injection Conversion	
(OTHER) <input type="checkbox"/>	<input type="checkbox"/>	(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)	

17 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.)*

The subject well was converted from a producing to an injection well on 1/15/03. The rods and tubing anchor were removed and a packer was inserted in bottom hole assembly at 4483'. On 1/17/03 Mr. Chuck Tinsley w/EPA was contacted on the intent to conduct a MIT on the casing. On 1/20/03 the casing was pressured to 1125 psi w/ no pressure loss charted in the 1/2 hour test. No governmental agencies were able to witness the test.

18 I hereby certify that the foregoing is true and correct

SIGNED Krishna Russell TITLE Production Clerk DATE 1/21/2003
Krishna Russell

cc: BLM
(This space for Federal or State office use)

APPROVED BY _____ TITLE _____ DATE _____
 CONDITIONS OF APPROVAL, IF ANY:

Mechanical Integrity Test

Casing or Annulus Pressure Mechanical Integrity Test

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

EPA Witness: _____ Date: 1 / 20 / 03
 Test conducted by: BRET HENRIE
 Others present: _____

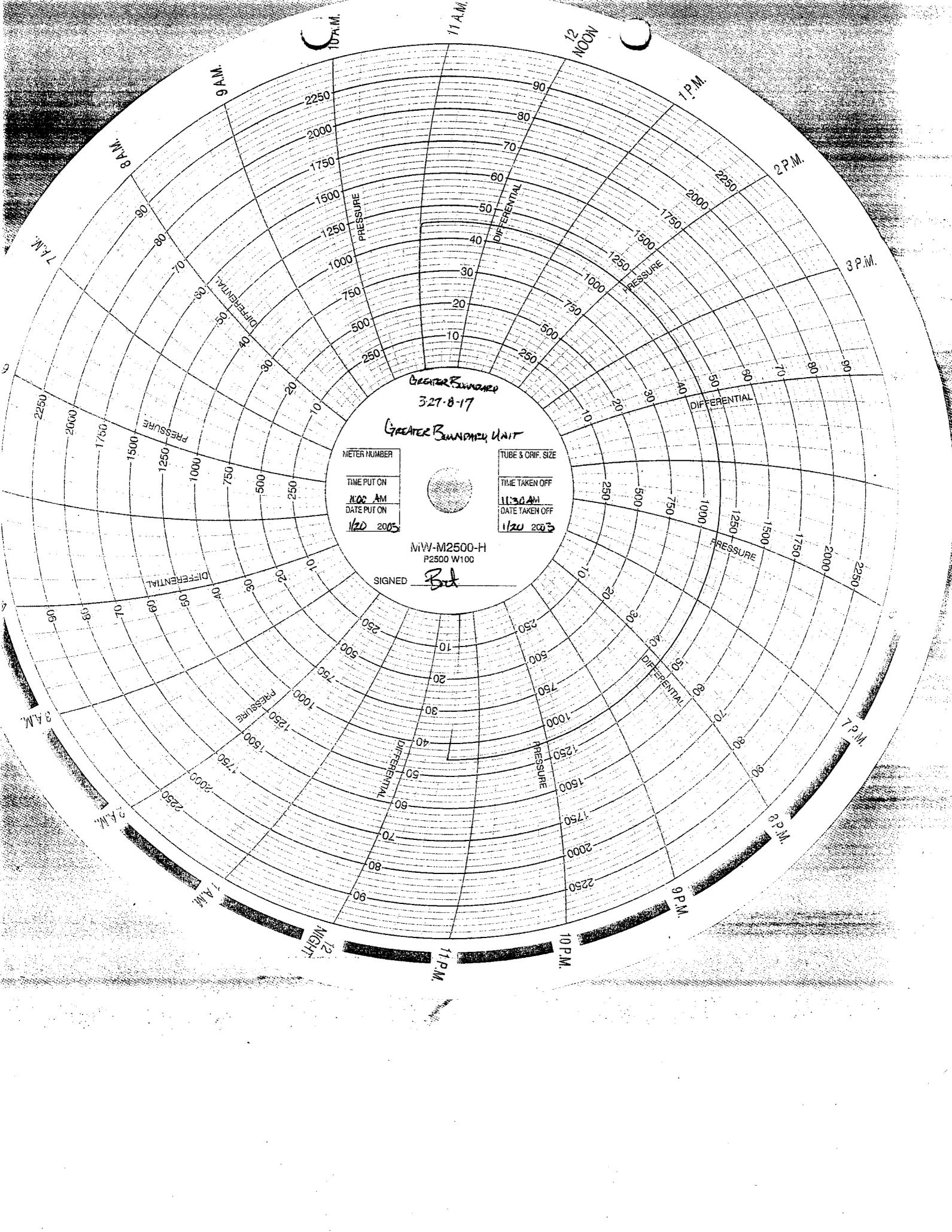
Well Name: <u>GREATER BOUNDARY 327-8-17</u>	Type: ER SWD	Status: AC TA UC
Field: <u>GREATER BOUNDARY UNIT</u>		
Location: <u>NE/NW</u> Sec: <u>27</u> T <u>8S</u> N/S R <u>17</u> E/W County: <u>DUCHESSNE</u> State: <u>LA</u>		
Operator: <u>INLAND PRODUCTION CO</u>		
Last MIT: <u>- / - / -</u> Maximum Allowable Pressure: <u>N/A</u> PSIG		

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

Pre-test casing/tubing annulus pressure: 0 psig

MIT DATA TABLE	Test #1	Test #2	Test #3
TUBING PRESSURE			
Initial Pressure	770 psig	psig	psig
End of test pressure	psig	psig	psig
CASING / TUBING ANNULUS PRESSURE			
0 minutes	1125 psig	psig	psig
5 minutes	1125 psig	psig	psig
10 minutes	1125 psig	psig	psig
15 minutes	1125 psig	psig	psig
20 minutes	1125 psig	psig	psig
25 minutes	1125 psig	psig	psig
30 minutes	1125 psig	psig	psig
minutes	psig	psig	psig
minutes	psig	psig	psig
RESULT	<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



Greater Burnside
3-27-8-17

Greater Burnside Unit

METER NUMBER

TUBE & ORIF. SIZE

TIME PUT ON

TIME TAKEN OFF

11:00 AM

11:30 AM

DATE PUT ON

DATE TAKEN OFF

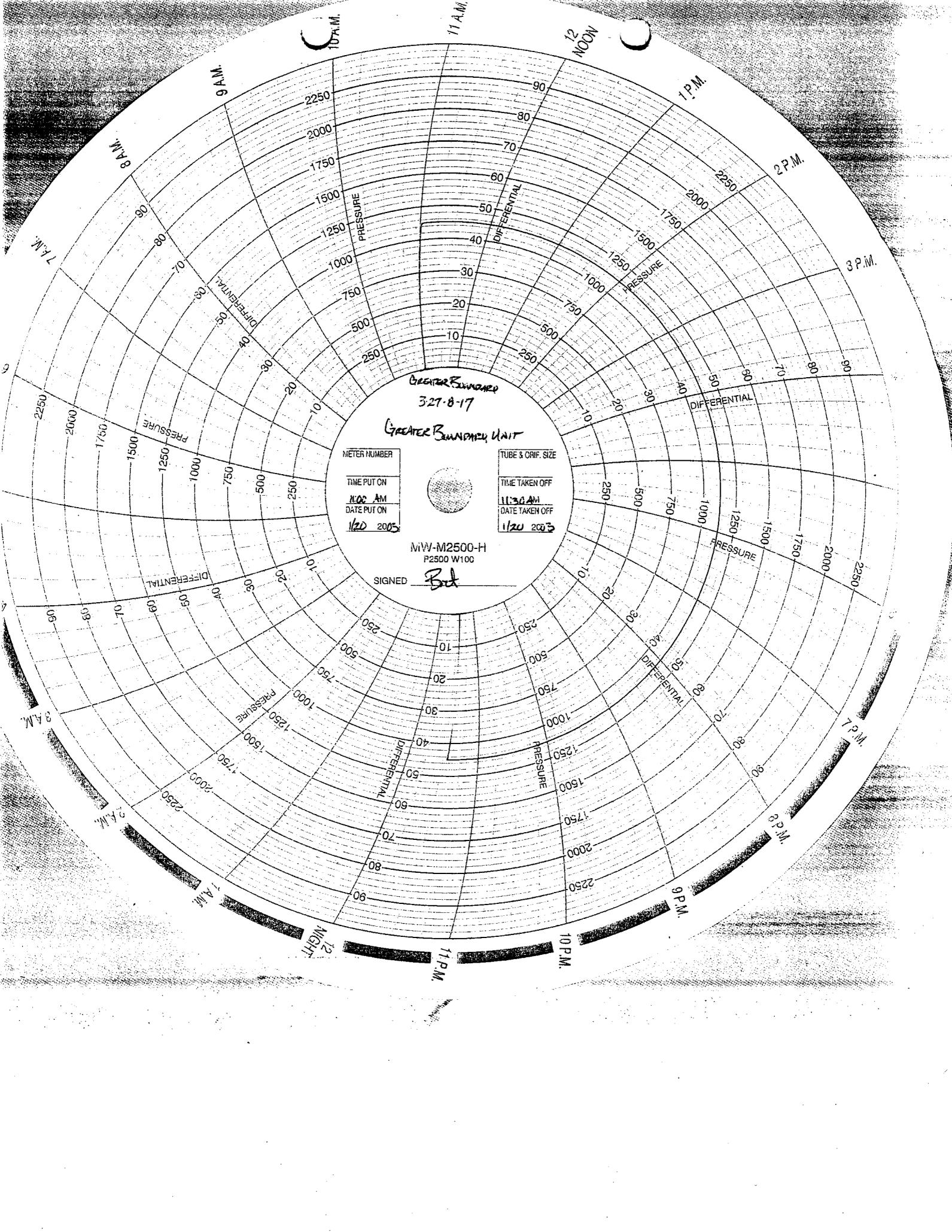
1/20 2005

1/20 2005

MW-M2500-H
P2500 W100

SIGNED

Bdt





State of Utah
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

1594 West North Temple, Suite 1210
PO Box 145801
Salt Lake City, Utah 84114-5801
(801) 538-5340 telephone
(801) 359-3940 fax
(801) 538-7223 TTY
www.nr.utah.gov

Michael O. Leavitt
Governor
Robert L. Morgan
Executive Director
Lowell P. Braxton
Division Director

UNDERGROUND INJECTION CONTROL PERMIT

Cause No. UIC-293

Operator: Inland Production Company
Well: Greater Boundary Unit (GBU) 3-27-8-17
Location: Section 27, Township 8 South, Range 17 East
County: Duchesne
API No.: 43-013-32224
Well Type: Enhanced Recovery (waterflood)

Stipulations of Permit Approval

1. Approval for conversion to Injection Well issued on August 22, 2002.
2. Maximum Allowable Injection Pressure: 1411 psig
3. Maximum Allowable Injection Rate: (restricted by pressure limitation)
4. Injection Interval: Green River Formation (4138' - 6204')

Approved by:



John R. Baza
Associate Director

1/27/2003
Date

er

cc: Dan Jackson Environmental Protection Agency
Bureau of Land Management, Vernal
Inland Production Company, Myton



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

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

Ref: 8P-W-GW

FEB - 4 2003

RECEIVED

CERTIFIED MAIL
RETURN RECEIPT REQUESTED

FEB 06 2003

DIV. OF OIL, GAS & MINING

Mr. David Gerbig
Operations Engineer
Inland Production Company
410 Seventeenth Street - Suite 700
Denver, CO 80202

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

RE: **180-Day Limited Authorization to Inject**
Greater Boundary No. 3-27-8-17
EPA Well Permit No. UT20702-04675
NE NW Sec. 26 - T8S - R17E
Duchesne County, Utah

Dear Mr. Gerbig:

The Inland Production Company (Inland) submission of **Prior to Commencing Injection** documents, on December January 21, 2003, did contain all information required to fulfill the Environmental Protection Agency's (EPA) **Prior to Commencing Injection** requirements, as stated in the **Authorization for an Additional Well to the Boundary Area Permit (UT20702-04675): Part II, Section C. Condition 2**. The submitted data included an EPA Well Rework Form (Form No. 7520-12), a Part I (Internal) Mechanical Integrity Test, and the injection zone pore pressure. All data was reviewed and approved by the EPA on January 27, 2003.

The EPA is hereby **authorizing injection into the Greater Boundary No. 3-27-8-17 for a limited period of up to one hundred and eighty (180) calendar days effective upon receipt of this letter, herein referred to as the "Limited Authorized Period"**.

Because the cement bond log submitted for this well did not show an adequate interval of 80% or greater bond index through the confining zone overlying the Garden Gulch Member, **the operator is required to demonstrate Part II (External) Mechanical Integrity (Part II MI) within the 180-day "Limited Authorized Period"**. The demonstration shall be by temperature survey or other approved test. Approved tests for demonstrating Part II (External) MI include a noise log or oxygen activation log, and Region 8 may also accept results of a Radioactive Tracer Survey under certain circumstances. The "Limited Authorized Period" allows injection for the purpose of stabilizing the injection formation pressure prior to demonstrating Part II MI, which is necessary because the proposed injection zone is under-pressured due to previous oil

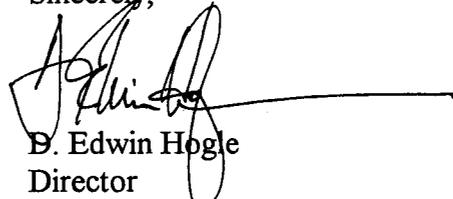


production from the zone, and the tests rely on stable formation pressure. Results of tests shall be submitted to, and written approval with authority to re-commence injection received from, EPA prior to resuming injection following the "Limited Authorized Period". Copies of Region 8 Guidelines for conducting Part II (External) Mechanical Integrity Tests are enclosed with this letter.

An initial maximum surface injection pressure (MSIP) **not to exceed 1800 psig** was determined February 8, 1994 for the Boundary Area Permit UT20702-00000. Part II, Section C. Condition No. 4 (Authorization for An Additional Well) limits the maximum initial surface injection pressure (MSIP) to **1275 psig**. Should the operator apply for an increase to the MSIP at any future date, another demonstration of Part II (External) MI must be conducted in addition to the step rate test. The operator must receive prior authorization from the Director in order to inject at pressures greater than the permitted MSIP during the test(s).

If you have any questions in regard to the above action, please contact Dan Jackson at 1.800.227.8917 (Ext. 6155). Results from the Temperature Log, or other Part II MI test, should be mailed directly to the **ATTENTION: DAN JACKSON**, at the letterhead address citing **MAIL CODE: 8P-W-GW** very prominently.

Sincerely,



D. Edwin Hogle
Director
Ground Water Program

enclosure: EPA Guideline No. 37: Part II (External) MI
EPA Guideline for Temperature Logging
Oxygen Activation Logging
Radioactive Tracer Survey

cc w/ encl: Mr. Mike Guinn
Inland Production Company
Myton, UT 84502

cc w/o encl: Mr. D. Floyd Wopsock
Chairman
Uintah & Ouray Business Committee
Ute Indian Tribe

Ms. Elaine Willie
Environmental Director
Ute Indian Tribe

Superintendent
BIA
Uintah & Ouray Indian Agency

Mr. Gil Hunt
State of Utah Natural Resources
Division of Oil, Gas, and Mining

Mr. Jerry Kenczka
Bureau of Land Management
Vernal District Office

Mr. Nathan Wiser, 8ENF-T

FOR RECORD ONLY
DIVISION OF OIL AND GAS
STATE OF UTAH
APPROVED FOR
TO BE RECORDED

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

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

SUNDRY NOTICES AND REPORTS ON WELLS

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

5. Lease Designation and Serial No.

UTU-76241

6. If Indian, Allottee or Tribe Name

NA

7. If Unit or CA, Agreement Designation

GREATER BOUNDARY

8. Well Name and No.

GBU 3-27-8-17

9. API Well No.

43-013-32224

10. Field and Pool, or Exploratory Area

MONUMENT BUTTE

11. County or Parish, State

DUCHESNE COUNTY, UTA

SUBMIT IN TRIPLICATE

1. Type of Well

Oil Well Gas Well Other

2. Name of Operator

INLAND PRODUCTION COMPANY

3. Address and Telephone No.

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

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

857 FNL 2096 FWL NE/NW Section 27, T8S R17E

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

TYPE OF SUBMISSION

Notice of Intent
 Subsequent Report
 Final Abandonment Notice

TYPE OF ACTION

Abandonment
 Recompletion
 Plugging Back
 Casing Repair
 Altering Casing
 Other **Report of first injection**

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.)*

The above referenced well was put on injection at 3:00 p.m. on 2/10/03.

RECEIVED

FEB 12 2003

DIV. OF OIL, GAS & MINING

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

Signed

Mandie Crozier
Mandie Crozier

Title

Permit Clerk

Date

2/11/2003

CC: UTAH DOGM

(This space for Federal or State office use)

Approved by

Title

Date

Conditions of approval, if any:

**Inland Production Company
Greater Boundary 3-27-8-17 and Beluga 10-7-9-17
Cause No. UIC 293**

Publication Notices were sent to the following:

Inland Production Company
410 Seventeenth St, Suite 700
Denver, CO 80202

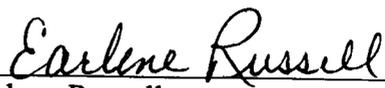
Via fax (435) 722-4140
Uintah Basin Standard
268 S 200 E
Roosevelt, UT 84066-3109

via E-Mail and Facsimile (801) 237-2776
Salt Lake Tribune
PO Box 45838
Salt Lake City, UT 84145

Vernal District Office
Bureau of Land Management
170 S 500 E
Vernal, UT 84078

Duchesne County Planning
PO Box 317
Duchesne, UT 84066-0317

Dan Jackson
US EPA Region VIII, Suite 5000
999 18th Street
Denver, CO 80202-2466



Earlene Russell
Executive Secretary
June 6, 2002

STATE OF UTAH
 DIVISION OF OIL, GAS, AND MINING

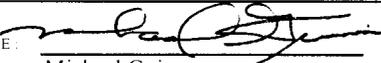
<p>1 SUNDRY NOTICES AND REPORTS ON WELLS</p> <p>Do not use this form for proposals to drill new wells, deepen existing wells, or to reenter plugged and abandoned wells. Use "APPLICATION FOR PERMIT TO DRILL OR DEEPEN" form for such proposals.</p> <p>OIL WELL <input type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <input checked="" type="checkbox"/> Injection Well</p> <p>2 NAME OF OPERATOR INLAND PRODUCTION COMPANY</p> <p>3 ADDRESS AND TELEPHONE NUMBER Rt. 3 Box 3630, Myton Utah 84052 435-646-3721</p> <p>4 LOCATION OF WELL</p> <p>Footages 857 FNL 2096 FWL</p> <p>QQ, SEC, T, R, M: NE/NW Section 27, T8S R17E</p>	<p>5 LEASE DESIGNATION AND SERIAL NO. UTU-76241</p> <p>6 IF INDIAN, ALLOTTEE OR TRIBAL NAME N/A</p> <p>7 UNIT AGREEMENT NAME GREATER BOUNDARY</p> <p>8 WELL NAME and NUMBER GBU 3-27-8-17</p> <p>9 API NUMBER 43-013-32224</p> <p>10 FIELD AND POOL, OR WILDCAT MONUMENT BUTTE</p> <p>COUNTY DUCHESNE STATE UTAH</p>
---	---

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

<p>NOTICE OF INTENT: (Submit in Duplicate)</p> <p><input type="checkbox"/> ABANDON <input type="checkbox"/> NEW CONSTRUCTION</p> <p><input type="checkbox"/> REPAIR CASING <input type="checkbox"/> PULL OR ALTER CASING</p> <p><input type="checkbox"/> CHANGE OF PLANS <input type="checkbox"/> RECOMPLETE</p> <p><input type="checkbox"/> CONVERT TO INJECTION <input type="checkbox"/> REPERFORATE</p> <p><input type="checkbox"/> FRACTURE TREAT OR ACIDIZE <input type="checkbox"/> VENT OR FLARE</p> <p><input type="checkbox"/> MULTIPLE COMPLETION <input type="checkbox"/> WATER SHUT OFF</p> <p><input type="checkbox"/> OTHER _____</p>	<p>SUBSEQUENT REPORT OF: (Submit Original Form Only)</p> <p><input type="checkbox"/> ABANDON* <input type="checkbox"/> NEW CONSTRUCTION</p> <p><input type="checkbox"/> REPAIR CASING <input type="checkbox"/> PULL OR ALTER CASING</p> <p><input type="checkbox"/> CHANGE OF PLANS <input type="checkbox"/> RECOMPLETE</p> <p><input type="checkbox"/> CONVERT TO INJECTION <input type="checkbox"/> REPERFORATE</p> <p><input type="checkbox"/> FRACTURE TREAT OR ACIDIZE <input type="checkbox"/> VENT OR FLARE</p> <p><input checked="" type="checkbox"/> OTHER <u>Step Rate Test</u></p> <p>DATE WORK COMPLETED _____</p> <p>Report results of Multiple Completion and Recompletions to different reservoirs on WELL COMPLETION OR RECOMPLETION REPORT AND LOG form.</p> <p><small>*Must be accompanied by a cement verification report.</small></p>
--	--

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. (Clearly state all pertinent details, and give pertinent dates. If well is directionally drilled, give subsurface locations and measured and true vertical depth for all markers and zones pertinent to this work.

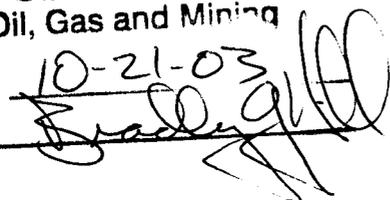
A step rate test was conducted on the subject well on 10/9/03 Results from the test indicate that formation parting pressure was not reached. Therefore, Inland is requesting the maximum allowable injection pressure (MAIP) be changed to 1350 psi or .733 psi/ft to reflect the highest pressure achieved during the test.

13. NAME & SIGNATURE:  TITLE Vice President of Operations DATE 10/15/2003

Michael Guinn

(This space for State use only)

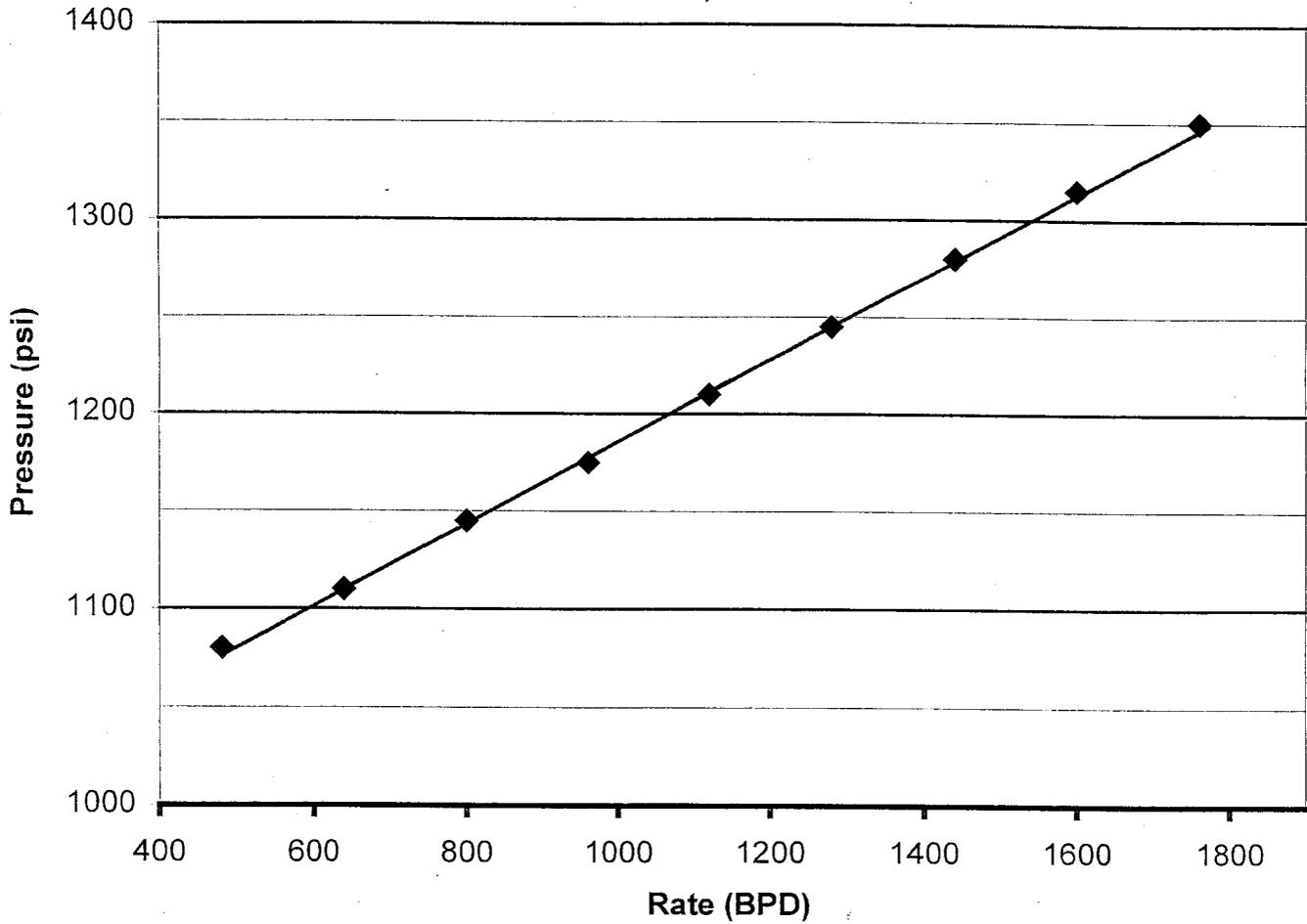
Accepted by the
Utah Division of
Oil, Gas and Mining

Date: 10-21-03
 By: 

COPY SENT TO OPERATOR
 Date: 10-22-03
 Initials: CHO

RECEIVED
 OCT 20 2003
 DIV OF OIL & GAS

Greater Boundry 3-27-8-17
Greater Boundry Unit
Step Rate Test
October 8, 2003



Start Pressure: 1050 psi
Instantaneous Shut In Pressure (ISIP): 1350 psi
Top Perforation: 4536 feet
Fracture pressure (Pfp): 1350 psi
FG: 0.733 psi/ft

Step	Rate(bpd)	Pressure(psi)
1	40	1050
2	80	1050
3	160	1050
4	320	1060
5	480	1080
6	640	1110
7	800	1145
8	960	1175
9	1120	1210
10	1280	1245
11	1440	1280
12	1600	1315
13	1760	1350

GREATER BOUNDARY
3-27-8-17
GREATER BOUNDARY UNIT

400 ft
10/8 03

600 ft
10/8 03

BBMey
Kimman

7 PM



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

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

OCT 29 2003

Ref: 8P-W-GW

CERTIFIED MAIL
RETURN RECEIPT REQUESTED

Mr. Michael Guinn
Vice President of Operations
Inland Production Company
Route 3 - Box 3630
Myton, UT 84052

RE: UNDERGROUND INJECTION CONTROL (UIC)
**APPROVAL TO INCREASE MAXIMUM
SURFACE INJECTION PRESSURE**
EPA Permit No. UT20702-04675
Greater Boundary No. 3-27-8-17
NE NW Sec. 12 - T8S - R17E
Duchesne County, Utah

Dear Mr. Guinn:

The Environmental Protection Agency (EPA) Boundary Area Permit UT20702-00000 (Effective February 8, 1994), Part II, Section C. 4. (b), permits the "Director" to authorize, by letter, an increase in the maximum surface injection pressure (MIP) for the Greater Boundary No. 3-27-8-17 following receipt and approval of a valid step-rate test (SRT).

On October 10, 2003, Inland Production Company (Inland) submitted an SRT, dated October 8, 2003, which was reviewed and approved by the EPA on October 16, 2003. This SRT shows the fracture gradient (FG) for the Garden Gulch/Douglas Creek/Basal Carbonate Members of the Green River Formation injection interval to be 0.733 psi/ft.

As of the date of this letter, the EPA authorizes an increase in the maximum surface injection pressure (MIP) from 1275 psig to 1350 psig.

Accepted by the
Utah Division
Oil, Gas and
FOR RECORD



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FG = 0.733 psi/ft
 D = 4536 feet: Top perforation
 SG = Specific gravity: 1.005

 MIP = [(0.733) - (0.433)(1.005)] 4536

MIP = 1350 psig

Please send all compliance correspondence relative to this well to the **ATTENTION: NATHAN WISER**, at the letterhead address, citing **MAIL CODE: 8ENF-T** very prominently. You may call Mr. Wisser at 303-312-6211, or 1-800-227-8917 (Ext. 6211).

Sincerely,

Carol S. Campbell for

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

cc: Ms. Maxine Natchees
 Chairwoman
 Uintah & Ouray Business Council
 Ute Indian Tribe
 P.O. Box 190
 Fort Duchesne, Ut 84026

Ms. Elaine Willie
 Environmental Coordinator
 Ute Indian Tribe
 P.O. Box 460
 Fort Duchesne, UT 84026

Mr. Chester Mills
 Superintendent
 Bureau of Indian Affairs
 Uintah & Ouray Indian Agency
 P.O. Box 130
 Fort Duchesne, UT 84026

Mr. David Gerbig
 Operations Engineer
 Inland Production Company
 410 Seventeenth Street - Suite 700
 Denver, CO 80202

Mr. Gil Hunt
Technical Services Manager
State of Utah - Natural Resources
Division of Oil, Gas and Mining
1594 West North Temple - Suite 1220
Salt Lake City, UT 84111-00581

Mr. Jerry Kenczka
Petroleum Engineer
Bureau of Land Management
Vernal District
170 South 500 East
Vernal, UT 84078

Mr. Nathan Wiser
8ENF-T



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

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

NOV 24 2003

Ref: 8P-W-GW

CERTIFIED MAIL
RETURN RECEIPT REQUESTED

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

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

RE: AUTHORIZATION TO CONTINUE INJECTION
Greater Boundary No. 3-27-8-17
EPA Well Permit ID: UT20702-04675
Boundary Area Permit: UT20702-00000
Duchesne County, Utah

Dear Mr. Guinn:

Thank you for submitting to the Region VIII Ground Water Program office, of the Environmental Protection Agency (EPA), the results from the November 3, 2003, Radioactivity Tracer Survey (RATS) used to demonstrate Part II (External) Mechanical Integrity (MI) test on the Greater Boundary 3-27-8-17 Class II injection well. A limited injection period of up to 180 days was authorized beginning February 4, 2003 to allow for stabilization of the injection formation pressure prior to demonstrating Part II (External) Mechanical Integrity.

The results of the RATS were reviewed and approved on November 13, 2003, and the EPA has determined that the test adequately demonstrated Part II MI; that injected fluids will remain in the authorized injection interval. Therefore, the EPA hereby authorizes continued injection into the Greater Boundary No. 3-27-8-17 under the terms and conditions of EPA Well Permit No. UT20702-04675 and the Boundary Area Permit UT20702-00000..

The authorized maximum allowable injection pressure for the Greater Boundary No. 3-27-8-17 continues to be 1275 psig.

RECEIVED

NOV 26 2003

DIV. OF OIL, GAS & MINING



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You may apply for a higher maximum allowable injection pressure at a later date. Your application should be accompanied by the interpreted results from a Step-Rate test (SRT) that measures the formation fracture pressure and the fracture gradient at this location. A current copy of EPA Guidelines for running and interpreting a SRT will be submitted upon request. Should the SRT result in approval of a higher maximum allowable injection pressure, a new Part II (External) Mechanical Integrity demonstration must be run to show that the injected fluids will remain in the authorized injection interval at the higher pressure. Please note that to use a pressure greater than the MAIP of **1275 psig** during a Step-Rate Test and Radioactive Tracer Survey (RATS), you must first receive prior written authorization from the Director.

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

Mr. Nathan Wisler
Technical Enforcement Program - UIC
U.S. EPA Region VIII: Mail Code 8ENF-T
999 - 18th Street - Suite 300
Denver, CO 80202-2466.

Please be reminded that it is your responsibility to be aware of and to comply with all conditions of your Permit. If you have any questions regarding this approval, please call Dan Jackson, of my staff, at (800) 227-8917 (X6155). For questions regarding notification, testing, monitoring, reporting or other Permit requirements, Nathan Wisler of the UIC Technical Enforcement Program may be reached by calling (800) 227-8917 (X6211).

Sincerely,


Sandra A. Stavnes
Director
Ground Water Program

cc: Ms. Maxine Natchees
Chairwoman
Uintah & Ouray Business Committee
Ute Indian Tribe
Fort Duchesne, UT

Ms. Elaine Willie
Environmental Director
Ute Indian Tribe
Fort Duchesne, UT

Mr. Chester Mills
Superintendent
Bureau of Indian Affairs
Uintah & Ouray Indian Agency
Fort Duchesne, UT

David Gerbig
Operations Engineer
Inland Production Company
Denver, CO

Mr. Gil Hunt
State of Utah Natural Resources
Division of Oil, Gas, and Mining
Salt Lake City, UT

Mr. Jerry Kenczka
Bureau of Land Management
Vernal District
Vernal, UT

Mr. Nathan Wiser
8ENF-T



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

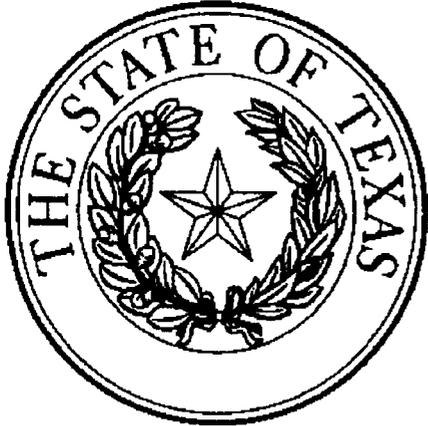
The undersigned, as Secretary of State of Texas, does hereby certify that the attached is a true and correct copy of each document on file in this office as described below:

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 1st day of September, 2004.

INLAND RESOURCES INC.

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

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

UIC FORM 5

TRANSFER OF AUTHORITY TO INJECT

Well Name and Number See Attached List		API Number
Location of Well		Field or Unit Name See Attached List
Footage :	County :	Lease Designation and Number
QQ, Section, Township, Range:	State : UTAH	

EFFECTIVE DATE OF TRANSFER: 9/1/2004

CURRENT OPERATOR

Company: <u>Inland Production Company</u>	Name: <u>Brian Harris</u>
Address: <u>1401 17th Street Suite 1000</u>	Signature: <u><i>Brian Harris</i></u>
city <u>Denver</u> state <u>Co</u> zip <u>80202</u>	Title: <u>Engineering Tech.</u>
Phone: <u>(303) 893-0102</u>	Date: <u>9/15/2004</u>
Comments:	

NEW OPERATOR

Company: <u>Newfield Production Company</u>	Name: <u>Brian Harris</u>
Address: <u>1401 17th Street Suite 1000</u>	Signature: <u><i>Brian Harris</i></u>
city <u>Denver</u> state <u>Co</u> zip <u>80202</u>	Title: <u>Engineering Tech.</u>
Phone: _____	Date: <u>9/15/2004</u>
Comments:	

(This space for State use only)

Transfer approved by: *A. Hunt*
Title: *Tech. Services Manager*

Approval Date: *9-20-04*

Comments: *Note: Indian Country wells will require EPA approval.*

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DIV. OF OIL, GAS & MINING

OPERATOR CHANGE WORKSHEET

ROUTING

1. GLH
2. CDW
3. FILE

Change of Operator (Well Sold)

Designation of Agent/Operator

X Operator Name Change

Merger

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

9/1/2004

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

CA No.

Unit:

GREATER BOUNDARY (GR)

WELL(S)

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

OPERATOR CHANGES DOCUMENTATION

Enter date after each listed item is completed

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

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

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

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

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

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

DATA ENTRY:

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

FEDERAL WELL(S) BOND VERIFICATION:

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

INDIAN WELL(S) BOND VERIFICATION:

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

FEE & STATE WELL(S) BOND VERIFICATION:

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

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

LEASE INTEREST OWNER NOTIFICATION:

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

COMMENTS:

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



1
UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION 8
999 18TH STREET - SUITE 300
DENVER, CO 80202-2466
Phone 800-227-8917
<http://www.epa.gov/region08>

AUTHORIZATION FOR AN ADDITIONAL WELL
TO THE
BOUNDARY AREA PERMIT: UT20702-00000

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

WELL NAME: GREATER BOUNDARY NO. 13-27-8-17

WELL PERMIT NUMBER: UT20702-06522

**SURFACE LOCATION: 794' FSL & 518' FWL (SW SW)
Sec. 27 - T8S - R17E
Duchesne County, Utah.**

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

UNDERGROUND SOURCE OF DRINKING WATER (USDW): The base of the USDW (Total Dissolved Solids less than 10,000 mg/l) occurs within the Uinta Formation **less than 50 feet** from ground level (GL). The source for the location of the base of the USDW is the STATE OF UTAH: PUBLICATION NO. 2. BASE OF MODERATELY SALINE GROUND WATER IN THE UINTA BASIN, UTAH. Surface casing was set at **306 feet** kelly bushing (KB) and cemented to the surface.

Reference: <http://NRWRT1.NR.STATE.UT.US...> Water Rights...Queries...POD: Within the one-quarter (1/4) mile Area-of-Review (AOR) around the Greater Boundary No.13-27-8-17 there are no reservoirs, streams, springs or wells.

WATER ANALYSES:

Produced Green River Formation Water: (8/04/04) 10,183 mg/l TDS.

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

Blended Injectate: (8/09/01) 5947 mg/l TDS.



CONFINING ZONE REVIEW: GREATER BOUNDARY NO. 13-27-8-17. (3848 feet to 3922 feet).

The EPA has authorized the gross interval from the top of the Garden Gulch Member to the top of the Wasatch as the enhanced recovery injection interval within the Boundary Area Permit. Overlying the top of the Garden Gulch Member (3922 feet), in the Greater Boundary No. 13-27-8-17, are seventy-four (74) feet of Green River Formation black, slightly silty, impervious shale which forms an effective lithologic confining zone 3848 feet to 3922 feet.

INJECTION ZONE REVIEW: GREATER BOUNDARY NO. 13-27-8-17.

The Greater Boundary No.13-27-8-17E Final Area Permit (Effective February 8, 1994) authorized injection into the Douglas Creek Member of the Green River Formation. By Major Permit Modification No. 3 (Effective May 19, 2003), the EPA authorized the gross Green River Formation Garden Gulch-Douglas Creek-Basal Carbonate Members as the enhanced recovery injection interval for the Boundary Area Permit. This Modification also recognized the **Federal No. 1-26** (NE NW Sec. 26 - T8S - R17E), UIC Permit No. UT20702-04671, as the **TYPE WELL** for identifying the tops of the Garden Gulch Member, the Douglas Creek Member, the Basal Carbonate Member, the top of the Wasatch Formation and the "Confining Zone" overlying the top of the Garden Gulch Member.

The authorized injection zone for the Greater Boundary No. 13-27-8-17 will be from the Garden Gulch Member (3922 feet) to the top of the Wasatch Formation (Estimated to be 6281 feet).

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

WELL CONSTRUCTION REVIEW: GREATER BOUNDARY NO. 13-27-8-17.

SURFACE CASING: 8-5/8 inch casing is set at 306 feet in a 12-1/4 inch hole, using 145 sacks of Class "G" cement circulated to the surface. The base of the USDW is less than fifty (50) feet from ground level.

LONGSTRING CASING: 5-1/2 inch casing is set at 6285 feet kelly bushing (KB) in a 7-7/8 inch hole, and cemented with 350 sacks of Premium Lite II mixed and 550 sacks of 50/50 Pozmix.

The operator does not identify the top of cement.

The EPA analysis of the CBL/GR identifies 80% cement bond index from 4050 feet to 4146 feet.

An EPA analysis of the Greater Boundary No. 13-27-8-17 CBL/GR did not identify continuous 80% bond index cement bond across the Garden Gulch Member confining zone, pursuant to standards of Region 8 GROUND WATER SECTION GUIDANCE NO. 34: Cement Bond Logging Techniques and Interpretation. Therefore, **it has been determined that the cement in this well may not provide an effective barrier to upward movement of fluids through vertical channels adjacent to the wellbore, pursuant to 40 CFR 146.8 (a) (2). The permittee will be required to demonstrate Part II Mechanical Integrity (MI) within a 180-day period of limited authorization to inject**

PART II. A. CONSTRUCTION REQUIREMENTS FOR ADDITIONAL WELLS

Tubing and Packer:

(Condition 3)

For injection purposes, the **Greater Boundary No. 13-27-8-17** shall be equipped with 2-7/8 tubing with a packer to be set at a depth no higher than 100 feet above the top perforation.

Formation Testing and Logging

(Condition 6)

- (a) Upon conversion of the **Greater Boundary No. 13-27-8-17**, the permittee is required to determine the injection zone **fluid pore pressure** (static bottom hole pressure) prior to commencement of enhanced recovery injection operation. The results of this test shall be submitted to the EPA.
- (b) A **Step-Rate Test (SRT)** shall be performed on the **Greater Boundary No. 13-27-8-17** within three (3) to six (6) months after injection operations are initiated and the results submitted to the EPA. The permittee may contact the EPA prior to conducting the SRT to acquire the most current Guidance for conducting the SRT.

PART II. B.Corrective Action

As of March 2005, there are two (2) active Green River oil wells within the one-quarter (1/4) mile radius around the Greater Boundary No. 13-27-8-17. No wells need Corrective Action.

Garden Gulch-Douglas Creek Members Oil Well:

<u>Greater Boundary No. 12-27-8-17:</u>	NW SW Sec. 27 -T8S-R17E
Top Garden Gulch Member:	4044 feet
Garden Gulch Confining Zone:	4006 feet to 4044 feet
Top 80% EPA Cement Bond:	4260 feet - 4291 feet
Top Douglas Creek Member:	5030 feet
Total Depth (Driller):	6302 feet in Douglas Creek Member

The 38-foot confining shale overlying the top of the Garden Gulch Member is not protected by 80% bond index cement bond. This lack of confining zone annulus cement may not prevent upward movement of injected fluids through vertical channels adjacent to the well bore. The permittee will be required to inspect the surface of this location for fluid leaks on a weekly basis. **Any observation of surface leakage may be considered as noncompliance with the Greater Boundary No. 13-27-8-17 Permit.** The Greater Boundary No. 13-27-8-17 shall suspend operations immediately, and will stay suspended until the noncompliance has been resolved, and renewed injection has been approved in writing by the Director.

Douglas Creek Member Oil Well:

<u>Tar Sands Federal No. 16-28-8-17:</u>	SE SE Sec. 28-T8S-R17E
Top Garden Gulch Member:	3928 feet
Garden Gulch Confining Zone:	3862 feet to 3928 feet
Top 80% EPA Cement Bond:	4094 feet to 4338 feet
Top Douglas Creek Member:	4914 feet
Total Depth (Driller):	6167 feet in Douglas Creek Member

The 66-foot confining shale overlying the top of the Garden Gulch Member is not protected by 80% bond index cement bond. This lack of confining zone annulus cement may not prevent upward movement of injected fluids through vertical channels adjacent to the well bore. The permittee will be required to inspect the surface of this location for fluid leaks on a weekly basis. **Any observation of surface leakage may be considered as noncompliance with the Greater**

Boundary No. 13-27-8-17 Permit. The Greater Boundary No. 13-27-8-17 shall suspend operations immediately, and will stay suspended until the noncompliance has been resolved, and renewed injection has been approved in writing by the Director.

PART II. C.

Prior to Commencing Injection (Additional Wells)

(Condition 2)

Greater Boundary No. 13-27-8-17: This document is being issued without authority to inject. Prior to beginning injection, the operator is required to submit the following information for EPA review and written approval:

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

Confirmation that the injectate will be confined to the authorized injection zone: It has been determined that the annulus cement in this well **may not provide an effective barrier to significant upward movement of fluids** through vertical channels adjacent to the wellbore (Part II MI), pursuant to 40 CFR §146.8 (a) (2). Within a **180-day Limited Authorization to Inject Period**, the permittee/operator shall demonstrate **Part II (External) Mechanical Integrity**

Injection Interval

(Condition 3)

Injection shall be limited to the gross Garden Gulch, Douglas Creek and Basal Carbonate Members of the Green River Formation from 3922 feet (KB) to the top of the Wasatch Formation, estimated to be 6281 feet (KB).

Injection Pressure Limitation

(Condition 4)

Pursuant to Final Area Permit UT20702-00000, Part II. Section C. 4. (b). the maximum allowable injection pressure (MAIP) shall not exceed 1800 psig. Until such time that a Step-Rate Test (SRT) has been performed, reviewed and approved by the EPA, the initial MAIP for the Greater Boundary No. 13-27-8-17 shall not exceed **1545 psig**.

A fracture gradient (FG) of 0.750 psi/ft is the minimum value FG calculated from five (5) sand/frac treatments. However, a review of FG values within Section 27 and proximate to Section 27 suggest that a FG of 0.750 will be acceptable for the initial calculation of the MAIP for the Greater Boundary No. 13-27-8-17.

Until such time that a step-rate injectivity test (SRT) has been performed, reviewed, and approved by the EPA, the initial maximum allowable injection pressure (MAIP) for the **Greater Boundary No. 13-27-8-17** shall not exceed **1545 psig**.

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

$$\text{FG} = 0.750 \text{ psi/ft}$$

$$\text{SG} = 1.005$$

$$\text{D} = 4905 \text{ feet. Top perforation.}$$

$$\text{MAIP} = [0.750 - (0.433)(1.005) 4905]$$

$$\text{MAIP} = 1544 \text{ psig, but rounded up to } \mathbf{1545 \text{ psig.}}$$

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

PART II. F.Demonstration of Financial Responsibility:

(Condition 1)

The current plugging and abandonment cost for the Greater Boundary No. 9-27-8-17 is estimated to be \$33,025.00. The applicant has chosen to demonstrate financial responsibility via a **Financial Statement** that has been reviewed and approved by the EPA.

PART III. E.**Reporting of Noncompliance:**

(Condition 10)

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

Twenty-Four Hour Noncompliance Reporting:

(Condition 11)

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

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

Oil Spill and Chemical Release Reporting:

(Condition 12)

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

Other Noncompliance:

(Condition 13)

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

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

APPENDIX C

PLUGGING AND ABANDONMENT: The Plugging and Abandonment (P&A) Plan (Application Attachment Q-2) submitted by the applicant has been modified by the EPA with the inclusion of PLUG No. 4. The modified P&A Plan has been reviewed and approved by the EPA. The P&A Plan is now consistent with EPA requirements to protect all USDWs. The permittee will place 9.2 ppg plugging gel or bentonite mud between all cement plugs.

PLUG NO. 1: Set a cast iron bridge plug (CIBP) at 4810 feet. Place 100 feet of Class "G" cement on top of CIBP.

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

PLUG NO. 3: Pump Class "G" cement down the 5-1/2 inch casing to a depth of 356 feet.

PLUG NO. 4: Place cement in the annulus between the 5-1/2 inch casing and the 8-5/8 inch casing to a depth of 356 feet.

This authorization for well conversion of the Greater Boundary No. 9-27-8-17 to an injection well becomes effective upon signature.

Date: MAR 22 2005

Carl L Campbell for

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

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
WASHINGTON, DC 20460



WELL REWORK RECORD

NAME AND ADDRESS OF PERMITTEE

NAME AND ADDRESS OF CONTRACTOR

LOCATE WELL AND OUTLINE UNIT ON SECTION PLAT — 640 ACRES

STATE _____ COUNTY _____

PERMIT NUMBER _____

SURFACE LOCATION DESCRIPTION

1/4 of 1/4 of 1/4 of 1/4 of Section _____ Township _____ Range _____

LOCATE WELL IN TWO DIRECTIONS FROM NEAREST LINES OF QUARTER SECTION AND DRILLING UNIT

Surface Location _____ ft. from (N/S) _____ Line of quarter section

and _____ ft. from (E/W) _____ Line of quarter section

WELL ACTIVITY

- Brine Disposal
- Enhanced Recovery
- Hydrocarbon Storage

Lease Name _____

Total Depth Before Rework _____

Total Depth After Rework _____

Date Rework Commenced _____

Date Rework Completed _____

TYPE OF PERMIT

- Individual
 - Area
- Number of Wells _____

Well Number _____

N			
S			

WELL CASING RECORD — BEFORE RWORK

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

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

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

DESCRIBE REWORK OPERATIONS IN DETAIL
USE ADDITIONAL SHEETS IF NECESSARY

WIRE LINE LOGS. LIST EACH TYPE

Log Types

Logged Intervals

CERTIFICATION

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

NAME AND OFFICIAL TITLE (Please type or print)

SIGNATURE

DATE SIGNED



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

REGION VIII

999 18th STREET - SUITE 500

DENVER, COLORADO 80202-2466

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

FROM: Tom Pike, Chief
UIC Direct Implementation Section

TO: All Section Staff
Montana Operations Office

Introduction

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

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

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

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



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

Pressure Test Description

Test Frequency

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

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

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



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

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

Test Pressure

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

Test Criteria

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

Recordkeeping and Reporting

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



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

Procedures for Pressure Test

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

Following steps are at the well:

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



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

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



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

Alternative Test Option

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

Attachment



Mechanical Integrity Test

Casing or Annulus Pressure Mechanical Integrity Test

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

EPA Witness: _____ Date: ____/____/____
 Test conducted by: _____
 Others present: _____

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

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

Pre-test casing/tubing annulus pressure: _____ psig

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

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

Greater Boundary #13-27-8-17

Spud Date: 7/20/2001
Put on Production: 8/31/2001

GL: 5085' KB: 5095'

SURFACE CASING

CSG SIZE: 8-5/8"
GRADE: J-55
WEIGHT: 24#
LENGTH: 7 jts. (297.37')
DEPTH LANDED: 306.37'
HOLE SIZE: 12-1/4"
CEMENT DATA: 145 sxs Class "G" cmt, est 1 bbl cmt to surf

Base USDW's < 50'

PRODUCTION CASING

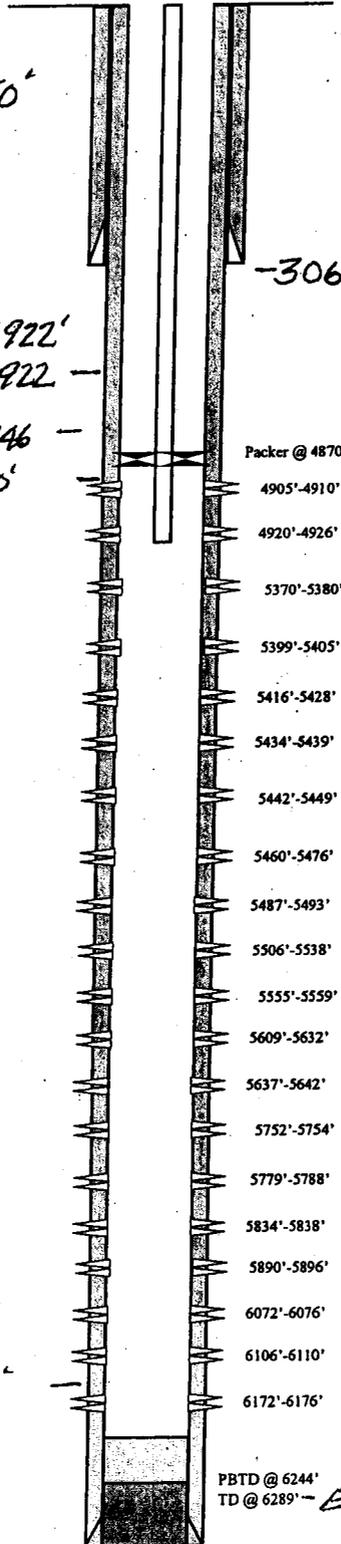
CSG SIZE: 5-1/2"
GRADE: J-55
WEIGHT: 15.5#
LENGTH: 148 jts. (6289.76')
DEPTH LANDED: 6285.36'
HOLE SIZE: 7-7/8"
CEMENT DATA: 350 sk Prem. Lite II mixed & 550 sxs 50/50 POZ.
CEMENT TOP AT: ? per CBL

Confining Zone 3848 - 3922'
Garden Gulch 3922'
80% Bond Cement 4055' - 4146'
Douglas Cr. 4900'

TUBING

SIZE/GRADE/WT.: 2-7/8" / J-55 / 6.5#
NO. OF JOINTS: 140 jts (4900')
TUBING PACKER: 4900'
NO. OF JOINTS: 1 jt (31.78')
SEATING NIPPLE: 2-7/8" (1.10')
SN LANDED AT: 4931' KB
TOTAL STRING LENGTH: EOT @ 4931'

Proposed Injection
Wellbore Diagram



FRAC JOB

Date	Depth Range	Description
8/17/01	5752'-6176'	Frac CP sand as follows: 126,440# 20/40 sand in 776 bbls Viking I-25 fluid. Treated @ avg press of 1550 psi w/avg rate of 35.9 BPM. ISIP 1800 psi. Flowed for 6 hrs then died.
8/21/01	5609'-5642'	Frac LowerLODC sand as follows: 128,440# 20/40 sand in 901 bbls Viking I-25 fluid. Treated @ avg press of 2300 psi w/avg rate of 30.3 BPM. ISIP 2675 psi. Flowed for 5 hrs then died.
8/22/01	5460'-5559'	Frac UpperLODC sands as follows: 248,100# 20/40 sand in 1599 bbls Viking I-25 fluid. Treated @ avg press of 1600 psi w/avg rate of 36.6 BPM. ISIP 1850 psi. Flowed for 12 hrs then died.
8/23/01	5370'-5449'	Frac A sands as follows: 176,520# 20/40 sand in 1153 bbls Viking I-25 fluid. Treated @ avg press of 1950 psi w/avg rate of 31.7 BPM. ISIP 2230 psi. Flowed for 11 hrs then died.
8/24/01	4905'-4926'	Frac D sands as follows: 38,520# 20/40 sand in 364 bbls Viking I-25 fluid. Treated @ avg press of 1800 psi w/avg rate of 31.8 BPM. ISIP 2450 psi. Flowed for 4 hrs then died.

PERFORATION RECORD

Date	Depth Range	Perforations
8/17/01	6172'-6176'	4 JSPF 16 holes
7/17/01	6106'-6110'	4 JSPF 16 holes
7/17/01	6072'-6076'	4 JSPF 16 holes
7/17/01	5890'-5896'	4 JSPF 24 holes
7/17/01	5834'-5838'	4 JSPF 16 holes
7/17/01	5779'-5788'	4 JSPF 36 holes
7/17/01	5752'-5754'	4 JSPF 08 holes
7/21/01	5637'-5642'	4 JSPF 20 holes
7/21/01	5609'-5632'	4 JSPF 92 holes
7/22/01	5555'-5559'	4 JSPF 16 holes
7/22/01	5506'-5538'	4 JSPF 128 holes
7/22/01	5487'-5493'	4 JSPF 24 holes
7/22/01	5460'-5476'	4 JSPF 64 holes
7/23/01	5442'-5449'	4 JSPF 28 holes
7/23/01	5434'-5439'	4 JSPF 20 holes
7/23/01	5416'-5428'	4 JSPF 44 holes
7/23/01	5399'-5405'	4 JSPF 24 holes
7/23/01	5370'-5380'	4 JSPF 40 holes
7/24/01	4920'-4926'	4 JSPF 24 holes
7/24/01	4905'-4910'	4 JSPF 20 holes

Base Carbonate 6156'

PBTD @ 6244'
TD @ 6289' - *Est. base tech 6281'*

Inland Resources Inc.

Greater Boundary #13-27-8-17

794' FSL & 518' FWL

SW/SW. Section 27-T8S-R17E

Duchesne Co, Utah

API #43-013-32244; Lease #UTU-76241

4301332224



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

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

MAR 22 2005

Ref: 8P-W-GW

CERTIFIED MAIL
RETURN RECEIPT REQUESTED

RECEIVED

MAR 23 2005

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

DIV. OF OIL, GAS & MINING

RE: ADDITIONAL WELL TO AREA PERMIT
Boundary Area Permit: UT20702-00000
Greater Boundary No.13-27-8-17
Well ID: 20702-06522
SW SW Sec. 27 - T8S - 17E
Duchesne County, Utah

Dear Mr. Guinn:

The Newfield Production Co. (Newfield) request **to convert** a former Green River Formation oil well, the Greater Boundary No. 13-27-8-17, to a Garden Gulch-Douglas Creek-Basal Carbonate Members of the Green River Formation enhanced recovery injection well in the Boundary Area Permit is hereby authorized. The proposed Greater Boundary No. 13-27-8-17 Class II enhanced recovery injection well is within the exterior boundary of the Boundary Area Permit UT20702-00000; is within the exterior boundary of the Uintah & Ouray Indian Reservation; and the addition is being made under the authority of 40 CFR § 144.33 (c) and the terms of the Area Permit. Unless specifically mentioned in the enclosed Authorization For An Additional Well, all terms and conditions of the original Area Permit will apply to the conversion, operation, monitoring, and plugging and abandonment of the Greater Boundary No. 13-27-8-17.

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



Printed on Recycled Paper

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

Part II. Section C. Condition No. 4 (b), (Injection Pressure Limitation), Greater Boundary Area Permit (UT20702-00000) , cites the method by which the maximum allowable injection pressure (MAIP) shall be calculated for each Additional Well to the Boundary Area Permit. As a result, the MAIP for the Greater Boundary No. 13-27-8-17 shall not exceed **1545 psig**. The Boundary Area Permit, Part II. C. 4., provides an opportunity for the permittee to request an increase, or decrease, in the initial maximum surface injection pressure.

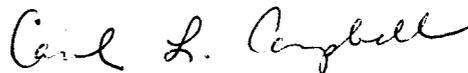
Because the Cement Bond Log (CBL) submitted for this well did not show any 80% bond index cement bond within the Confining Zone overlying the Garden Gulch Member, **the operator shall be required to demonstrate Part II (External) Mechanical Integrity within a 180-Day Limited Authorization to Inject period**. This demonstration may be made by a Temperature Survey, Noise Log, or Oxygen Activation Log, and Region 8 may accept the results from a Radioactive Tracer Survey (RATS) under certain circumstances. A limited period of authorization to inject is for the purpose of stabilizing the injection zone prior to this demonstration.

Current copies of Guidances for conducting Part II (External) Mechanical Integrity Tests will be submitted upon request.

Please be aware that Newfield does not have authorization to begin injection into the Greater Boundary No. 13-27-8-17 until the Prior to Commencing Injection requirements, listed above, have been submitted and evaluated by the EPA, and Newfield has received written authorization to begin injection from the Assistant Regional Administrator, or the Assistant Regional Administrator's authorized representative.

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

Sincerely,



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

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

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

Elaine Willie
Environmental Coordinator
Ute Indian Tribe

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

David Gerbig
Operations Engineer
Newfield Production Company
Denver, CO 80202

Gil Hunt
Technical Services Manager
State of Utah - Natural Resources

Kirk Fleetwood
Petroleum Engineer
Bureau of Land Management
Vernal District

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

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

SUNDRY NOTICES AND REPORTS ON WELLS

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.

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

7. UNIT or CA AGREEMENT NAME:
GREATER BOUNDARY II

1. TYPE OF WELL: OIL WELL GAS WELL OTHER

8. WELL NAME and NUMBER:
GREATER BOUNDARY 3-27-8-17

2. NAME OF OPERATOR:
NEWFIELD PRODUCTION COMPANY

9. API NUMBER:
4301332224

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

PHONE NUMBER
435.646.3721

10. FIELD AND POOL, OR WILDCAT:
MONUMENT BUTTE

4. LOCATION OF WELL:
FOOTAGES AT SURFACE: 857 FNL 2096 FWL

COUNTY: DUCHESNE

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

STATE: UT

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

TYPE OF SUBMISSION	TYPE OF ACTION		
<input type="checkbox"/> NOTICE OF INTENT (Submit in Duplicate) Approximate date work will _____	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> REPERFORATE CURRENT FORMATION
	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> SIDETRACK TO REPAIR WELL
<input checked="" type="checkbox"/> SUBSEQUENT REPORT (Submit Original Form Only) Date of Work Completion: 01/14/2008	<input type="checkbox"/> CASING REPAIR	<input type="checkbox"/> NEW CONSTRUCTION	<input type="checkbox"/> TEMPORARILY ABANDON
	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> TUBING REPAIR
	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> VENT OR FLAIR
	<input type="checkbox"/> CHANGE WELL NAME	<input type="checkbox"/> PLUG BACK	<input type="checkbox"/> WATER DISPOSAL
	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> PRODUCTION (START/STOP)	<input type="checkbox"/> WATER SHUT-OFF
	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input checked="" type="checkbox"/> OTHER: - 5 Year MIT
<input type="checkbox"/> CONVERT WELL TYPE	<input type="checkbox"/> RECOMPLETE - DIFFERENT FORMATION		

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

On 12/12/07 Nathan Wisner with the EPA was contacted concerning the 5 year MIT on the above listed well. Permission was given at that time to perform the test on 1/14/08. On 1/14/08 the csg was pressured up to 1000 psig and charted for 30 minutes with no pressure loss. The well was injecting during the test. The tbg pressure was 1330 psig during the test. There was not an EPA representative available to witness the test.

EPA# UT20702-04675 API# 43-013-32224

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

NAME (PLEASE PRINT) Callie Ross

TITLE Production Clerk

SIGNATURE *Callie Ross*

DATE 01/15/2008

(This space for State use only)

**RECEIVED
JAN 16 2008**

DIV. OF OIL, GAS & MINING

Mechanical Integrity Test

Casing or Annulus Pressure Mechanical Integrity Test

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

EPA Witness: _____ Date: 01/14/08
 Test conducted by: Dele Giles
 Others present: _____

Well Name: <u>Greater Boundary 3-27-8-17</u>	Type: ER SWD	Status: AC TA UC
Field: <u>Greater Boundary Unit</u>		
Location: _____	Sec: <u>27 T 8 N 10 R 17 E</u>	County: <u>Duchesne</u> State: <u>UT</u>
Operator: _____		
Last MIT: <u>1</u> / <u>1</u>	Maximum Allowable Pressure: <u>1350</u>	PSIG

Is this a regularly scheduled test? Yes [] No
 Initial test for permit? [] Yes [] No
 Test after well rework? [] Yes [] No
 Well injecting during test? Yes [] No If Yes, rate: 63 bpd

Pre-test casing/tubing annulus pressure: 0 psig

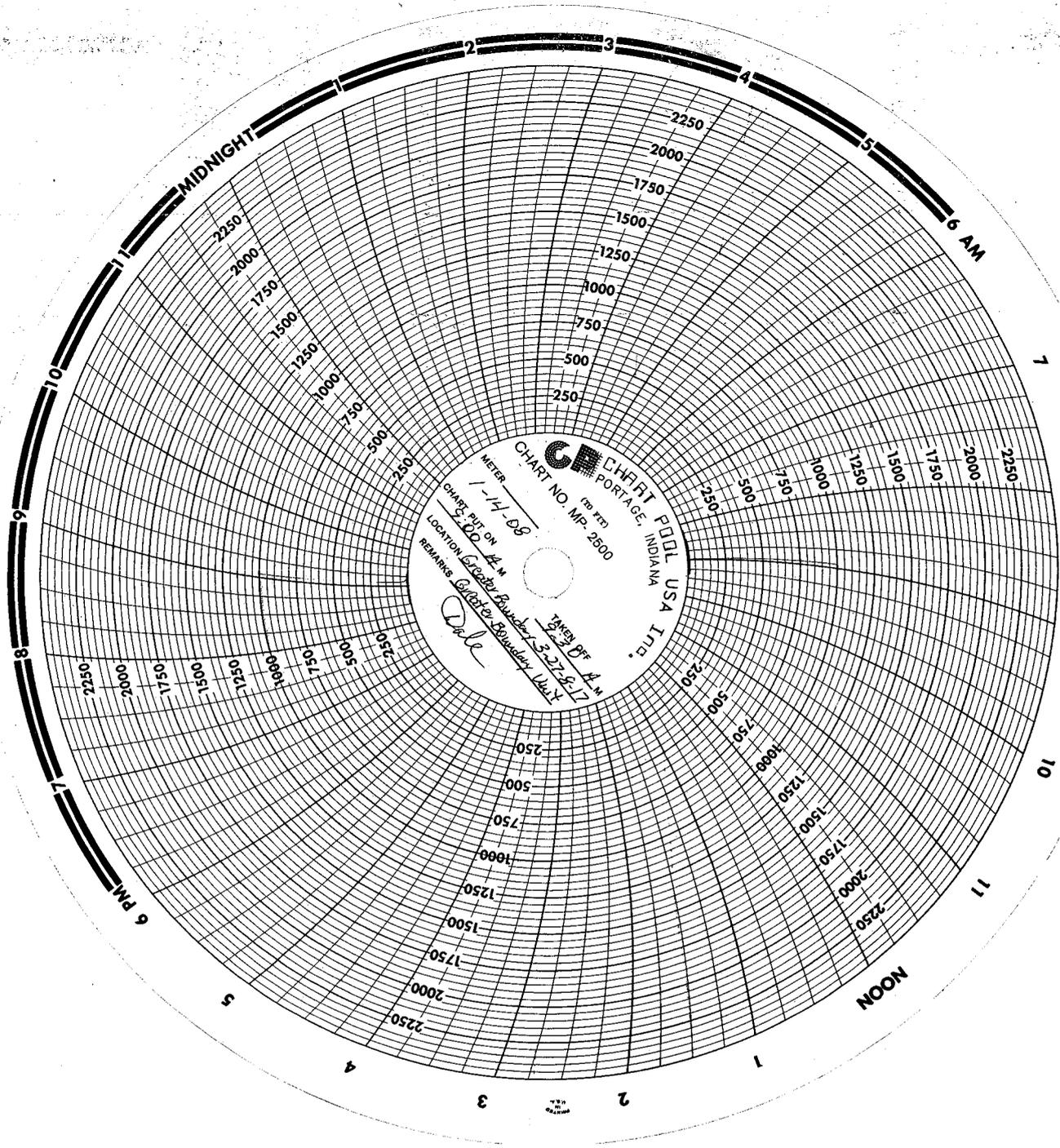
MIT DATA TABLE	Test #1	Test #2	Test #3
TUBING PRESSURE			
Initial Pressure	<u>1330</u> psig	psig	psig
End of test pressure	<u>1330</u> psig	psig	psig
CASING / TUBING ANNULUS PRESSURE			
0 minutes	<u>1000</u> psig	psig	psig
5 minutes	<u>1000</u> psig	psig	psig
10 minutes	<u>1000</u> psig	psig	psig
15 minutes	<u>1000</u> psig	psig	psig
20 minutes	<u>1000</u> psig	psig	psig
25 minutes	<u>1000</u> psig	psig	psig
30 minutes	<u>1000</u> psig	psig	psig
_____ minutes	psig	psig	psig
_____ minutes	psig	psig	psig
RESULT	<input checked="" type="checkbox"/> Pass [] Fail	[] Pass [] Fail	[] Pass [] Fail

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

MECHANICAL INTEGRITY PRESSURE TEST

Additional comments for mechanical integrity pressure test, such as volume of fluid added to annulus and bled back at end of test, reason for failing test (casing head leak, tubing leak, other), etc.:

Signature of Witness: _____



GE CHART POOL USA INC.
PORTAGE, INDIANA
CHART NO. MP. 2500
METER
1-14-08
CHART PUT ON 12 M
LOCATION *Garrett, Indiana*
REMARKS *Garrett, Indiana*
Dale
TAKEN BY *AM*
3-27-17

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		FORM 9
SUNDRY NOTICES AND REPORTS ON WELLS		5. LEASE DESIGNATION AND SERIAL NUMBER: UTU-76241
Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.		6. IF INDIAN, ALLOTTEE OR TRIBE NAME:
1. TYPE OF WELL Water Injection Well		7. UNIT or CA AGREEMENT NAME: GMBU (GRRV)
2. NAME OF OPERATOR: NEWFIELD PRODUCTION COMPANY		8. WELL NAME and NUMBER: GBU 3-27-8-17
3. ADDRESS OF OPERATOR: Rt 3 Box 3630 , Myton, UT, 84052		9. API NUMBER: 43013322240000
PHONE NUMBER: 435 646-4825 Ext		9. FIELD and POOL or WILDCAT: MONUMENT BUTTE
4. LOCATION OF WELL FOOTAGES AT SURFACE: 0857 FNL 2096 FWL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: NENW Section: 27 Township: 08.0S Range: 17.0E Meridian: S		COUNTY: DUCHESNE
		STATE: UTAH

11.

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

TYPE OF SUBMISSION	TYPE OF ACTION		
<input type="checkbox"/> NOTICE OF INTENT Approximate date work will start:	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> CASING REPAIR
<input checked="" type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion: 12/12/2012	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> CHANGE WELL NAME
<input type="checkbox"/> SPUD REPORT Date of Spud:	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> CONVERT WELL TYPE
<input type="checkbox"/> DRILLING REPORT Report Date:	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> NEW CONSTRUCTION
	<input type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> PLUG BACK
	<input type="checkbox"/> PRODUCTION START OR RESUME	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION
	<input type="checkbox"/> REPERFORATE CURRENT FORMATION	<input type="checkbox"/> SIDETRACK TO REPAIR WELL	<input type="checkbox"/> TEMPORARY ABANDON
	<input type="checkbox"/> TUBING REPAIR	<input type="checkbox"/> VENT OR FLARE	<input type="checkbox"/> WATER DISPOSAL
	<input type="checkbox"/> WATER SHUTOFF	<input type="checkbox"/> SI TA STATUS EXTENSION	<input type="checkbox"/> APD EXTENSION
	<input type="checkbox"/> WILDCAT WELL DETERMINATION	<input checked="" type="checkbox"/> OTHER	OTHER: <input type="text" value="5 YR MIT"/>

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

On 12/10/2012 Sarah Roberts with the EPA was contacted concerning the 5 year MIT on the above listed well. On 12/12/2012 the casing was pressured up to 1370 psig and charted for 30 minutes with no pressure loss. The well was not injecting during the test. The tubing pressure was 1058 psig during the test. There was not an EPA representative available to witness the test. EPA# UT20702-04675

**Accepted by the
Utah Division of
Oil, Gas and Mining
FOR RECORD ONLY
December 24, 2012**

NAME (PLEASE PRINT) Lucy Chavez-Naupoto	PHONE NUMBER 435 646-4874	TITLE Water Services Technician
SIGNATURE N/A	DATE 12/19/2012	

Mechanical Integrity Test

Casing or Annulus Pressure Mechanical Integrity Test

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

EPA Witness: _____ Date: 12/12/12
 Test conducted by: Date Giles
 Others present: _____

WT 20702-04675

Well Name: <u>Greater Boundary 3-27-8-17</u>	Type: ER SWD	Status: AC TA UC
Field: <u>Monument Butte</u>		
Location: <u>NE/NW</u> Sec: <u>27</u> T <u>8</u> N (S) R <u>17</u> (E) W County: <u>Duchesne</u> State: <u>UT</u>		
Operator: <u>Newfield Production Co.</u>		
Last MIT: <u>1</u> / <u>1</u>		Maximum Allowable Pressure: <u>1350</u> PSIG

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

Pre-test casing/tubing annulus pressure: 0 psig

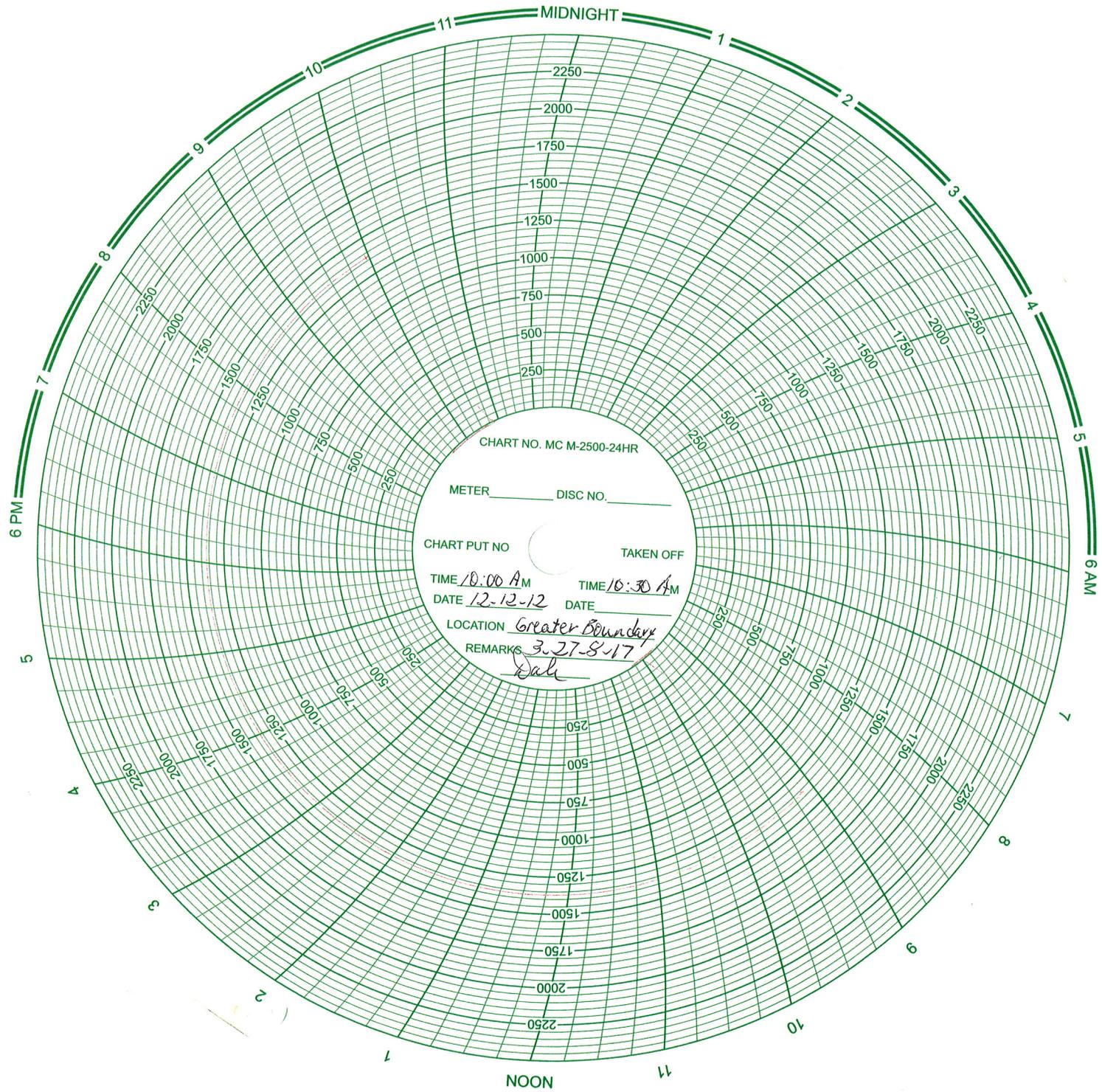
MIT DATA TABLE	Test #1	Test #2	Test #3
TUBING PRESSURE			
Initial Pressure	<u>1058</u> psig	psig	psig
End of test pressure	<u>1058</u> psig	psig	psig
CASING / TUBING ANNULUS PRESSURE			
0 minutes	<u>1370</u> psig	psig	psig
5 minutes	<u>1370</u> psig	psig	psig
10 minutes	<u>1370</u> psig	psig	psig
15 minutes	<u>1370</u> psig	psig	psig
20 minutes	<u>1370</u> psig	psig	psig
25 minutes	<u>1370</u> psig	psig	psig
30 minutes	<u>1370</u> psig	psig	psig
_____ minutes	psig	psig	psig
_____ minutes	psig	psig	psig
RESULT	<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 Unit #3-27-8-17

Spud Date: 4.16.2001
 Put on Production: 7.23.2001
 GL: 5178' KB: 5188'

Initial Production: 11.6 BOPD,
 15.1 MCFD, 95.4 BWPD

Injection Wellbore
 Diagram

SURFACE CASING

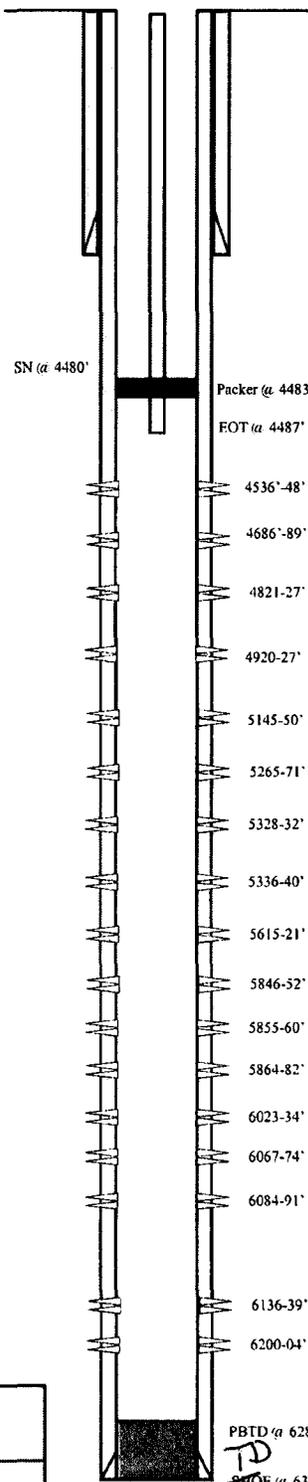
CSG SIZE: 8-5/8"
 GRADE: J-55
 WEIGHT: 24#
 LENGTH: 8 jts. (302")
 DEPTH LANDED: 301'
 HOLE SIZE: 12-1/4"
 CEMENT DATA: 180 sxs Class "G" cmt, est 5 bbls cmt to surf

PRODUCTION CASING

CSG SIZE: 5-1/2"
 GRADE: J-55
 WEIGHT: 15.5#
 LENGTH: 150 jts.
 DEPTH LANDED: 6299' KB
 HOLE SIZE: 7-7/8"
 CEMENT DATA: 367 sk Prem. Lite II mixed & 525 sxs 50/50 POZ.
 CEMENT TOP AT: ? per CBL

TUBING

SIZE/GRADE-WT.: 2-7/8" J-55 6.5#
 NO. OF JOINTS: 138 jts (4478.70")
 SEATING NIPPLE: 2-7/8" (1.10")
 SN LANDED AT: 4479.80'
 PACKER: 4483.01'
 TOTAL STRING LENGTH: EOT @ 4487.11'



FRAC JOB

7-16-01	6023'-6204'	Frac CP sand as follows: 130,000# 20/40 sand in 768 bbls Viking I-25 fluid. Treated @ avg press of 1550 psi w/avg rate of 35.5 BPM. ISIP 1880 psi. Flowed for 6.5 hrs. then died.
7-17-01	5846'-5882'	Frac LODC sand as follows: 120,223# 20/40 sand in 839 bbls Viking I-25 fluid. Treated @ avg press of 2050 psi w/avg rate of 29.5 BPM. ISIP 2310 psi. Flowed for 7.5 hrs. then died.
7-18-01	5265'-5621'	Frac A,C,D, sands as follows: 64,220# 20/40 sand in 512 bbls Viking I-25 fluid. Treated @ avg press of 1450 psi w/avg rate of 29.9 BPM. ISIP 1470 psi. Flowed for 4.75 hrs. then died.
7-19-01	5145'-5150'	Frac D-1 sand as follows: 26,200# 20/40 sand in 234 bbls Viking I-25 fluid. Treated @ avg press of 1900 psi w/avg rate of 21.8 BPM. Screened out.
7-19-01	4821'-4927'	Frac PB sand as follows: 54,260# 20/40 sand in 447 bbls Viking I-25 fluid. Treated @ avg press of 1943 psi w/avg rate of 29.8 BPM. ISIP 2050 psi. Flowed for 3 hrs. then died.
10-05-01		Isolate PB-8 zone.
10-15-01		Move packer. Update rod and tubing details.
01-15-03		Converted to Injector
1-14-08		5 Year MIT completed and submitted.

PERFORATION RECORD

7-14-01	6200'-6204'	4 JSPF	16 holes
7-14-01	6136'-6139'	4 JSPF	12 holes
7-14-01	6084'-6091'	4 JSPF	28 holes
7-14-01	6067'-6074'	4 JSPF	36 holes
7-14-01	6023'-6034'	4 JSPF	44 holes
7-17-01	5864'-5882'	4 JSPF	72 holes
7-17-01	5855'-5860'	4 JSPF	20 holes
7-17-01	5846'-5852'	4 JSPF	24 holes
7-18-01	5615'-5621'	4 JSPF	24 holes
7-18-01	5336'-5340'	4 JSPF	16 holes
7-18-01	5328'-5332'	4 JSPF	16 holes
7-18-01	5265'-5271'	4 JSPF	24 holes
7-19-01	5145'-5150'	4 JSPF	20 holes
7-19-01	4920'-4927'	4 JSPF	28 holes
7-19-01	4821'-4827'	4 JSPF	24 holes
1-13-03	4536'-4548'	4 JSPF	48 holes
1-13-03	4686'-4689'	4 JSPF	12 holes

NEWFIELD

Greater Boundary Unit #3-27-8-17
 857' FNL & 2096' FWL
 NENW Section 27-T8S-R17E
 Duchesne Co, Utah
 API #43-013-32224; Lease #UTU-76241