

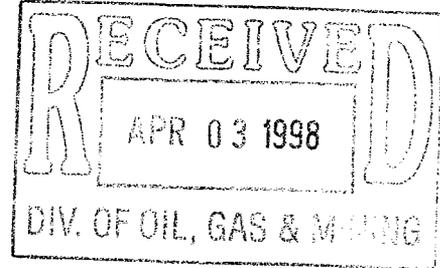


RESOURCES INC.

April 1, 1998

Bureau of Land Management  
Vernal District Office  
170 South 500 East  
Vernal, Utah 84078

**ATTENTION: Ed Forsman  
Wayne Bankert**



Gentlemen:

Enclosed are the originals and two copies (each) of the Application For Permit To Drill, with the attached Conditions of Approval(s), and the Archaeological Cultural Survey Report for each, for the following locations:

Castle Draw 2-4-9-17  
Castle Draw 3-4-9-17  
Castle Draw 5-4-9-17  
Castle Draw 8-4-9-17  
Castle Draw 10-4-9-17  
Castle Draw 12-4-9-17  
Pleasant Valley 7-9-9-17

Castle Draw 1-9-9-17  
Castle Draw 8-9-9-17  
Castle Draw 6-4-9-17  
Castle Draw 9-4-9-17  
Castle Draw 11-4-9-17  
Castle Draw 15-4-9-17

Please contact me in the Vernal Branch office (801) 789-1866, if you have any questions, or need additional information.

Sincerely,

Cheryl Cameron  
Regulatory Compliance Specialist

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

UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT

5. LEASE DESIGNATION AND SERIAL NO.

U-74806

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. TYPE OF WORK DRILL [X] DEEPEN [ ]

7. UNIT AGREEMENT NAME

1b. TYPE OF WELL

OIL WELL [X] GAS WELL [ ] OTHER [ ] SINGLE ZONE [ ] MULTIPLE ZONE [ ]

8. FARM OR LEASE NAME Castle Draw

2. NAME OF OPERATOR Inland Production Company

9. WELL NO. #8-9-9-17

3. ADDRESS OF OPERATOR P.O. Box 790233 Vernal, UT 84079 Phone: (801) 789-1866

10. FIELD AND POOL OR WILDCAT Monument Butte

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements. \*) At Surface SE/NE At proposed Prod. Zone 1980' FNL & 660' FEL

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA Sec. 9, T9S, R17E

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE\* 14.4 Miles southeast of Myton, Utah

12. County Duchesne 13. STATE UT

15. DISTANCE FROM PROPOSED\* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drlg. unit line, if any) 660'

16. NO. OF ACRES IN LEASE 119.26

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.

19. PROPOSED DEPTH 6500'

20. ROTARY OR CABLE TOOLS Rotary

21. ELEVATIONS (Show whether DF, RT, GR, etc.) 5192.3' GR

22. APPROX. DATE WORK WILL START\* 2nd Quarter 1998

23. PROPOSED CASING AND CEMENTING PROGRAM

Table with 5 columns: SIZE OF HOLE, SIZE OF CASING, WEIGHT/FOOT, SETTING DEPTH, QUANTITY OF CEMENT. Includes text: Refer to Monument Butte Field SOP's Drilling Program/Casing Design

The Conditions of Approval For Application For Permit To Drill are attached.

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 Regulatory Compliance Specialist DATE 3/26/98

(This space for Federal or State office use)

PERMIT NO. 43-013-32078 APPROVAL DATE

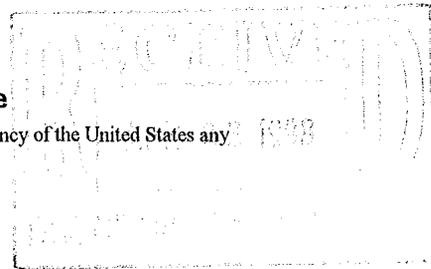
Application approval does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which entitle the applicant to conduct operations thereon.

CONDITIONS OF APPROVAL, IF ANY: Federal Approval of this Action is Necessary

APPROVED BY [Signature] TITLE BRADLEY G. HILL RECLAMATION SPECIALIST DATE 4/20/98

\*See Instructions On Reverse Side

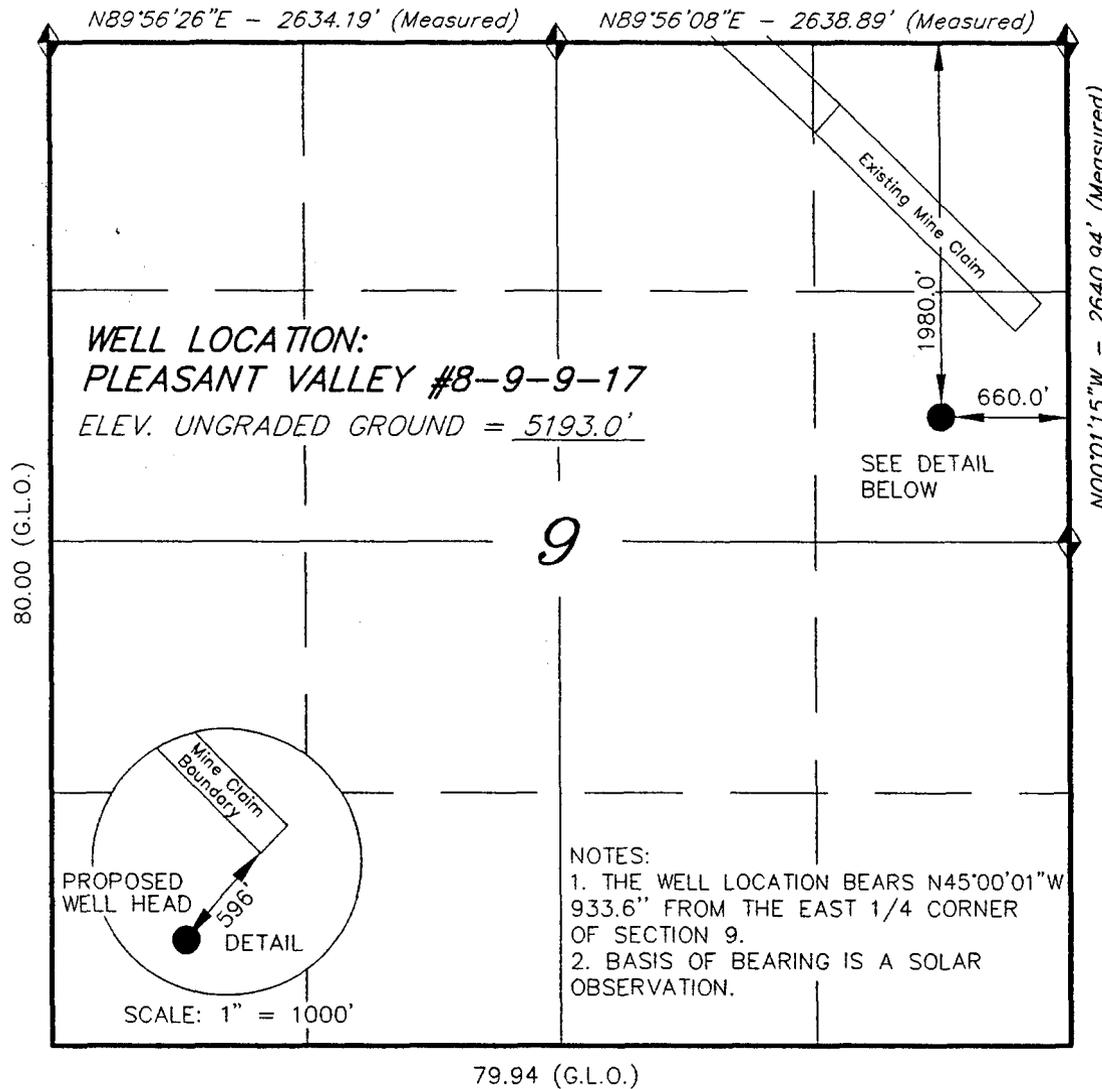
Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.



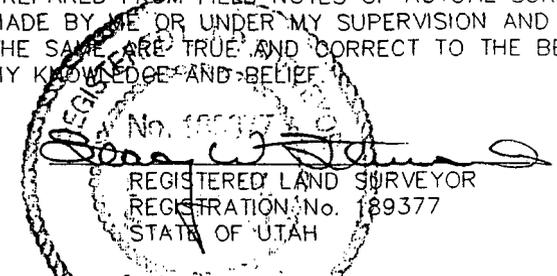
T9S, R17E, S.L.B.&M.

INLAND PRODUCTION COMPANY

WELL LOCATION, PLEASANT VALLEY #8-9-9-17, LOCATED AS SHOWN IN THE SE 1/4 NE 1/4 OF SECTION 9, T9S, R17E, S.L.B.&M. DUCHESNE COUNTY, UTAH.



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



**TRI STATE LAND SURVEYING & CONSULTING**

38 WEST 100 NORTH - VERNAL, UTAH 84078  
 (801) 781-2501

SCALE: 1" = 1000'

SURVEYED BY: DS NW

DATE: 3/4/98

WEATHER:

NOTES:

FILE # 8-9

◆ = SECTION CORNERS LOCATED

BASIS OF ELEV; U.S.G.S. 7-1/2 min QUAD (MYTON SE)

**INLAND PRODUCTION COMPANY  
CASTLE DRAW #8-9-9-17  
SE/NE SECTION 9, T9S, R17E  
DUCHESNE COUNTY, UTAH**

**ONSHORE ORDER NO. 1**

**DRILLING PROGRAM**

**1. GEOLOGIC SURFACE FORMATION:**

Uinta formation of Upper Eocene Age

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

Uinta	0' – 1515'
Green River	1515'
Wasatch	6500'

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

Green River Formation 1515' – 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 1800 psi. It is not anticipated that abnormal temperatures will be encountered; nor that any other abnormal hazards such as H<sub>2</sub>S will be encountered in this area.

**10. ANTICIPATED STARTING DATE AND DURATION OF THE OPERATIONS:**

Please refer to the Monument Butte Field SOP.

**INLAND PRODUCTION COMPANY  
CASTLE DRAW #8-9-9-17  
SE/NE SECTION 9, T9S, R16E  
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 Castle Draw 8-9-9-17 located in the SE 1/4 NE 1/4 Section 9, T9S, R17E, S.L.B. 7 M. Duchesne County, Utah:

Proceed westerly out of Myton, Utah along Highway 40 - 1.6 miles  $\pm$  to the junction of this highway and UT State Hwy 53; proceed southeasterly along this road 12.8 miles  $\pm$  to its junction with a dirt road to the southwest; proceed southwesterly approximately 900'  $\pm$  to the beginning of the proposed access road.

**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. See Exhibit "E".

**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). Refer to Exhibit "E".

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 *Archaeological Survey & Pipeline ROW*

The Archaeological Cultural Resource Survey Report is attached.

Inland Production Company requests that a pipeline ROW be granted to the Castle Draw #8-9-9-17 for a 4" poly fuel gas line, and a 6" poly gas gatherline line. Both lines will be run on surface, adjacent to the existing road-way; the route will follow existing roads where possible. Inland requests that a 30' width for the ROW and an additional 30' width for working surface as necessary. Refer to Topographic Map "B".

13. LESSEE'S OR OPERATORS REPRESENTATIVE AND CERTIFICATION

Representative

Name: Cheryl Cameron  
Address: P.O. Box 790233 Vernal, Utah 84079  
Telephone: (435) 789-1866

Certification

Please be advised that INLAND PRODUCTION COMPANY is considered to be the operator of well #8-9-9-17 SE/NE Section 9, Township 9S, Range 17E: Lease UTU-74806 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.

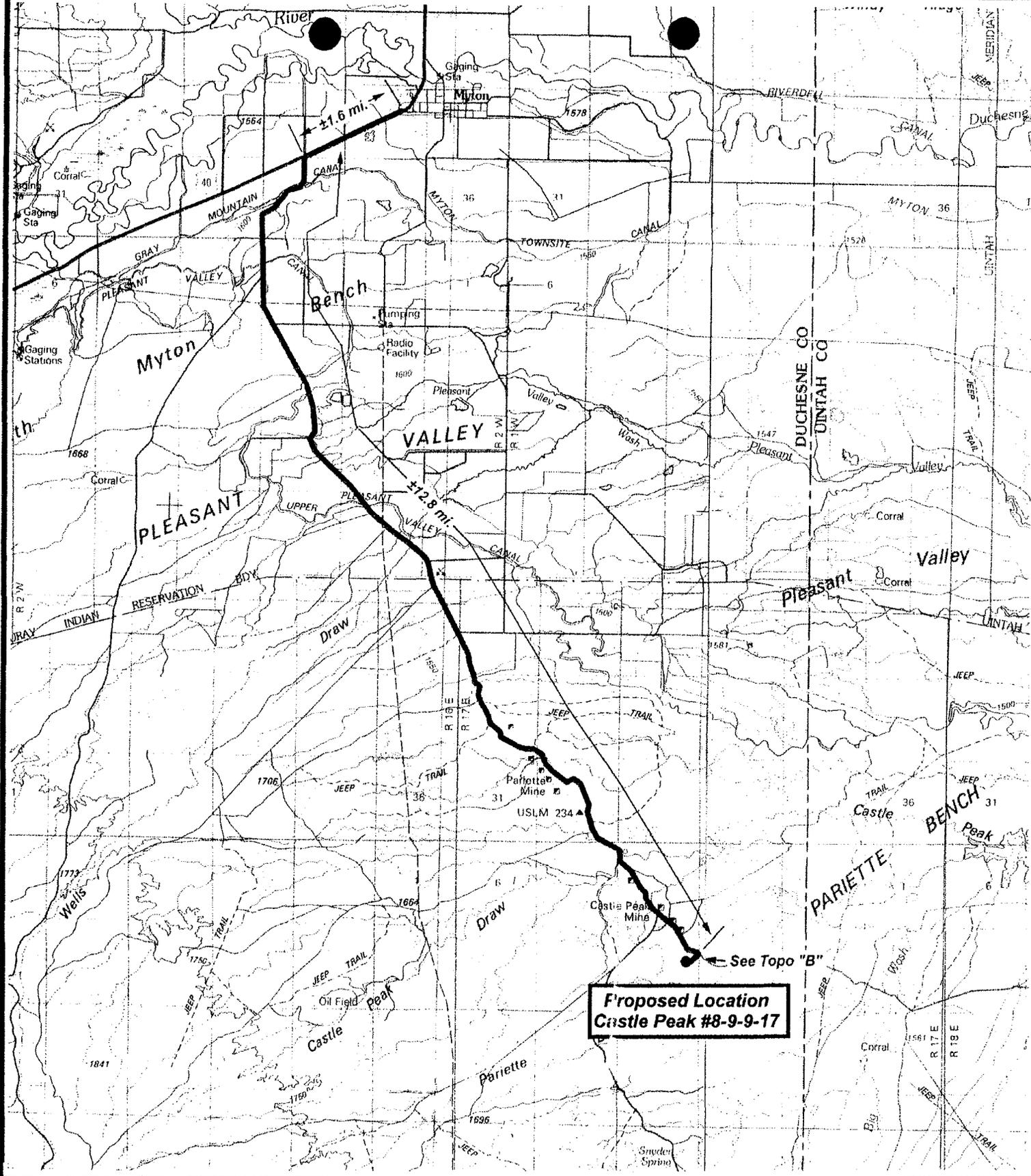
I hereby certify that the proposed drillsite and access route have been inspected, and I am familiar with the conditions which currently exist; that the statements made in this plan are true and correct to the best of my knowledge; and that the work associated with the operations proposed here will be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

3/26/98

Date



Cheryl Cameron  
Regulatory Compliance Specialist

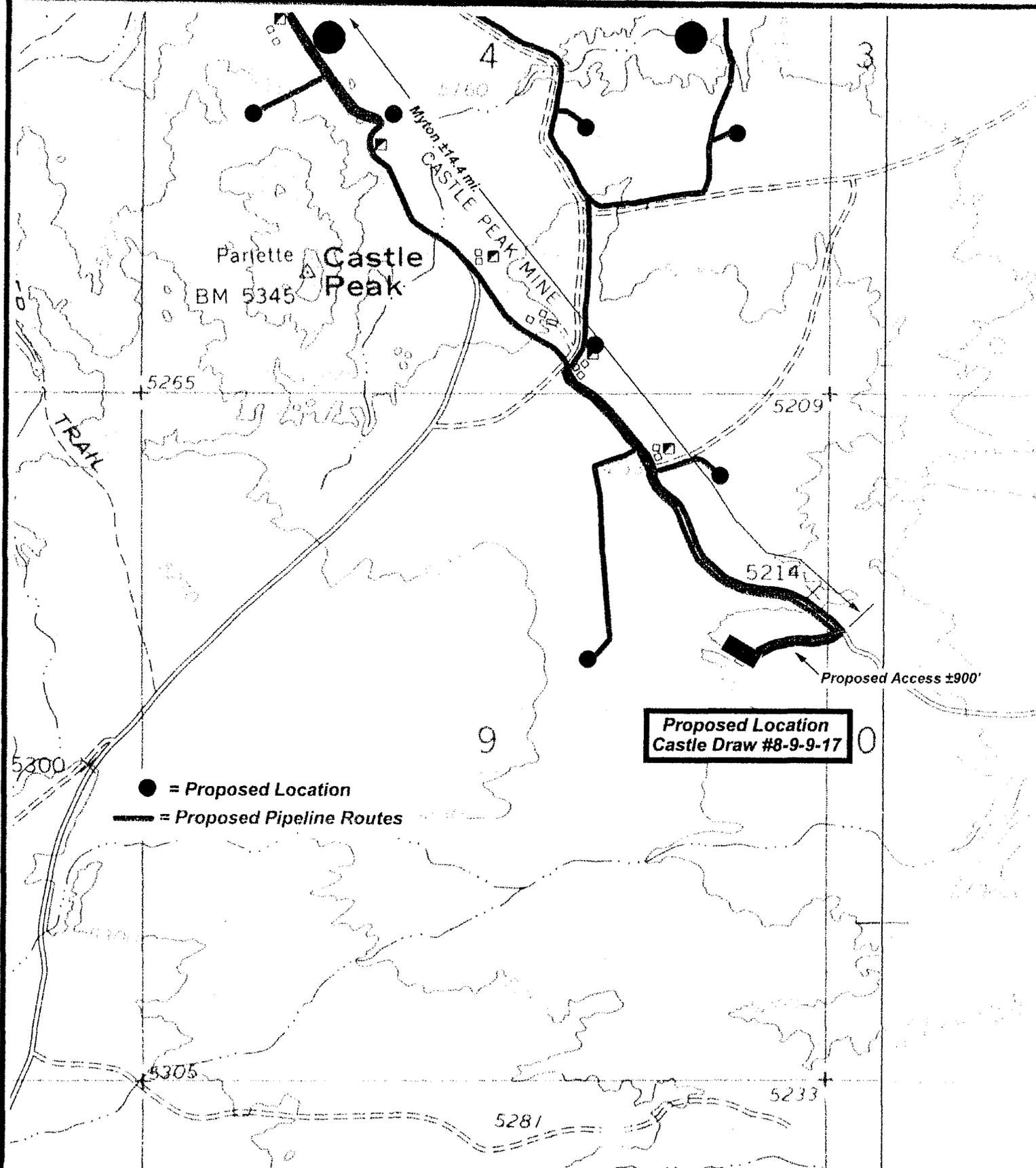


RESOURCES INC.

**CASTLE PEAK #8-9-9-17**  
**SEC. 9, T9S, R17E, S.L.B.&M.**  
**TOPO "A"**



*Tri-State*  
*Land Surveying Inc.*  
 (801) 781-2501  
 38 WEST 100 NORTH VERNAL, UTAH 84078



● = Proposed Location  
 — = Proposed Pipeline Routes

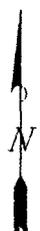
**Proposed Location  
 Castle Draw #8-9-9-17**

Proposed Access ±900'



RESOURCES INC.

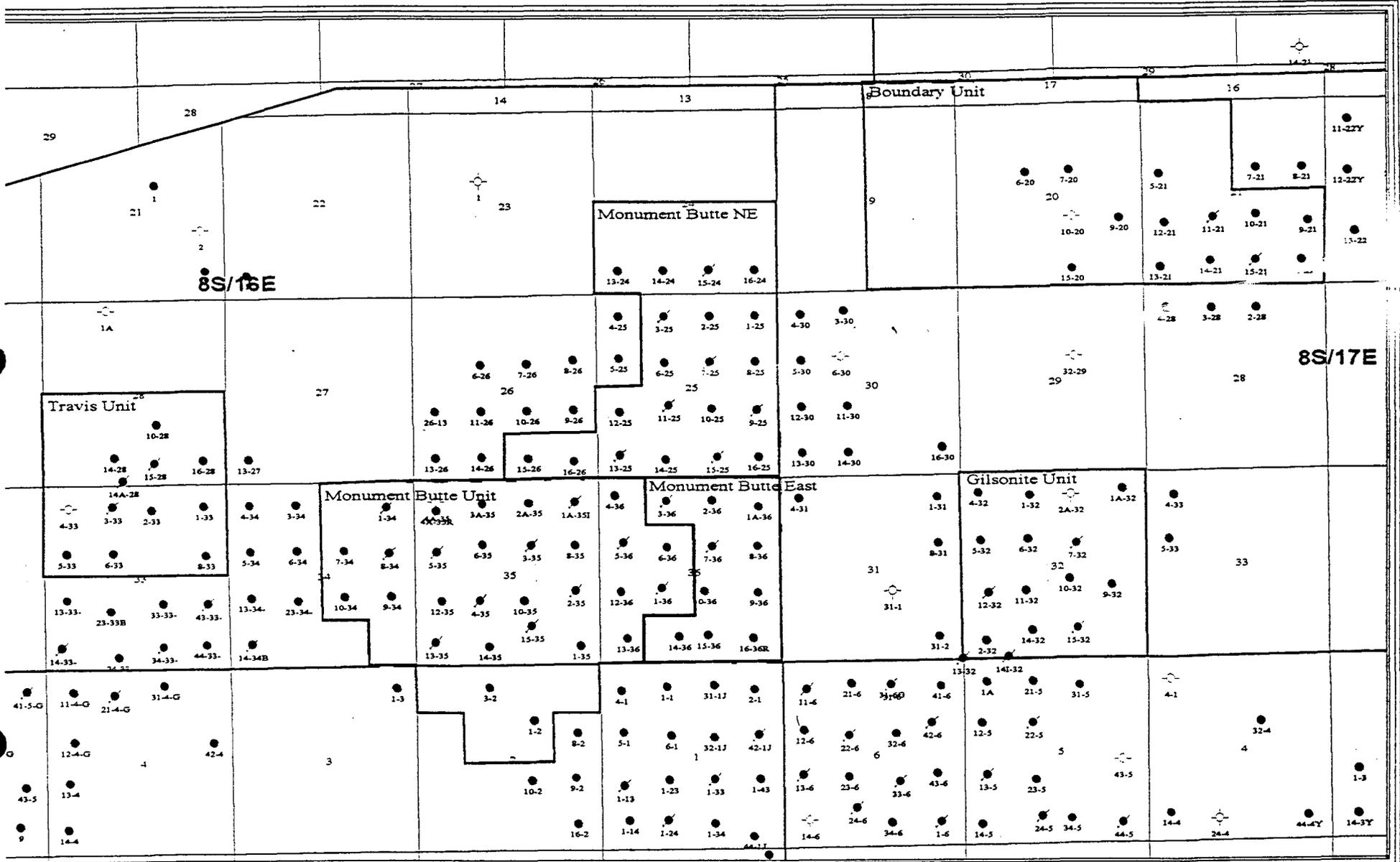
**CASTLE DRAW #8-9-9-17**  
**SEC. 9, T9S, R17E, S.L.B.&M.**  
**TOPO "B"**



SCALE 1" = 1000'

*Val-Servo*  
*Soil Sampling Inc.*  
 (801) 781-2501  
 38 WEST 100 NORTH VERNAL, UTAH 84078

EXHIBIT "C"



**Inland**  
PRODUCTION INC.

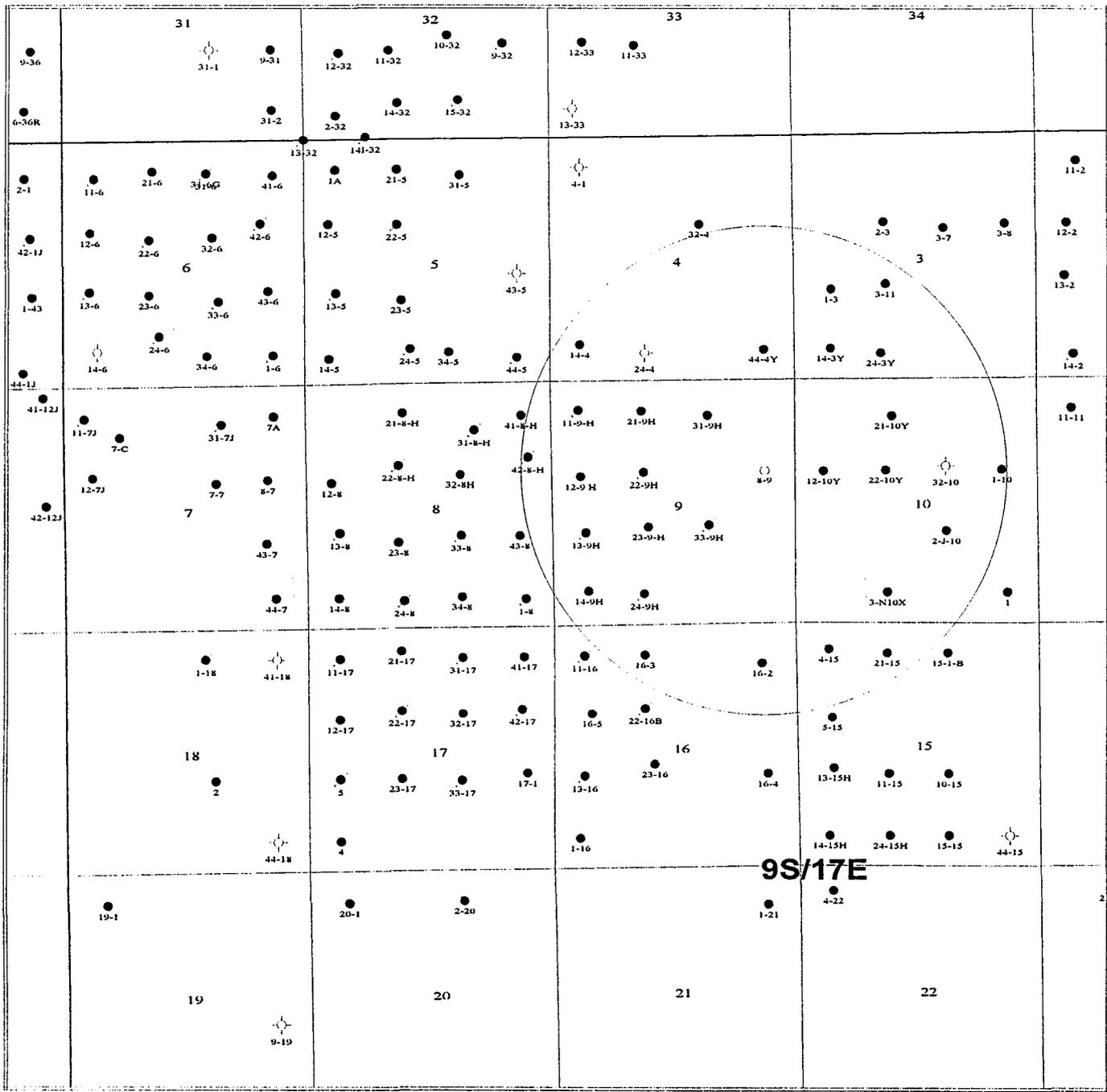
475 17<sup>th</sup> Street, Suite 1500  
 Denver, Colorado 80202  
 Phone (303) 292-0900

**Regional Area**

Duchene County, Utah

Date: 4/18/97 J.A.





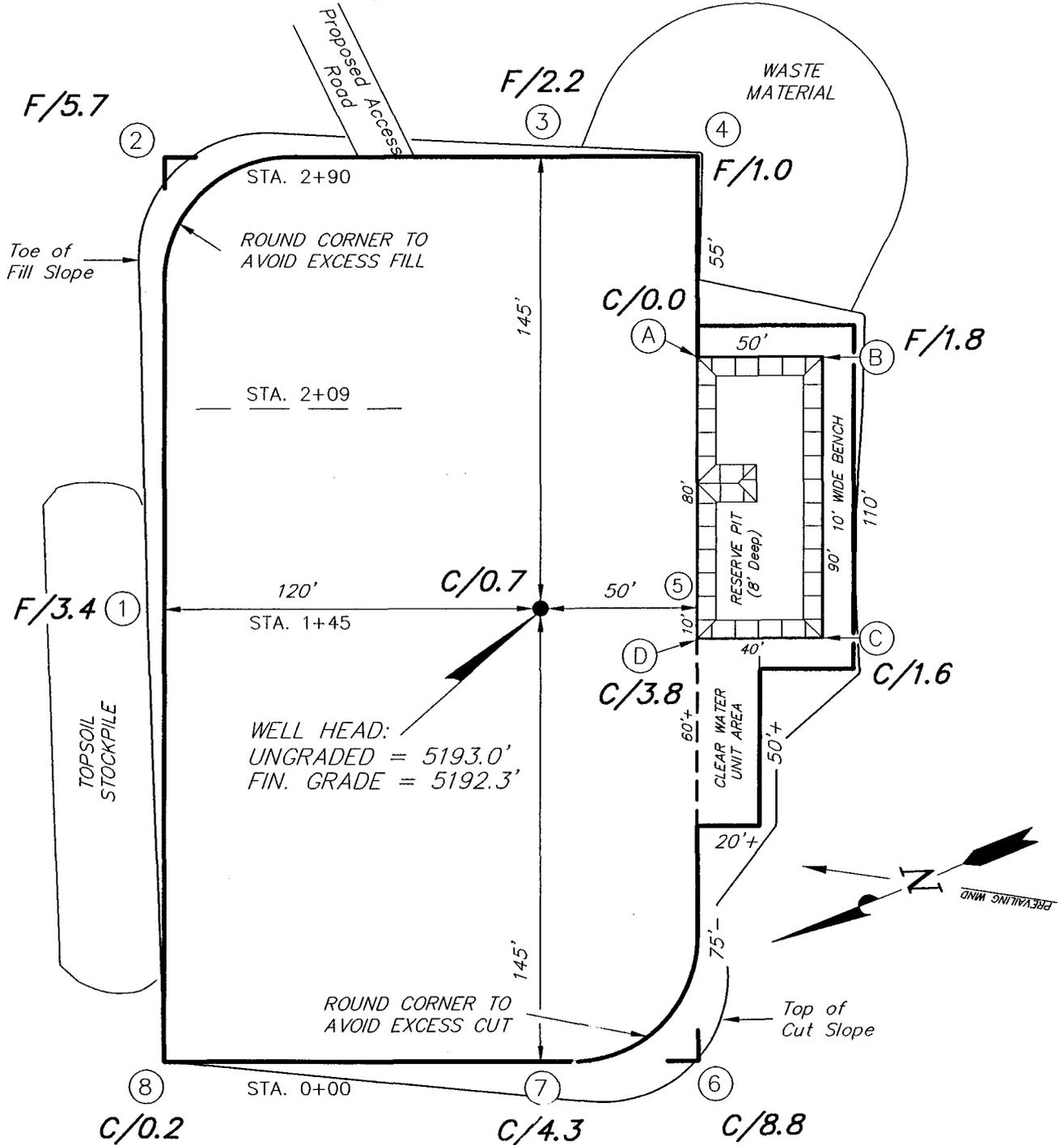
9S/17E

EXHIBIT "D"

INLAND PRODUCTION COMPANY		
ONE MILE RADIUS Castle Draw #8-9		
Job Number	Scale 1:40000.37	3/10/98

# INLAND PRODUCTION COMPANY

PLEASANT VALLY #8-9-9-17  
 SEC. 9, T92, R17E, S.L.B.&M.



**REFERENCE POINTS**

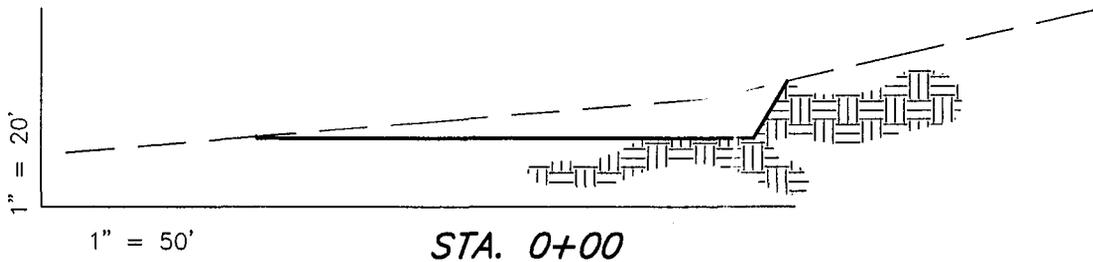
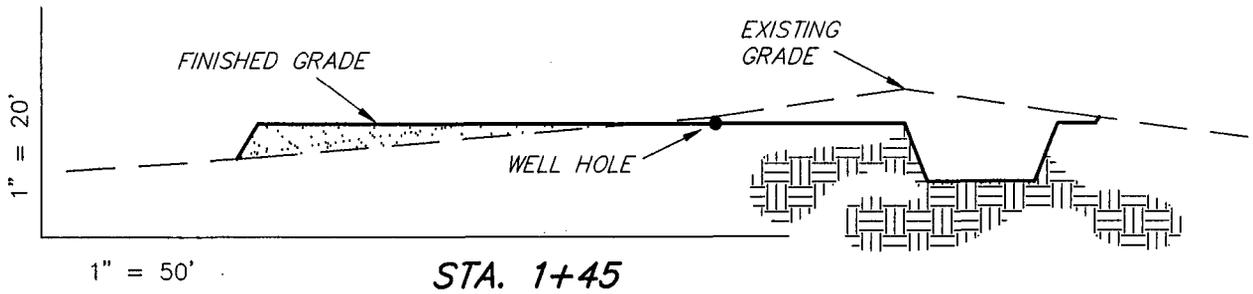
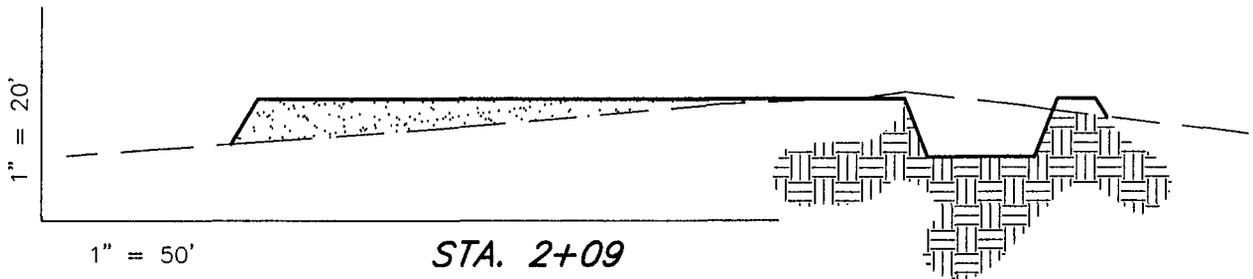
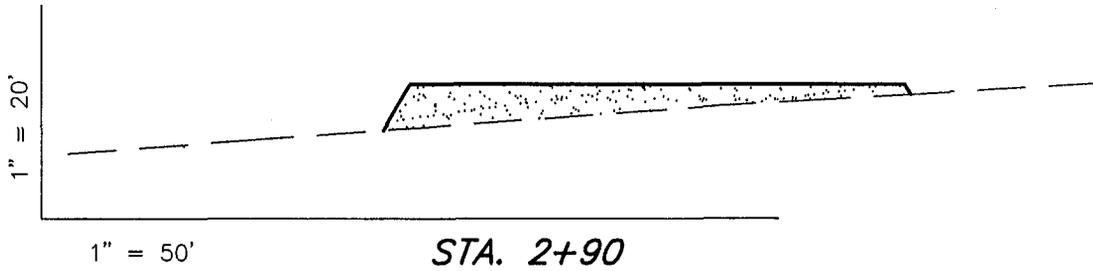
- 170' NORTH = 5187.5'
- 220' NORTH = 5189.7'
- 195' EAST = 5191.0'
- 245' EAST = 5189.6'

SURVEYED BY:	DS NW
DRAWN BY:	DSW
DATE:	3/5/98
SCALE:	1" = 50'
FILE:	8-9

  
**Tri State**  
*Land Surveying, Inc.*  
 (801) 781-2501  
 38 WEST 100 NORTH VERNAL, UTAH 84078

CROSS SECTION

PLEASANT VALLY #8-9-9-17



APPROXIMATE YARDAGES

- CUT = 2,360 Cu. Yds.
- FILL = 2,350 Cu. Yds.
- PIT = 560 Cu. Yds.
- 6" TOPSOIL = 1,030 Cu. Yds.

**Tri State**  
Land Surveying, Inc.  
(801) 781-2501  
38 WEST 100 NORTH, VERNAL, UTAH 84078

Well No.: Castle Draw 8-9-9-17

CONDITIONS OF APPROVAL  
APPLICATION FOR PERMIT TO DRILL

Company/Operator: Inland Production Company

Well Name & Number: Castle Draw 8-9-9-17

API Number:

Lease Number: UTU-74806

Location: SENE Sec. 9, T9S, R17E

**GENERAL**

Access pad from E, off of Sand Wash Road.

**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.*

**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.*

**FERRUGINOUS HAWK:** In the event that this well becomes a producing well, it must be equipped with a multi-cylinder engine or hospital muffler to reduce noise levels.

**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**

WORKSHEET  
APPLICATION FOR PERMIT TO DRILL

APD RECEIVED: 04/03/98

API NO. ASSIGNED: 43-013-32078

WELL NAME: CASTLE DRAW 8-9-9-17  
 OPERATOR: INLAND PRODUCTION COMPANY (N5160)  
 CONTACT: Cheryl Cameron (435) 789-1866

PROPOSED LOCATION:  
 SENE 09 - T09S - R17E  
 SURFACE: 1980-FNL-0660-FEL  
 BOTTOM: 1980-FNL-0660-FEL  
 DUCHESNE COUNTY  
 MONUMENT BUTTE FIELD (105)

INSPECT LOCATION BY: / /		
TECH REVIEW	Initials	Date
Engineering		
Geology		
Surface		

LEASE TYPE: FED  
 LEASE NUMBER: U-74806  
 SURFACE OWNER: BLM

PROPOSED FORMATION: GRRV

RECEIVED AND/OR REVIEWED:

Plat

Bond: Federal[] State[] Fee[]  
 (No. #4488944)

Potash (Y/N)

Oil Shale (Y/N) \*190-5(B)

Water Permit  
 (No. Johnson Water District)

RDCC Review (Y/N)  
 (Date: \_\_\_\_\_)

St/Fee Surf Agreement (Y/N)

LOCATION AND SITING:

R649-2-3. Unit \_\_\_\_\_

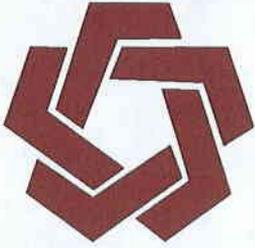
R649-3-2. General

R649-3-3. Exception

Drilling Unit  
 Board Cause No: \_\_\_\_\_  
 Date: \_\_\_\_\_

COMMENTS: \* Standard Operating Practices (SOP) separate file.

STIPULATIONS: ① FEDERAL APPROVAL



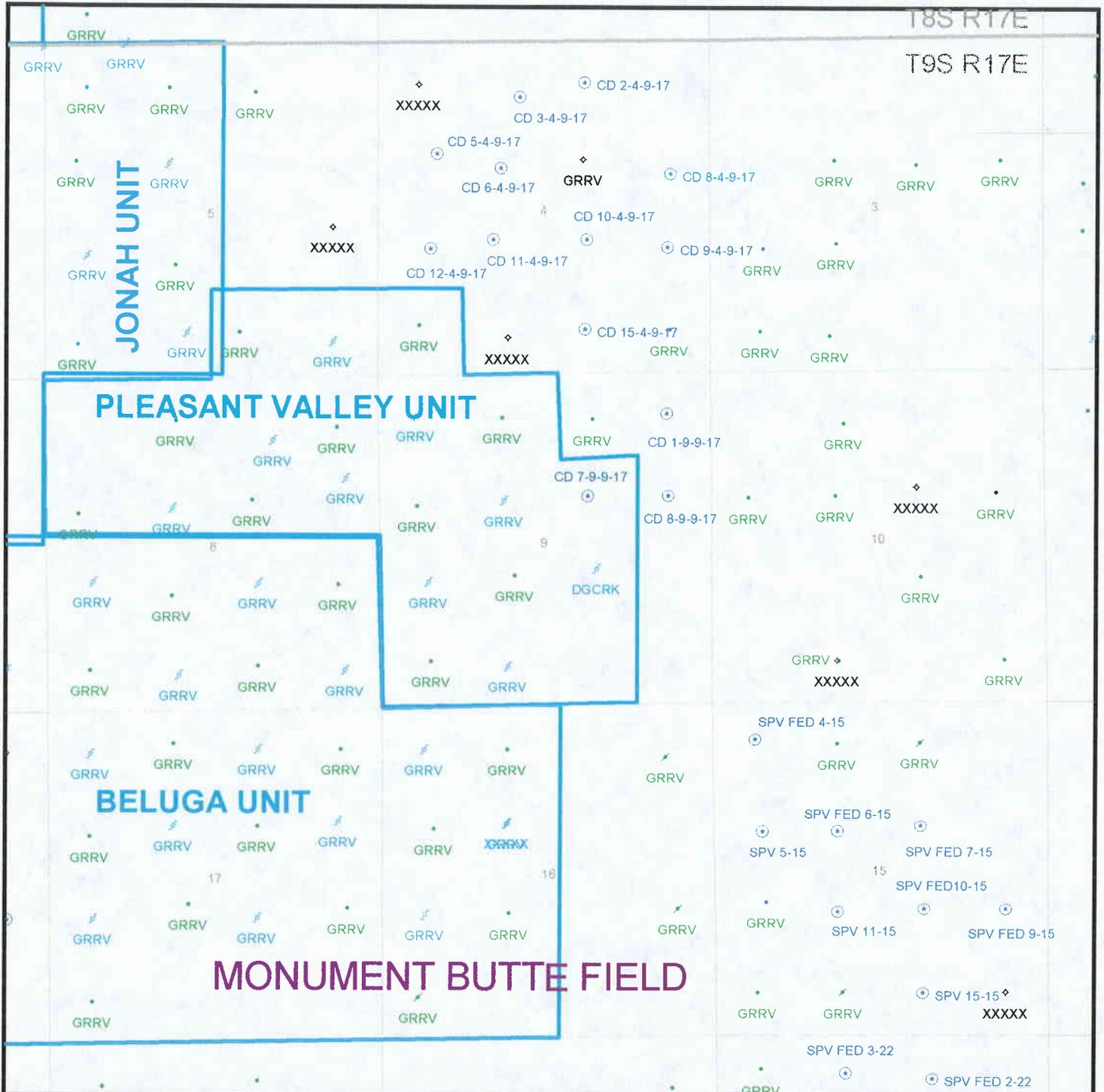
OPERATOR: INLAND PRODUCTION CO. (N5160)

FIELD: MONUMENT BUTTE (105)

SEC. 4 & 9, TWP. 9S, RNG. 17E,

COUNTY: DUCHESNE UAC: R649-3-2 R649-2-3 PLEASANT VALLEY UNIT

DIVISION OF OIL, GAS & MINING



DATE PREPARED:  
6-APR-1998



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  
801-359-3940 (Fax)  
801-538-7223 (TDD)

Michael O. Leavitt  
Governor  
Ted Stewart  
Executive Director  
Lowell P. Braxton  
Division Director

April 20, 1998

Inland Production Company  
P.O. Box 790233  
Vernal, Utah 84079

Re: Castle Draw 8-9-9-17 Well, 1980' FNL, 0660' FEL, SE NE, Sec. 9, T. 9 S., R. 17 E., 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 43-013-32078.

Sincerely,

John R. Baza  
Associate Director

lwp

Enclosures

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

Operator: Inland Production Company  
Well Name & Number: Castle Draw 8-9-9-17  
API Number: 43-013-32078  
Lease: U-74806  
Location: SE NE Sec. 9 T. 9 S. R. 17 E.

### 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 following spudding the well or commencing drilling operations. Contact Jim Thompson at (801)538-5336.

Notify the Division prior to commencing operations to plug and abandon the well. Contact Dan Jarvis at (801) 538-5338 or John R. Baza at (801)538-5334.

3. Reporting Requirements

All required reports, forms and submittals shall 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 supercede the required federal approval which must be obtained prior to drilling.

UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT

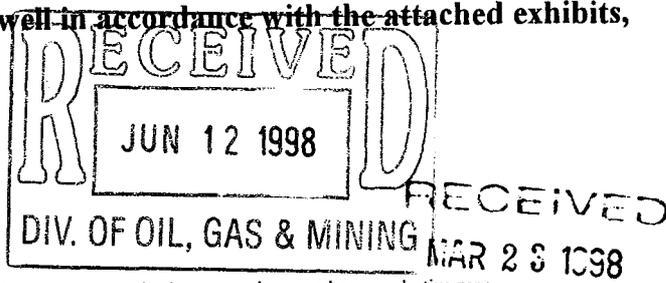
APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. TYPE OF WORK DRILL [X] DEEPEN [ ]
1b. TYPE OF WELL OIL GAS WELL [ ] OTHER [ ] SINGLE ZONE [ ] MULTIPLE ZONE [ ]
2. NAME OF OPERATOR Inland Production Company
3. ADDRESS OF OPERATOR P.O. Box 790233 Vernal, UT 84079 Phone: (801) 789-1866
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.\*) At Surface SW/SE 636' FSL & 1971' FEL
5. LEASE DESIGNATION AND SERIAL NO. U-76956
6. IF INDIAN, ALLOTTEE OR TRIBE NAME
7. UNIT AGREEMENT NAME
8. FARM OR LEASE NAME Tar Sands Federal
9. WELL NO. #15-29-8-17
10. FIELD AND POOL OR WILDCAT Monument Butte
11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA Sec. 29, T8S, R17E
12. County Duchesne 13. STATE UT
14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE\* 9.9 Miles southeast of Myton, UT
15. DISTANCE FROM PROPOSED\* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drlg. unit line, if any) 636'
16. NO. OF ACRES IN LEASE 790.94
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.
19. PROPOSED DEPTH 6500'
20. ROTARY OR CABLE TOOLS Rotary
21. ELEVATIONS (Show whether DF, RT, GR, etc.) 5219.5' GR
22. APPROX. DATE WORK WILL START\* 3rd Quarter 1998

23. PROPOSED CASING AND CEMENTING PROGRAM
Table with columns: 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, "A" through "E".

The Conditions of Approval are attached.



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 Cheryl Cameron TITLE Regulatory Compliance Specialist DATE 2/27/98

(This space for Federal or State office use)
PERMIT NO. 43-013-32058 APPROVAL DATE
Application approval does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

CONDITIONS OF APPROVAL, IF ANY:
APPROVED BY Howard B. Leavengr TITLE Assistant Field Manager Mineral Resources DATE 6/5/98

NOTICE OF APPROVAL

CONDITIONS OF APPROVAL ATTACHED

\*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.

UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. TYPE OF WORK DRILL [X] DEEPEN [ ]
1b. TYPE OF WELL OIL GAS [ ] SINGLE MULTIPLE WELL [X] WELL [ ] OTHER [ ] ZONE [ ] ZONE [ ]
2. NAME OF OPERATOR Inland Production Company
3. ADDRESS OF OPERATOR P.O. Box 790233 Vernal, UT 84079 Phone: (801) 789-1866
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.\*) At Surface SW/SE 636' FSL & 1971' FEL
5. LEASE DESIGNATION AND SERIAL NO. U-76956
6. IF INDIAN, ALOTTEE OR TRIBE NAME
7. UNIT AGREEMENT NAME
8. FARM OR LEASE NAME Tar Sands Federal
9. WELL NO. #15-29-8-17
10. FIELD AND POOL OR WILDCAT Monument Butte
11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA Sec. 29, T8S, R17E
12. County Duchesne 13. STATE UT
14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE\* 9.9 Miles southeast of Myton, UT
15. DISTANCE FROM PROPOSED\* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drlg. unit line, if any) 636'
16. NO. OF ACRES IN LEASE 790.94
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.
19. PROPOSED DEPTH 6500'
20. ROTARY OR CABLE TOOLS Rotary
21. ELEVATIONS (Show whether DF, RT, GR, etc.) 5219.5' GR
22. APPROX. DATE WORK WILL START\* 3rd Quarter 1998

23. PROPOSED CASING AND CEMENTING PROGRAM
Table with columns: SIZE OF HOLE, SIZE OF CASING, WEIGHT/FOOT, SETTING DEPTH, QUANTITY OF CEMENT

Refer to Monument Butte Field SOP's Drilling Pr

Inland Production Company propos "A" through "E".

The Conditions of Approval are atta

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM : If proposal is to If proposal is to drill or deepen directionally, give pertinent data on subsurface

24. SIGNED Cheryl Cameron Cheryl Cameron

(This space for Federal or State office use)

PERMIT NO. 43-013-32058 APPROVAL DATE

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

CONDITIONS OF APPROVAL, IF ANY:

APPROVED BY Howard B. Leavengr TITLE

Assistant Field Manager Mineral Resources DATE 6/5/98

DR OIL AND GAS
Table with rows: JRB, RJK, SLS, GLH, DTS, 1, MICROFILM, 2, FILE

attached exhibits, RECEIVED MAR 23 1998 productive zone. am, if any. /27/98

NOTICE OF APPROVAL

\*See Instructions On Reverse Side

CONDITIONS OF APPROVAL ATTACHED

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

CONDITIONS OF APPROVAL  
APPLICATION FOR PERMIT TO DRILL

Company/Operator: Inland Production Company  
Well Name & Number: Tar Sands Fed. 15-29-8-17  
API Number: 43-013-32058  
Lease Number: U-76956  
Location: SWSE Sec. 029 T. 09S R. 17E

**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.

**SURFACE USE PROGRAM**

**Location Reclamation**

The following seed mixture will be used on the stock piled topsoil, reclamation of the reserve pit and for final reclamation: (All poundages are in Pure Live Seed)

nuttalls saltbush	Atriplex nuttallii	3 lbs/acre
shadscale	Atriplex confertifolia	3 lbs/acre
fourwing saltbush	Atriplex canescens	4 lbs/acre
western wheatgrass	Agropyron smithii	2 lbs/acre

The location topsoil pile shall be seeded immediately after site construction by broadcasting the seed, then walking the topsoil pile with the dozer to plant the seed.

The reserve pit shall have a small amount of topsoil stock piled near by as shown on the cut sheet to be used to spread over the reserve pit area at the time the reserve pit is reclaimed.

At the time of final abandonment the location and access will be recontoured to natural topography and topsoil spread over the area and the surface seeded immediately. If the previously reclaimed surface of the reserve pit needs additional contouring, the topsoil over the pit will be scraped off and then used as additional topsoil for final reclamation.

**Other Information**

Due to the potential for paleontological material in the area, when this site and access road are to be constructed a qualified paleontologist shall be present to monitor for fossil materials.

UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. TYPE OF WORK DRILL [X] DEEPEN [ ]
1b. TYPE OF WELL OIL WELL [X] GAS WELL [ ] OTHER [ ] SINGLE ZONE [ ] MULTIPLE ZONE [ ]

2. NAME OF OPERATOR Inland Production Company

3. ADDRESS OF OPERATOR P.O. Box 790233 Vernal, UT 84079 Phone: (801) 789-1866

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.\*) At Surface SE/NE Lot 4 At proposed Prod. Zone 1980' FNL & 660' FEL

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE\* 14.4 Miles southeast of Myton, Utah

15. DISTANCE FROM PROPOSED\* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drlg. unit line, if any) 660'

16. NO. OF ACRES IN LEASE 119.26

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.

19. PROPOSED DEPTH 6500'

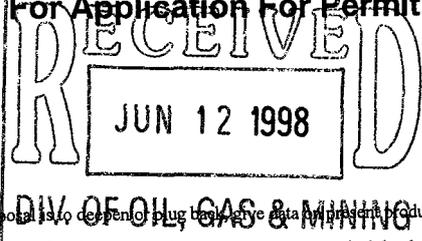
20. ROTARY OR CABLE TOOLS Rotary

21. ELEVATIONS (Show whether DF, RT, GR, etc.) 5192.3' GR

22. APPROX. DATE WORK WILL START\* 2nd Quarter 1998

Table with 5 columns: SIZE OF HOLE, SIZE OF CASING, WEIGHT/FOOT, SETTING DEPTH, QUANTITY OF CEMENT. Includes text: Refer to Monument Butte Field SOP's Drilling Program/Casing Design

The Conditions of Approval For Application For Permit To Drill are attached.



RECEIVED APR 01 1998

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 Cheryl Cameron TITLE Regulatory Compliance Specialist DATE 3/26/98

(This space for Federal or State office use)

PERMIT NO. 43-013-32078 APPROVAL DATE

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

CONDITIONS OF APPROVAL, IF ANY:

APPROVED BY [Signature] TITLE Assistant Field Manager Mineral Resources DATE JUN 09 1998

NOTICE OF APPROVAL

CONDITIONS OF APPROVAL ATTACHED

\*See Instructions On Reverse Side

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

CONDITIONS OF APPROVAL  
APPLICATION FOR PERMIT TO DRILL

Company/Operator: Inland Production Company

Well Name & Number: Castle Draw 8-9-9-17

API Number: 43-013-32078

Lease Number: U-74806

Location: SENE Sec. 09 T. 09S R. 17E

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.

**If the well is completed with production in paying quantities, a Communitization Agreement will need to be formed for SENE Sec. 08, T09S, R17E. Submit the appropriate paperwork to the Utah BLM State Office in Salt Lake City.**

**SURFACE USE PROGRAM**

Conditions of Approval (COA)

Inland Production Company - Well 8-9-9-17

**Location Reclamation**

The following seed mixture will be used on the stock piled topsoil, reclamation of the reserve pit and for final reclamation: (All poundages are in Pure Live Seed)

nutalls saltbush	Atriplex nuttallii	3 lbs/acre
shadscale	Atriplex confertifolia	3 lbs/acre
fourwing saltbush	Atriplex canescens	4 lbs/acre
western wheatgrass	Agropyron smithii	2 lbs/acre

The location topsoil pile shall be seeded immediately after site construction by broadcasting the seed, then walking the topsoil pile with the dozer to plant the seed.

The reserve pit shall have a small amount of topsoil stock piled near by, not shown on the cut sheet, to be used to spread over the reserve pit area at the time the reserve pit is reclaimed.

At the time of final abandonment the location and access will be recontoured to natural topography and topsoil spread over the area and the surface seeded immediately. If the previously reclaimed surface of the reserve pit needs additional contouring, the topsoil over the pit will be scraped off and then used as additional topsoil for final reclamation.

### **Other Information**

#### **Burrowing Owl**

No new construction or surface disturbing activities will be allowed within a 0.5 mile radius of an active burrowing owl nest from April 1 through July 15.

DIVISION OF OIL, GAS AND MINING

SPUDDING INFORMATION

Name of Company: INLAND PRODUCTION CO.

Well Name: CASTLE DRAW 8-9-9-17

Api No. 43-013-32078 Lease Type: FEDERAL

Section 9 Township 9S Range 17E County DUCHESNE

Drilling Contractor UNION

Rig # 7

SPUDDED:

Date 7/30/98

Time 12:30 PM

How ROTARY

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

Reported by MIKE WARD

Telephone # 1-435-823-7215

Date: 7/31/98 Signed: MKH

✓

(1)

STATE OF UTAH  
DIVISION OF OIL, GAS AND MINING  
DRILLING INSPECTION FORM

OPERATOR: INLAND PRODUCTION CO COMPANY REP: MIKE WARD

WELL NAME CASTLE DRAW FED 8-9-9-17 API NO 43-013-32078

QTR/QTR: SE/NE SECTION: 9 TWP: 9S RANGE: 17E

CONTRACTOR: UNION DRILLING COMPANY RIG NUMBER: #7

INSPECTOR: DENNIS L. INGRAM TIME: 2:00 PM DATE: 8/4/98

SPUD DATE: DRY: 7/30/98 ROTARY: 7/30/98 PROJECTED T.D.: 5650'

OPERATIONS AT TIME OF VISIT: DRILLING AHEAD AT 4702 FEET.

---

WELL SIGN: Y MUD WEIGHT 8.4 LBS/GAL BOPE: Y

BLOOIE LINE: Y FLARE PIT: N H2S POTENTIAL: N

ENVIRONMENTAL:

RESERVE PIT: Y FENCED: Y LINED: NO PLASTIC: NO

RUBBER: \_\_\_\_\_ BENTONITE: \_\_\_\_\_ SANITATION: (2)

BOPE TEST RECORDED IN THE RIG DAILY TOUR BOOK: YES

TESTED 7/31/98. 800PSI HYDRIL; 1700 PSI MANIFOLD; 2400 PSI

KOOMEY

REMARKS:

(LAST HOLE WAS CASTLE DRAW #9-4, T.D. ON 7/27/98 AT 5883' AND  
RAN 139 JOINTS OF 5 1/2" PRODUCTION CASING). RESERVE PIT WAS  
CONSTRUCTED ON SOUTHWEST SIDE OF LOCATION IN CUT AS STATED IN  
APD. BOPE AND APD ARE DISPLAYED IN DOGHOUSE. OPERATOR HAS SET  
316' OF 8 5/8" 24# J-55 SURFACE CASING AT 326 FEET AND CEMENTED  
WITH 140 SACKS. NO PROBLEMS.

**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.

**U-74806**

6. If Indian, Allottee or Tribe Name

**NA**

7. If Unit or CA, Agreement Designation

**NA**

8. Well Name and No.

**CASTLE DRAW 8-9-9-17**

9. API Well No.

**43-013-32078**

10. Field and Pool, or Exploratory Area

**MONUMENT BUTTE**

11. County or Parish, State

**DUCHESNE COUNTY, UTAH**

**SUBMIT IN TRIPLICATE**

1. Type of Well

Oil Well     Gas Well     Other

2. Name of Operator

**INLAND PRODUCTION COMPANY**

3. Address and Telephone No.

**410 17TH STREET, SUITE 700, DENVER, COLORADO 80202 (303) 893-0102**

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

**1980 FNL 660 FEL                      SE/NE Section 9, T09S R17E**

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

**TYPE OF SUBMISSION**

**TYPE OF ACTION**

Notice of Intent  
 Subsequent Report  
 Final Abandonment Notice

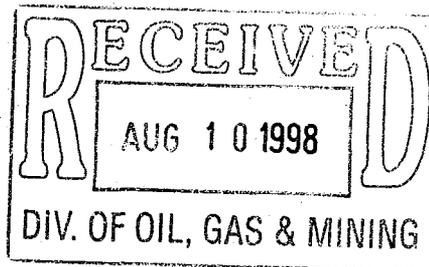
Abandonment  
 Recompletion  
 Plugging Back  
 Casing Repair  
 Altering Casing  
 Other Surface Spud

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.)\*

Set conductor. Drl & set MH & RH. **SPUD WELL @ 12:00 PM, 7/30/98.** Drl Kelly dn. Clean & NU cellar. Drl 12-1/4" hole 21' - 345'. C&C. TOH. ND cellar. Run 8-5/8" GS, 7 jt 8-5/8" 24#, J-55, ST & C csg, WHI "W92" csg head (316'). Csg set @ 326'. RU BJ. Pmp 20 bbl dye wtr & 20 bbl gel. Cmt w/140 sx Class "G" w/2% CC & 1/4#/sk Cello Flake (15.8 ppg 1.17 cf/sk yield) & 20 sx Class "G" Neat (15.8 ppg 1.17 cf/sk yield). Good returns w/8 bbls cmt to sfc. RD BJ. WOC. NU BOP's.



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

Signed

Shannon Smith

Title

Engineering Secretary

Date

8/6/98

(This space for Federal or State office use)

Approved by

Title

Date

Conditions of approval, if any:

**CC: UTAH DOGM**

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

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.

**410 17TH STREET, SUITE 700, DENVER, COLORADO 80202 (303) 893-0102**

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

**1980 FNL 660 FEL                      SE/NE Section 9, T09S R17E**

5. Lease Designation and Serial No.

**U-74806**

6. If Indian, Allottee or Tribe Name

**NA**

7. If Unit or CA, Agreement Designation

**NA**

8. Well Name and No.

**CASTLE DRAW 8-9-9-17**

9. API Well No.

**43-013-32078**

10. Field and Pool, or Exploratory Area

**MONUMENT BUTTE**

11. County or Parish, State

**DUCHESNE COUNTY, 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

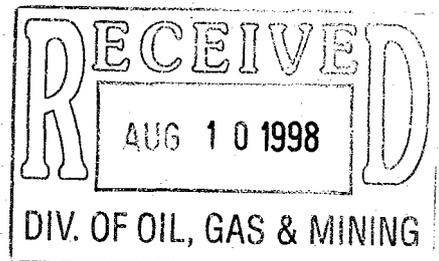
Change of Plans  
 New Construction  
 Non-Routine Fracturing  
 Water Shut-Off  
 Conversion to Injection  
 Dispose Water

(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.)\*

**WEEKLY STATUS REPORT FOR THE PERIOD OF 7/30/98 - 8/5/98**

Test BOP's. TIH. Blow hole dn. Drl plug, cmt & GS. XO head rubbers & drivers. Srvy. Drill 345' - 5355'.



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

Signed Sharon Smith Title Engineering Secretary Date 8/6/98

(This space for Federal or State office use)

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

Conditions of approval, if any:

**CC: UTAH DOGM**

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

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.  
**U-74806**

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

7. If Unit or CA, Agreement Designation  
**NA**

8. Well Name and No.  
**CASTLE DRAW 8-9-9-17**

9. API Well No.  
**43-013-32078**

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

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

**SUBMIT IN TRIPLICATE**

1. Type of Well  
 Oil Well     Gas Well     Other

2. Name of Operator  
**INLAND PRODUCTION COMPANY**

3. Address and Telephone No.  
**410 17TH STREET, SUITE 700, DENVER, COLORADO 80202 (303) 893-0102**

4. Location of Well (Footage, Sec., T., R., m., or Survey Description)  
**1980 FNL 660 FEL                      SE/NE Section 9, T09S R17E**

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

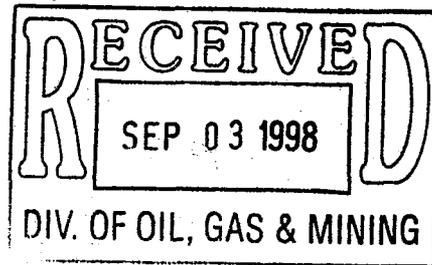
TYPE OF SUBMISSION	TYPE OF ACTION
<input type="checkbox"/> Notice of Intent	<input type="checkbox"/> Abandonment
<input checked="" type="checkbox"/> Subsequent Report	<input type="checkbox"/> Recompletion
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Plugging Back
	<input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

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

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

**WEEKLY STATUS REPORT FOR THE PERIOD OF 8/21/98 - 8/27/98**

Perf CP sds @ 5408-19'.  
Perf A sds @ 5059-64' & 5077-82'.



14. I hereby certify that the foregoing is true and correct  
Signed Shannon Smith Title Engineering Secretary Date 8/28/98

(This space for Federal or State office use)  
Approved by \_\_\_\_\_ Title \_\_\_\_\_ Date \_\_\_\_\_

Conditions of approval, if any:  
**CC: UTAH DOGM**

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

OPERATOR ACCT. NO. N 5160

ACTION CODE	CURRENT ENTITY NO.	NEW ENTITY NO.	API NUMBER	WELL NAME	WELL LOCATION					SPUD DATE	EFFECTIVE DATE
					QQ	SC	TP	RG	COUNTY		
B	99999	12391	43-013-32068	TAR SANDS FED 8-28-8-17	SE/NE	28	OBS	17E	Duchesne	7/21/98	

WELL 1 COMMENTS: Spud well on 7/21/98 @ 10:30 am w/ Leon Ross  
 entity added 9.11.98 (Greater Boundary (PR) unit) KDR

ACTION CODE	CURRENT ENTITY NO.	NEW ENTITY NO.	API NUMBER	WELL NAME	WELL LOCATION					SPUD DATE	EFFECTIVE DATE
					QQ	SC	TP	RG	COUNTY		
B	99999	12391	43-013-32058	TAR SANDS FED 15-29-8-17	SW/SE	29	OBS	17E	Duchesne	7/23/98	

WELL 2 COMMENTS: Spud well w/ Leon Ross on 7/23/98 @ 9:30 am.  
 entity added 9.11.98 (Greater Boundary (PR) unit) KDR

ACTION CODE	CURRENT ENTITY NO.	NEW ENTITY NO.	API NUMBER	WELL NAME	WELL LOCATION					SPUD DATE	EFFECTIVE DATE
					QQ	SC	TP	RG	COUNTY		
A	99999	12456	43-013-32078	CASTLE DRAW 8-9-9-17	SE/NE	9	OBS	17E	Duchesne	7/30/98	

WELL 3 COMMENTS: Spud well w/ Union #7 on 7/30/98 @ 12:00 pm.  
 entity added 9.11.98. KDR

ACTION CODE	CURRENT ENTITY NO.	NEW ENTITY NO.	API NUMBER	WELL NAME	WELL LOCATION					SPUD DATE	EFFECTIVE DATE
					QQ	SC	TP	RG	COUNTY		
B	99999	12391	43-013-32059	TAR SANDS FED 14-29-8-17	SE/SW	29	OBS	17E	Duchesne	8/6/98	

WELL 4 COMMENTS: Spud well w/ Leon Ross @ 11:30 am, 8/6/98  
 entity added 9.11.98 (Greater Boundary (PR) unit) KDR

ACTION CODE	CURRENT ENTITY NO.	NEW ENTITY NO.	API NUMBER	WELL NAME	WELL LOCATION					SPUD DATE	EFFECTIVE DATE
					QQ	SC	TP	RG	COUNTY		
A	99999	12457	43-013-32075	CASTLE DRAW 6-4-9-17	SE/NW	4	OBS	17E	Duchesne	8/17/98	

WELL 5 COMMENTS: Spud well w/ Union Rig #7 @ 12:5 pm, 8/17/98.  
 entity added 9/11/98. KDR

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

Shannon Smith  
 Signature  
 Engineering Secretary 9/9/98  
 Date

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

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

OPERATOR ACCT. NO. N 5160

ACTION CODE	CURRENT ENTITY NO.	NEW ENTITY NO.	API NUMBER	WELL NAME	WELL LOCATION					SPUD DATE	EFFECTIVE DATE
					QQ	SC	TP	RG	COUNTY		
A	99999	12458	43-013-31004	TAR SANDS FED 10-33	NW/SE	33	09S	17E	Duchesne	8/15/98	

WELL 1 COMMENTS: Spud well w/ Union Rig #7 @ 11:00 pm, 8/15/98.  
 entity added 9/11/98. KDR

ACTION CODE	CURRENT ENTITY NO.	NEW ENTITY NO.	API NUMBER	WELL NAME	WELL LOCATION					SPUD DATE	EFFECTIVE DATE
					QQ	SC	TP	RG	COUNTY		
A	99999	12459	43-013-31017	SOUTH WELLS DRAW 13-10-9-16	SW/SE	10	09S	16E	Duchesne	8/15/98	

WELL 2 COMMENTS: Spud well w/ Union, Rig #14 @ 12:00am, 8/15/98.  
 entity added 9/11/98. KDR

ACTION CODE	CURRENT ENTITY NO.	NEW ENTITY NO.	API NUMBER	WELL NAME	WELL LOCATION					SPUD DATE	EFFECTIVE DATE
					QQ	SC	TP	RG	COUNTY		
B	99999	12391	43-013-32060	TAR SANDS FED 6-29-8-17	SE/NW	29	09S	17E	Duchesne	8/6/98	

WELL 3 COMMENTS: Spud well w/ Leon Ross @ 2:30 pm, 8/12/98.  
 entity added 9/11/98 (greater boundary (CR) unit) KDR

ACTION CODE	CURRENT ENTITY NO.	NEW ENTITY NO.	API NUMBER	WELL NAME	WELL LOCATION					SPUD DATE	EFFECTIVE DATE
					QQ	SC	TP	RG	COUNTY		
B	99999	12419	43-013-32004	ASHLEY FED 16-1-9-15	SE/SE	1	09S	15E	Duchesne	8/24/98	

WELL 4 COMMENTS: Spud well w/ Union #14 @ 3:00 pm, 8/24/98.  
 Ashley unit entity added 9/11/98 (Ashley unit) KDR

ACTION CODE	CURRENT ENTITY NO.	NEW ENTITY NO.	API NUMBER	WELL NAME	WELL LOCATION					SPUD DATE	EFFECTIVE DATE
					QQ	SC	TP	RG	COUNTY		
B	99999	12400	43-013-32083	CASTLE DRAW 15-4-9-17	SW/SE	4	09S	17E	Duchesne	8/23/98	

WELL 5 COMMENTS: Spud well w/ Union #7 @ 2:00 pm, 8/23/98.  
 entity added 9/11/98. KDR

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

Shannon Smith  
 Signature  
 Engineering Secretary 9/9/98  
 Title Date

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

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

OPERATOR ACCT. NO. N 5160

ACTION CODE	CURRENT ENTITY NO.	NEW ENTITY NO.	API NUMBER	WELL NAME	WELL LOCATION					SPUD DATE	EFFECTIVE DATE
					QQ	SC	TP	RG	COUNTY		
B	99999	12419	43-013-32003	Ashley Fed. 15-1	SW/SE	1	09S	15E	Duchesne	9/1/98	

ELL 1 COMMENTS: Spud well @ 1:30 pm, 9/1/98 w/Union Rig #14  
 Ashley Unit entity added 9.11.98 (Ashley unit) KDR

ACTION CODE	CURRENT ENTITY NO.	NEW ENTITY NO.	API NUMBER	WELL NAME	WELL LOCATION					SPUD DATE	EFFECTIVE DATE
					QQ	SC	TP	RG	COUNTY		
A	99999	12401	43-013-32071	CASTLE DRAW 1-9-9-17	NE/NE	9	09S	17E	Duchesne	8/31/98	

ELL 2 COMMENTS: Spud well w/Union #7 @ 1:00 pm, 8/31/98  
 entity added 9/11/98. KDR

ACTION CODE	CURRENT ENTITY NO.	NEW ENTITY NO.	API NUMBER	WELL NAME	WELL LOCATION					SPUD DATE	EFFECTIVE DATE
					QQ	SC	TP	RG	COUNTY		
A	99999	12402	43-013-32077	CASTLE DRAW 8-4-9-17	SE/NE	4	09S	17E	Duchesne	9/8/98	

ELL 3 COMMENTS: Spud well w/Union #7 @ 1:00 pm, 9/8/98.  
 entity added 9/11/98. KDR

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

ELL 4 COMMENTS:

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

ELL 5 COMMENTS:

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

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

Shannon Smith  
 Signature  
 Engineering Secretary 9/9/98  
 Title Date

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

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

**SUNDRY NOTICES AND REPORTS ON WELLS**

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

5. Lease Designation and Serial No. <b>U-74806</b>
6. If Indian, Allottee or Tribe Name <b>NA</b>
7. If Unit or CA, Agreement Designation <b>NA</b>
8. Well Name and No. <b>CASTLE DRAW 8-9-9-17</b>
9. API Well No. <b>43-013-32078</b>
10. Field and Pool, or Exploratory Area <b>MONUMENT BUTTE</b>
11. County or Parish, State <b>DUCHESNE COUNTY, UTAH</b>

**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 17TH STREET, SUITE 700, DENVER, COLORADO 80202 (303) 893-0102**

4. Location of Well (Footage, Sec., T., R., m., or Survey Description)  
**1980 FNL 660 FEL                      SE/NE Section 9, T09S R17E**

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

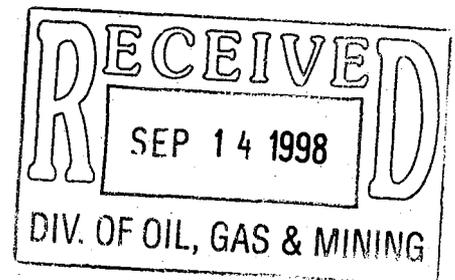
TYPE OF SUBMISSION	TYPE OF ACTION
<input type="checkbox"/> Notice of Intent <input checked="" type="checkbox"/> Subsequent Report <input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Abandonment <input type="checkbox"/> Recompletion <input type="checkbox"/> Plugging Back <input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

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

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

**WEEKLY STATUS REPORT FOR THE PERIOD OF 8/28/98 - 9/9/98**

Perf C/B sd @ 4741-52', 4826-32' & 4892-99'.  
 Perf GB sds @ 4113-26'.  
 Swab well. Trip production tbg.  
 PLACE WELL ON PRODUCTION @ 1:00 PM, 9/3/98.



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

Signed Shannon Smith Title Engineering Secretary Date 9/10/98

(This space for Federal or State office use)

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

Conditions of approval, if any:  
**CC: UTAH DOGM**

SUBMIT IN DUPLICATE\*  
(See other instructions on reverse side)

FORM APPROVED  
OMB NO. 1004-0137  
Expires: February 28, 1995  
5. LEASE DESIGNATION AND SERIAL NO.  
**U-74806**

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

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

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

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

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 (Report locations clearly and in accordance with any State requirements.)\*  
 At Surface **SE/NE**  
 At top prod. Interval reported below **1980 FNL 660 FEL**

6. IF INDIAN, ALLOTTEE OR TRIBE NAME \_\_\_\_\_

7. UNIT AGREEMENT NAME \_\_\_\_\_

8. FARM OR LEASE NAME, WELL NO.  
**CASTLE DRAW 8-9-9-17**

9. API WELL NO.  
**43-013-32078**

10. FIELD AND POOL OR WILDCAT  
**MONUMENT BUTTE**

11. SEC., T., R., M., OR BLOCK AND SURVEY OR AREA  
**Section 9, T09S R17E**

14. PERMIT NO. **43-013-32078** DATE ISSUED **6/9/98** 12. COUNTY OR PARISH **DUCHESNE** 13. STATE **UT**

15. DATE SPUDDED **7/30/98** 16. DATE T.D. REACHED **8/5/98** 17. DATE COMPL. (Ready to prod.) **9/3/98** 18. ELEVATIONS (DF, RKB, RT, GR, ETC.)\* **5192' GL 5202' KB** 19. ELEV. CASINGHEAD \_\_\_\_\_

20. TOTAL DEPTH, MD & TVD **5635'** 21. PLUG, BACK T.D., MD & TVD **5565'** 22. IF MULTIPLE COMPL., HOW MANY\* \_\_\_\_\_ 23. INTERVALS DRILLED BY **----->** ROTARY TOOLS **X** CABLE TOOLS \_\_\_\_\_

24. PRODUCING INTERVAL(S), OF THIS COMPLETION--TOP, BOTTOM, NAME (MD AND TVD)\*  
**Green River 4113' - 5419'**

25. WAS DIRECTIONAL SURVEY MADE **No**

26. TYPE ELECTRIC AND OTHER LOGS RUN  
**10-21-98 DIGL/SPIGRICAL, CN/CDIGR, CBL/GR/CEL**

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	24#	326'	12 1/4	160 SX Class "G"	
5 1/2	15.5#	5612'	7 7/8	250 SX Premium Lite	
				260 SX Glass "G"	

29. LINER RECORD

SIZE	TOP (MD)	BOTTOM (MD)	SACKS CEMENT*	SCREEN (MD)
				2-7/8

30. TUBING RECORD

SIZE	DEPTH SET (MD)	PACKER SET (MD)
2-7/8	EOT @ 5470'	TA @ 5372'

31. PERFORATION RECORD (Interval, size and number)

Interval	SPF	HOLES
CP 5408-19'	4 SPF	44 HOLES
A 5059-64', 5077-82'	4 SPF	40 HOLES
C/B 4741-52', 4826-32', 4892-99'	4 SPF	90 HOLES
GB 4113-26'	4 SPF	52 HOLES

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

DEPTH INTERVAL (MD)	AMOUNT AND KIND OF MATERIAL USED
5408' - 5419'	98,100# 20/40 sd in 509 bbls Viking I-25
5059' - 5082'	95,716# 20/40 sd in 506 bbls Viking I-25
4741' - 4899'	109,231# 20/40 sd in 552 bbls Viking I-25
4113' - 4126'	97,592# 20/40 sd in 480 bbls Viking I-25

33.\* PRODUCTION

DATE FIRST PRODUCTION **9/3/98** PRODUCTION METHOD (Flowing, gas lift, pumping--size and type of pump) **Pumping - 2-1/2" x 1-1/2" x 14' 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
<b>10 day ave</b>	<b>9/1/98</b>	<b>N/A</b>	<b>---</b>	<b>114</b>	<b>69</b>	<b>11</b>	<b>0.61</b>

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

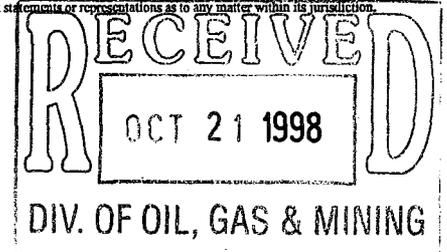
34. DISPOSITION OF GAS (Sold, used for fuel, vented, etc.) **Sold & Used for Fuel** TEST WITNESSED BY \_\_\_\_\_

35. LIST OF ATTACHMENTS  
**Items in #26**

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

SIGNED Shannon Smith TITLE Engineering Technician DATE \_\_\_\_\_

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.



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

38. GEOLOGIC MARKERS

FORMATION	TOP	BOTTOM	DESCRIPTION, CONTENTS, ETC.	TOP	
				MEAS. DEPTH	TRUE VERT. DEPTH
Garden Gulch Mkr	3580'				
Garden Gulch 2	3884'				
Point 3 Mkr	4147'				
X Mkr	4390'				
Y-Mkr	4426'				
Douglas Creek Mkr	4556'				
Carbonate Mkr	4794'				
B Limestone Mkr	4924'				
Castle Peak	5354'				
Basal Carbonate	NDE				
Total Depth	5635'				

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

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

OPERATOR ACCT. NO. N5160

ACTION CODE	CURRENT ENTITY NO.	NEW ENTITY NO.	API NUMBER	WELL NAME	WELL LOCATION					SPUD DATE	EFFECTIVE DATE
					QQ	SC	TP	RG	COUNTY		
D	12507	12704	43-013-31890	Tar Sands Federal #15-33	SWSE	33	8S	17E	Duchesne		3/1/2000

WELL 2 COMMENTS: Moved well to BlackJack Unit *000515 entity Added.*

ACTION CODE	CURRENT ENTITY NO.	NEW ENTITY NO.	API NUMBER	WELL NAME	WELL LOCATION					SPUD DATE	EFFECTIVE DATE
					QQ	SC	TP	RG	COUNTY		
D	12491	12704	43-013-32082	Castle Draw #12-4	NWSW	4	9S	17E	Duchesne		3/1/2000

WELL 2 COMMENTS: Moved well to BlackJack Unit *000515 entity Added.*

ACTION CODE	CURRENT ENTITY NO.	NEW ENTITY NO.	API NUMBER	WELL NAME	WELL LOCATION					SPUD DATE	EFFECTIVE DATE
					QQ	SC	TP	RG	COUNTY		
D	12461	12704	43-013-32071	Castle Draw #1-9	NENE	9	9S	17E	Duchesne		3/1/2000

WELL 3 COMMENTS: Moved well to BlackJack Unit *000515 entity Added.*

ACTION CODE	CURRENT ENTITY NO.	NEW ENTITY NO.	API NUMBER	WELL NAME	WELL LOCATION					SPUD DATE	EFFECTIVE DATE
					QQ	SC	TP	RG	COUNTY		
D	12456	12704	43-013-32078	Castle Draw #8-9	SENE	9	9S	17E	Duchesne		3/1/2000

WELL 4 COMMENTS: Moved well to BlackJack Unit *000515 entity Added.*

ACTION CODE	CURRENT ENTITY NO.	NEW ENTITY NO.	API NUMBER	WELL NAME	WELL LOCATION					SPUD DATE	EFFECTIVE DATE
					QQ	SC	TP	RG	COUNTY		
D	12509	12704	43-013-32074	Castle Draw #5-4	SWNW	4	9S	17E	Duchesne		3/1/2000

WELL 5 COMMENTS: Moved well to BlackJack Unit *000515 entity Added.*

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

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

**RECEIVED**

MAY 11 2000

DIVISION OF  
 OIL, GAS AND MINING

*Kellie S. Jones*  
 Signature  
 Production Clerk  
 Title  
 May 9, 2000  
 Date

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

303.1

Well Name and number: Castle Draw 8-9-9-17  
Field or Unit name: Monument Butte (Green River) Black Jack Unit Lease No. UTU-74806  
Well Location: QQ SE/NE section 9 township 9S 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: 43-013-32078

Proposed injection interval: from 3884 to 5635  
Proposed maximum injection: rate 500 bpd pressure 1487 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 "H-1"

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

Name: David Gerbig Signature *David Gerbig*  
Title: Operations Engineer Date: 12-4-02  
Phone No. (303)893-0102

(State use only)  
Application approved by \_\_\_\_\_ Title \_\_\_\_\_  
Approval Date \_\_\_\_\_

Comments:

STATE OF 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

*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 17th Street, Suite 700, Denver, Colorado 80202      (303) 893-0102**

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

SE/NE      1980' FNL, 660' FEL      Sec. 9, T9S, R17E

5. Lease Designation and Serial No.

UTU-74806

6. If Indian, Allottee or Tribe Name

NA

7. If unit or CA, Agreement Designation

Black Jack

8. Well Name and No.

Castle Draw 8-9-9-17

9. API Well No.

43-013-32078

10. Field and Pool, or Exploratory Area

Monument Butte

11. County or Parish, State

Duchesne County, Utah

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

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

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

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

Please see attached injection application.

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

Signed David Gerbig  
**David Gerbig**

Title Operations Engineer

Date 12-4-07

(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.

STATE OF 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

*SUBMIT IN TRIPLICATE*

1. Type of Well <input checked="" type="checkbox"/> Oil Well <input type="checkbox"/> Gas well <input type="checkbox"/> Other	5. Lease Designation and Serial No. UTU-74806
2. Name of Operator <b>INLAND PRODUCTION COMPANY</b>	6. If Indian, Allottee or Tribe Name NA
3. Address and Telephone No. <b>410 17th Street, Suite 700, Denver, Colorado 80202      (303) 893-0102</b>	7. If unit or CA, Agreement Designation Black Jack
4. Location of Well (Footage, Sec., T., R., M., or Survey Description) SE/NE      1980' FNL, 660' FEL      Sec. 9, T9S, R17E	8. Well Name and No. Castle Draw 8-9-9-17
	9. API Well No. 43-013-32078
	10. Field and Pool, or Exploratory Area Monument Butte
	11. County or Parish, State Duchesne County, Utah

12 CHECK APPROPRIATE BOX(S) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA		
TYPE OF SUBMISSION	TYPE OF ACTION	
<input checked="" type="checkbox"/> Notice of Intent  <input type="checkbox"/> Subsequent Report  <input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Abandonment <input type="checkbox"/> Recompletion <input type="checkbox"/> Plugging Back <input type="checkbox"/> Casing repair <input type="checkbox"/> Altering Casing <input type="checkbox"/> Other _____	<input type="checkbox"/> Change of Plans <input type="checkbox"/> New Construction <input type="checkbox"/> Non-Routine Fracturing <input type="checkbox"/> Water Shut-off <input checked="" type="checkbox"/> Conversion to Injection <input type="checkbox"/> Dispose Water <small>(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)</small>

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 <u>David Gerbig</u> <b>David Gerbig</b>	Title <u>Operations Engineer</u>	Date <u>12-4-02</u>

(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.



RESOURCES INC.

November 15, 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  
Castle Draw #8-9-9-17  
Monument Butte Field, Black Jack Unit, Lease # UTU-74806  
Section 9-Township 9S-Range 17E  
Duchesne County, Utah

Dear Mr. Jarvis:

Inland Production Company herein requests approval to convert the Castle Draw #8-9-9-17 from a producing oil well to a water injection well in the Monument Butte (Green River) Field, Black Jack Unit.

We also request permission to add additional perforations between the Garden Gulch and Basal Limestone formations at that time. All work will be detailed in a Sundry Notice.

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,



David Gerbig  
Operations Engineer

RECEIVED

DEC 12 2002

DIV. OF OIL, GAS & MINING

**INLAND PRODUCTION COMPANY**  
**APPLICATION FOR APPROVAL OF CLASS II INJECTION WELL**  
**CASTLE DRAW #8-9-9-17**  
**MONUMENT BUTTE FIELD (GREEN RIVER) FIELD**  
**BLACK JACK UNIT**  
**LEASE #UTU-74806**  
**NOVEMBER 15, 2002**

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# Castle Draw #8-9-9-17

Spud Date: 7/30/98  
 Put on Production: 9/3/98  
 GL: 5192' KB: 5202'

Initial Production: 114 BOPD;  
 69 MCFD; 11 BWPD

## SURFACE CASING

CSG SIZE: 8-5/8"  
 GRADE: J-55  
 WEIGHT: 24#  
 LENGTH: 8 jts.(316')  
 DEPTH LANDED: 326' GL  
 HOLE SIZE: 12-1/4"  
 CEMENT DATA: 160 sxs Premium cmt, est 8 bbbs to surf.

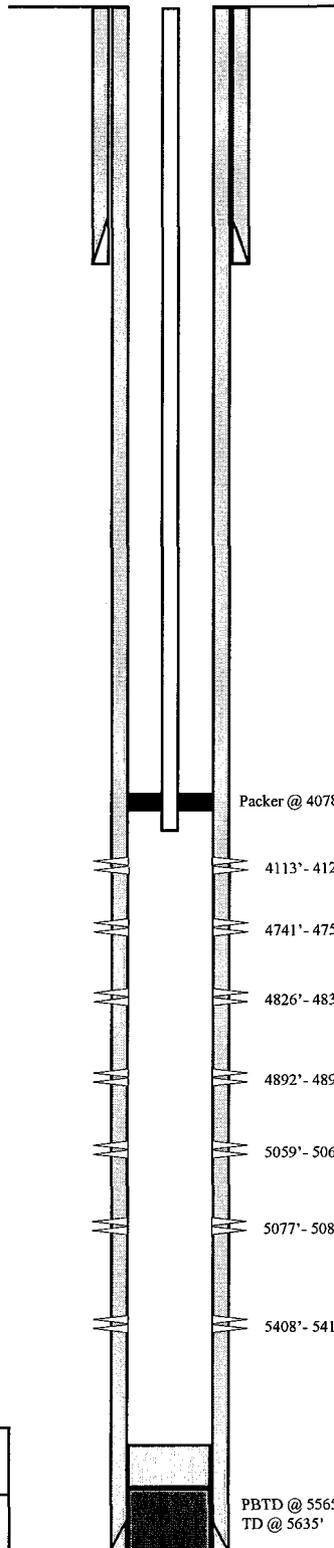
## PRODUCTION CASING

CSG SIZE: 5-1/2"  
 GRADE: J-55  
 WEIGHT: 15.5#  
 LENGTH: 131 jts. (5603')  
 HOLE SIZE: 7-7/8"  
 CEMENT DATA: 250 sxs modified mixed & 260 sxs class G  
 CEMENT TOP AT: Surface  
 SET AT: 5612'

## TUBING

SIZE/GRADE/WT.: 2-7/8" / M-50 / 6.5#  
 NO. OF JOINTS: 174 jts  
 SEATING NIPPLE: 2-7/8"  
 SN LANDED AT: 4100' KB  
 PACKER: 4101' KB  
 TOTAL STRING LENGTH: 4100'

## Proposed Injection Diagram



## FRAC JOB

8/24/98	5408'-5419'	<b>Frac CP sands as follows:</b> RU BJ Services & frac CP sds w/98,100# 20/40 sd in 509 bbbs Viking I-25 fluid. Perfs broke dn @ 1933 psi. Treated @ ave press of 1540 psi w/ave rate of 29.8 BPM. ISIP: 1500 psi.
8/26/98	5059'-5082'	<b>Frac A sands as follows:</b> RU BJ Services & frac A sds w/95,716# 20/40 sd in 506 bbbs Viking I-25 fluid. Perfs broke dn @ 3042 psi. Treated @ ave press of 1850 psi w/ave rate of 27.7 BPM. ISIP: 2200 psi.
8/28/98	4741'-4899'	<b>Frac B/C sands as follows:</b> RU BJ Services & frac C/B sds w/109,231# 20/40 sd in 552 bbbs Viking I-25 fluid. Perfs broke back @ 2200 psi @ 15 BPM. Treated @ ave press of 1800 psi w/ave rate of 32.6 BPM. ISIP: 2300 psi.
8/31/98	4113'-4126'	<b>Frac GB sands as follows:</b> RU BJ Services & frac GB sds w/97,592# 20/40 sd in 480 bbbs Viking I-25 fluid. Perfs broke dn @ 3500 psi. Treated @ ave press of 1860 psi w/ave rate of 24 BPM. ISIP: 2050 psi.
3/26/02		Workover. Update rod and tubing details.
4/15/02		Pump change. Update rod details.

## PERFORATION RECORD

8/21/98	5408'- 5419'	4 JSPF	44 holes
8/25/98	5059'- 5064'	4 JSPF	20 holes
8/25/98	5077'- 5082'	4 JSPF	20 holes
8/27/98	4741'- 4752'	4 JSPF	44 holes
8/27/98	4826'- 4832'	4 JSPF	24 holes
8/27/98	4892'- 4899'	4 JSPF	28 holes
8/29/98	4113'- 4126'	4 JSPF	52 holes



**Inland Resources Inc.**

**Castle Draw #8-9-9-17**

1980 FNL & 660 FEL

SENE Section 9-T9S-R17E

Duchesne Co, Utah

API #43-013-32078; Lease #U-74806

PBTD @ 5565'  
 TD @ 5635'

## 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 and move out.

**REQUIREMENTS FOR INJECTION OF FLUIDS INTO RESERVOIRS  
RULE R615-5-1**

1. **Operations to increase ultimate recovery, such as cycling of gas, the maintenance of pressure, the introduction of gas, water or other substances into a reservoir for the purpose of secondary or other enhanced recovery or for storage and the injection of water into any formation for the purpose of water disposal shall be permitted only by order of the Board after notice and hearing.**
  
2. **A request for agency action for authority for the injection of gas, liquified petroleum gas, air, water or any other medium into any formation for any reason, including but not necessarily limited to the establishment of or the expansion of waterflood projects, enhanced recovery projects, and pressure maintenance projects shall contain:**
  - 2.1 **The name and address of the operator of the project.**

Inland Production Company  
410 17<sup>th</sup> Street, Suite 700  
Denver, Colorado 80202
  
  - 2.2 **A plat showing the area involved and identifying all wells, including all proposed injection wells, in the project area and within one-half mile of the project area.**

See Attachment A.
  
  - 2.3 **A full description of the particular operation for approval is requested.**

Approval is requested to convert the Castle Draw #8-9-9-17 from a producing oil well to a water injection well in Monument Butte (Green River) Field, Black Jack Unit.
  
  - 2.4 **A description of the pools from which the identified wells are producing or have produced.**

The proposed injection well will inject into the Green River Formation.
  
  - 2.5 **The names, description and depth of the pool or pools to be affected.**

The injection zone is in the Green River Formation. In the Castle Draw #8-9-9-17 well, the proposed injection zone is from Garden Gulch to Basal Limestone (3884' - 5635'). We may add additional perfs to those already existing; any additional perfs will be detailed in a Sundry Notice at that time. The confining strata directly above and below the injection zones are the Garden Gulch and Castle Peak Members of the Green River Formation, with the Garden Gulch Marker top at 3884' and the Castle Peak top at 5354'.
  
  - 2.6 **A copy of a log of a representative well completed in the pool.**

The referenced log for the Castle Draw #8-9-9-17 is on file with the Utah Division of Oil, Gas and Mining.

**2.7 A statement as to the type of fluid to be used for injection, its source and the estimated amounts to be injected daily.**

The primary type and source of fluid to be used for injection will be culinary water from the Johnson Water District supply line. The secondary type of fluid to be used for injection will be culinary water from the Johnson Water District commingled with produced water. The average estimated injection of fluids will be at a rate of 300 BPD, and the estimated maximum injection will be at a rate of 500 BPD.

**2.8 A list of all operators and surface owners within one-half mile radius of the proposed project.**

See Attachment B.

**2.9 An affidavit certifying that said operators or owners and surface owners within a one-half mile radius have been provided a copy of the petition for injection.**

See Attachment C.

**2.10 Any additional information the Board may determine is necessary to adequately review the petition.**

Inland Production Company will supply any additional information requested by the Utah Division of Oil, Gas and Mining.

**4.0 Establish recovery projects may be expanded and additional wells placed on injection only upon authority from the Board after notice and hearing or by administrative approval.**

This proposed injection well is on a Federal lease (Lease #UTU-74806) in the Monument Butte (Green River) Field, Black Jack Unit, and this request is for administrative approval.

**REQUIREMENTS FOR CLASS II INJECTION WELLS INCLUDING WATER DISPOSAL,  
STORAGE AND ENHANCED RECOVERY WELLS  
SECTION V – RULE R615-5-2**

1. **Injection well shall be completed, equipped, operated, and maintained in a manner that will prevent pollution and damage to any USDW, or other resources and will confine injected fluids to the interval approved.**
2. **The application for an injection well shall include a properly completed Form DOGM-UIC-1 and the following:**

- 2.1 **A plat showing the location of the injection well, all abandoned or active wells within a one-half mile radius of the proposed wells, and the surface owner and the operator of any lands or producing leases, respectively, within a one-half mile radius of the proposed injection well.**

See Attachments A and B.

- 2.2 **Copies of electrical or radioactive logs, including gamma ray logs, for the proposed well run prior to the installation of casing and indicating resistivity, spontaneous potential, caliper and porosity.**

All logs are on file with the Utah Division of Oil, Gas and Mining.

- 2.3 **A copy of a cement bond or comparable log run for the proposed injection well after casing was set and cemented.**

A copy of the cement bond log is on file with the Utah Division of Oil, Gas and Mining.

- 2.4 **Copies of logs already on file with the Division should be referenced, but need not be refiled.**

All copies of logs are on file with the Utah Division of Oil, Gas and Mining.

- 2.5 **A description of the casing or proposed casing program of the injection well and of the proposed method for testing the casing before use of the well.**

The casing program is 8-5/8", 24#, J-55 surface casing run to 326' GL, and 5-1/2" 15.5# J-55 casing run from surface to 5612' KB. A casing integrity test will be conducted at the time of conversion. See Attachment E.

- 2.6 **A statement as to the type of fluid to be used for injection, its source and estimated amounts to be injected daily.**

The primary type and source of fluid to be used for injection will be culinary water from the Johnson Water District supply line. The secondary type of fluid to be used for injection will be culinary water from the Johnson Water District commingled with produced water. The estimated average rate of injection will be 300 BPD, and the estimated maximum rate of injection will be 500 BPD.

- 2.7 **Standard laboratory analysis of the fluid to be injected, the fluid in the formation into which the fluid is being injected, and the compatibility of the fluids.**

See Attachment F.

**The proposed average and maximum injection pressures.**

The proposed average injection pressure will be approximately 1100 psig and the maximum injection pressure will not exceed 1487 psig.

**2.8 Evidence and data to support a finding that the proposed injection well will not initiate fractures through the overlying strata or a confining interval that could enable the injected fluid or formation fluid to enter the fresh water strata.**

The minimum fracture gradient for the Castle Draw #8-9-9-17, for existing perforations (4113' - 5419') calculates at 0.71 psig/ft. The maximum injection pressures will be limited so as not to exceed this gradient. A step rate test will be performed periodically to ensure we are below parting pressure. The proposed maximum injection pressure is 1783 psig. At the time of conversion, we may add additional perforations between 3884' and 5635', and will detail the work performed in a Sundry Notice. See Attachments G and G-1.

**2.9 Appropriate geological data on the injection interval and confining beds, including the geologic name, lithologic description, thickness, depth, and lateral extent.**

In the Castle Draw #8-9-9-17, the proposed injection zone (3884' - 5635') is in the Garden Gulch to Basal limestone members of the Green River Formation. The reservoir is a very fine-grained sandstone with minor imbedded shale streaks. The estimated porosity is 13%. The members are composed of porous and permeable lenticular calcareous sandstone and low porosity carbonates and calcareous shale. The porous and lenticular sandstone varies in thickness from 0-31' and is confined to the Monument Butte Field. Outside the Monument Butte Field, the sandstone is composed of tight, very fine, silty, calcareous sandstone, less than 3' thick. The stratum confining the injection zone is composed of tight, moderately calcareous, sandy lacustrine shale. 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.

**2.10 A review of the mechanical condition of each well within a one-half mile radius of the proposed injection well to assure that no conduit exists that could enable fluids to migrate up or down the wellbore and enter the improper intervals.**

See Attachments E through E-13.

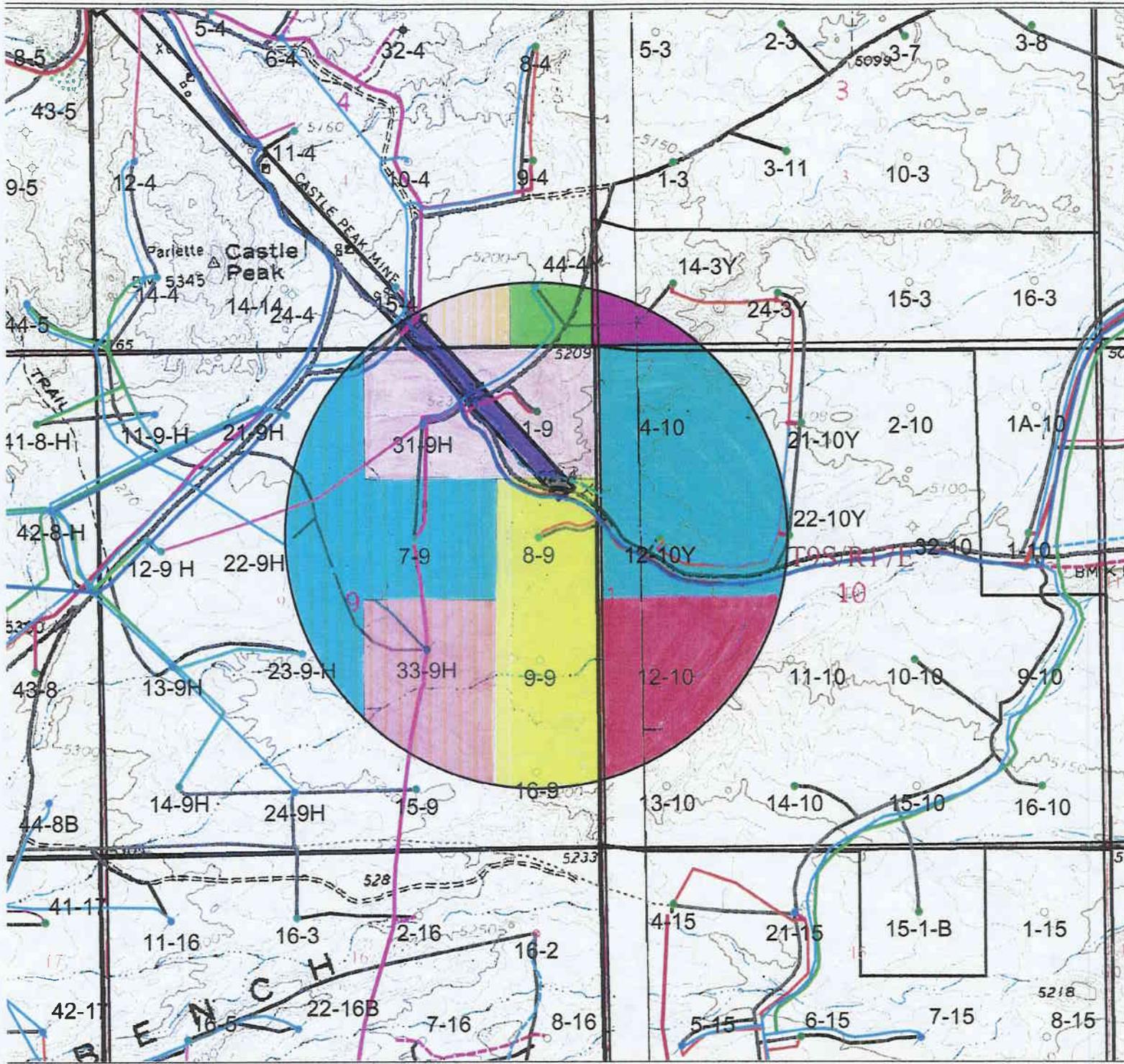
Additionally, the injection system will be equipped with high and low pressure shut down devices that will automatically shut in injection waters if a system blockage or leakage occurs. One way check valves will also ensure proper flow management. Relief valves will also be utilized for high-pressure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

**2.11 An affidavit certifying that a copy of the application has been provided to all operators or owners, and surface owners within a one-half mile radius of the proposed injection well.**

See Attachment C.

**2.12 Any other information that the Board or Division may determine is necessary to adequately review the application.**

Inland Production Company will supply any requested information to the Board or Division.



- WELLS
  - INJ ● UTU-65210
  - WTR ⊕ UTU-75037
  - SWD ⊕
  - OIL ● UTU-70821
  - GAS ⊕
  - DRY ⊕
  - SHUTIN ⊕ UTU-74806
  - SUSPENDED ⊕
  - ABND ⊕ UTU-50750
  - LOC ⊕ UTU-61052
- Water Source 6" — UTU-4596
- Water Source 4" — UTU-61052
- Water 4" High Pressure —
- Water HP 2" to 3" — UTU-4596
- Proposed High Pressure Water - - -
- Water 3" High Pressure —
- Water Return — ZIEGLER CHEMICAL & MINERAL COMPANY
- Petroglyph —
- Questar ■ UTU-75078
- Johnson Water ■ UTU-75038
- Mining Tract
- Gathering Lines
  - 2" —
  - 3" —
  - 4" —
  - 6" —
  - 8" —
  - 10" —
  - Proposed - - -
  - Paved —
  - Dirt - - -
  - Proposed - - -
  - Two Track - - -
  - Private —

Attachment A  
 Castle Draw Fed. 8-9-9-17  
 Sec 9, T9S-R17E

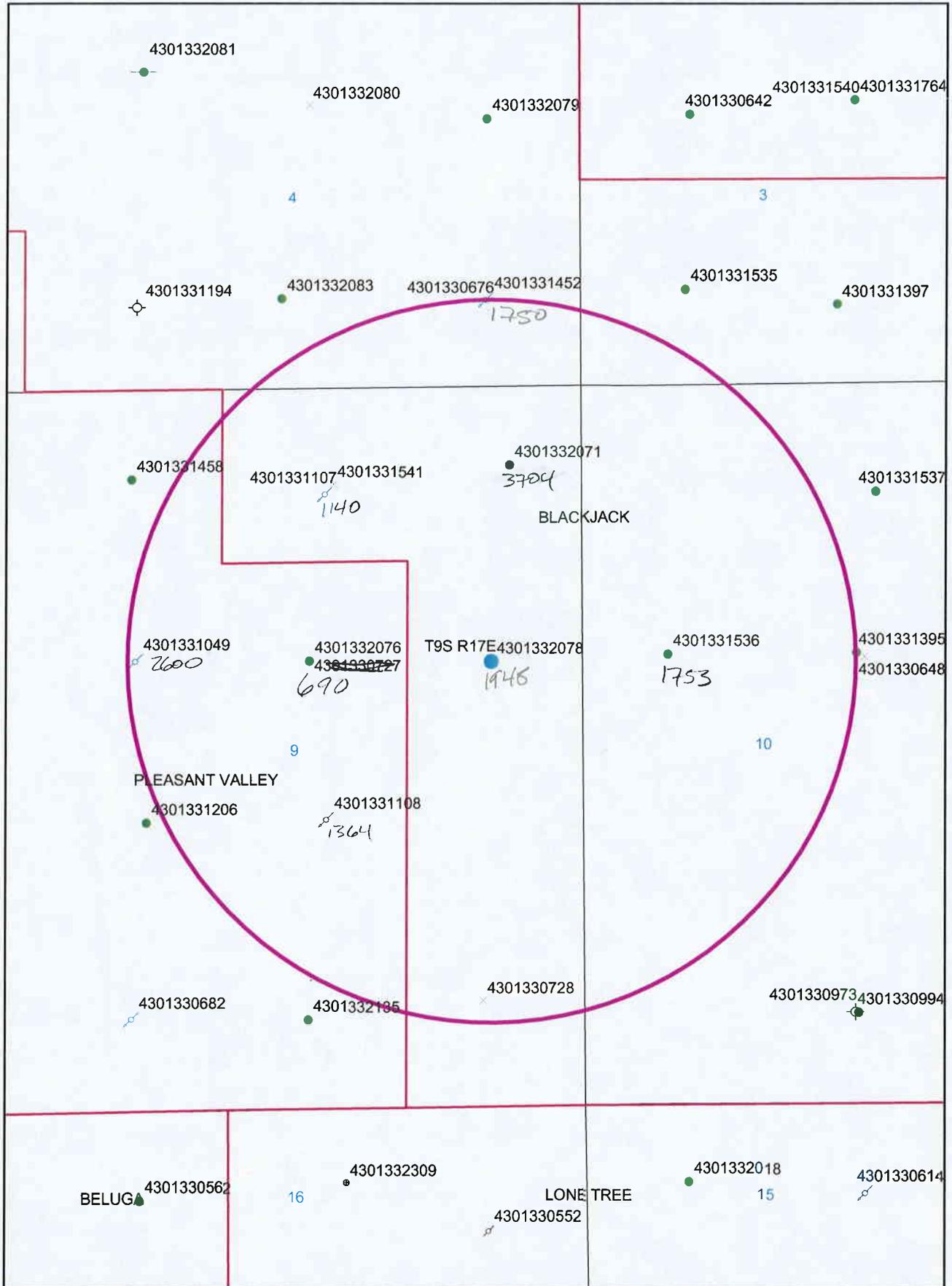
410 E. Street Suite 700  
 Denver, Colorado 80202  
 Phone: (303) 895 0102

**1/2 Mile Radius Map**

UINTA BASIN, UTAH  
 DuChesne & Uintah Counties, Utah

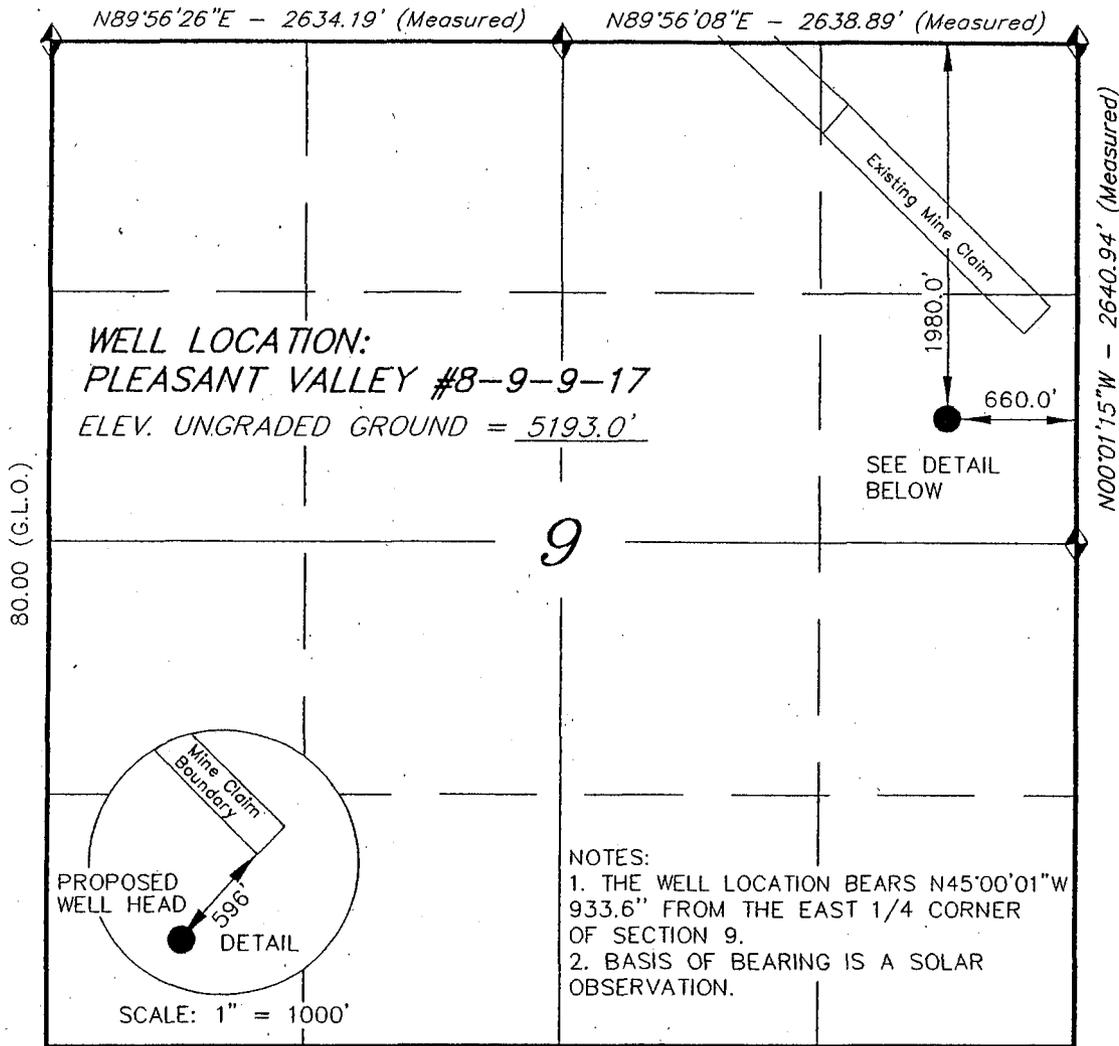
November 6, 2002 D. C. Ogden

# Castle Draw 8-9-9-17



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

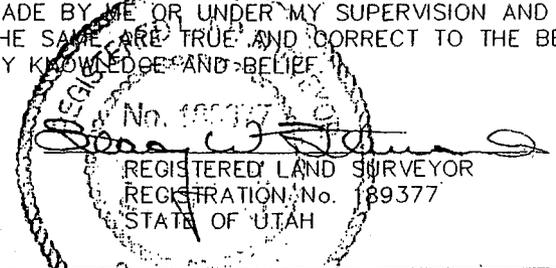
Attachment A-1  
INLAND PRODUCTION COMPANY



WELL LOCATION, PLEASANT VALLEY #8-9-9-17, LOCATED AS SHOWN IN THE SE 1/4 NE 1/4 OF SECTION 9, T9S, R17E, S.L.B.&M. DUCHESNE COUNTY, UTAH.



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



NOTES:  
1. THE WELL LOCATION BEARS N45°00'01"W 933.6" FROM THE EAST 1/4 CORNER OF SECTION 9.  
2. BASIS OF BEARING IS A SOLAR OBSERVATION.

**TRI STATE LAND SURVEYING & CONSULTING**  
38 WEST 100 NORTH - VERNAL, UTAH 84078  
(801) 781-2501

SCALE: 1" = 1000'	SURVEYED BY: DS NW
DATE: 3/4/98	WEATHER:
NOTES:	FILE # 8-9

◆ = SECTION CORNERS LOCATED

BASIS OF ELEV; U.S.G.S. 7-1/2 min QUAD (MYTON SE)

## EXHIBIT B

Page 1

#	Land Description	Minerals Ownership & Expires	Minerals Leased By	Surface Rights
1.	<u>Township 9 South, Range 17 East</u> Section 3: S/2S/2	UTU-75037 HBP	Inland Production Company Yates Petroleum Corporation	(Surface Rights) USA
2.	<u>Township 9 South, Range 17 East</u> Section 1: Lots 1-3, S/2NE, SE/4NW/4	UTU-65967 HBP	Inland Production Company Yates Petroleum Corporation ABO Petroleum Corporation Yates Drilling Company Myco Industries, Inc.	(Surface Rights) USA
3.	<u>Township 9 South, Range 17 East</u> Section 4: Lots 1-12, S/2N/E4 SE/4NW/4, S/2SE/4	UTU-75038 HBP	Inland Production Company	(Surface Rights) USA
4.	<u>Township 9 South, Range 17 East</u> Section 9: Lots 1, 2, 3	UTU-75078 HBP	Inland Production Company	(Surface Rights) USA

EXHIBIT B

Page 2

#	Land Description	Minerals Ownership & Expires	Minerals Leased By	Surface Rights
5.	<u>Township 9 South, Range 17 East</u> Section 10: W/2NE/4, NW/4	UTU-65210 HBP	Inland Production Company Yates Petroleum Corporation Abo Petroleum Corporation Yates Drilling Company Myco Industries, Inc.	(Surface Rights) USA
6.	<u>Township 9 South, Range 17 East</u> Section 9: SW/4NE/4, W/2	UTU-50750 HBP	Inland Production Company Key Production Company	(Surface Rights) USA
7.	<u>Township 9 South, Range 17 East</u> Section 9: Lot 4, E/2SE/4	UTU-74806 HBP	Inland Production Company	(Surface Rights) USA
8.	<u>Township 9 South, Range 17 East</u> Section 10: SW/4, W/2SE/4	UTU-70821 HBP	Inland Production Company	(Surface Rights) USA
9.	<u>Township 9 South, Range 17 East</u> Section 9: W/2SE/4	UTU-61052 HBP	Inland Production Company	(Surface Rights) USA

EXHIBIT B

Page 3

#	Land Description	Minerals Ownership	Minerals Leased By
10	<u>Township 9 South, Range 17 East</u> Section 4: Baxter Lode "A" Mineral Survey No 5566, Baxter Lode "B" Mineral Survey No 5567, Baxter Lode "C" Mineral Survey No 5565, Baxter Lode "D" Mineral Survey No 5564, Lying in Sections 4 & 9 Section 9: Baxter Lode "E" Mineral Survey No 5563	Ziegler Chemical & Mineral Company	Inland Production Company

ATTACHMENT C

CERTIFICATION FOR SURFACE OWNER NOTIFICATION

RE: Application for Approval of Class II Injection Well  
Castle Draw #8-9-9-17

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: David Gerbig  
Inland Production Company  
David Gerbig  
Operations Engineer

Sworn to and subscribed before me this 4 day of December, 2002.

Notary Public in and for the State of Colorado: Steve Ben

My Commission Expires: 8/25/05

# Castle Draw #8-9-9-17

Spud Date: 7/30/98  
 Put on Production: 9/3/98  
 GL: 5192' KB: 5202'

Initial Production: 114 BOPD;  
 69 MCFD; 11 BWPD

Wellbore Diagram

**SURFACE CASING**

CSG SIZE: 8-5/8"  
 GRADE: J-55  
 WEIGHT: 24#  
 LENGTH: 8 jts.(316')  
 DEPTH LANDED: 326' GL  
 HOLE SIZE: 12-1/4"  
 CEMENT DATA: 160 sxs Premium cmt, est 8 bbls to surf.

**PRODUCTION CASING**

CSG SIZE: 5-1/2"  
 GRADE: J-55  
 WEIGHT: 15.5#  
 LENGTH: 131 jts. (5603')  
 HOLE SIZE: 7-7/8"  
 CEMENT DATA: 250 sxs modified mixed & 260 sxs class G  
 CEMENT TOP AT: Surface  
 SET AT: 5612'

**TUBING**

SIZE/GRADE/WT.: 2-7/8" / M-50 / 6.5#  
 NO. OF JOINTS: 162 jts (4990.96')  
 NO. OF JOINTS: 12 jts new (369.60')  
 TUBING ANCHOR: 5376.36' KB  
 NO. OF JOINTS: 1 jts (31.10')  
 SEATING NIPPLE: 2-7/8" (1.10')  
 SN LANDED AT: 5405.56' KB  
 NO. OF JOINTS: 1 jts (29.10')  
 TOTAL STRING LENGTH: BOT @ 5435.11' KB

**SUCKER RODS**

POLISHED ROD: 1-1/2" x 22' SM  
 SUCKER RODS: 6-1 1/2" weight bars; 25-3/4" scraper rods; 90-3/4" slick rods,  
 95-3/4" scraper rods, 1-2' x 3/4" pony rod.  
 PUMP SIZE: 2-1/2" x 1-1/2" x 15.5' RHAC  
 STROKE LENGTH: 74"  
 PUMP SPEED, SPM: 3.5 SPM  
 LOGS: DIGL/SP/GR/CAL

**FRAC JOB**

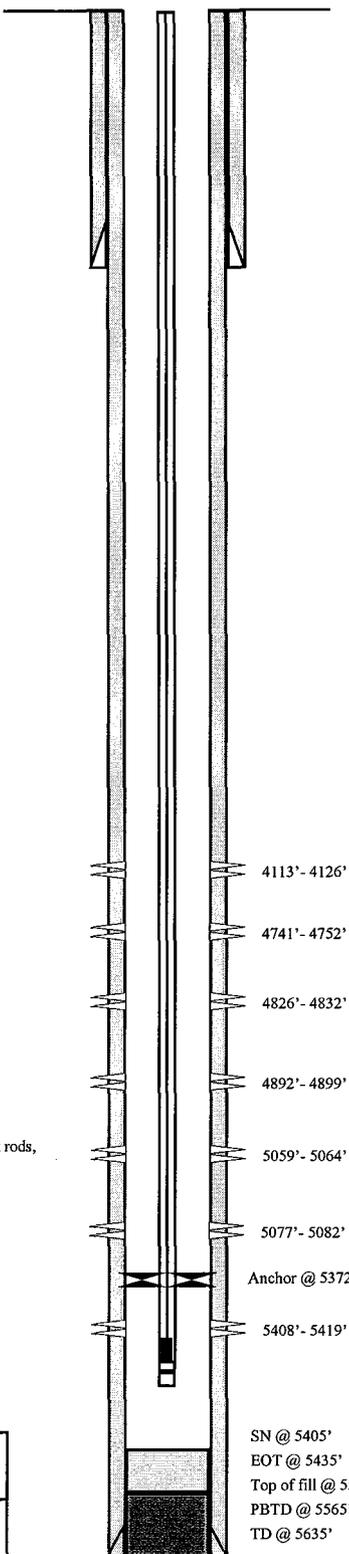
8/24/98 5408'-5419' **Frac CP sands as follows:**  
 RU BJ Services & frac CP sds w/98,100#  
 20/40 sd in 509 bbls Viking I-25 fluid.  
 Perfs broke dn @ 1933 psi. Treated @ ave  
 press of 1540 psi w/ave rate of 29.8 BPM.  
 ISIP: 1500 psi.

8/26/98 5059'-5082' **Frac A sands as follows:**  
 RU BJ Services & frac A sds w/95,716#  
 20/40 sd in 506 bbls Viking I-25 fluid.  
 Perfs broke dn @ 3042 psi. Treated @ ave  
 press of 1850 psi w/ave rate of 27.7 BPM.  
 ISIP: 2200 psi.

8/28/98 4741'-4899' **Frac B/C sands as follows:**  
 RU BJ Services & frac C/B sds w/109,231#  
 20/40 sd in 552 bbls Viking I-25 fluid.  
 Perfs broke back @ 2200 psi @ 15 BPM.  
 Treated @ ave press of 1800 psi w/ave rate  
 of 32.6 BPM. ISIP: 2300 psi.

8/31/98 4113'-4126' **Frac GB sands as follows:**  
 RU BJ Services & frac GB sds w/97,592#  
 20/40 sd in 480 bbls Viking I-25 fluid.  
 Perfs broke dn @ 3500 psi. Treated @ ave  
 press of 1860 psi w/ave rate of 24 BPM.  
 ISIP: 2050 psi.

3/26/02 Workover. Update rod and tubing details.  
 4/15/02 Pump change. Update rod details.



**PERFORATION RECORD**

Date	Interval	Perforations
8/21/98	5408'-5419'	4 JSPF 44 holes
8/25/98	5059'-5064'	4 JSPF 20 holes
8/25/98	5077'-5082'	4 JSPF 20 holes
8/27/98	4741'-4752'	4 JSPF 44 holes
8/27/98	4826'-4832'	4 JSPF 24 holes
8/27/98	4892'-4899'	4 JSPF 28 holes
8/29/98	4113'-4126'	4 JSPF 52 holes



**Inland Resources Inc.**

**Castle Draw #8-9-9-17**

1980 FNL & 660 FEL  
 SENE Section 9-T9S-R17E  
 Duchesne Co, Utah  
 API #43-013-32078; Lease #U-74806

# Balcron Federal #44-4Y-9-17

Spud Date: 9/30/94  
 Put on Production: 12/13/94  
 Put on Injection: 5/04/01  
 GL: 5201.5' KB: 5211.5'

Initial Production: 20 BOPD,  
 NM MCFPD, 0 BWPD

**SURFACE CASING**

CSG SIZE: 8-5/8"  
 GRADE: J-55  
 WEIGHT: 24#  
 LENGTH: 6 jts. (260.15')  
 DEPTH LANDED: 267' KB  
 HOLE SIZE: 12-1/4"  
 CEMENT DATA: 160 sx Class "G", est 10 Bbbs cmt to surface

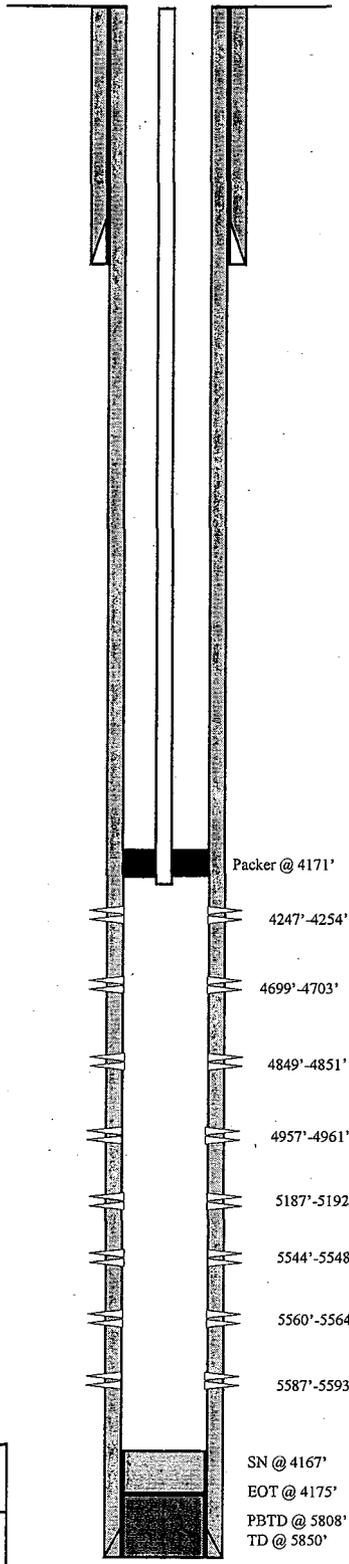
**PRODUCTION CASING**

CSG SIZE: 5-1/2"  
 GRADE: J-55  
 WEIGHT: 15.5#  
 LENGTH: 136 jts. (5849.63')  
 DEPTH LANDED: 5846.63' KB  
 HOLE SIZE: 7-7/8"  
 CEMENT DATA: 261 sxs Super "G" cement & 316 sx 50/50 Poz.  
 CEMENT TOP AT: ? Per CBL

**TUBING**

SIZE/GRADE/WT.: 2-7/8" / 6.5# / J-55  
 NO. OF JOINTS: 133 jts. (4156.78')  
 SEATING NIPPLE: 2-7/8" (1.10')  
 SN LANDED AT: 4167.88' KB  
 PACKER: 4171.08' KB  
 TOTAL STRING LENGTH: EOT @ 4175.25' KB

Injection  
 Wellbore Diagram



**FRAC JOB**

11/23/94	5544'-5593'	Frac sand as follows: 51,680# 20/40, and 40,540# 16/30 sand in 728 bbbs 2% KCL gelled water. Treated w/avg press of 1900 psi w/avg rate of 30.4 BPM. ISIP-1580 psi. Calc. flush: 5544 gal. Actual flush 5544 gal.
11/29/94	5187'-5192'	Frac sand as follows: 21,340# 20/40 sand + 2100# 16-30 sand in 261 bbbs. 2% KCL gelled water. Treated w/avg press of 3800 psi w/avg rate of 26 BPM. Screened out. Calc. flush: 5187 gal. Actual flush 3276 gal.
12/1/94	4247'-4254'	Frac sand as follows: 45,700# 16/30 sand in 368 bbbs. 2% KCL gelled water Treated w/avg press of 2400 psi w. avg rate of 31.5 BPM. ISIP-1880 psi. Calc. flush: 4246 gal. Actual flush 3256 gal.
3/9/01	4,699'-4,703'	Break down with 2 bbbs 15%
3/9/01	4,849'-4,851'	HCL per interval for work done on 3/9/01.
3/9/01	4,958'-4,962'	
3/15/01		Convert to injector.

**PERFORATION RECORD**

11-22-94	5544'-5448'	4 JSPF	16 holes
11-22-94	5560'-5564'	4 JSPF	16 holes
11-22-94	5587'-5593'	4 JSPF	24 holes
11-28-94	5187'-5192'	4 JSPF	20 holes
11-30-94	4247'-4254'	4 JSPF	32 holes
03-09-01	4699'-4703'	4 JSPF	16 holes
03-09-01	4848'-4850'	4 JSPF	8 holes
03-09-01	4957'-4961'	4 JSPF	16 holes



**Inland Resources Inc.**

**Balcron Federal #44-4Y-9-17**

660 FSL & 660 FEL  
 SESE Section 4-T9S-R17E  
 Duchesne Co, Utah  
 API #43-013-31452; Lease #U-65967

# Federal #31R-9H

Spud Date: 1/6/97  
 Put on Production: 3/11/97  
 GL: 5241' KB: 5257'

Wellbore Diagram  
 Updated 4/27/01  
 GBR IV

Initial Production: 85 BOPD; ?  
 MCFD; ? BWPD

**SURFACE CASING**

CSG SIZE: 8-5/8"  
 GRADE: J-55  
 WEIGHT: 24#  
 LENGTH: 7 jts.  
 DEPTH LANDED: 283' GL  
 HOLE SIZE: 12-1/4"  
 CEMENT DATA: 290 sxs Premium cmt, est 8 bbls to surf.

**PRODUCTION CASING**

CSG SIZE: 5-1/2"  
 GRADE: J-55  
 WEIGHT: 15.5#  
 LENGTH: 143 jts.  
 HOLE SIZE: 7-7/8"  
 CEMENT DATA: 320 sxs modified mixed & 340 sxs class G  
 CEMENT TOP AT: ?  
 SET AT: 6000'

**TUBING**

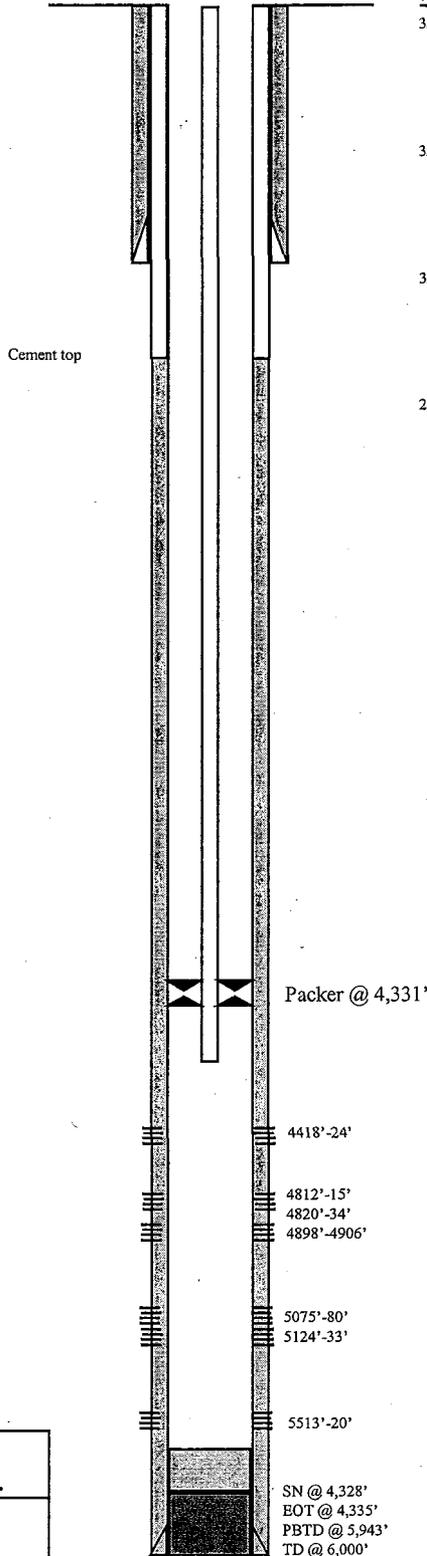
SIZE/GRADE/WT.: 2-7/8" / M-50 / 6.5#  
 NO. OF JOINTS: 136 jts  
 PACKER: 4331'  
 SEATING NIPPLE: 2-7/8"  
 TOTAL STRING LENGTH: 4,335'  
 SN LANDED AT: 4,328'

**SUCKER RODS**

POLISHED ROD:  
 SUCKER RODS:  
 PUMP SIZE:  
 STROKE LENGTH:  
 PUMP SPEED, SPM:  
 LOGS: DIGL/SP/GR/CAL  
 SDL/DSN/GR

**FRAC JOB**

3/7/97	4418'-4424'	46200# 20/40 sd in 288 bbls Boragel fluid. Perfs broke dn @ 1475 psi. Treated @ ave press of 2000 psi w/ave rate of 18 BPM. ISIP: 2076 psi, 5 min: 1901 psi. Flowback on 12/64 choke for ? hrs & died.
3/4/97	4812'-4834'	123000# 20/40 sd in 614 bbls Boragel fluid. Perfs broke dn @ 2770 psi. Treated @ ave press of 2050 psi w/ave rate of 25 BPM. ISIP: 1905 psi, 5 min: 1797 psi. Flowback on 12/64 choke for ? hrs & died.
3/1/97	5075'-5133'	84000# 20/40 sd in 491 bbls Boragel fluid. Perfs broke dn @ 2790 psi. Treated @ ave press of 1900 psi w/ave rate of 25.5 BPM. ISIP: 2613 psi, 5 min: 2430 psi. Flowback on 12/64 choke for ? hrs & died.
2/27/97	5513'-5520'	41800# 20/40 sd in 325 bbls Boragel fluid. Perfs broke dn @ 3300 psi. Treated @ ave press of 1620 psi w/ave rate of 18.2 BPM. ISIP: 1721 psi, 5 min: 1550 psi. Flowback on 12/64 choke for ? hrs & died.





**Inland Resources Inc.**

**Federal #31-9H**

768 FNL 1873 FEL

NWNE Section 9-T9S-R17E

Duchesne Co, Utah

API #43-013-31107; Lease #U-75078

SN @ 4,328'  
 EOT @ 4,335'  
 PBTB @ 5,943'  
 TD @ 6,000'

# Castle Draw #1-9-9-17

Spud Date: 8/31/98  
 Put on Production: 10/1/98  
 GL: 5215' KB: 5225'

Initial Production: 77 BOPD;  
 75 MCFD; 1 BWPD

Wellbore Diagram

**SURFACE CASING**

CSG SIZE: 8-5/8"  
 GRADE: J-55  
 WEIGHT: 24#  
 LENGTH: 8 jts.(306')  
 DEPTH LANDED: 316' GL  
 HOLE SIZE: 12-1/4"  
 CEMENT DATA: 140 sxs Premium cmt, est 8 bbls to surf.

**PRODUCTION CASING**

CSG SIZE: 5-1/2"  
 GRADE: J-55  
 WEIGHT: 15.5#  
 LENGTH: 132 jts. (5706')  
 HOLE SIZE: 7-7/8"  
 CEMENT DATA: 250 sxs modified mixed & 260 sxs class G  
 CEMENT TOP AT: ?  
 SET AT: 5715'

**TUBING**

SIZE/GRADE/WT.: 2-7/8" / J-55 / 6.5#  
 NO. OF JOINTS: 175 jts (5460')  
 TUBING ANCHOR: 5473'  
 NO. OF JOINTS: 2 jts. (5535')  
 SEATING NIPPLE: 2 7/8" 1.10'  
 SN LANDED AT: 5536'  
 TOTAL STRING LENGTH EOT: 5568'

**SUCKER RODS**

POLISHED ROD: 1-1/2" x 22' SM  
 SUCKER RODS: 1 6' X 3/4" polish rod, 96-3/4" scraped; 97-3/4" plain; 22-3/4" scraped; 6- 1 1/2" wt bars.  
 PUMP SIZE: 2-1/2" x 1-1/2" x 16' RHAC Pump  
 STROKE LENGTH: 70"  
 PUMP SPEED, SPM: 6 SPM  
 LOGS: DIGL/SP/GR/CAL  
 SDL/DSN/GR

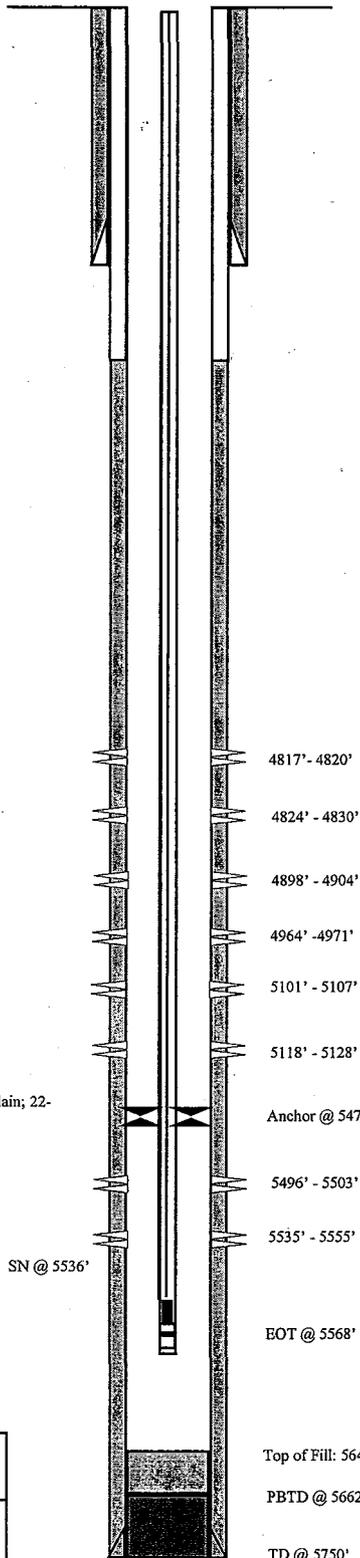
**FRAC JOB**

9/12/98 5496'-5555' Frac CP sands as follows:  
 RU BJ Services & frac CP sds w/112,180# 20/40 sd in 563 bbls Viking I-25 fluid. Perfs broke dn @ 3027 psi. Treated @ ave press of 1000 psi w/ave rate of 27.6 BPM. ISIP: 1700 psi, 5 min: 1597 psi. Flowback on 12/64 choke for 2-1/2 hrs & died.

9/22/98 5101'-5128' Frac A sands as follows:  
 RU BJ Services & frac A sds w/112,060# 20/40 sd in 480 bbls Viking I-25 fluid. Perfs broke dn @ 3450 psi. Treated @ ave press of 1700 psi w/ave rate of 26 BPM, before screening out w/9# sd on perfs w/73 bbls left to flush. Est 91,714# sd in formation, 20,346# sd left in csg. ISIP: 3100 psi, 5 min: 1330 psi. Flowback on 12/64 choke for 2-1/2 hrs & died.

9/28/98 4817'-4971' Frac B/C sands as follows:  
 RU BJ Services & frac B/C sds w/128,480# 20/40 sd in 599 bbls Viking I-25 fluid. Perfs broke back @ 2977 psi @ 16 BPM. Treated @ ave press of 1400 psi w/ave rate of 36 BPM. ISIP: 1700 psi, 5 min: 1518 psi. Flowback on 12/64 choke for 3 hrs & died.

9/17/02 Tubing Leak. Update rod and tubing details.



**PERFORATION RECORD**

Date	Interval	Tool	Holes
9/21/98	5496' - 5503'	4 JSPF	28 holes
9/21/98	5535' - 5555'	4 JSPF	80 holes
9/22/98	5101' - 5107'	4 JSPF	24 holes
9/22/98	5118' - 5128'	4 JSPF	40 holes
9/25/98	4817' - 4820'	4 JSPF	12 holes
9/25/98	4824' - 4830'	4 JSPF	24 holes
9/25/98	4898' - 4904'	4 JSPF	24 holes
9/25/98	4964' - 4971'	4 JSPF	28 holes



**Inland Resources Inc.**

**Castle Draw #1-9-9-17**

660 FEL 660 FNL  
 NENE Section 9-T9S-R17E  
 Duchesne Co, Utah  
 API #43-013-32071; Lease #

# Federal #22-9H

Spud Date: 1-7-85  
 Put on Production: 3-25-85  
 GL: 5265' KB: 5277'

Initial Production: 157 BOPD,  
 0 MCFPD, 0 BWPD

Wellbore Diagram

**SURFACE CASING**

CSG SIZE: 9-5/8"  
 GRADE: K-55  
 WEIGHT: 24#  
 LENGTH: ? jts.  
 DEPTH LANDED: 269'  
 HOLE SIZE: 12-1/4"  
 CEMENT DATA: 165 sx Class G, est 7 bbls cmt to surface

**PRODUCTION CASING**

CSG SIZE: 5-1/2"  
 GRADE: L-80  
 WEIGHT: 17#  
 LENGTH: 135 jts. (5632')  
 DEPTH LANDED: 5630'  
 HOLE SIZE: 7-7/8"  
 CEMENT DATA: 275 sx Lite & 450 sx 50/50 Poz  
 CEMENT TOP AT: 1290' per CBL

**TUBING**

SIZE/GRADE/WT.: 2-7/8" / 6.5# / J-55  
 NO. OF JOINTS: 172  
 PACKER: 4100'  
 SEATING NIPPLE:  
 TOTAL STRING LENGTH: EOT @ 4100'  
 SN LANDED AT:

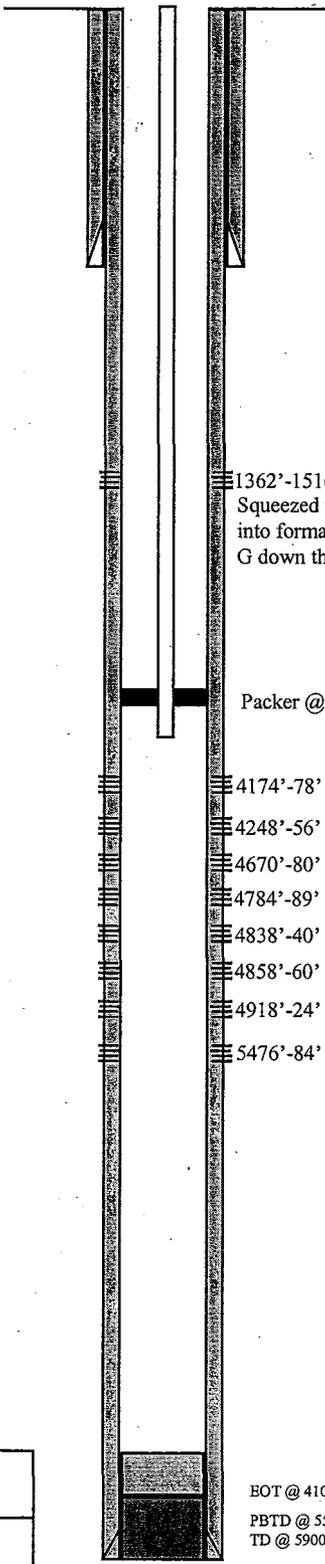
**FRAC JOB**

2-26-85 5476'-5484' Frac sand as follows:  
 904 bbl fluid, 62,000# 20/40 sand. Perfs  
 broke @ 2600 psi. Treated w/avg press  
 of 2010 psi w/avg rate of 20 BPM. ISIP-  
 800 psi, 5 min 530 psi.

2-28-85 4784'-4924' Frac sand as follows:  
 80,830 gal fluid, 167,000# 20/40 sand.  
 Treated w/avg press of 2750 psi w/avg  
 rate of 33 BPM. ISIP-1860 psi, 5 min  
 1700 psi.

3-5-85 4670'-4680' Frac sand as follows:  
 1034 bbls fluid, 105,000# 20/40 sand.  
 Perfs broke @ 3250 psi. Treated w/avg  
 press of 3000 psi. ISIP-2230 psi, 5 min  
 2040 psi.

3-7-85 4174'-4256' Frac sand as follows:  
 1203 bbls fluid, 130,000# 20/40 sand.  
 Treated w/avg press of 2900 psi w/avg  
 rate of 29 BPM.



1362'-1516'  
 Squeezed w/50 sx Class G  
 into formation & 50 sx Class  
 G down the annulus

Packer @ 4100'

4174'-78'  
 4248'-56'  
 4670'-80'  
 4784'-89'  
 4838'-40'  
 4858'-60'  
 4918'-24'  
 5476'-84'

**PERFORATION RECORD**

Date	Interval	Perforation Type	Holes
3-7-85	4174'-4178'	2 JSFP	9 holes
3-7-85	4248'-4256'	2 JSFP	17 holes
3-5-85	4670'-4680'	3 JSFP	31 holes
2-28-85	4784'-4789'	1 JSFP	6 holes
2-28-85	4838'-4840'	1 JSFP	3 holes
2-28-85	4858'-4860'	1 JSFP	3 holes
2-28-85	4918'-4924'	1 JSFP	7 holes
4-26-85	5476'-5484'	3 JSFP	25 holes
4-26-94	1362'-1370'		
4-16-94	1405'-1421'		
4-16-94	1428'-1446'	4 JSFP	288 holes
4-16-94	1454'-1468'		
4-16-94	1502'-1516'		

EOT @ 4100'  
 PBTD @ 5590'  
 TD @ 5900'



**Inland Resources Inc.**

**Federal #22-9H**

1980 FNL 2007 FWL  
 SENW Section 9-T9S-R17E  
 Duchesne Co, Utah  
 API #43-013-31049; Lease #U-50750

# Pleasant Valley Unit #7-9-9-17

Spud Date: 6/12/00  
 Put on Production: 7/17/00  
 GL: 5250' KB: 5260'

Wellbore Diagram

**SURFACE CASING**

CSG SIZE: 8-5/8"  
 GRADE: J-55  
 WEIGHT: 24#  
 LENGTH: 7 JTS (297.9')  
 DEPTH LANDED: 297.90'  
 HOLE SIZE: 12-1/4"  
 CEMENT DATA: 141 sxs Class "G" cmt w/ 2% CaCl2

**PRODUCTION CASING**

CSG SIZE: 5-1/2"  
 GRADE: J-55  
 WEIGHT: 15.5#  
 LENGTH: 133 jts (5636.27')  
 SET AT: 5636' KB  
 HOLE SIZE: 7-7/8"  
 CEMENT DATA: 300 sxs HiBond 65, 65% POZ, 35% CMT, 3% KCL, 10% GEL. 300 sxs PREM 5.-10% CALSEAL  
 CEMENT TOP AT: 380' per CBL

**TUBING**

SIZE/GRADE/WT: 2-7/8" 6.5# J-55  
 NO. OF JOINTS: 174 jts (5436.67')  
 TUBING ANCHOR: 5446.67 KB  
 NO. OF JOINTS: 2 jts (62.86')  
 SEATING NIPPLE: 2-7/8"  
 SN LANDED AT: 5512.33' KB  
 NO. OF JOINTS: 1 jt (31.54')  
 TOTAL STRING LENGTH: BOT @ 5545.42' KB

**SUCKER RODS**

POLISHED ROD: 1-1/2"x22'  
 SUCKER RODS: 4 -1-1/2" wt bars, 10-3/4" guided rods, 118-3/4" plain rods, 87-3/4" scraper rods, 1-2', 1-6' x 3/4" pony rods.  
 PUMP SIZE: 2" x 1-1/2" x 15' RHAC PUMP  
 STROKE LENGTH: 68"  
 PUMP SPEED, SPM: 5 spm  
 LOGS: DIGL, SP, GR, CAL, Comp. Neutron, Comp. Density, CBL

**FRAC JOBS**

7/12/00 5458'-5496' **Frac CP sands:**  
 90,021# 20/40 sand in 546 bbls Viking 1-25 fluid. Treated @ avg. of 1700 psi W/ avg. rate of 30 BPM. ISIP 1930 psi. Calc. flush: 5458 gal. Actual flush: 5376 gal.

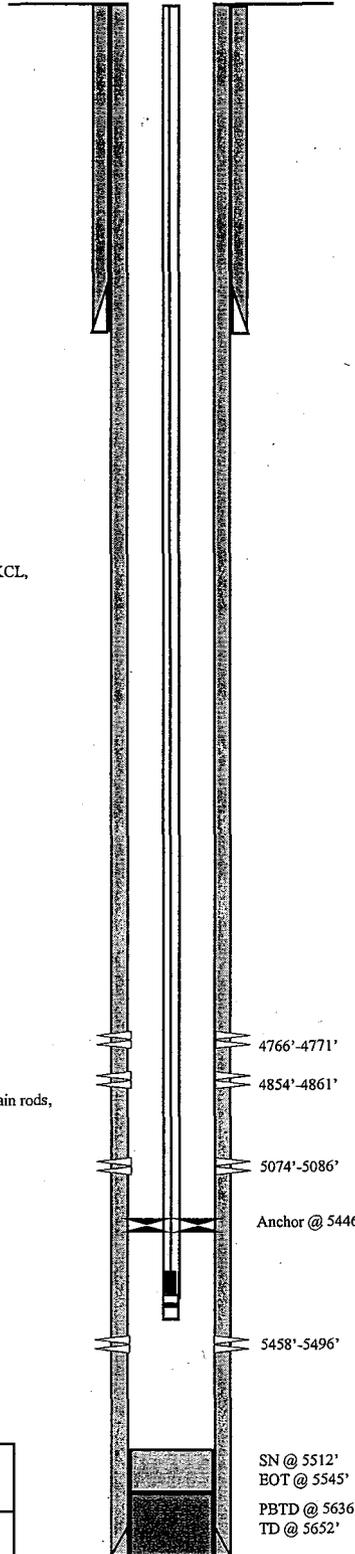
7/14/00 5074'-5086' **Frac A sands:**  
 78,000# 20/40 sand in 476 bbls Viking 1-25 fluid. Treated at avg 2200 psi W/ avg rate of 28 BPM. ISIP 2320 psi. Calc. flush: 5074 gal. Actual flush: 4998 gal.

7/14/00 4854'-4771' **Frac C/B sands:**  
 90,000 # 20/40 sand in 541 bbls Viking 1-25 fluid. Treated W/ avg press 1900 psi W/ avg rate of 29 BPM. ISIP 2110 psi. Calc. flush: 4854 gal. Actual flush: 4704 gal.

10/31/01 **Parted rods. Updated rod and tubing details.**

**PERFORATION RECORD**

7/12/00 5458-5496' 2 JSPF 76 holes  
 7/13/00 5074'-5086' 4 JSPF 48 holes  
 7/14/00 4766'-4771' 4 JSPF 20 holes  
 7/14/00 4854'-4861' 4 JSPF 28 holes





**Inland Resources Inc.**

**Pleasant Valley #7-9-9-17**

1980FNL & 1980 FWL

SWNE Section 9-T9S-R17E

Duchesne Co, Utah

API #43-013-32076; Lease #U-50750

# Federal #33-9H

Spud Date: 10-14-86  
 Put on Production: 12-16-86  
 GL: 5223' KB: 5231'

Initial Production: 120 BOPD,  
 75 MCFPD, 20 BWPD

## SURFACE CASING

CSG SIZE: 9-5/8"  
 GRADE: K-55  
 WEIGHT: 24#  
 LENGTH: 7 jts. (291.45')  
 DEPTH LANDED: 292'  
 HOLE SIZE: 12-1/4"  
 CEMENT DATA: 200 sx Class G, est ? bbls cmt to surface

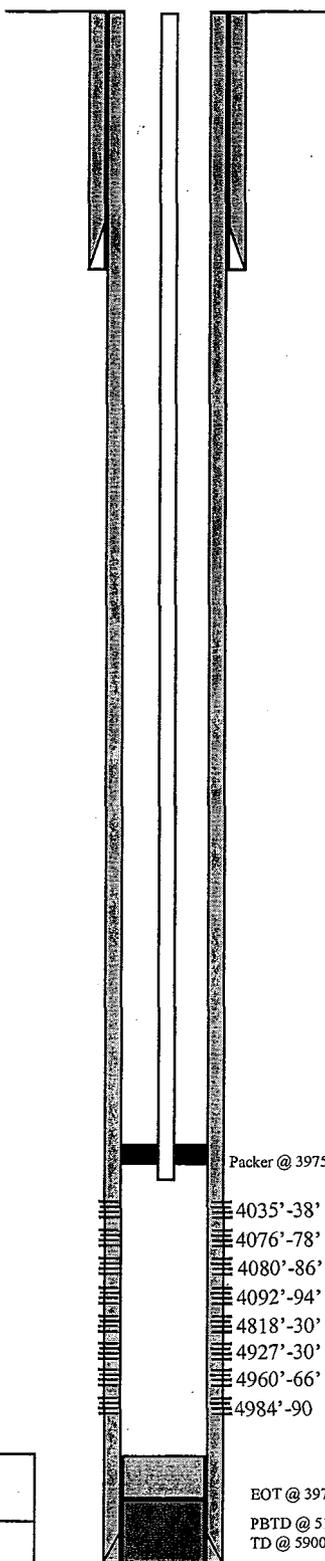
## PRODUCTION CASING

CSG SIZE: 5-1/2"  
 GRADE: J-55  
 WEIGHT: 15.5#  
 LENGTH: ?  
 DEPTH LANDED: 5149'  
 HOLE SIZE: 7-7/8"  
 CEMENT DATA: ?  
 CEMENT TOP AT: 1364' per CBL

## TUBING

SIZE/GRADE/WT.: 2-3/8" / 4.7# / J-55  
 NO. OF JOINTS: 131  
 PACKER: 3975'  
 SEATING NIPPLE:  
 TOTAL STRING LENGTH: EOT @ 3975'  
 SN LANDED AT:

Injection Well  
 Wellbore Diagram



## FRAC JOB

12-2-86	4035'-4094'	No information available,
2-16-95	4927'-4990'	Frac sand as follows: 20,000 gal Borate, 36,000# 16/30 sand. Treated w/avg press of 3900 psi w/avg rate of 19 BPM. ISIP-1900 psi.

## PERFORATION RECORD

12-2-95	4035'-4038'	4 JSPF	12 holes
12-2-95	4076'-4078'	4 JSPF	8 holes
12-2-95	4080'-4086'	4 JSPF	24 holes
12-2-95	4092'-4094'	4 JSPF	8 holes
2-15-95	4818'-4830'	3 JSPF	30 holes
2-15-95	4927'-4930'	2 JSPF	6 holes
2-15-95	4960'-4966'	2 JSPF	12 holes
2-15-95	4984'-4990'	2 JSPF	6 holes

Packer @ 3975'

4035'-38'  
 4076'-78'  
 4080'-86'  
 4092'-94'  
 4818'-30'  
 4927'-30'  
 4960'-66'  
 4984'-90'

EOT @ 3975'  
 PBTD @ 5109'  
 TD @ 5900'



**Inland Resources Inc.**

**Federal #33-9H**

1856 FEL 2125 FSL

NWSE Section 9-T9S-R17E

Duchesne Co, Utah

API #43-013-31108; Lease #U-61052

# Federal #23-9H-9-17

Spud Date: 4/30/88  
 Put on Production: 6/22/88  
 GL: 5250' KB: 5262'

Initial Production: 77 BOPD,  
 TSTM MCFPD, 35 BWPD

Wellbore Diagram

**SURFACE CASING**

CSG SIZE: 9-5/8"  
 GRADE: L-80  
 WEIGHT: 43.5#  
 DEPTH LANDED: 298'  
 HOLE SIZE: 12-1/4"  
 CEMENT DATA: 165 sxs Class G

**PRODUCTION CASING**

CSG SIZE: 5-1/2"  
 GRADE: K-55/L-80  
 WEIGHT: 17#  
 LENGTH: 112 jts/19 jts  
 DEPTH LANDED: 5599'  
 HOLE SIZE: 7-7/8"  
 CEMENT DATA: 205 sxs Class "G", 380 sx Class "G"  
 CEMENT TOP AT: 1505'

**TUBING**

SIZE/GRADE/WT.: 2-7/8" / J-55 / 6.5#  
 NO. OF JOINTS: 181 jts. (5314.02')  
 TUBING ANCHOR: 5329.02'  
 NO. OF JOINTS: 1 jts. (29.50')  
 SEATING NIPPLE: 2 7/8" (1.10')  
 SN LANDED AT: 5360.92'  
 NO. OF JOINTS: 1 jts. (31.80')  
 TOTAL STRING LENGTH: BOT @ 5394.22'

**SUCKER RODS**

POLISHED ROD: 1 1/2" x 22'  
 SUCKER RODS: 9-1 1/2" wt. rod, 21 x 3/4" scraper rods, 93 x 3/4" plain rods, 91 x 7/8" scraper rods, 1-2" x 7/8" pony rod.  
 STROKE LENGTH: 86"  
 PUMP LENGTH: 2 1/2" x 1 1/2" x 13' RHAC  
 PUMP SPEED, SPM: 7  
 LOGS: DIL/SFL/FDC/CNL/CBL

**FRAC JOB**

5/31/88 5427'-5440' Frac F2 sand as follows:  
 22,260 gals total fluid. 54,000# total sand. Treated w/avg press of 1,449 psi, w/avg rate of 33 BPM. ISIP: 1213.

6/2/88 5226'-5264' Frac E2 sand as follows:  
 108,000# total sand. 41,875 gals total fluid. Treated w/avg press of 2,229 psi w/avg rate of 31 BPM. ISIP: 2133.

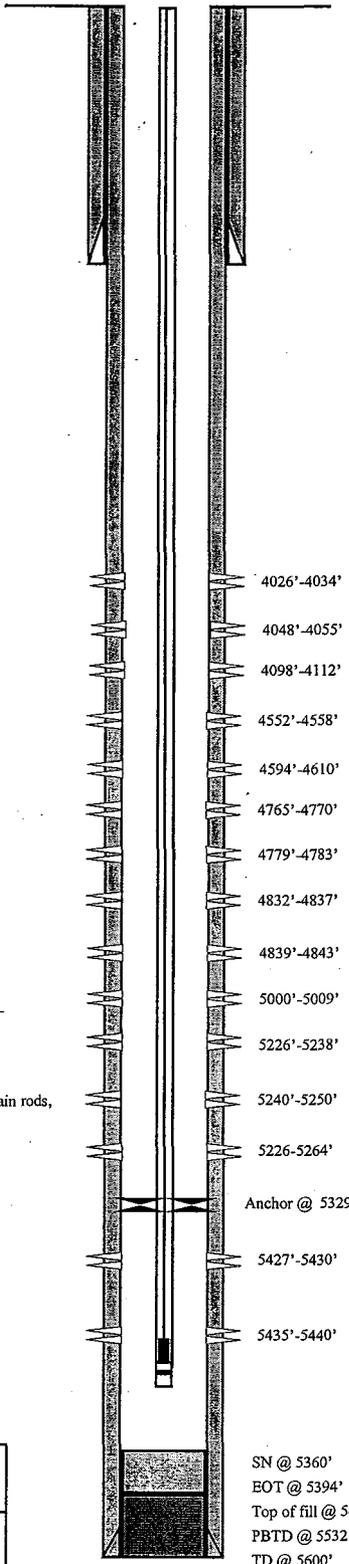
6/4/88 5000'-5009' Frac E(E) sand as follows:  
 36,000# total sand. 19,530 gals total fluid. Treated w/avg press of 1,735 psi, w/avg rate of 23 BPM. ISIP: 1580.

6/6/88 4765'-4843' Frac D sand as follows:  
 108,000# total sand. 39,200 gal total fluid. Treated w/avg press of 2,183 psi w/avg rate of 40 BPM. ISIP: 1985.

6/8/88 4552'-4610' Frac DC2 & DC4 sand as follows:  
 90,000# total sand. 37,170 gals total fluid. Treated w/avg press of 1,660 psi w/avg rate of 42 BPM. ISIP: 1680.

2/07/95 4026'-4112' Frac zone as follows:  
 36,000# 16/30 sand in 571 bbl XLC Borate Gel. Treated w/avg press of 2200 psi @ 35 BPM. ISIP: 1980. Calc. flush: 4026 gal. Actual flush: 3839 gal.

1/01/99 Pump change. Update rod and tubing details.



**PERFORATION RECORD**

Date	Depth Range	Tool	Holes
5/27/88	5435'-5440'	4 JSPF	20 holes
5/27/88	5427'-5430'	4 JSPF	12 holes
6/02/88	5253'-5264'	4 JSPF	36 holes
6/02/88	5240'-5250'	4 JSPF	40 holes
6/02/88	5226'-5238'	4 JSPF	48 holes
6/04/88	5000'-5009'	4 JSPF	36 holes
6/05/88	4839'-4843'	4 JSPF	20 holes
6/05/88	4832'-4837'	4 JSPF	20 holes
6/05/88	4779'-4783'	4 JSPF	20 holes
6/05/88	4765'-4770'	4 JSPF	20 holes
6/07/88	4594'-4610'	4 JSPF	24 holes
6/07/88	4552'-4558'	4 JSPF	24 holes
2/05/95	4098'-4112'	1 SPF	15 holes
2/05/95	4048'-4055'	1 SPF	08 holes
2/05/95	4026'-4034'	1 SPF	07 holes

SN @ 5360'  
 BOT @ 5394'  
 Top of fill @ 5441'  
 PBTD @ 5532'  
 TD @ 5600'

**Inland Resources Inc.**  
 FEDERAL 23-9-H-9-17  
 2102 FSL & 2089 FWL  
 NE/SW Section 9, T09S R17E  
 DUCHESNE CO, UTAH  
 API #43-013-31206; LEASE #U-50750

# Balcron Monument Federal #12-10Y-9-17

Spud Date: 12-7-95  
 Put on Production: 1-3-96  
 GL: 5158' KB: 5168'

Initial Production: 25 BOPD,  
 0 MCFPD, 0 BWPD

Wellbore Diagram

**SURFACE CASING**

CSG SIZE: 8-5/8"  
 GRADE: J-55  
 WEIGHT: 24#  
 LENGTH: 5 jts. (249.16')  
 DEPTH LANDED: 259.16'  
 HOLE SIZE: 12-1/4"  
 CEMENT DATA: 160 sx Class "G", est 4 Bbls cmt to surface

**FRAC JOB**

12-20-95 4714'-5004' Frac sand as follows:  
 12,978 gals 2% KCL gelled water and  
 70,040# 16/30 sand. Treated w/avg press  
 of 3300 psi w/avg rate of 34 BPM. ISIP-  
 3800 psi, 5 min 2370 psi. Screened out.

**PRODUCTION CASING**

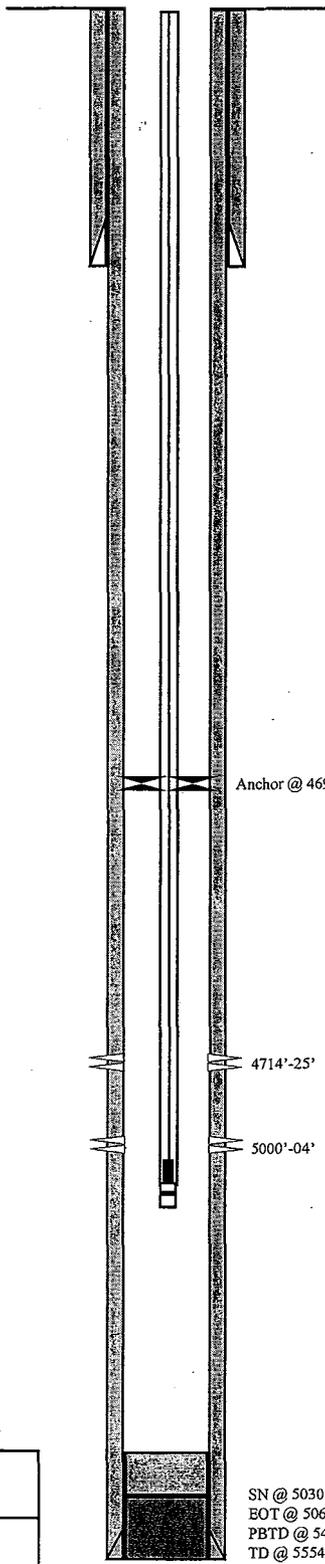
CSG SIZE: 5-1/2"  
 GRADE: J-55  
 WEIGHT: 15.5#  
 LENGTH: 127 jts. (5538.55')  
 DEPTH LANDED: 5548.55'  
 HOLE SIZE: 7-7/8"  
 CEMENT DATA: 400 sx Super G & 250 sx 50/50 Poz  
 CEMENT TOP AT: 1340' per CBL

**TUBING**

SIZE/GRADE/WT.: 2-3/8" / 6.5# / J-55  
 NO. OF JOINTS: 150 jts  
 TUBING ANCHOR: 4690'  
 SEATING NIPPLE: 2-7/8" (1.10')  
 TOTAL STRING LENGTH: EOT @ 5063'  
 SN LANDED AT: 5030'

**SUCKER RODS**

POLISHED ROD: 1-1/4" x 22'  
 OTHER RODS: 1 1" x 2' pony, 1 1-1/2" x 25' K-bar, 1 1" x 2'  
 pony, 198-3/4" plain, 3 3/4" x 6' pony, 1 3/4" x 2' pony.  
 PUMP SIZE: 2-1/2" x 1-1/2" x 16' RHAC  
 STROKEL LENGTH: 85"  
 PUMP SPEED, SPM: 4.75 SPM  
 LOGS:



**PERFORATION RECORD**

Date	Depth Range	Tool	Holes
12-20-95	4714'-4725'	1 JSPF	11 holes
12-20-95	5000'-5004'	1 JSPF	04 holes



**Inland Resources Inc.**  
 Balcron Monument Federal #12-10Y-9-17  
 1994 FNL & 618 FWL  
 SWNW Section 10-T9S-R17E  
 Duchesne Co, Utah  
 API #43-013-31536; Lease #UTU-65210

SN @ 5030'  
 EOT @ 5063'  
 PBTD @ 5498'  
 TD @ 5554'

# Balcron Federal #22-10Y

Spud Date: 7-25-93  
 Put on Production: 8-30-93  
 GL: 5121' KB: 5131'

Initial Production: 87 BOPD,  
 25 MCFPD, 0 BWPD

Wellbore Diagram

**SURFACE CASING**

CSG SIZE: 8-5/8"  
 GRADE: J-55  
 WEIGHT: 24#  
 LENGTH: 5 js.  
 DEPTH LANDED: 254.85  
 HOLE SIZE: 12-1/4"  
 CEMENT DATA: 150 sx Premium, est 7-8 bbls cmt to surface

**PRODUCTION CASING**

CSG SIZE: 5-1/2"  
 GRADE: J-55  
 WEIGHT: 15.5#  
 LENGTH: 131 js. (5824')  
 DEPTH LANDED: 5820'  
 HOLE SIZE: 7-7/8"  
 CEMENT DATA: 154 sx Thrifty-Lite & 258 sx 50/50 Poz  
 CEMENT TOP AT: 2450' per CBL

**TUBING**

SIZE/GRADE/WT.: 2-7/8" / 6.5# / J-55  
 NO. OF JOINTS: 174 js. (5437.77')  
 TUBING ANCHOR: 5450.55'  
 NO. OF JOINTS: 1 jt. (31.54')  
 SEATING NIPPLE: 2-7/8" (1.10')  
 SN LANDED AT: 5483.10'  
 NO. OF JOINTS: 1 jt. (31.30')  
 TOTAL STRING LENGTH: BOT @ 5515.84'

**SUCKER RODS**

POLISHED ROD: 1-1/4" x 16'  
 SUCKER RODS: 4-1 1/2" weight bars; 10-3/4" scraper rods; 115-3/4" slick rods, 90-3/4" scraper rods, 1-3/4" slick rod, 1-2' x 3/4" pony rod.  
 PUMP SIZE: 2-1/2" x 1-1/2" x 15" RHAC  
 STROKE LENGTH: 74"  
 PUMP SPEED, SPM: 5 SPM  
 LOGS:

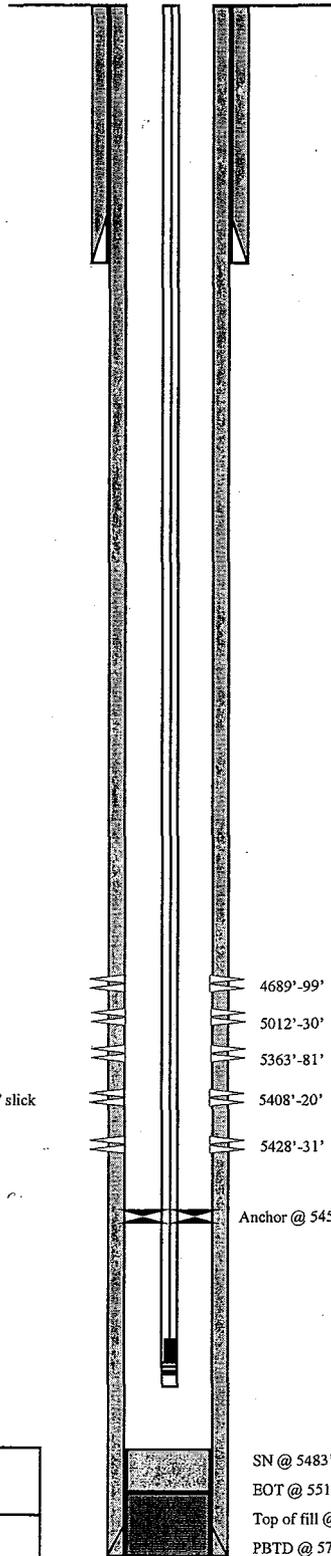
**FRAC JOB**

8-13-93 5363'-5431' Frac sand as follows:  
 14,112 gals Viking, 26,160# 20/40, and 23,140# 16/30 sand. Perfs broke @ 2800 psi. Treated w/avg press of 1400 psi w/avg rate of 26.4 BPM. ISIP-1450 psi, 5 min 1290 psi.

8-17-93 5012'-5030' Frac sand as follows:  
 13,230 gals Viking, 24,440# 20/40, and 21,100# 16/30 sand. Perfs broke @ 2400 psi. Treated w/avg press of 2350 psi w/avg rate of 26 BPM. ISIP-2350 psi, 5 min 2180 psi.

8-17-93 4689'-4699' Frac sand as follows:  
 8232 gals Viking and 26,000# 16/30 sand. Perfs broke @ 2100 psi. Treated w/avg press of 2200 psi w/avg rate of 20.6 BPM. ISIP-1990 psi, 5 min 1730 psi.

12/21/01 Tubing leak. Update rod and tubing details.



**PERFORATION RECORD**

Date	Depth Range	Holes
8-10-93	5428'-5431'	02 holes
8-10-93	5408'-5420'	06 holes
8-10-93	5363'-5381'	07 holes
8-15-93	5012'-5030'	2 JSPF 36 holes
8-17-93	4689'-4699'	2 JSPF 20 holes



**Inland Resources Inc.**

**Balcron Federal #22-10Y-9-17**

1980 FNL & 1980 FWL  
 SENW Section 10-T9S-R17E  
 Duchesne Co, Utah  
 API #43-013-31395; Lease #U-65210

Attachment F

Analytical Laboratory Report for:  
Inland Production



BJ Unichem  
Chemical Services

UNICHEM Representative: Rick Crosby

## Production Water Analysis

page 1 of 3

Listed below please find water analysis report from: Castle Draw, 8-9-9-17

Lab Test No: 2002403405      Sample Date: 11/01/2002  
 Specific Gravity: 1.016  
 TDS: 22694  
 pH: 9.20

Cations:	mg/L	as:
Calcium	10	(Ca <sup>++</sup> )
Magnesium	42	(Mg <sup>++</sup> )
Sodium	8487	(Na <sup>+</sup> )
Iron	20.00	(Fe <sup>++</sup> )
Manganese	0.10	(Mn <sup>++</sup> )
Anions:	mg/L	as:
Bicarbonate	2135	(HCO <sub>3</sub> <sup>-</sup> )
Sulfate	0	(SO <sub>4</sub> <sup>-</sup> )
Chloride	12000	(Cl <sup>-</sup> )
Gases:		
Carbon Dioxide		(CO <sub>2</sub> )
Hydrogen Sulfide	0	(H <sub>2</sub> S)

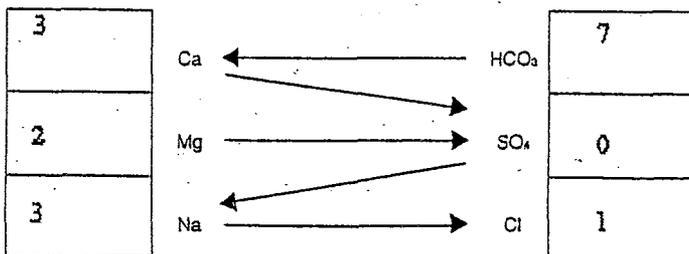
## WATER ANALYSIS REPORT

Company Inland Address \_\_\_\_\_ Date 3/15/01  
 Source JWL Pump Station #2 Date Sampled 3/14/01 Analysis No. \_\_\_\_\_  
Pump Suction

Analysis	mg/l(ppm)	*Meg/l
1. PH	8.3	
2. H <sub>2</sub> S (Qualitative)	0.0	
3. Specific Gravity	1.001	
4. Dissolved Solids	614	
5. Alkalinity (CaCO <sub>3</sub> )	CO <sub>3</sub> 0	÷ 30 0 CO <sub>3</sub>
6. Bicarbonate (HCO <sub>3</sub> )	HCO <sub>3</sub> 427	÷ 61 7 HCO <sub>3</sub>
7. Hydroxyl (OH)	OH 0	÷ 17 0 OH
8. Chlorides (Cl)	Cl 35	÷ 35.5 1 Cl
9. Sulfates (SO <sub>4</sub> )	SO <sub>4</sub> 0	÷ 48 0 SO <sub>4</sub>
10. Calcium (Ca)	Ca 56	÷ 20 3 Ca
11. Magnesium (Mg)	Mg 27	÷ 12.2 2 Mg
12. Total Hardness (CaCO <sub>3</sub> )	250	
13. Total Iron (Fe)	.6	
14. Manganese	0.0	
15. Phosphate Residuals		

\*Milli equivalents per liter

### PROBABLE MINERAL COMPOSITION



Compound	Equiv. Wt.	X	Meg/l	=	Mg/l
Ca(HCO <sub>3</sub> ) <sub>2</sub>	81.04	3			243
CaSO <sub>4</sub>	68.07				
CaCl <sub>2</sub>	55.50				
Mg(HCO <sub>3</sub> ) <sub>2</sub>	73.17	2			146
MgSO <sub>4</sub>	60.19				
MgCl <sub>2</sub>	47.62				
NaHCO <sub>3</sub>	84.00	2			168
Na <sub>2</sub> SO <sub>4</sub>	71.03				
NaCl	58.46	1			59

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

Complete

REMARKS \_\_\_\_\_



**Attachment "G"**

**Castle Draw 8-9-9-17  
Proposed Maximum Injection Pressure**

Frac Interval (feet)		Avg. Depth (feet)	ISIP (psi)	Calculated Frac Gradient (psi/ft)	Pmax
Top	Bottom				
5408	5419	5414	1500	0.71	1487 ←
5059	5082	5071	2200	0.87	2184
4741	4899	4820	2300	0.91	2252
4113	4126	4120	2050	0.93	2038
				<b>Minimum</b>	<u>1487</u>

Calculation of Maximum Surface Injection Pressure  

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

$$\text{Frac Gradient} = (\text{ISIP} + (0.433 \times \text{Avg. Depth})) / \text{Avg. Depth}$$

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



**DAILY COMPLETION REPORT**

**WELL NAME:** CD 8-9-9-17 **Report Date:** 8/25/98 **Completion Day:** 3  
**Present Operation:** Perf A sds. **Rig:** Flint # 4352

**WELL STATUS**

**Surf Csg:** 8-5/8 @ 326' KB **Liner:**            **@:**            **Prod Csg:** 5-1/2 @ 5612 **Csg PBTD:** 5565  
**Tbg:** **Size:** 2-7/8 **Wt:** 6.5# **Grd:** M-50 **Pkr/EOT @:**            **BP/Sand PBTD:**           

**PERFORATION RECORD**

<u>Zone</u>	<u>Perfs</u>	<u>SPF/#shots</u>	<u>Zone</u>	<u>Perfs</u>	<u>SPF/#shots</u>
<u>CP</u>	<u>5408-19'</u>	<u>4/44</u>	<u>          </u>	<u>          </u>	<u>          </u>
<u>          </u>					
<u>          </u>					
<u>          </u>					

**CHRONOLOGICAL OPERATIONS**

**Date Work Performed:** 08/24/98 **SITP:** 50 **SICP:** 100

Bleed gas off well. IFL @ 3600'. Made 5 swab runs, rec 26 BTF (est 20 BO, 6 BW). FFL @ 2400' w/strong gas. Pmp 20 BW dn tbg. TOH w/tbg. NU isolation tool. RU BJ Services & frac CP sds w/98,100# 20/40 sd in 509 bbls Viking I-25 fluid. Perfs broke dn @ 1933 psi. Treated @ ave press of 1540 psi w/ave rate of 29.3 BPM. ISIP: 1500 psi, 5 min: 1344 psi. Flowback on 12/64 choke for 2-1/2 hrs & died. Rec 125 BTF (est 25% of load). SIFN w/est 398 BWTR.

**FLUID RECOVERY (BBLs)**

**Starting fluid load to be recovered:** 529 **Starting oil rec to date:** 0  
**Fluid lost/recovered today:** 131 **Oil lost/recovered today:** 20  
**Ending fluid to be recovered:** 398 **Cum oil recovered:** 20  
**IFL:** 3600 **FFL:** 2400 **FTP:**            **Choke:** 12/64 **Final Fluid Rate:**            **Final oil cut:** 80%

**STIMULATION DETAIL**

**COSTS**

**Base Fluid used:** Viking I-25 **Job Type:** Sand Frac  
**Company:** BJ Services  
**Procedure or Equipment detail:**  
3000 gal of pad  
1000 gal w/1-6 ppg of 20/40 sd  
7000 gal w/6-8 ppg of 20/40 sd  
5052 gal w/8-10 ppg of 20/40 sd  
Flush w/5325 gal of 10# Linear gel.

Flint rig 871  
BOP 60  
Tanks 180  
Wtr 700  
HO Trk 630  
Frac 19,883  
Flowback - super 100  
IPC Supervision 200

**Max TP:** 1933 **Max Rate:** 30 **Total fluid pmpd:** 509 bbls  
**Avg TP:** 1540 **Avg Rate:** 29.8 **Total Prop pmpd:** 98,100#  
**ISIP:** 1500 **5 min:** 1344 **10 min:**            **15 min:**           

**Completion Supervisor:** Gary Dietz

**DAILY COST:** \$22,624  
**TOTAL WELL COST:** \$194,617



### DAILY COMPLETION REPORT

WELL NAME: CD 8-9-9-17 Report Date: 8/27/98 Completion Day: 5  
 Present Operation: Perf & break dn C/B sds. Rig: Flint # 4352

#### WELL STATUS

Surf Csg: 8-5/8 @ 326' KB Liner:          @          Prod Csg: 5-1/2 @ 5612 Csg PBD: 5565  
 Tbg: Size: 2-7/8 Wt: 6.5# Grd: M-50 Pkr/EOT @:          **BP**/Sand PBD: 5167

#### PERFORATION RECORD

Zone	Perfs	SPF/#shots	Zone	Perfs	SPF/#shots
A	5059-64'	4/20			
A	5077-82'	4/20			
CP	5408-19'	4/44			

#### CHRONOLOGICAL OPERATIONS

Date Work Performed: 08/26/98 SITP: 0 SICP: 0

IFL @ 5000'. Made 1 dry swab run. TOH w/tbg. NU isolation tool. RU BJ Services & frac A sds w/95,716# 20/40 sd in 506 bbls Viking I-25 fluid. Perfs broke dn @ 3042 psi. Treated @ ave press of 1850 psi w/ave rate of 27.7 BPM. ISIP: 2200 psi, 5 min: 2100 psi. Flowback on 12/64 choke for 4 hrs & died. Rec 160 BTF (est 32% of load). SIFN w/est 635 BWTR.

#### FLUID RECOVERY (BBLs)

Starting fluid load to be recovered: 289 Starting oil rec to date: 20  
 Fluid lost/recovered today: 346 Oil lost/recovered today: 0  
 Ending fluid to be recovered: 635 Cum oil recovered: 20  
 IFL: 5000 FFL: 5000 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:

- 3000 gal of pad.
- 1000 gal w/1-6 ppg of 20/40 sd
- 7000 gal w/6-8 ppg of 20/40 sd
- 5296 gal w/8-10 ppg of 20/40 sd
- Flush w/4956 gal of 10# Linear gel.

#### COSTS

Flint rig	807
BOP	60
Tanks	90
Wtr	700
HO Trk	630
Frac	19,816
Flowback - super	160
Wtr disp	300
IPC Supervision	200

Max TP: 3042 Max Rate: 27.8 Total fluid pmpd: 506 bbls  
 Avg TP: 1850 Avg Rate: 27.7 Total Prop pmpd: 95,716#  
 ISIP: 2200 5 min: 2100 10 min:          15 min:           
 Completion Supervisor: Gary Dietz

DAILY COST: \$22,763  
 TOTAL WELL COST: \$220,812



### DAILY COMPLETION REPORT

WELL NAME: CD 8-9-9-17 Report Date: 8/29/98 Completion Day: 7  
 Present Operation: Perf GB sds. Rig: Flint # 4352

#### WELL STATUS

Surf Csg: 8-5/8 @ 326' KB Liner: \_\_\_\_\_ @ \_\_\_\_\_ Prod Csg: 5-1/2 @ 5612 Csg PBDT: 5565  
 Tbg: \_\_\_\_\_ Size: 2-7/8 Wt: 6.5# Grd: M-50 Pkr/EOT @: \_\_\_\_\_ BP Sand PBDT: 4995

#### PERFORATION RECORD

Zone	Perfs	SPF/#shots	Zone	Perfs	SPF/#shots
C/B	<u>4741-52'</u>	<u>4/44</u>	CP	<u>5408-19'</u>	<u>4/44</u>
C/B	<u>4826-32'</u>	<u>4/24</u>			
C/B	<u>4892-99'</u>	<u>4/28</u>			
A	<u>5059-64'</u>	<u>4/20</u>			
A	<u>5077-82'</u>	<u>4/20</u>			

#### CHRONOLOGICAL OPERATIONS

Date Work Performed: 8/28/98 SITP: 25 SICP: 150

Bleed gas off well. IFL @ 1500'. Made 4 swab runs, rec 24 BTF (est 17 BW, 7 BO). FFL stable @ 3000'. Rec 30% oil w/strong gas. Pmp 10 BW dn tbg. TOH w/tbg. NU isolation tool. RU BJ Services & frac C/B sds w/109,231# 20/40 sd in 552 bbls Viking I-25 fluid. Perfs broke back @ 2200 psi @ 15 BPM. Treated @ ave press of 1800 psi w/ave rate of 32.6 BPM. ISIP: 2300 psi, 5 min: 1593 psi. Flowback on 12/64 choke for 3 hrs & deid. Rec 130 BTF (est 24% of load). SIFN w/est 943 BWTR.

#### FLUID RECOVERY (BBLs)

Starting fluid load to be recovered: 528 Starting oil rec to date: 20  
 Fluid lost/recovered today: 415 Oil lost/recovered today: 7  
 Ending fluid to be recovered: 943 Cum oil recovered: 27  
 IFL: 1500 FFL: 3000 FTP: \_\_\_\_\_ Choke: 12/64 Final Fluid Rate: \_\_\_\_\_ Final oil cut: 30%

#### STIMULATION DETAIL

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

#### Procedure or Equipment detail:

- 3000 gal of pad
- 1000 gal w/1-6 ppg of 20/40 sd
- 9000 gal w/6-8 ppg of 20/40 sd
- 5522 gal w/8-10 ppg of 20/40 sd
- Flush w/4662 gal of 10# linear gel

#### COSTS

Flint rig	<u>870</u>
BOP	<u>60</u>
Tanks	<u>90</u>
Wtr	<u>700</u>
HO Trk	<u>680</u>
Frac	<u>21,201</u>
Flowback - super	<u>120</u>
IPC Supervision	<u>200</u>

Max TP: 2620 Max Rate: 33 Total fluid pmpd: 552 bbls  
 Avg TP: 1800 Avg Rate: 32.6 Total Prop pmpd: 109,231#  
 ISIP: 2300 5 min: 1593 10 min: \_\_\_\_\_ 15 min: \_\_\_\_\_

Completion Supervisor: Gary Dietz

DAILY COST: \$23,921  
 TOTAL WELL COST: \$249,265



**DAILY COMPLETION REPORT**

**WELL NAME:** CD 8-9-9-17 **Report Date:** 9/1/98 **Completion Day:** 9  
**Present Operation:** Pull plug. CO PBTD. Swab well. **Rig:** Flint # 4352

**WELL STATUS**

**Surf Csg:** 8-5/8 @ 326' KB **Liner:**           @           **Prod Csg:** 5-1/2 @ 5612 **Csg PBTD:** 5565  
**Tbg:** Size: 2-7/8 **Wt:** 6.5# **Grd:** M-50 **Pkr/EOT @:**            **BP/Sand PBTD:** 4190

**PERFORATION RECORD**

Zone	Perfs	SPF/#shots	Zone	Perfs	SPF/#shots
GB	4113-26'	4/52	A	5077-82'	4/20
C/B	4741-52'	4/44	CP	5408-19'	4/44
C/B	4826-32'	4/24			
C/B	4892-99'	4/28			
A	5059-64'	4/20			

**CHRONOLOGICAL OPERATIONS**

**Date Work Performed:** 8/31/98 **SITP:** 0 **SICP:** 0

IFL @ 3800'. Made 1 swab run, rec 1 BTF w/tr oil. FFL @ 4000'. TOH w/tbg. NU isolation tool. RU BJ Services & frac GB sds w/97,592# 20/40 sd in 480 bbls Viking I-25 fluid. Perfs broke dn @ 3500 psi. Treated @ ave press of 1860 psi w/ave rate of 24 BPM. ISIP: 2050 psi, 5 min: 1839 psi. Flowback on 12/64 choke for 2-1/2 hrs & died. Rec 106 BTF (est 22% of load). SIFN w/est 1233 BWTR.

**FLUID RECOVERY (BBLs)**

**Starting fluid load to be recovered:** 860 **Starting oil rec to date:** 27  
**Fluid lost/recovered today:** 373 **Oil lost/recovered today:** 0  
**Ending fluid to be recovered:** 1233 **Cum oil recovered:** 27  
**IFL:** 3800 **FFL:** 4000 **FTP:**            **Choke:** 12/64 **Final Fluid Rate:**            **Final oil cut:** Tr.

**STIMULATION DETAIL**

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

**Procedure or Equipment detail:**

- 3000 gal of pad
- 1000 gal w/1-6 ppg of 20/40 sd
- 7000 gal w/6-8 ppg of 20/40 sd
- 5107 gal w/8-10 ppg of 20/40 sd
- Flush w/4032 gal of 10# Linear gel

**COSTS**

Flint rig	702
BOP	60
Tanks	90
Wtr	600
HO Trk	585
Frac	20,307
Flowback - super	100
IPC Supervision	200

**Max TP:** 3500 **Max Rate:** 24.1 **Total fluid pmpd:** 480 bbls  
**Avg TP:** 1860 **Avg Rate:** 24 **Total Prop pmpd:** 97,592#  
**ISIP:** 2050 **5 min:** 1839 **10 min:**            **15 min:**           

**Completion Supervisor:** Gary Dietz

**DAILY COST:** \$22,644  
**TOTAL WELL COST:** \$275,503

## ATTACHMENT H

### WORK PROCEDURE FOR PLUGGING AND ABANDONMENT

1. Set CIBP @ 4015'.
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. Plug #3 Circulate 44 sx Class G cement down 5-1/2" casing to 376'.

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

# Castle Draw #8-9-9-17

Spud Date: 7/30/98  
Put on Production: 9/3/98  
GL: 5192' KB: 5202'

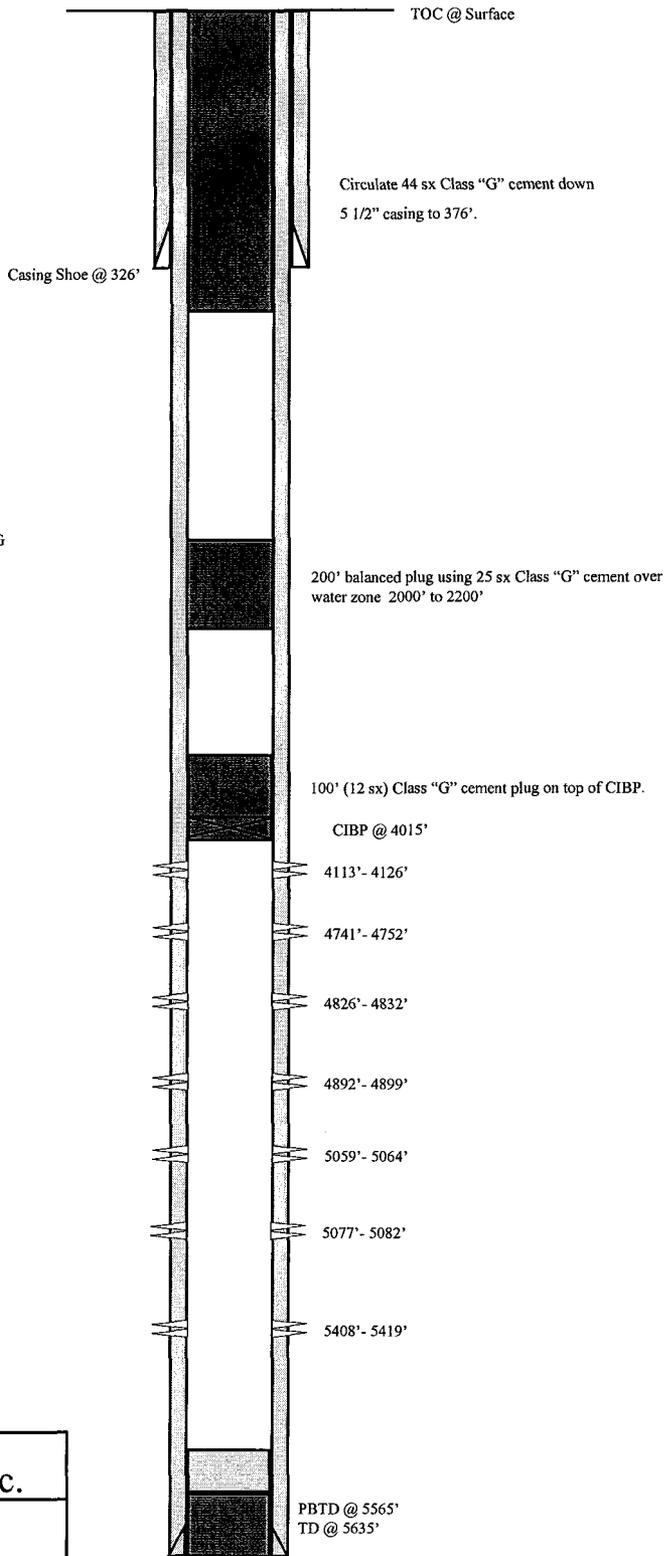
### SURFACE CASING

CSG SIZE: 8-5/8"  
GRADE: J-55  
WEIGHT: 24#  
LENGTH: 8 js. (316')  
DEPTH LANDED: 326' GL  
HOLE SIZE: 12-1/4"  
CEMENT DATA: 160 sxs Premium cmt, est 8 bbls to surf.

### PRODUCTION CASING

CSG SIZE: 5-1/2"  
GRADE: J-55  
WEIGHT: 15.5#  
LENGTH: 131 js. (5603')  
HOLE SIZE: 7-7/8"  
CEMENT DATA: 250 sxs modified mixed & 260 sxs class G  
CEMENT TOP AT: Surface  
SET AT: 5612'

### Proposed P & A Diagram



	<b>Inland Resources Inc.</b>
	<b>Castle Draw #8-9-9-17</b> 1980 FNL & 660 FEL SENE Section 9-T9S-R17E Duchesne Co, Utah API #43-013-32078; Lease #U-74806

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 :  
CASTLE DRAW 8-9-9-17 WELL LOCATED :  
IN SEC 9, T9S, R17E; ASHLEY 1-11-9-15 : NOTICE OF AGENCY ACTION  
WELL LOCATED IN SEC 11, T9S, R15E; :  
AND ASHLEY 15-12-9-15 WELL, LOCATED : CAUSE NO. UIC 303  
IN SEC 12, T9S, R15E, DUCHESNE :  
COUNTY, UTAH, AS CLASS II INJECTION :  
WELLS :

---

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

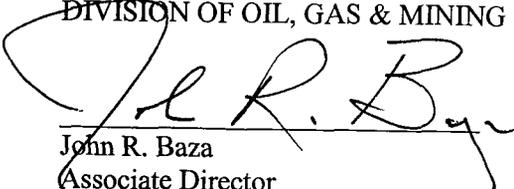
Notice is hereby given that the Division of Oil, Gas and Mining (the "Division") is commencing an informal adjudicative proceeding to consider the application of Inland Production Company for administrative approval of the Castle Draw 8-9-9-17 well, located in SE/4 NE/4 Sec 9, T9S, R17E; and Ashley 1-11-9-15 well located in NE/4 NE/4 Sec 11, T9S, R15E; Ashley 15-12-9-15 well, located in SW/4 SE/4 Sec 12, T9S, R15E, Duchesne County, Utah, for conversion to Class II injection wells. These wells are located in the Black Jack and Ashley 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) 538-5340. 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 9th day of January, 2003.

STATE OF UTAH  
DIVISION OF OIL, GAS & MINING

  
John R. Baza  
Associate Director

**Inland Production Company**  
**Castle Draw 8-9-9-17, Ashley 1-11-9-15 and Ashley 15-12-9-15**  
**Cause No. UIC 303**

Publication Notices were sent to the following:

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

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 84021-0317

Dan Jackson  
US EPA Region VIII, Suite 5000  
999 18th Street  
Denver, CO 80202-2466

  
\_\_\_\_\_  
Earlene Russell  
Executive Secretary  
January 9, 2003

**From:** "NAC LEGAL" <naclegal@nacorp.com>  
**To:** "Earlene Russell" <EARLENERUSSELL@utah.gov>  
**Date:** 1/9/03 11:25AM  
**Subject:** Re: Cause No UIC 303

Please check the ad in the paper on Monday, Jan. 13th.  
Thank you.

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

From: Earlene Russell  
To: naclegal@nacorp.com  
Sent: Thursday, January 09, 2003 11:05 AM  
Subject: Cause No UIC 303

Please notify me of the publication date.

Thanks.  
ER

TRANSACTION REPORT

P. 01

JAN-09-2003 THU 11:02 AM

FOR: OIL, GAS & MINING

801 359 3940

DATE	START	RECEIVER	TX TIME	PAGES	TYPE	NOTE	M#	DP
JAN-09	11:01 AM	2372776	47"	2	SEND	OK	932	
TOTAL :						47S PAGES:	2	



**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

January 9, 2003

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 303

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,

*[Handwritten signature]*



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  
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(801) 538-7223 TTY  
www.nr.utah.gov

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

January 9, 2003

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 303

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,

*Earlene Russell*  
Earlene Russell  
Executive Secretary

encl.

**From:** "Craig Ashby" <ubsnews@ubtanet.com>  
**To:** "Earlene Russell" <EARLENERUSSELL@utah.gov>  
**Date:** 1/9/03 11:16AM  
**Subject:** Re: Cause No. UIC 303

It will be January 13, 2003

Bonnie

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

From: Earlene Russell

To: ubsnews@ubtanet.com

Sent: Thursday, January 09, 2003 11:11 AM

Subject: Cause No. UIC 303

Please notify me of the publication date.

Thanks.

ER

TRANSACTION REPORT

P.01

JAN-09-2003 THU 11:01 AM

FOR: OIL, GAS & MINING

801 359 3940

DATE	START	RECEIVER	TX TIME	PAGES	TYPE	NOTE	M#	DP
JAN-09	11:00 AM	14357224140	43"	2	SEND	OK	931	

TOTAL : 43S PAGES: 2



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

January 9, 2003

SENT VIA E-MAIL AND FAX (435) 722-4140

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

RE: Notice of Agency Action - Cause No. UIC 303

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DIVISION OF OIL, GAS AND MINING

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PO Box 145801  
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(801) 538-5340 telephone  
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Earlene Russell  
Executive Secretary

encl.

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 NA 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	01/13/03

CASTLE DRAW  
8-9-9-17  
951789  
4301332078

ACCOUNT NAME	
DIV OF OIL-GAS & MINING	
TELEPHONE	INVOICE NUMBER
801-538-5340	TL8201VM4Z1

SCHEDULE
START 01/13/03 END 01/13/03
CUST. REF. NO.

CAPTION
BEFORE THE DIVISION OF OIL, GA
SIZE
63 LINES 2.00 COLUMN

TIMES	RATE
1	1.25
MISC. CHARGES	AD CHARGES
.00	157.50
	TOTAL COST
	157.50

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 CASTLE DRAW 8-9-9-17 WELL LOCATED IN SEC 9, T9S, R17E, ASHLEY 1-11-9-15 WELL LOCATED IN SEC 11, T9S, R15E, AND ASHLEY 15-12-9-15 WELL LOCATED IN SEC 12, T9S, R15E, DUCHESNE COUNTY, UTAH, AS CLASS II INJECTION WELLS

NOTICE OF AGENCY ACTION  
CAUSE NO. UIC-303

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 the Castle Draw 8-9-9-17 well, located in SE/4 NE/4 Sec 9, T9S, R17E; and Ashley 1-11-9-15 well located in NE/4 NE/4 Sec 11, T9S, R15E; Ashley 15-12-9-15 well, located in SW/4 SE/4 Sec 12, T9S, R15E, Duchesne County, Utah, for conversion to Class II injection wells. These wells are located in the Black Jack and Ashley 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 the 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) 538-5340. 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 9th day of January, 2003.

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

8201VM4Z

AFFIDAVIT OF PUBLICATION

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

PUBLISHED ON                      START 01/13/03 END 01/13/03

SIGNATURE *John R. Baza*

DATE 01/13/03



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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

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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	01/13/03

CASTLE DRAW  
 8-9-9-17  
 9517E9  
 4301332078

ACCOUNT NAME	
DIV OF OIL-GAS & MINING	
TELEPHONE	INVOICE NUMBER
801-538-5340	TL8201VM4Z1
SCHEDULE	
START 01/13/03 END 01/13/03	
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CAPTION	
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SIZE	
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TIMES	RATE
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MISC. CHARGES	AD CHARGES
.00	157.50
TOTAL COST	
157.50	

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 CASTLE DRAW 8-9-0-1-7

NOTICE OF AGENCY ACTION

FOR THE CHAMBER OF  
 COMMERCE (P-13) DIS  
 12:00 3:45 7:20  
 1:00  
 4:30 7:30 9:30  
 12:15 2:30 4:45 7:15  
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 9:30  
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 9:15

THE ULLA 453-2602  
 97 SOUTH HIGHLAND DR.  
 TADUAM SEATING  
 D OF THE RINGS  
 TOWERS (P-13) DIS 4:15 8:00

AFFIDAVIT OF PUBLICATION

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

PUBLISHED ON START 01/13/03 END 01/13/03

SIGNATURE *Merrilyn D. Dore*

DATE 01/13/03

Notary Public  
**MERRILYN D. DORE**  
 824 West Big Mountain Drive  
 Taylorsville, Utah 84123  
 My Commission Expires  
 January 23, 2006  
 State of Utah

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

# AFFIDAVIT OF PUBLICATION

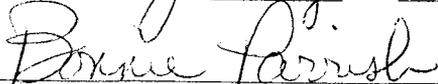
County of Duchesne,  
STATE OF UTAH

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 14 day of January, 20 03, and that the last publication of such notice was in the issue of such newspaper dated the 14 day of January, 20 03.

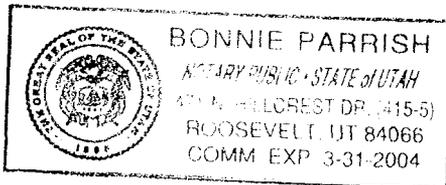


Publisher

Subscribed and sworn to before me this  
15 day of January, 20 03



Notary Public



## NOTICE OF AGENCY ACTION CAUSE NO. UIC 303

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 CASTLE DRAW 8-9-9-17 WELL LOCATED IN SEC 9, T9S, R17E; ASHLEY 1-11-9-15 WELL LOCATED IN SEC 11, T9S, R15E; AND ASHLEY 15-12-9-15 WELL, LOCATED IN SEC 12, T9S, R15E, DUCHESNE COUNTY, UTAH, AS CLASS II INJECTION WELLS

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Dated this 9th day of January, 2003.

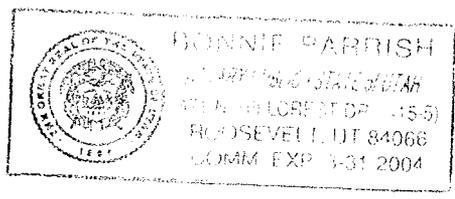
STATE OF UTAH  
DIVISION OF OIL,  
GAS & MINING  
John R. Baza  
Associate Director  
Published in the Uintah  
Basin Standard January 14,  
2003.

I, Craig L. [redacted] 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 14 day of January, 20 03, and that the last publication of such notice was in the issue of such newspaper dated the 14 day of January, 20 03.

Publisher

Subscribed and sworn to before me this 15 day of January, 20 03

Notary Public



**ACTION CAUSE NO. UIC 303**

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Dated this 9th day of January, 2003.  
STATE OF UTAH  
DIVISION OF OIL, GAS & MINING  
John R. Baza  
Associate Director  
Published in the Uintah Basin Standard January 14, 2003.

Newspaper Agency Corporation

The Salt Lake Tribune



DESERET NEWS

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For billing information  
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ACCOUNT NUMBER

D5385340L-07

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DIV OF OIL-GAS & MINING 1594 W NORTH TEMP #1210,P.O. BOX 145801 SALT LAKE CITY UT 841							
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801/538-5340	01/15/03	BI-MONTHLY	1 LT C961	DIV OF OIL-GAS			
AD DATE	DESCRIPTION/PRODUCT CODE		CLASS	TIMES	LINES/IN	RATE	AMOUNT
12/13/02	M/023/016A/BEFORE T TL8201JMN1		0998	1	186.000		215.76
01/15/03	PAYMENT THANK YOU 5080400102						215.76-
	INVOICE AMOUNT DUE						.00
12/29/02	NOTICE OF HEARING D TL5801V2IF1		0998	1	118.000		193.52
01/15/03	PAYMENT THANK YOU 5080400103						193.52-
	INVOICE AMOUNT DUE						.00
12/29/02	NOTICE OF HEARING D TL8201UWU71		0998	1	114.000		186.96
01/15/03	PAYMENT THANK YOU 5080400104						186.96-
	INVOICE AMOUNT DUE						.00
01/13/03	BEFORE THE DIVISION TL8201VM4Z1		0998	1	126.000		157.50
	INVOICE AMOUNT DUE						157.50
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				<b>RECEIVED</b> <b>JAN 21 2003</b> DIV. OF OIL, GAS & MINING			
FINAL NOTICE	3RD NOTICE	2ND NOTICE	CURRENT NET AMOUNT			TOTAL NET AMOUNT DUE	
			157.50			157.50	

Please detach and return this portion with your payment in the enclosed envelope. THANK YOU!

C961

Newspaper Agency Corporation

The Salt Lake Tribune



DESERET NEWS

143 S. Main ST. P.O. Box 45838 SLC, UT 84145-0838

ADVERTISING INVOICE/STATEMENT

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BILLING DATE	01/15/03
TOTAL AMOUNT DUE	157.50
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NEWSPAPER AGENCY CORPORATION  
P.O. BOX 45838  
SALT LAKE CITY UT 84145-0838



DIV OF OIL-GAS & MINING  
1594 W NORTH TEMP #1210  
P.O. BOX 145801  
SALT LAKE CITY UT 84114

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*Handwritten notes:*  
D/C  
1/21/03  
157.50





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

February 20, 2003

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

Re: Blackjack Unit Well: Castle Draw 8-9-9-17, Section 9, Township 9 South,  
Range 17 East, Duchesne County, Utah

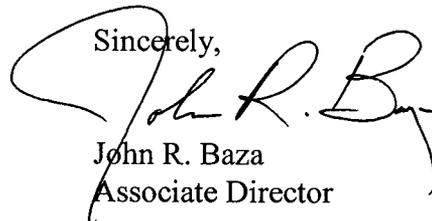
Gentlemen:

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



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

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

SEP 24 2003

Ref: 8P-W-GW

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

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

David Gerbig  
Inland Production Company  
410 17th Street, Suite 700  
Denver, CO 80202

Re: Underground Injection Control Program  
Permit for the Castle Draw #8-9-9-17 Well  
Duchesne County, UT  
EPA Permit No. UT20944-06155

Dear Mr. Gerbig:

Enclosed is your copy of the FINAL Underground Injection Control (UIC) Permit for the proposed Castle Draw #8-9-9-17, in Uintah County, Utah. A Statement of Basis, which discusses development of the conditions and requirements of the Permit, also is included.

The Public Comment period ended July 25, 2003. There were no comments on the Draft Permit received during the Public Notice period, and therefore the Final Permit becomes effective on the date of issuance. All conditions set forth herein refer to Title 40 Parts 124, 144, 146, and 147 of the Code of Federal Regulations (CFR) and are regulations that are in effect on the date that this permit becomes effective.

Please note that under the terms of the Final Permit, you are authorized only to construct the proposed injection well, and must fulfill the "Prior to Commencing Injection" requirements of the Permit, Part II Section C Subpart 1 and obtain written Authorization to Inject prior to commencing injection. It is your responsibility to be familiar with and to comply with all provisions of the Final Permit.

The permit and the authorization to inject are issued for the operating life of the well unless terminated (Part III, Section B). The EPA will review this permit at least every five (5) years to determine whether action under 40 CFR § 144.36(a) is warranted.

RECEIVED

SEP 26 2003

UTAH DIV. OF OIL, GAS & MINING



If you have any questions on the enclosed Final Permit or Statement of Basis, please call Emmett Schmitz of my staff at (303) 312-6174, or toll-free at (800) 227-8917, ext. 6174.

Sincerely,



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

enclosure: Final Permit  
Statement of Basis

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. Michael Guinn  
Vice President - Operations  
Inland Production Company  
Route 3 - Box 3630  
Myton, UT 84502

Mr. Gil Hunt  
Technical Services Manager  
State of Utah - Natural Resources  
Division of Oil, Gas and Mining  
1549 West North Temple - Suite 1220  
Salt Lake City, UT 84114-5801



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

# STATEMENT OF BASIS

## INLAND PRODUCTION COMPANY CASTLE DRAW #8-9-9-17 DUCHESNE COUNTY, UT

EPA PERMIT NO. UT20944-06155

**CONTACT:** Emmett Schmitz  
U. S. Environmental Protection Agency  
Ground Water Program, 8P-W-GW  
999 18th Street, Suite 300  
Denver, Colorado 80202-2466  
Telephone: 1-800-227-8917 ext. 6174

This STATEMENT OF BASIS gives the derivation of site-specific UIC Permit conditions and reasons for them. Referenced sections and conditions correspond to sections and conditions in the Permit.

UIC Permits specify the conditions and requirements for construction, operation, monitoring and reporting, and plugging of injection wells to prevent the movement of fluids into underground sources of drinking water (USDWs). Under 40 CFR 144 Subpart D, certain conditions apply to all UIC Permits and may be incorporated either expressly or by reference. General Permit conditions for which content is mandatory and not subject to site-specific differences (40 CFR Parts 144, 146 and 147) are not discussed in this document.

Upon the Effective Date when issued, the Permit authorizes the conversion and operation of a "new" injection well or wells governed by the conditions specified in the Permit. The Permit is issued for the operating life of the injection well unless terminated for reasonable cause under 40 CFR 144.39, 144.40 and 144.41. The Permit is subject to EPA review at least once every five (5) years to determine if action is required under 40 CFR 144.36(a).

## PART I. General Information and Description of Facility

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

on

December 10, 2002

submitted an application for an Underground Injection Control (UIC) Program Permit for the following injection well or wells:

Castle Draw #8-9-9-17  
1980 FNL 660 FEL, SENE S9, T9S, R17E  
Duchesne County, UT

Regulations specific to Uintah-Ouray Indian Reservation injection wells are found at 40 CFR 147 Subpart TT.

The Permit application, including the required information and data necessary to issue a UIC Permit in accordance with 40 CFR Parts 144, 146 and 147, was reviewed by EPA and determined to be complete.

The Permit will expire upon delegation of primary enforcement responsibility (primacy) for applicable portions of the UIC Program to the Ute Indian Tribe or the State of Utah unless the delegated agency has the authority and chooses to adopt and enforce this Permit as a Tribal or State Permit.

TABLE 1.1 shows the status of the well or wells as "New", "Existing", or "Conversion" and for Existing shows the original date of injection operation. Well authorization "by rule" under 40 CFR Part 144 Subpart C expires automatically on the Effective Date of an issued UIC Permit.

TABLE 1.1		
WELL STATUS / DATE OF OPERATION		
CONVERSION WELLS		
Well Name	Well Status	Date of Operation
Castle Draw #8-9-9-17	Conversion	N/A

## PART II. Permit Considerations (40 CFR 146.24)

### Geologic Setting (TABLE 2.1)

**TABLE 2.1**  
**GEOLOGIC SETTING**  
**Castle Draw #8-9-9-17**

Formation Name	Top (ft)	Base (ft)	TDS (mg/l)	Lithology
Uinta	0.00			
Green River Formation	1,354.00			
Garden Gulch	3,580.00			
Garden Gulch 2	3,884.00			
Point Three Marker	4,147.00			
Douglas Creek	4,556.00			
Bicarbonate Marker	4,794.00			
B-Limestone	4,924.00			
Castle Peak Limestone	5,354.00			

### Proposed Injection Zone(s) (TABLE 2.2)

An injection zone is a geological formation, group of formations, or part of a formation that receives fluids through a well. The proposed injection zones are listed in TABLE 2.2.

Injection will occur into an injection zone that is separated from USDWs by the confining zone which is free of known open faults or fractures within the Area of Review.

The injection interval consists of the Garden Gulch, Douglas Creek and Basal Carbonate Members of the Green River Formation. The approved injection interval is determined by correlation to the Greater Monument Butte Area (GMBA) Type Log, designated as the Dual Laterolog and Compensated Density-Neutron Gamma Ray log from the Federal No. 1-26-8-17 injection well located in the NE NW Section 26 - T8S - R17E, Uintah County, Utah, API #42-047-31953. The GMBA Type Log shows that the injection interval in the Federal No. 1-26-8-17 injection well extends from a measured depth of 4164 feet to 6515 feet and the confining zone overlying the top of the injection zone (top of the Garden Gulch Member) is the shale interval from 4117 feet to 4164 feet.

In the Castle Draw No. 8-9-9-17 well, the confining zone correlates to 3562 feet to 3580 feet and the injection interval correlates to 3580 feet to 5895 feet.

**TABLE 2.2**  
**INJECTION ZONES**  
Castle Draw #8-9-9-17

Formation Name	Top (ft)	Base (ft)	TDS (mg/l)	Fracture Gradient (psi/ft)	Porosity	Exempted?*
Green River: Garden Gulch-Douglas Creek-Basal Carbonate Members	3,580.00	5,895.00	22,694.00	0.710		N/A

\* C - Currently Exempted  
E - Previously Exempted  
P - Proposed Exemption  
N/A - Not Applicable

**Confining Zone(s) (TABLE 2.3)**

A confining zone is a geological formation, part of a formation, or a group of formations that limits fluid movement above the injection zone. The confining zone or zones are listed in TABLE 2.3.

The confining zone consists of eighteen (18) feet of competent shale from 3562 feet to 3580 feet, which directly overlies the top of the Garden Gulch Member.

**TABLE 2.3**  
**CONFINING ZONES**  
Castle Draw #8-9-9-17

Formation Name	Formation Lithology	Top (ft)	Base (ft)
Green River	Shale	3,562.00	3,580.00

**Underground Sources of Drinking Water (USDWs) (TABLE 2.4)**

Aquifers or the portions thereof which contain less than 10,000 mg/l total dissolved solids (TDS) and are being or could in the future be used as a source of drinking water are considered to be USDWs. The USDWs in the area of this facility are identified in TABLE 2.4.

The base of the USDWs occurs within the Uinta Formation approximately fifty (50) feet below the surface. The source of this information is the STATE OF UTAH: PUBLICATION NO. 2. BASE OF MODERATELY SALINE GROUND WATER IN THE UINTA BASIN, UTAH.

**TABLE 2.4**  
**UNDERGROUND SOURCES OF DRINKING WATER (USDW)**  
**Castle Draw #8-9-9-17**

Formation Name	Formation Lithology	Top (ft)	Base (ft)	TDS (mg/l)
Uinta	Sand	0.00	50.00	< 10,000.00

## PART III. Well Construction (40 CFR 146.22)

**SURFACE CASING:** 8-5/8 inch casing is set at 326 feet below ground level (GL) in a 12-1/4 inch hole with 160 sacks of Premium cement which was circulated to the surface.

**LONGSTRING CASING:** 5-1/2 inch casing is set at 5612 feet below kelly bushing (KB) in a 7-7/8 inch hole. The longstring was cemented to surface with 250 sacks of modified mixed and 260 sacks of Class "G" cement.

The EPA's calculation of annulus cement, by EPA Ground Water Section Guidance No. 34 (Cement Bond Logging Techniques and Interpretation) cites the top of the requisite 80% bond index cement bond as 3754 feet to 3802 feet. There is no 80% bond index cement bond within the confining zone from 3562 feet to 3580 feet.

**TABLE 3.1**  
**WELL CONSTRUCTION REQUIREMENTS**  
**Castle Draw #8-9-9-17**

Casing Type	Hole Size (in)	Casing Size (in)	Cased Interval (ft)	Cemented Interval (ft)
Tubing	5.50	2.88	0.00 - 4,013.00	0.00 - 0.00
Longstring	7.88	5.50	0.00 - 5,612.00	0.00 - 5,635.00
Surface	12.25	8.65	0.00 - 326.00	0.00 - 326.00

The approved well completion plan will be incorporated into the Permit as APPENDIX A and will be binding on the Permittee. Modification of the approved plan is allowed under 40 CFR 144.52(a)(1) provided written approval is obtained from the Director prior to actual modification.

### **Casing and Cementing (TABLE 3.1)**

The construction plan for this well proposed for conversion to an injection well was evaluated and determined to be in conformance with standard practices and guidelines that ensure well injection does not result in the movement of fluids into USDWs. Well construction and conversion details for this well are shown in TABLE 3.1.

### **Tubing and Packer**

Injection tubing is required to be installed from a packer up to the surface inside the well casing. The packer will be set above the uppermost perforation. The tubing and packer are designed to prevent injection fluid from coming into contact with the outermost casing.

For injection purposes the Castle Draw No. 8-9-9-17 will be equipped with 2-7/8 inch injection tubing, with a packer set at a depth no higher than 100 feet above the top perforation.

### **Tubing-Casing Annulus (TCA)**

The TCA allows the casing, tubing and packer to be pressure-tested periodically for mechanical integrity, and will allow for detection of leaks. The TCA will be filled with fresh water treated with a corrosion inhibitor or other fluid approved by the Director.

### **Monitoring Devices**

The permittee will be required to install and maintain wellhead equipment allowing for monitoring pressures and providing access for sampling the injected fluid. This equipment includes: 1) shut-off valves located at the wellhead on the injection tubing and on the TCA; 2) a flow meter that measures the cumulative volume of injected fluid; 3) pressure gauges attached to the injection tubing and the TCA to monitor the injection and TCA pressure; and 4) a tap on the injection line, isolated by shut-off valves, for sampling the injected fluid.

All sampling and measurement taken for monitoring must be representative of the monitored activity.

## PART IV. Area of Review, Corrective Action Plan (40 CFR 144.55)

**TABLE 4.1  
AOR AND CORRECTIVE ACTION**

Well Name	Type	Status (Abandoned Y/N)	Total Depth (ft)	TOC Depth (ft)	CAP Required (Y/N)
Castle Draw 1-9-9-17	Producer	No	5,750.00	5,342.00	No
No. 12-10-9-17Y	Producer	No	5,554.00	3,512.00	No
Pleasant Valley 7-9-9-17	Producer	No	5,652.00	4,030.00	No

TABLE 4.1 lists the wells in the Area of Review ("AOR") and shows the well type, operating status, depth, top of casing cement ("TOC") and whether a Corrective Action Plan ("CAP") is required for the well.

Requires surface observation of well site for injectate contamination.

### Area Of Review

Applicants for Class I, II (other than "existing" wells) or III injection well Permits are required to identify the location of all known wells within the injection well's Area of Review (AOR) which penetrate the injection zone, or in the case of Class II wells operating over the fracture pressure of the formation, all known wells within the area of review that penetrate formations which may be affected by increased pressure. Under 40 CFR 146.6 the AOR may be a fixed radius of not less than one quarter (1/4) mile or a calculated zone of endangering influence. For Area Permits, a fixed width of not less than one quarter (1/4) mile for the circumscribing area may be used.

### Corrective Action Plan

For wells in the AOR which are improperly sealed, completed, or abandoned, the applicant shall develop a Corrective Action Plan (CAP) consisting of the steps or modifications that are necessary to prevent movement of fluid into USDWs.

The CAP will be incorporated into the Permit as APPENDIX F and become binding on the permittee.

TABLE 4.1 lists the wells in the AOR, and shows the well type, operating status, depth, top of casing cement and whether a CAP is required for this well.

## PART V. Well Operation Requirements (40 CFR 146.23)

**TABLE 5.1**  
**INJECTION ZONE PRESSURES**  
Castle Draw #8-9-9-17

Formation Name	Depth Used to Calculate MAIP (ft)	Fracture Gradient (psi/ft)	Initial MAIP (psi)
Green River: Garden Gulch-Douglas Creek-Basal Carbonate Members	4,113.00	0.710	1,130

### Approved Injection Fluid

The approved injection fluid will be limited to a produced water mixture which meets requirements pursuant to 40 CFR § 144.6(b). The well also may be used to inject other Class II wastes such as drilling fluids and spent well completion, treatment and stimulation fluid. Non-exempt wastes, including unused fracturing fluids or acids, gas plant cooling tower cleaning wastes, service wastes and vacuum truck wastes, are not approved.

### Injection Pressure Limitation

Injection pressure, measured at the wellhead, shall not exceed a maximum calculated to assure that the pressure used during injection does not initiate new fractures or propagate existing fractures in the confining zones adjacent to the USDWs.

The applicant submitted injection fluid density and injection zone data which was used to calculate a formation fracture pressure and to determine the maximum allowable injection pressure (MAIP), as measured at the surface, for this Permit,

TABLE 5.1 lists the fracture gradient for the injection zone and the approved MAIP, determined according to the following formula:

$$FP = [fg - (0.433 * sg)] * d$$

- FP = formation fracture pressure (measured at surface)
- fg = fracture gradient (from submitted data or tests)
- sg = specific gravity (of injected fluid)
- d = depth to top of injection zone (or top perforation)

### Injection Volume Limitation

Cumulative injected fluid volume limits are set to assure that injected fluids remain within the boundary of the exempted area. Cumulative injected fluid volume is limited when injection occurs into an aquifer that has been exempted from protection as a USDW.

### Mechanical Integrity (40 CFR 146.8)

An injection well has mechanical integrity if:

1. there is no significant leak in the casing, tubing, or packer; and
2. there is no significant fluid movement into a USDW through vertical channels adjacent to the injection well bore.

The Permit requires that the well demonstrate mechanical integrity prior to injection and periodically thereafter. A TCA pressure test must be performed at least once every five (5) years to demonstrate continued tubing, packer, and casing integrity. TCA pressure must be monitored on a weekly basis to ensure the continued integrity of the tubing and packer system.

The Permit prohibits injection into a well which lacks mechanical integrity.

## **PART VI. Monitoring, Recordkeeping and Reporting Requirements**

### **Injection Well Monitoring Program**

At least once a year the permittee must analyze a sample of the injected fluid for total dissolved solids (TDS), specific conductivity, pH, and specific gravity. This analysis shall be reported to EPA annually as part of the Annual Report to the Director. Any time a new source of injected fluid is added, a fluid analysis shall be made of the new source.

Instantaneous injection pressure, injection flow rate, cumulative fluid volume and TCA pressures must be observed on a weekly basis. A recording, at least once every thirty (30) days, must be made of the injection pressure, injection flow rate and cumulative fluid volume, and the maximum and average value for each must be determined for each month. This information is required to be reported annually as part of the Annual Report to the Director.

## **PART VII. Plugging and Abandonment Requirements (40 CFR 146.10)**

### **Plugging and Abandonment Plan**

Prior to abandonment, this well must be plugged with cement in a manner which will not allow the movement of fluids either into or between USDWs. The plugging and abandonment plan is described in Appendix E of this Statement of Basis.

## **PART VIII. Financial Responsibility (40 CFR 144.52)**

### **Demonstration of Financial Responsibility**

The permittee is required to maintain financial responsibility and resources to close, plug, and abandon the underground injection operation in a manner prescribed by the Director. The permittee shall show evidence of such financial responsibility to the Director by the submission of a surety bond, or other adequate assurance such as financial statements or other materials acceptable to the Director. The Regional Administrator may, on a periodic basis, require the holder of a lifetime permit to submit a revised estimate of the resources needed to plug and abandon the well to reflect inflation of such costs, and a revised demonstration of financial responsibility if necessary. Initially, the operator has chosen to demonstrate financial responsibility with:

an \$18,000 Letter of Credit and Standby Trust Agreement, which have been reviewed and approved by the EPA.

Trust Fund, received September 30, 2002

Evidence of continuing financial responsibility is required to be submitted to the Director annually.



**UNDERGROUND INJECTION CONTROL PROGRAM  
PERMIT**

PREPARED: September 2003

**Permit No. UT20944-06155**

**Class II Enhanced Oil Recovery Injection Well**

**Castle Draw #8-9-9-17  
Duchesne County, UT**

Issued To

**Inland Production Company**

410 17th Street

Suite 700

Denver, CO 80202

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## Part I. AUTHORIZATION TO CONSTRUCT AND OPERATE

Under the authority of the Safe Drinking Water Act and Underground Injection Control (UIC) Program regulations of the U. S. Environmental Protection Agency (EPA) codified at Title 40 of the Code of Federal Regulations (40 CFR) Parts 2, 124, 144, 146, and 147, and according to the terms of this Permit,

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

is authorized to construct and to operate the following Class II injection well or wells:

Castle Draw #8-9-9-17  
1980 FNL 660 FEL, SENE S9, T9S, R17E  
Duchesne County, UT

Permit requirements herein are based on regulations found in 40 CFR Parts 124, 144, 146, and 147 which are in effect on the Effective Date of this Permit.

This Permit is based on representations made by the applicant and on other information contained in the Administrative Record. Misrepresentation of information or failure to fully disclose all relevant information may be cause for termination, revocation and reissuance, or modification of this Permit and/or formal enforcement action. This Permit will be reviewed periodically to determine whether action under 40 CFR 144.36(a) is required.

This Permit is issued for the life of the well unless modified, revoked and reissued, or terminated under 40 CFR 144.39 or 144.40. This Permit may be adopted, modified, revoked and reissued, or terminated if primary enforcement authority for this program is delegated to an Indian Tribe or a State. Upon the effective date of delegation, all reports, notifications, questions and other compliance actions shall be directed to the Indian tribe or State Program Director or designee.

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

Effective Date \_\_\_\_\_

*Paul S. Campbell for*

Stephen S. Tuber

Assistant Regional Administrator\*

Office of Partnerships and Regulatory Assistance

\*NOTE: The person holding this title is referred to as the "Director" throughout this Permit.

## PART II. SPECIFIC PERMIT CONDITIONS

### Section A. WELL CONSTRUCTION REQUIREMENTS

These requirements represent the approved minimum construction standards for well casing and cement, injection tubing, and packer.

Details of the approved well construction plan are incorporated into this Permit as APPENDIX A. Changes to the approved plan that may occur during construction must be approved by the Director prior to being physically incorporated.

#### **1. Casing and Cement.**

The well or wells shall be cased and cemented to prevent the movement of fluids into or between underground sources of drinking water. The well casing and cement shall be designed for the life expectancy of the well and of the grade and size shown in APPENDIX A. Remedial cementing may be required if shown to be inadequate by cement bond log or other attempted demonstration of Part II (External) mechanical integrity.

#### **2. Injection Tubing and Packer.**

Injection tubing is required, and shall be run and set with a packer at or below the depth indicated in APPENDIX A. The packer setting depth may be changed provided it remains below the depth indicated in APPENDIX A and the Permittee provides notice and obtains the Director's approval for the change.

#### **3. Sampling and Monitoring Devices.**

The Permittee shall install and maintain in good operating condition:

- (a) a "tap" at a conveniently accessible location on the injection flow line between the pump house or storage tanks and the injection well, isolated by shut-off valves, for collection of representative samples of the injected fluid; and
- (b) one-half (1/2) inch female iron pipe fitting, isolated by shut-off valves and located at the wellhead at a conveniently accessible location, for the attachment of a pressure gauge capable of monitoring pressures ranging from normal operating pressures up to the Maximum Allowable Injection Pressure specified in APPENDIX C:
  - (i) on the injection tubing; and
  - (ii) on the tubing-casing annulus (TCA); and
- (c) a pressure actuated shut-off device attached to the injection flow line set to shut-off the injection pump when or before the Maximum Allowable Injection Pressure specified in APPENDIX C is reached at the wellhead; and
- (d) a non-resettable cumulative volume recorder attached to the injection line.

#### **4. Well Logging and Testing**

Well logging and testing requirements are found in APPENDIX B. The Permittee shall ensure the log and test requirements are performed within the time frames specified in APPENDIX B. Well logs and tests shall be performed according to current EPA-approved procedures. Well log and test results shall be submitted to the Director within sixty (60) days of completion of the logging or testing activity, and shall include a report describing the methods used during logging or testing and an interpretation of the test or log results.

#### **5. Postponement of Construction or Conversion**

The Permittee shall complete well construction within one year of the Effective Date of this Permit. Authorization to construct and operate shall expire and the Permit may be terminated under 40 CFR 144.40 if the well has not been constructed within one year of the Effective Date of the Permit unless the Permittee has notified the Director and requested an extension prior to expiration. Notification shall be in writing, and shall state the reasons for the delay and provide an estimated completion date. Once Authorization has expired under this part, the complete permit process including opportunity for public comment may be required before Authorization to construct and operate can be reissued.

#### **6. Workovers and Alterations**

Workovers and alterations shall meet all conditions of the Permit. Prior to beginning any addition or physical alteration to the injection well that may significantly affect the tubing, packer or casing, the Permittee shall give advance notice to the Director and obtain the Director's approval. The Permittee shall record all changes to the well construction on a Well Rework Record (EPA Form 7520-12), and shall provide this and any other record of well workover, logging, or test data to EPA within sixty (60) days of completion of the activity.

A successful demonstration of Part I MI is required following the completion of any well workover or alteration which affects the casing, tubing, or packer. Injection operations shall not be resumed until the well has successfully demonstrated mechanical integrity and the Director has provided written approval to resume injection.

### **Section B. MECHANICAL INTEGRITY**

The Permittee is required to ensure each injection well maintains mechanical integrity at all times. The Director, by written notice, may require the Permittee to comply with a schedule describing when mechanical integrity demonstrations shall be made.

An injection well has mechanical integrity if:

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

### **1. Demonstration of Mechanical Integrity (MI).**

The operator shall demonstrate MI prior to commencing injection and periodically thereafter.

At least once every five (5) years during the life of the well Part I (Internal) MI shall be demonstrated. If a test other than approved cementing records or cement bond log is used to demonstrate Part II (External) MI, Part II MI also shall be demonstrated at least once every five (5) years.

The operator shall demonstrate Part I (Internal) MI after workovers affecting the tubing, packer or casing.

The Director may require additional or alternative tests if the results presented by the operator are not satisfactory to the Director to demonstrate there is no movement of fluid into or between USDWs resulting from injection activity. Results of MI tests shall be submitted to the Director as soon as possible but no later than sixty (60) days after the test is complete.

### **2. Mechanical Integrity Test Methods and Criteria**

EPA-approved methods shall be used to demonstrate mechanical integrity. A current copy of Ground Water Section Guidance No. 34 "Cement Bond Logging Techniques and Interpretation", Ground Water Section Guidance No. 37, "Demonstrating Part II (External) Mechanical Integrity for a Class II injection well permit", and Ground Water Section Guidance No. 39, "Pressure Testing Injection Wells for Part I (Internal) Mechanical Integrity" are provided at issuance of this Permit.

The Director may stipulate specific test methods and criteria best suited for a specific well construction and injection operation.

### **3. Notification Prior to Testing.**

The Permittee shall notify the Director at least 30 days prior to any scheduled mechanical integrity test. The Director may allow a shorter notification period if it would be sufficient to enable EPA to witness the mechanical integrity test. Notification may be in the form of a yearly or quarterly schedule of planned mechanical integrity tests, or it may be on an individual basis.

### **4. Loss of Mechanical Integrity.**

If the well fails to demonstrate mechanical integrity during a test, or a loss of mechanical integrity becomes evident during operation (such as presence of pressure in the TCA, water flowing at the surface, etc.), the Permittee shall notify the Director within 24 hours (see Part III Section E Paragraph 11(e) of this Permit), and the well shall be shut-in within 48 hours unless the Director requires immediate shut-in.

Within five days, the Permittee shall submit a follow-up written report that documents test results, repairs undertaken or a proposed remedial action plan.

Injection operations shall not be resumed until after the well has successfully been repaired and demonstrated mechanical integrity, and the Director has provided approval to resume injection.

## **Section C. WELL OPERATION**

INJECTION BETWEEN THE OUTERMOST CASING PROTECTING UNDERGROUND SOURCES OF DRINKING WATER AND THE WELL BORE IS PROHIBITED.

Injection is approved under the following conditions:

### **1. Requirements Prior to Commencing Injection.**

Injection operation may commence only after all construction and pre-injection requirements herein have been met and approved. Except for new wells authorized by an Area Permit under 40 CFR 144.33 (c), the Permittee may not commence injection until construction is complete, and

- (a) The Permittee has submitted to the Director a notice of completion of construction and a completed EPA Form 7520-12; all applicable logging and testing requirements of this Permit (see APPENDIX B) have been fulfilled and the records submitted to the Director; mechanical integrity pursuant to 40 CFR 146.8 and Part II Section B of this Permit has been demonstrated; and
  - (i) The Director has inspected or otherwise reviewed the new injection well and finds it is in compliance with the conditions of the Permit; or
  - (ii) The Permittee has not received notice from the Director of his or her intent to inspect or otherwise review the new injection well within 13 days of the date of the notice in Paragraph 1a, in which case prior inspection or review is waived and the Permittee may commence injection.

### **2. Injection Interval.**

Injection is permitted only within the approved injection interval listed in APPENDIX C. Additional individual injection perforations may be added provided that they remain within the approved injection interval and the Permittee provides notice to the Director in accordance with Part II, Section A, Paragraph 6.

### **3. Injection Pressure Limitation**

- (a) The permitted Maximum Allowable Injection Pressure (MAIP), measured at the wellhead, is found in APPENDIX C. Injection pressure shall not exceed the amount the Director determines is appropriate to ensure that injection does not initiate new fractures or propagate existing fractures in the confining zone adjacent to USDWs. In no case shall injection pressure cause the movement of injected or formation fluids into a USDW.

- (b) The Permittee may request a change of the MAIP, or the MAIP may be increased or decreased by the Director in order to ensure that the requirements in Paragraph (a) above are fulfilled. The Permittee may be required to conduct a step rate injection test or other suitable test to provide information for determining the fracture pressure of the injection zone. Change of the permitted MAIP by the Director shall be by modification of this Permit and APPENDIX C.

#### **4. Injection Volume Limitation.**

Injection volume is limited to the total volume specified in APPENDIX C.

#### **5. Injection Fluid Limitation.**

Injected fluids are limited to those identified in 40 CFR 144.6(b)(2) as fluids used for enhanced recovery of oil or natural gas, including those which are brought to the surface in connection with conventional oil or natural gas production that may be commingled with waste waters from gas plants which are an integral part of production operations unless those waters are classified as a hazardous waste at the time of injection, pursuant to 40 CFR 144.6(b). The Permittee shall provide a listing of the sources of injected fluids in accordance with the reporting requirements in Part II Section D Paragraph 4 and APPENDIX D of this Permit.

#### **6. Tubing-Casing Annulus (TCA)**

The tubing-casing annulus (TCA) shall be filled with water treated with a corrosion inhibitor, or other fluid approved by the Director. The TCA valve shall remain closed during normal operating conditions and the TCA pressure maintained at zero (0) psi.

If TCA pressure cannot be maintained at zero (0) psi, the Permittee shall follow the procedures in Ground Water Section Guidance No. 35 "Procedures to follow when excessive annular pressure is observed on a well."

### **Section D. MONITORING, RECORDKEEPING, AND REPORTING OF RESULTS**

#### **1. Monitoring Parameters, Frequency, Records and Reports.**

Monitoring parameters are specified in APPENDIX D. Pressure monitoring recordings shall be taken at the wellhead. The listed parameters are to be monitored, recorded and reported at the frequency indicated in APPENDIX D even during periods when the well is not operating.

Monitoring records must include:

- (a) the date, time, exact place and the results of the observation, sampling, measurement, or analysis, and;
- (b) the name of the individual(s) who performed the observation, sampling, measurement, or analysis, and;
- (c) the analytical techniques or methods used for analysis.

## **2. Monitoring Methods.**

- (a) Monitoring observations, measurements, samples, etc. taken for the purpose of complying with these requirements shall be representative of the activity or condition being monitored.
- (b) Methods used to monitor the nature of the injected fluids must comply with analytical methods cited and described in Table 1 of 40 CFR 136.3 or Appendix III of 40 CFR 261, or by other methods that have been approved in writing by the Director.
- (c) Injection pressure, annulus pressure, injection rate, and cumulative injected volumes shall be observed and recorded at the wellhead under normal operating conditions, and all parameters shall be observed simultaneously to provide a clear depiction of well operation.
- (d) Pressures are to be measured in pounds per square inch (psi).
- (e) Fluid volumes are to be measured in standard oil field barrels (bbl).
- (f) Fluid rates are to be measured in barrels per day (bbl/day).

## **3. Records Retention.**

- (a) Records of calibration and maintenance, and all original strip chart recordings for continuous monitoring instrumentation, copies of all reports required by this permit, and records of all data used to complete the application for this permit shall be retained for a period of AT LEAST THREE (3) YEARS from the date of the sample, measurement, report, or application. This period may be extended anytime prior to its expiration by request of the Director.
- (b) Records of the nature and composition of all injected fluids must be retained until three (3) years after the completion of any plugging and abandonment (P&A) procedures specified under 40 CFR 144.52(a)(6) or under Part 146 Subpart G, as appropriate. The Director may require the Permittee to deliver the records to the Director at the conclusion of the retention period. The Permittee shall continue to retain the records after the three (3) year retention period unless the Permittee delivers the records to the Director or obtains written approval from the Director to discard the records.
- (c) The Permittee shall retain records at the location designated in APPENDIX D.

Inland Production Company  
410 Seventeenth Street - Suite 700  
Denver, CO 80202

#### **4. Annual Reports.**

Whether the well is operating or not, the Permittee shall submit an Annual Report to the Director that summarizes the results of the monitoring required by Part II Section D and APPENDIX D.

The first Annual Report shall cover the period from the effective date of the Permit through December 31 of that year. Subsequent Annual Reports shall cover the period from January 1 through December 31 of the reporting year. Annual Reports shall be submitted by February 15 of the year following data collection. EPA Form 7520-11 may be copied and shall be used to submit the Annual Report, however, the monitoring requirements specified in this Permit are mandatory even if EPA Form 7520-11 indicates otherwise.

### **Section E. PLUGGING AND ABANDONMENT**

#### **1. Notification of Well Abandonment, Conversion or Closure.**

The Permittee shall notify the Director in writing at least forty-five (45) days prior to: 1) plugging and abandoning the well, 2) converting to a non-injection well, or 3) in the case of an Area Permit, before closure of the project.

#### **2. Well Plugging Requirements**

Prior to abandonment, the injection well shall be plugged with cement in a manner which prevents the movement of fluids into or between underground sources of drinking water. Prior to placement of the cement plug(s) the well shall be in a state of static equilibrium with the mud weight equalized top to bottom, either by circulating the mud in the well at least once or by a comparable method prescribed by the Director. The well shall be plugged in accordance with the approved plugging and abandonment plan and with 40 CFR 146.10.

#### **3. Approved Plugging and Abandonment Plan.**

The approved plugging and abandonment plan is incorporated into this Permit as APPENDIX E. Changes to the approved plugging and abandonment plan must be approved by the Director prior to beginning plugging operations. The Director also may require revision of the approved plugging and abandonment plan at any time prior to plugging the well.

#### **4. Forty Five (45) Day Notice of Plugging and Abandonment.**

The Permittee shall notify the Director at least forty-five (45) days prior to plugging and abandoning the well and provide notice of any anticipated change to the approved plugging and abandonment plan.

#### **5. Plugging and Abandonment Report.**

Within sixty (60) days after plugging a well, the Permittee shall submit a report (EPA Form 7520-13) to the Director. The plugging report shall be certified as accurate by the person who performed the plugging operation. Such report shall consist of either:

- (a) A statement that the well was plugged in accordance with the approved plugging and abandonment plan; or
- (b) Where actual plugging differed from the approved plugging and abandonment plan, an updated version of the plan, on the form supplied by the Director, specifying the differences.

**6. Inactive Wells.**

After any period of two years during which there is no injection the Permittee shall plug and abandon the well in accordance with Part II Section E Paragraph 2 of this Permit unless the Permittee:

- (a) Provides written notice to the Director;
- (b) Describes the actions or procedures the Permittee will take to ensure that the well will not endanger USDWs during the period of inactivity. These actions and procedures shall include compliance with mechanical integrity demonstration, Financial Responsibility and all other permit requirements designed to protect USDWs; and
- (c) Receives written notice by the Director temporarily waiving plugging and abandonment requirements.

## PART III. CONDITIONS APPLICABLE TO ALL PERMITS

### Section A. EFFECT OF PERMIT

The Permittee is allowed to engage in underground injection in accordance with the conditions of this Permit. The Permittee shall not construct, operate, maintain, convert, plug, abandon, or conduct any other activity in a manner that allows the movement of fluid containing any contaminant into underground sources of drinking water, if the presence of that contaminant may cause a violation of any primary drinking water regulation under 40 CFR 142 or may otherwise adversely affect the health of persons. Any underground injection activity not authorized by this Permit or by rule is prohibited. Issuance of this Permit does not convey property rights of any sort or any exclusive privilege; nor does it authorize any injury to persons or property, any invasion of other private rights, or any infringement of State or local law or regulations. Compliance with the terms of this Permit does not constitute a defense to any enforcement action brought under the provisions of Section 1431 of the Safe Drinking Water Act (SDWA) or any other law governing protection of public health or the environment, for any imminent and substantial endangerment to human health or the environment, nor does it serve as a shield to the Permittee's independent obligation to comply with all UIC regulations. Nothing in this Permit relieves the Permittee of any duties under applicable regulations.

### Section B. CHANGES TO PERMIT CONDITIONS

#### **1. Modification, Reissuance, or Termination.**

The Director may, for cause or upon a request from the Permittee, modify, revoke and reissue, or terminate this Permit in accordance with 40 CFR 124.5, 144.12, 144.39, and 144.40. Also, this Permit is subject to minor modification for causes as specified in 40 CFR 144.41. The filing of a request for modification, revocation and reissuance, termination, or the notification of planned changes or anticipated noncompliance on the part of the Permittee does not stay the applicability or enforceability of any condition of this Permit.

#### **2. Conversions.**

The Director may, for cause or upon a written request from the Permittee, allow conversion of the well from a Class II injection well to a non-Class II well. Conversion may not proceed until the Permittee receives written approval from the Director. Conditions of such conversion may include but are not limited to, approval of the proposed well rework, follow up demonstration of mechanical integrity, well-specific monitoring and reporting following the conversion, and demonstration of practical use of the converted configuration.

#### **3. Transfer of Permit.**

Under 40 CFR 144.38, this Permit is transferable provided the current Permittee notifies the Director at least thirty (30) days in advance of the proposed transfer date (EPA Form 7520-7) and provides a written agreement between the existing and new Permittees containing a specific date for transfer of Permit responsibility, coverage and liability between them. The notice shall adequately demonstrate that the financial responsibility requirements of 40 CFR 144.52(a)(7) will be met by the new Permittee. The Director may require modification or revocation and reissuance of the Permit to change the name of the Permittee and incorporate such other requirements as may be necessary under the Safe Drinking Water Act; in some cases, modification or revocation and reissuance is mandatory.

#### **4. Permittee Change of Address.**

Upon the Permittee's change of address, or whenever the operator changes the address where monitoring records are kept, the Permittee must provide written notice to the Director within 30 days.

#### **5. Construction Changes, Workovers, Logging and Testing Data**

The Permittee shall give advance notice to the Director, and shall obtain the Director's written approval prior to any physical alterations or additions to the permitted facility. Alterations or workovers shall meet all conditions as set forth in this permit. The Permittee shall record any changes to the well construction on a Well Rework Record (EPA Form 7520-12), and shall provide this and any other record of well workovers, logging, or test data to EPA within sixty (60) days of completion of the activity.

Following the completion of any well workovers or alterations which affect the casing, tubing, or packer, a successful demonstration of mechanical integrity (Part III, Section F of this permit) shall be made, and written authorization from the Director received, prior to resuming injection activities.

### **Section C. SEVERABILITY**

The Provisions of this Permit are severable, and if any provision of this Permit or the application of any provision of this Permit to any circumstance, is held invalid, the application of such provision to other circumstances, and the remainder of this Permit shall not be affected thereby.

### **Section D. CONFIDENTIALITY**

In accordance with 40 CFR Part 2 and 40 CFR 144.5, information submitted to EPA pursuant to this Permit may be claimed as confidential by the submitter. Any such claim must be asserted at the time of submission by stamping the words "confidential business information" on each page containing such information. If no claim is made at the time of submission, EPA may make the information available to the public without further notice. If a claim is asserted, the validity of the claim will be assessed in accordance with the procedures in 40 CFR Part 2 (Public Information). Claims of confidentiality for the following information will be denied:

- The name and address of the Permittee, and
- information which deals with the existence, absence or level of contaminants in drinking water.

### **Section E. GENERAL PERMIT REQUIREMENTS**

#### **1. Duty to Comply.**

The Permittee must comply with all conditions of this Permit. Any noncompliance constitutes a violation of the Safe Drinking Water Act (SDWA) and is grounds for enforcement action; for Permit termination, revocation and reissuance, or modification; or for denial of a permit renewal application; except that the Permittee need not comply with the provisions of this Permit to the extent and for the duration such noncompliance is authorized in an emergency permit under 40 CFR 144.34. All violations of the SDWA may subject the Permittee to penalties and/or criminal prosecution as specified in Section 1423 of the SDWA.

## **2. Duty to Reapply.**

If the Permittee wishes to continue an activity regulated by this Permit after the expiration date of this Permit, under 40 CFR 144.37 the Permittee must apply for a new permit prior to the expiration date.

## **3. Need to Halt or Reduce Activity Not a Defense.**

It shall not be a defense for a Permittee in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of this Permit.

## **4. Duty to Mitigate.**

The Permittee shall take all reasonable steps to minimize or correct any adverse impact on the environment resulting from noncompliance with this Permit.

## **5. Proper Operation and Maintenance.**

The Permittee shall at all times properly operate and maintain all facilities and systems of treatment and control (and related appurtenances) which are installed or used by the Permittee to achieve compliance with the conditions of this Permit. Proper operation and maintenance includes effective performance, adequate funding, adequate operator staffing and training, and adequate laboratory and process controls, including appropriate quality assurance procedures. This provision requires the operation of back-up or auxiliary facilities or similar systems only when necessary to achieve compliance with the conditions of this Permit.

## **6. Permit Actions.**

This Permit may be modified, revoked and reissued or terminated for cause. The filing of a request by the Permittee for a permit modification, revocation and reissuance, or termination, or a notification of planned changes or anticipated noncompliance, does not stay any permit condition.

## **7. Property Rights.**

This Permit does not convey any property rights of any sort, or any exclusive privilege.

## **8. Duty to Provide Information.**

The Permittee shall furnish to the Director, within a time specified, any information which the Director may request to determine whether cause exists for modifying, revoking and reissuing, or terminating this permit, or to determine compliance with this permit. The Permittee shall also furnish to the Director, upon request, copies of records required to be kept by this Permit. The Permittee is required to submit any information required by this Permit or by the Director to the mailing address designated in writing by the Director.

## **9. Inspection and Entry.**

The Permittee shall allow the Director, or an authorized representative, upon the presentation of credentials and other documents as may be required by law, to:

- (a) Enter upon the Permittee's premises where a regulated facility or activity is located or conducted, or where records must be kept under the conditions of this Permit;

- (b) Have access to and copy, at reasonable times, any records that must be kept under the conditions of this Permit;
- (c) Inspect at reasonable times any facilities, equipment (including monitoring and control equipment), practices, or operations regulated or required under this Permit; and,
- (d) Sample or monitor at reasonable times, for the purpose of assuring permit compliance or as otherwise authorized by the SDWA, any substances or parameters at any location.

#### **10. Signatory Requirements.**

All applications, reports or other information submitted to the Director shall be signed and certified according to 40 CFR 144.32. This section explains the requirements for persons duly authorized to sign documents, and provides wording for required certification.

#### **11. Reporting Requirements.**

- (a) **Planned changes.** The Permittee shall give notice to the Director as soon as possible of any planned changes, physical alterations or additions to the permitted facility, and prior to commencing such changes.
- (b) **Anticipated noncompliance.** The Permittee 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.
- (c) **Monitoring Reports.** Monitoring results shall be reported at the intervals specified in this Permit.
- (d) **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 30 days following each schedule date.
- (e) **Twenty-four hour reporting.** The Permittee shall report to the Director any noncompliance which may endanger human health or the environment, including:
  - (i) Any monitoring or other information which indicates that any contaminant may cause endangerment to a USDW; or
  - (ii) Any noncompliance with a permit condition or malfunction of the injection system which may cause fluid migration into or between USDWs.

Information shall be provided, either directly or by leaving a message, within twenty-four (24) hours from the time the permittee becomes aware of the circumstances by telephoning (800) 227-8917 and requesting EPA Region VIII UIC Program Compliance and Technical Enforcement Director, or by contacting the EPA Region VIII Emergency Operations Center at (303) 293-1788.

In addition, a follow up written report shall be provided to the Director within five (5) days of the time the Permittee becomes aware of the circumstances. The written submission shall contain a description of the noncompliance and its cause, the period of noncompliance including exact dates and times, and if the noncompliance has not been corrected the anticipated time it is expected to continue; and the steps taken or planned to reduce, eliminate, and prevent recurrence of the noncompliance.

- (f) Oil Spill and Chemical Release Reporting: The Permittee shall comply with all reporting requirements related to the occurrence of oil spills and chemical releases by contacting the National Response Center (NRC) at (800) 424-8802, (202) 267-2675, or through the NRC website <http://www.nrc.uscg.mil/index.htm>.
- (g) Other Noncompliance. The Permittee shall report all instances of noncompliance not reported under paragraphs Part III, Section E Paragraph 11(b) or Section E, Paragraph 11(e) at the time the monitoring reports are submitted. The reports shall contain the information listed in Paragraph 11(e) of this Section.
- (h) Other information. Where the Permittee becomes aware that it 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 Permittee shall promptly submit such facts or information to the Director.

## **Section F. FINANCIAL RESPONSIBILITY**

### ***1. Method of Providing Financial Responsibility.***

The Permittee shall maintain continuous compliance with the requirement to maintain financial responsibility and resources to close, plug, and abandon the underground injection well(s). No substitution of a demonstration of financial responsibility shall become effective until the Permittee receives written notification from the Director that the alternative demonstration of financial responsibility is acceptable. The Director may, on a periodic basis, require the holder of a permit to revise the estimate of the resources needed to plug and abandon the well to reflect changes in such costs and may require the Permittee to provide a revised demonstration of financial responsibility.

### ***2. Insolvency.***

In the event of:

- (a) the bankruptcy of the trustee or issuing institution of the financial mechanism; or
- (b) suspension or revocation of the authority of the trustee institution to act as trustee; or

- (c) the institution issuing the financial mechanism losing its authority to issue such an instrument

the Permittee must notify the Director in writing, within ten (10) business days, and the Permittee must establish other financial assurance or liability coverage acceptable to the Director within sixty (60) days after any event specified in (a), (b), or (c) above.

The Permittee must also notify the Director by certified mail of the commencement of voluntary or involuntary proceedings under Title 11 (Bankruptcy), U.S. Code naming the owner or operator as debtor, within ten (10) business days after the commencement of the proceeding. A guarantor, if named as debtor of a corporate guarantee, must make such a notification as required under the terms of the guarantee.

## APPENDIX A

### WELL CONSTRUCTION REQUIREMENTS

See Well Construction Diagram

#### FORMATION DATA:

- \* Base of USDWs (Uinta Formation-Surface to <50 feet)
- \* Confining Zone: Green River Formation between 3562 feet to 3580 feet.
- \* Permitted Injection Zone: Green River Formation 3580 feet to estimated top of Wasatch Formation estimated to be 5895 feet.

#### WELL CONSTRUCTION:

- \* 8-5/8 inch surface casing set at 326 feet (Ground Level) with 160 sacks of Premium cement.
- \* 5-1/2 inch longstring set at 5603 feet and cemented to surface with 250 sacks modified mixed and 260 sacks of Class "G".
- \* 2-7/8 inch tubing to be set in a packer no higher than 4013 feet.

#### WELLHEAD EQUIPMENT:

- \* Sampling tap located to enable the sampling of fluid in the injection tubing.
- \* Sampling tap located to enable the sampling of fluid in the tubing/casing annulus.
- \* Pressure gauge isolated by 1/2 inch FIP shut-off valve or quick-connect and located to enable reading the pressure on the injection tubing.
- \* Pressure gauge isolated by 1/2 inch FIP shut-off valve or quick-connect and located to enable reading the pressure in the tubing/casing annulus.
- \* Pressure-actuated shut-off device located on the injection line, and set to prevent injection operations from exceeding the maximum allowable injection pressure.
- \* Non-resettable cumulative volume recorder located on the injection line.

# Castle Draw #8-9-9-17

UT20944-06155

Proposed Injection  
Diagram

Initial Production: 114 BOPD;  
69 MCFD; 11 BWPD

Spud Date: 7/30/98  
Put on Production: 9/3/98  
GL: 5192' KB: 5202'

**SURFACE CASING**

CSG SIZE: 8-5/8"  
GRADE: J-55 *Base USDW near surface*  
WEIGHT: 24#  
LENGTH: 8 jts. (316')  
DEPTH LANDED: 326' *Uinta Fm. @ Surface*  
HOLE SIZE: 12-1/4"  
CEMENT DATA: 160 sxs Premium cmt, est 8 bbls to surf.

**PRODUCTION CASING**

CSG SIZE: 5-1/2"  
GRADE: J-55  
WEIGHT: 15.5#  
LENGTH: 121 jts. (561') *Confining Zone 3562'-3580'*  
HOLE SIZE: 7-7/8" *Golden Gulch Mem. 3580'*  
CEMENT DATA: 250 sxs modified mixed & 260 sxs class G  
CEMENT TOP AT: Surface  
SET AT: 5612'

*80% Bond 3754-3802 -*

**TUBING**

SIZE/GRADE/WT.: 2-7/8" / M-50 / 6.5#  
NO. OF JOINTS: 174 jts  
SEATING NIPPLE: 2-7/8"  
SN LANDED AT: 4100' KB  
PACKER: 4101' KB  
TOTAL STRING LENGTH: 4100'

**FRAC JOB**

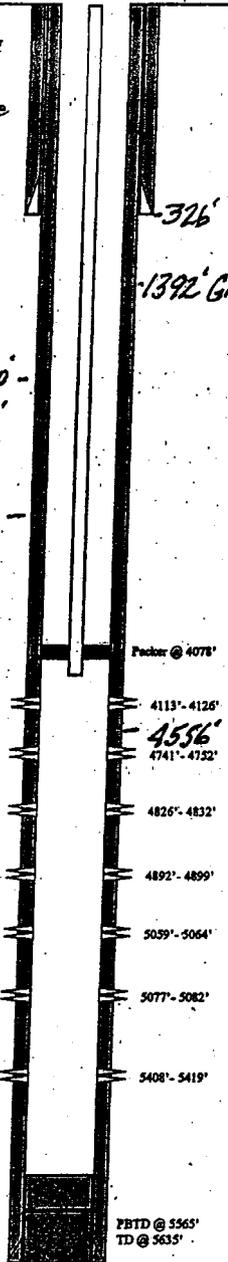
8/24/98 5408'-5419' Frac CP sands as follows:  
RU BJ Services & frac CP sds w/98,100#  
20/40 sd in 509 bbls Viking I-25 fluid.  
Perf broke dn @ 1933 psi. Treated @ ave  
press of 1540 psi w/ave rate of 29.8 BPM.  
ISIP: 1500 psi.

8/26/98 5059'-5082' Frac A sands as follows:  
RU BJ Services & frac A sds w/95,716#  
20/40 sd in 506 bbls Viking I-25 fluid.  
Perf broke dn @ 3042 psi. Treated @ ave  
press of 1850 psi w/ave rate of 27.7 BPM.  
ISIP: 2200 psi.

8/28/98 4741'-4899' Frac B/C sands as follows:  
RU BJ Services & frac C/B sds w/109,231#  
20/40 sd in 552 bbls Viking I-25 fluid.  
Perf broke back @ 2200 psi @ 15 BPM.  
Treated @ ave press of 1800 psi w/ave rate  
of 32.6 BPM. ISIP: 2300 psi.

8/31/98 4113'-4126' Frac GB sands as follows:  
RU BJ Services & frac GB sds w/97,592#  
20/40 sd in 480 bbls Viking I-25 fluid.  
Perf broke dn @ 3500 psi. Treated @ ave  
press of 1860 psi w/ave rate of 24 BPM.  
ISIP: 2050 psi.

3/26/02 Workover: Update rod and tubing details.  
4/15/02 Pump change: Update rod details.



**PERFORATION RECORD**

Date	Depth Range	Hole Count
8/21/98	5408' - 5419'	4 JSPP 44 holes
8/25/98	5059' - 5064'	4 JSPP 20 holes
8/25/98	5077' - 5082'	4 JSPP 20 holes
8/27/98	4741' - 4752'	4 JSPP 44 holes
8/27/98	4826' - 4832'	4 JSPP 24 holes
8/27/98	4892' - 4899'	4 JSPP 28 holes
8/29/98	4113' - 4126'	4 JSPP 52 holes

**Inland Resources Inc.**  
 Castle Draw #8-9-9-17  
 1980 FNL & 660 FEL  
 SENE Section 9-T9S-R17E  
 Duchesne Co, Utah  
 API #43-013-32078; Lease #U-74806

MC 11/3/02

## APPENDIX B

### LOGGING AND TESTING REQUIREMENTS

#### Logs.

Logs will be conducted according to current UIC guidance. It is the responsibility of the permittee to obtain and use guidance prior to conducting any well logging required as a condition of this permit.

WELL NAME: Castle Draw #8-9-9-17	
TYPE OF LOG	DATE DUE
Noise Log	180 days after authorization to inject
TEMP	180 days after authorization to inject
RATS	180 days after authorization to inject
CBL/VDL/GAMMA RAY	180 days after authorization to inject

#### Tests.

Tests will be conducted according to current UIC guidance. It is the responsibility of the permittee to obtain and use guidance prior to conducting any well test required as a condition of this permit.

WELL NAME: Castle Draw #8-9-9-17	
TYPE OF TEST	DATE DUE
Pore Pressure	Prior to injection
Step Rate Test	3 to 6 months after commencing injection
Radioactive Tracer Survey (2)	180 days after authorization to inject
Standard Annulus Pressure	Prior to injection

# APPENDIX C

## OPERATING REQUIREMENTS

### MAXIMUM ALLOWABLE INJECTION PRESSURE:

Maximum Allowable Injection Pressure (MAIP) as measured at the surface shall not exceed the pressure(s) listed below.

WELL NAME	MAXIMUM ALLOWED INJECTION PRESSURE (psi)
	ZONE 1 (Upper)
Castle Draw #8-9-9-17	1,130

### INJECTION INTERVAL(S):

Injection is permitted only within the approved injection interval listed below. Injection perforations may be altered provided they remain within the approved injection interval and the Permittee provides notice to the Director in accordance with Part II, Section A, Paragraph 6. Specific injection perforations can be found in Appendix A.

WELL NAME: Castle Draw #8-9-9-17	APPROVED INJECTION INTERVAL (KB, ft)		FRACTURE GRADIENT (psi/ft)
	TOP	BOTTOM	
FORMATION NAME Green River: Garden Gulch-Douglas Creek-Basal Carbonate Members	3,580.00 - 5,895.00		0.710

### ANNULUS PRESSURE:

The annulus pressure shall be maintained at zero (0) psi as measured at the wellhead. If this pressure cannot be maintained, the Permittee shall follow the procedures listed under Part II, Section C. 6. Of this permit.

### MAXIMUM INJECTION VOLUME:

There is no limitation on the number of barrels per day (bbls/day) of water that shall be injected into this well, provided further that in no case shall injection pressure exceed that limit shown in Appendix C.

## APPENDIX D

### MONITORING AND REPORTING PARAMETERS

This is a listing of the parameters required to be observed, recorded, and reported. Refer to the permit Part II, Section D, for detailed requirements for observing, recording, and reporting these parameters.

OBSERVE MONTHLY AND RECORD AT LEAST ONCE EVERY THIRTY DAYS	
<b>OBSERVE AND RECORD</b>	Injection pressure (psig)
	Annulus pressure(s) (psig)
	Injection rate (bbl/day)
	Fluid volume injected since the well began injecting (bbls)

ANNUALLY	
<b>ANALYZE</b>	Injected fluid total dissolved solids (mg/l)
	Injected fluid specific gravity
	Injected fluid specific conductivity
	Injected fluid pH

ANNUALLY	
<b>REPORT</b>	Each month's maximum and averaged injection pressures (psig)
	Each month's maximum and averaged annulus pressure(s) (psig)
	Each month's averaged injection rate (bbl/day)
	Fluid volume injected since the well began injecting (bbl)
	Written results of annual injected fluid analysis
	Sources of all fluids injected during the year

Records of all monitoring activities must be retained and made available for inspection at the following location:

**Inland Production Company**  
**410 Seventeenth Street - Suite 700**  
**Denver, CO 80202**

## APPENDIX E

### PLUGGING AND ABANDONMENT REQUIREMENTS

The operator will set 9.2# gel between all plugs.

PLUG NO. 1: Set Cast Iron Bridge Plug (CIBP) at 4015 feet. Place 100 sacks of Class "G" cement on top of CIBP.

PLUG NO. 2: Set 200-foot balanced plug 2000 feet to 2200 feet using Class "G" cement.

PLUG NO. 3: Set cement plug inside of the 5-1/2 inch casing from the surface to a depth of 376 feet.

PLUG NO. 4: Set cement plug in the annulus between the 5-1/2 inch casing and the surface casing from the surface to a depth of 376 feet.

## APPENDIX F

### CORRECTIVE ACTION REQUIREMENTS

For the three (3) oil wells in the one-quarter (1/4) mile Area-of-Review (Castle Draw No. 1-9-9-17, Balcron Monument Federal No. 12-10Y-9-17, Pleasant Valley No. 7-9-9-17) no Corrective Actions are required. However, the operator shall observe the surface location of each well, on a weekly basis, for any injectate. Should any fluid injectate be observed at the surface location of any of the three (3) AOR wells, the Castle Draw No. 8-9-9-17 will be shut-in until the noncompliance has been resolved, and the operator has received written authority from the Director to commence injection.

**DIVISION OF OIL, GAS AND MINING  
UNDERGROUND INJECTION CONTROL PROGRAM  
PERMIT  
STATEMENT OF BASIS**

**Applicant:** Inland Production Company                      **Well:** Castle Draw 8-9-9-17

**Location:** 9/9S/17E                                              **API:** 43-013-32078

**Ownership Issues:** The proposed well is located on BLM land. The well is located in the Black Jack Unit. Lands in the one-half mile radius of the well are administered by the BLM. The Federal Government is the mineral owner within the area of review. Inland and other various 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 Black Jack 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 326 feet and has a cement top at the surface. A 5 ½ inch production casing is set at 5603 feet. A cement bond log demonstrates adequate bond in this well up to 1,948 feet. A 2 7/8 inch tubing with a packer will be set at 4,078. A mechanical integrity test will be run on the well prior to injection. There are 3 producing wells and 4 injection wells 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 100 feet. Injection shall be limited to the interval between 3884 feet and 5635 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 8-9-9-17 well is .71 psi/ft. which was the lowest reported fracture gradient for the injection zone. The resulting minimum fracture pressure for the proposed injection interval is 1487 psig. The requested maximum pressure is 1487 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.

**Castle Draw 8-9-9-17**

**page 2**

**Oil/Gas& Other Mineral Resources Protection:** The Board of Oil, Gas & Mining approved the Black Jack Unit December 22, 1999 . 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 02/19/2003

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

5. LEASE DESIGNATION AND SERIAL NUMBER:  
UTU78560X

**SUNDRY NOTICES AND REPORTS ON WELLS**

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

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

7. UNIT or CA AGREEMENT NAME:  
BLACKJACK UNIT

1. TYPE OF WELL: OIL WELL  GAS WELL  OTHER

8. WELL NAME and NUMBER:  
CASTLE DRAW 8-9-9-17

2. NAME OF OPERATOR:  
Inland Production Company

9. API NUMBER:  
4301332078

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: 1980 FNL 660 FEL

COUNTY: Duchesne

OTR/OTR. SECTION. TOWNSHIP. RANGE. MERIDIAN: SE/NE, 9, T9S, R17E

STATE: Utah

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

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

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.  
The subject well was converted from a producing to an injection well on 3/18/04. The rods and tubing anchor were removed and a packer was inserted in bottom hole assembly at 4065. On 3/22/04 Mr. Dan Jackson w/EPA was notified of the intent to conduct a MIT on the casing. On 3/22/04 the casing was pressured to 1120 psi w/ no pressure loss charted in the 1/2 hour test. No governmental agencies were able to witness the test.

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

**RECEIVED**

MAR 26 2004

DIV. OF OIL, GAS & MINING

NAME (PLEASE) Krishna Rusell

TITLE Production Clerk

SIGNATURE

*Krishna Russell*

DATE March 25, 2004

# Mechanical Integrity Test

## Casing or Annulus Pressure Mechanical Integrity Test

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

EPA Witness: \_\_\_\_\_ Date: 3 / 22 / 04  
 Test conducted by: FRIZ HENZIE  
 Others present: \_\_\_\_\_

Well Name: <u>CASTLE DRAW 8-9-9-17</u>	Type: ER SWD	Status: AC TA UC
Field: <u>BLACK JACK UNIT</u>		
Location: <u>SEINE</u> Sec: <u>9</u> T <u>9</u> N/S R <u>17</u> E/W	County: <u>DUCHESSNE</u>	State: <u>LIT</u>
Operator: <u>T. N. LAUD</u>		
Last MIT: <u>- / NA / -</u>	Maximum Allowable Pressure: <u>- NA -</u>	PSIG

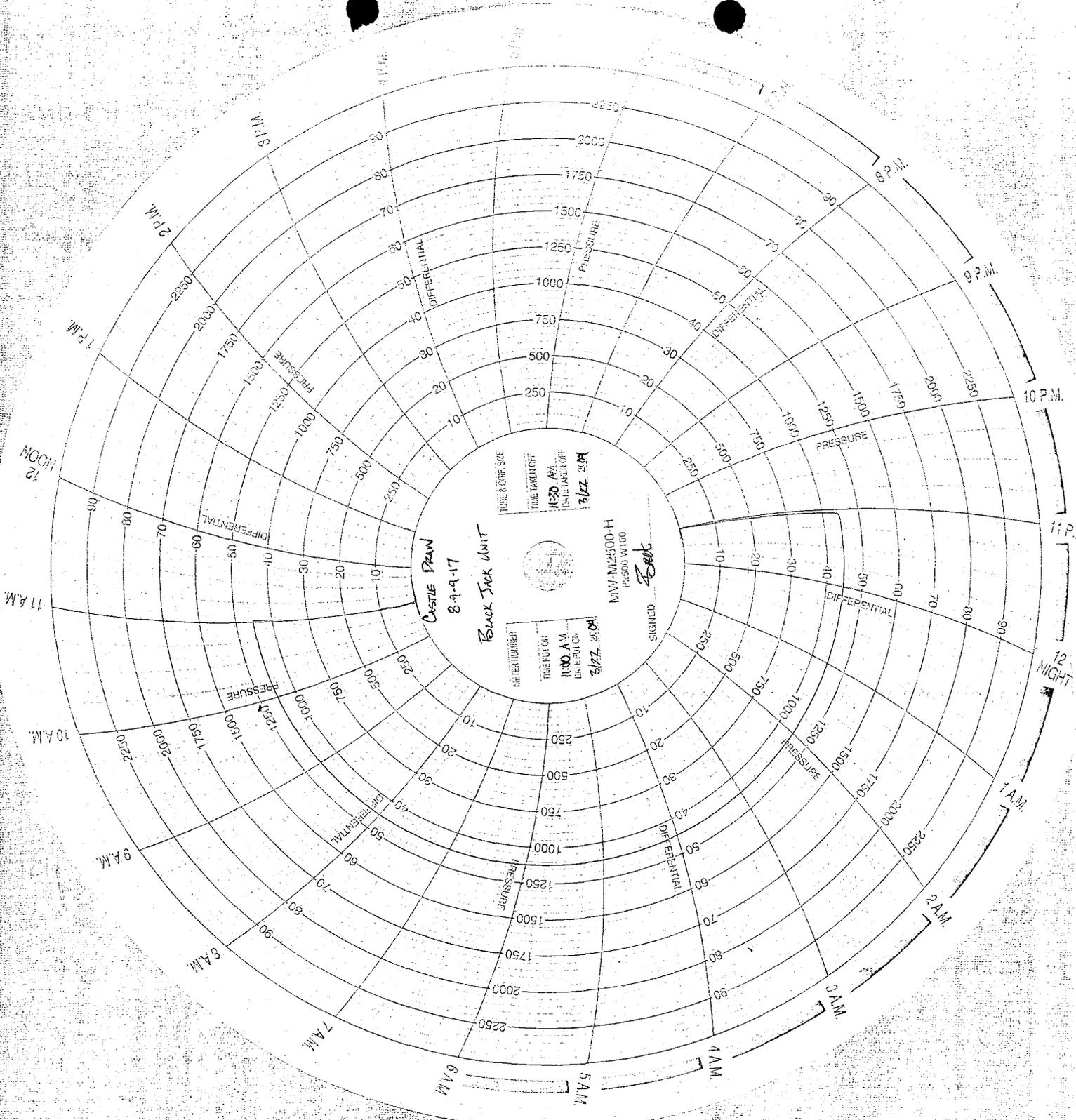
- Is this a regularly scheduled test?     Yes     No
- Initial test for permit?     Yes     No
- Test after well rework?     Yes     No
- Well injecting during test?     Yes     No    If Yes, rate: \_\_\_\_\_ bpd

Pre-test casing/tubing annulus pressure: 0 psig

MIT DATA TABLE	Test #1	Test #2	Test #3
<b>TUBING PRESSURE</b>			
Initial Pressure	0 psig	psig	psig
End of test pressure	0 psig	psig	psig
<b>CASING / TUBING ANNULUS PRESSURE</b>			
0 minutes	1120 psig	psig	psig
5 minutes	1120 psig	psig	psig
10 minutes	1120 psig	psig	psig
15 minutes	1120 psig	psig	psig
20 minutes	1125 psig	psig	psig
25 minutes	1125 psig	psig	psig
30 minutes	1130 psig	psig	psig
minutes	psig	psig	psig
minutes	psig	psig	psig
<b>RESULT</b>	<input checked="" type="checkbox"/> Pass <input type="checkbox"/> Fail	<input type="checkbox"/> Pass <input type="checkbox"/> Fail	<input type="checkbox"/> Pass <input type="checkbox"/> Fail

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





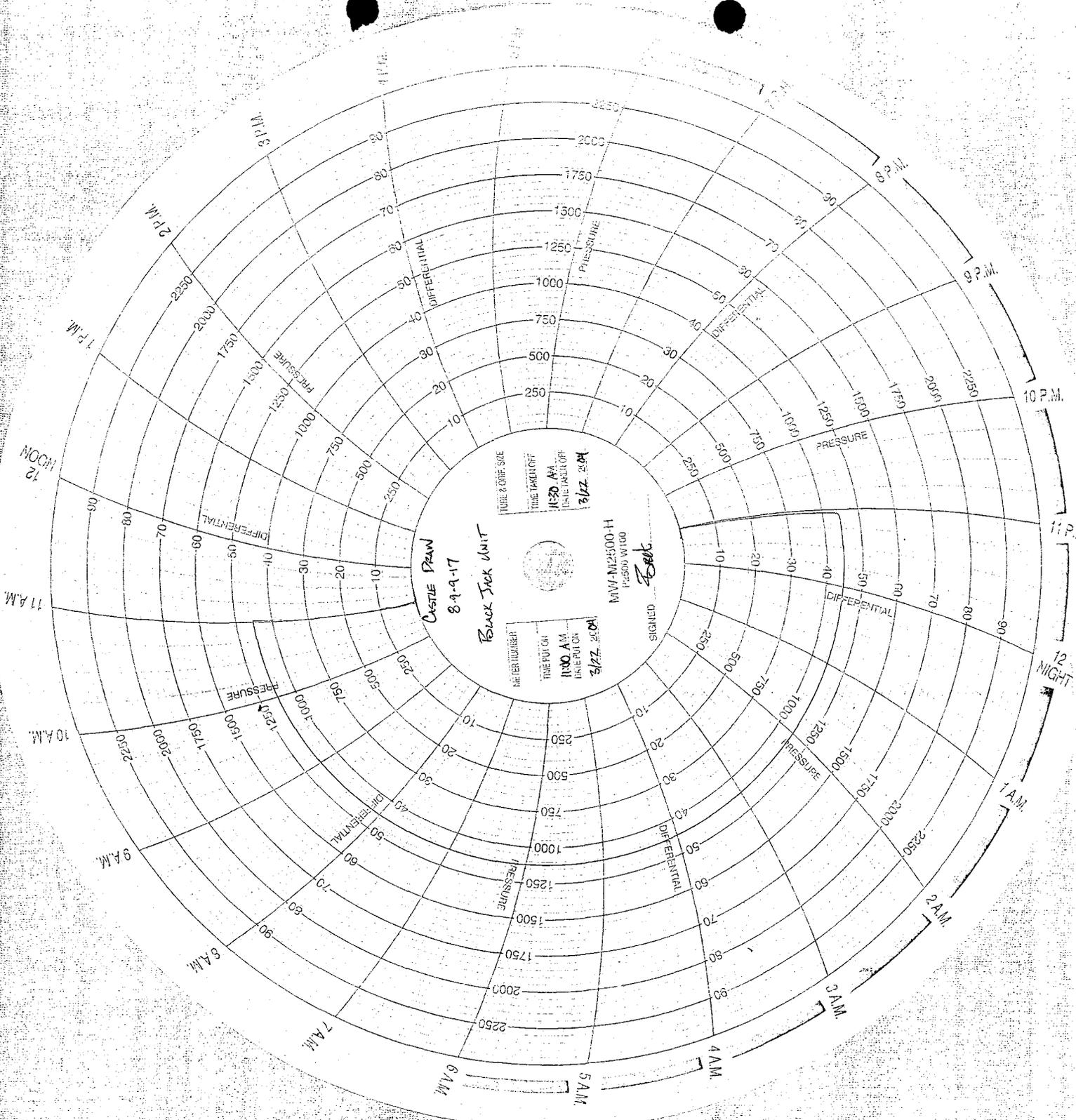
CASTLE DRAIN  
8-9-9-17  
Black Jack Unit

TUBE & GORE SIZE  
TRUE TRACK OFF  
1/32" A.M.  
DATE TAKEN OFF  
3/72 2004

MW-M2:100-H  
P-2500 W100

SIGNED  
*Bob*

METER NUMBER  
TRUE PUT ON  
1/30 A.M.  
DATE PUT ON  
3/72 2004





UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

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

RECEIVED

Ref: 8P-W-GW

APR 27 2004

APR 29 2004

CERTIFIED MAIL  
RETURN RECEIPT REQUESTED

DIV. OF OIL, GAS & MINING

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

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

RE: **180-Day Limited Authorization to Inject  
Castle Draw No. 8-9-9-17  
EPA Well Permit No. UT20944-06155  
SE NE Sec. 9 - T9S - R17E  
Duchesne County, Utah**

Dear Mr. Gerbig:

The Inland Production Company (Inland) submission of Prior to Commencing Injection documents, on March 25, 2004, did contain all information required to fulfill the Environmental Protection Agency's (EPA) Prior to Commencing Injection requirements, as cited in the Well Specific Permit UT20944-06155: Part II, Appendix B. 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 April 20, 2004.

The EPA is hereby authorizing injection into the Castle Draw No. 8-9-9-17 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". The maximum surface injection pressure shall not exceed 1130 psig.

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"**. Approved tests for demonstrating Part II (External) MI include a Temperature Survey, 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 (External) 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.

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 Part II (External) MI test, should be mailed directly to the **ATTENTION: DAN JACKSON**, at the letterhead address citing **MAIL CODE: 8P-W-GW** very prominently.

Sincerely,



*bu* Sandra A. Stavnes  
Director  
Ground Water Program

enclosures: EPA Guideline No. 37: Part II (External) MI  
EPA Guideline for Temperature Logging  
Oxygen Activation Logging  
Radioactive Tracer Survey

cc w/ enclosures: Mr. Mike Guinn  
Vice President - Operations  
Inland Production Company  
Route 3 - Box 3630  
Myton, UT 84502

cc w/o enclosures: Maxine Natchees  
Chairwoman  
Uintah & Ouray Business Committee  
Ute Indian Tribe  
P.O. Box 190  
Fort Duchesne, UT 84026

Elaine Willie  
Environmental Director  
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 of Oil, Gas, and Mining  
1594 West North Temple - Suite 1220  
Salt Lake City, UT 84111

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

Mr. Nathan Wiser, 8ENF-UFO

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

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

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

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

2. Name of Operator  
 Inland Production Company

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

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

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)  
 1980 FNL 660 FEL  
 SE/NE Section 9 T9S R17E

5. Lease Serial No.  
 UTU78560X

6. If Indian, Allottee or Tribe Name.

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

8. Well Name and No.  
 CASTLE DRAW 8-9-9-17

9. API Well No.  
 4301332078

10. Field and Pool, or Exploratory Area  
 Monument Butte

11. County or Parish, State  
 Duchesne, UT

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

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

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

The above referenced well was put on injection at 9:30 a.m. on 5/11/04.

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

I hereby certify that the foregoing is true and correct Name (Printed/ Typed) Mandie Crozier	Title Regulatory Specialist
Signature <i>Mandie Crozier</i>	Date 5/12/2004

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

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

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

(Instructions on reverse)

**RECEIVED**

**MAY 13 2004**

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

5. LEASE DESIGNATION AND SERIAL NUMBER:  
UTU74806

**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 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:  
BLACKJACK UNIT

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

8. WELL NAME and NUMBER:  
CASTLE DRAW 8-9-9-17

2. NAME OF OPERATOR:  
Newfield Production Company

9. API NUMBER:  
4301332078

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: 1980 FNL 660 FEL

COUNTY: Duchesne

QTR/QTR. SECTION, TOWNSHIP, RANGE, MERIDIAN: SE/NE, 9, T9S, R17E

STATE: Utah

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

TYPE OF ACTION

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:  10/08/2004	<input type="checkbox"/> CASING REPAIR	<input type="checkbox"/> NEW CONSTRUCTION	<input type="checkbox"/> TEMPORARITLY ABANDON
	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> TUBING REPAIR
	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> VENT OR FLAIR
	<input type="checkbox"/> CHANGE WELL NAME	<input type="checkbox"/> PLUG BACK	<input type="checkbox"/> WATER DISPOSAL
	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> PRODUCTION (START/STOP)	<input type="checkbox"/> WATER SHUT-OFF
	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input checked="" type="checkbox"/> OTHER: - Step Rate Test
	<input type="checkbox"/> CONVERT WELL TYPE	<input type="checkbox"/> RECOMPLETE - DIFFERENT FORMATION	

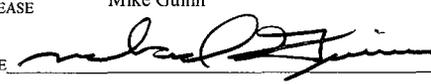
12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

A step rate test was conducted on the subject well on October 7, 2004. Results from the test indicate that the fracture gradient is .740 psi/ft. Therefore, Inland is requesting that the maximum allowable injection pressure (MAIP) be changed to 1255 psi.

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

NAME (PLEASE) Mike Guinn

TITLE Vice President of Op

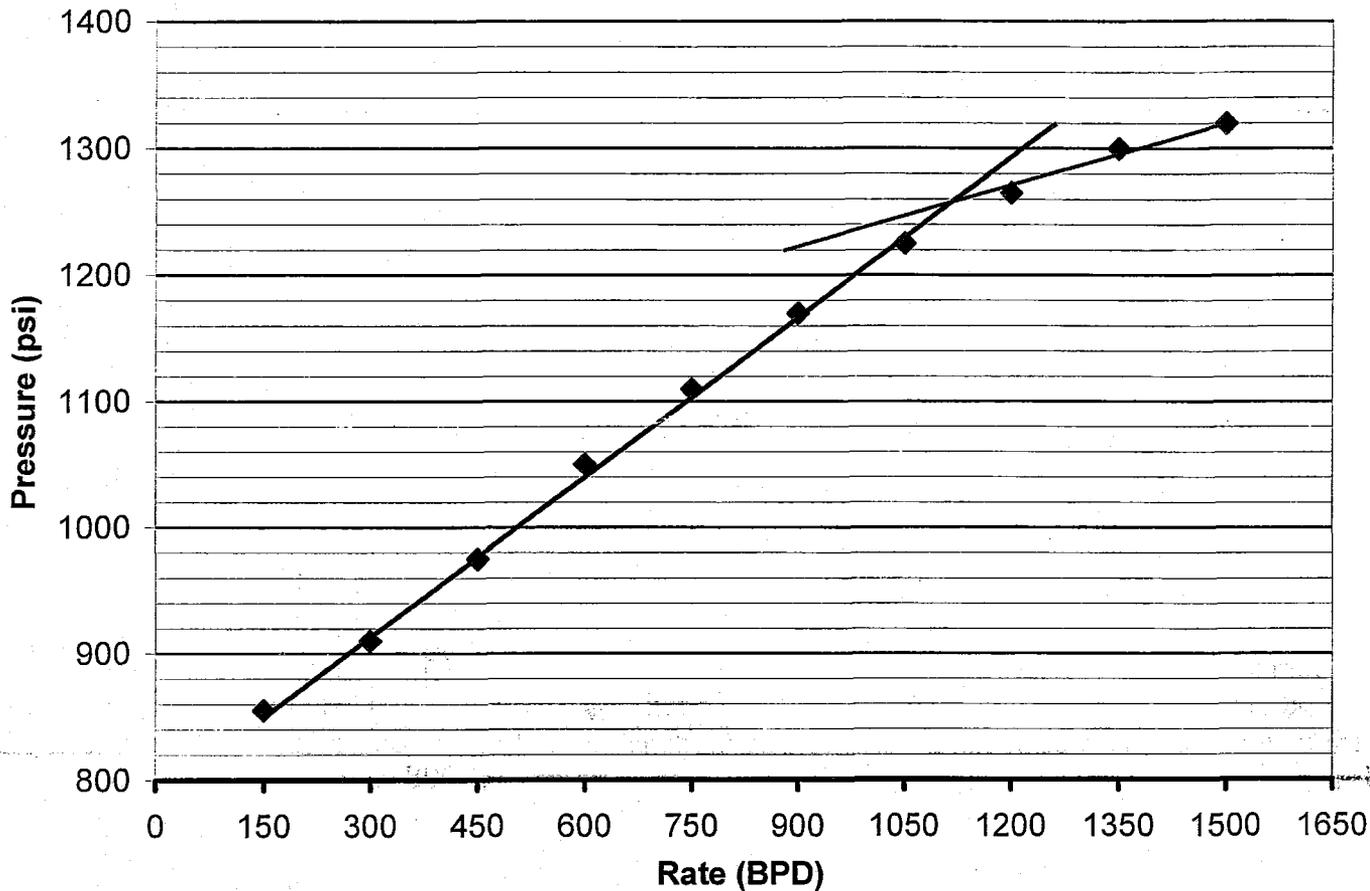
SIGNATURE 

DATE October 08, 2004

(This space for State use only)

**RECEIVED**  
**OCT 12 2004**  
DIV. OF OIL, GAS & MINING

Castle Draw 8-9-9-17  
 Black Jack Unit  
 Step Rate Test  
 October 7, 2004



Start Pressure: 830 psi  
 Instantaneous Shut In Pressure (ISIP): 1280 psi  
 Top Perforation: 4113 feet  
 Fracture pressure (Pfp): 1255 psi  
 FG: 0.740 psi/ft

Step	Rate(bpd)	Pressure(psi)
1	150	855
2	300	910
3	450	975
4	600	1050
5	750	1110
6	900	1170
7	1050	1225
8	1200	1265
9	1350	1300
10	1500	1320





# United States Department of the Interior

## BUREAU OF LAND MANAGEMENT

Utah State Office

P.O. Box 45155

Salt Lake City, UT 84145-0155

<http://www.blm.gov>



IN REPLY REFER TO:

3106

(UT-924)

September 16, 2004

### Memorandum

To: Vernal Field Office

From: Acting Chief, Branch of Fluid Minerals

Subject: Merger Approval

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

Michael Coulthard  
Acting Chief, Branch of  
Fluid Minerals

### Enclosure

1. State of Texas Certificate of Registration

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

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

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



Geoffrey S. Connor  
Secretary of State

## Office of the Secretary of State

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

Newfield Production Company  
Filing Number: 41530400

Articles of Amendment

September 02, 2004

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



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

Secretary of State

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

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

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

ARTICLE 1 – Name

The name of the corporation is Inland Production Company.

ARTICLE 2 – Amended Name

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

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

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

ARTICLE 3 – Effective Date of Filing

This document will become effective upon filing.

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

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

INLAND RESOURCES INC.

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

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: Inland Production Company  
 Address: 1401 17th Street Suite 1000  
city Denver state Co zip 80202  
 Phone: (303) 893-0102  
 Comments:

Name: Brian Harris  
 Signature: *Brian Harris*  
 Title: Engineering Tech.  
 Date: 9/15/2004

NEW OPERATOR

Company: Newfield Production Company  
 Address: 1401 17th Street Suite 1000  
city Denver state Co zip 80202  
 Phone: \_\_\_\_\_  
 Comments:

Name: Brian Harris  
 Signature: *Brian Harris*  
 Title: Engineering Tech.  
 Date: 9/15/2004

(This space for State use only)

Transfer approved by: *A. Hunt*  
 Title: *Perk. Services Manager*

Approval Date: 9-20-04

Comments: Note: Indian Country wells will require EPA approval.

RECEIVED  
SEP 20 2004  
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**

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

**CA No.** **Unit:** **BLACKJACK (GR)**

<b>WELL(S)</b>									
NAME	SEC	TWN	RNG	API NO	ENTITY NO	LEASE TYPE	WELL TYPE	WELL STATUS	
BLACKJACK FED 9-33-8-17	33	080S	170E	4301332515	12704	Federal	OW	P	K
BLACKJACK FED 16-3-9-17	03	090S	170E	4301332500	12704	Federal	OW	P	K
BLACKJACK FED 15-3-9-17	03	090S	170E	4301332501	12704	Federal	OW	P	K
CASTLE DRAW 5-4-9-17	04	090S	170E	4301332074	12704	Federal	OW	P	
CASTLE DRAW 6-4-9-17	04	090S	170E	4301332075	12704	Federal	WI	A	
CASTLE DRAW 8-4-9-17	04	090S	170E	4301332077	12704	Federal	OW	S	
CASTLE DRAW 9-4-9-17	04	090S	170E	4301332079	12704	Federal	OW	P	
CASTLE DRAW 11-4-9-17	04	090S	170E	4301332081	12704	Federal	OW	S	
CASTLE DRAW 12-4-9-17	04	090S	170E	4301332082	12704	Federal	WI	A	
CASTLE DRAW 15-4-9-17	04	090S	170E	4301332083	12704	Federal	OW	P	
BLACKJACK FED 10-4-9-17	04	090S	170E	4301332509	12704	Federal	OW	P	K
CASTLE DRAW 1-9-9-17	09	090S	170E	4301332071	12704	Federal	OW	P	
CASTLE DRAW 8-9-9-17	09	090S	170E	4301332078	12704	Federal	WI	A	
BLACKJACK FED 16-9-9-17	09	090S	170E	4301332516	12704	Federal	OW	P	K
BLACKJACK FED 15-10-9-17	10	090S	170E	4301332503	12704	Federal	OW	OPS	K
BLACKJACK FED 13-10-9-17	10	090S	170E	4301332504	12704	Federal	OW	P	K
BLACKJACK FED 12-10-9-17	10	090S	170E	4301332505	12704	Federal	OW	P	K
BLACKJACK FED 11-10-9-17	10	090S	170E	4301332506	12704	Federal	OW	P	K
BLACKJACK FED 4-10-9-17	10	090S	170E	4301332507	12704	Federal	OW	P	K
BLACKJACK FED 2-10-9-17	10	090S	170E	4301332508	12704	Federal	OW	P	K

**OPERATOR CHANGES DOCUMENTATION**

Enter date after each listed item is completed

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

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

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

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

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

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

**DATA ENTRY:**

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

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

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

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

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

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

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

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

**LEASE INTEREST OWNER NOTIFICATION:**

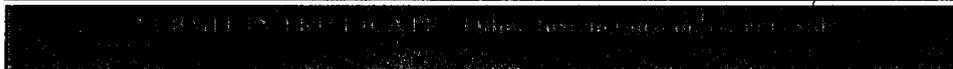
3. (R649-2-10) The FORMER operator of the fee wells has been contacted and informed by a letter from the Division of their responsibility to notify all interest owners of this change on: n/a

**COMMENTS:**

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

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

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



1. Type of Well  
 Oil Well    Gas Well    Other WCI

2. Name of Operator  
 NEWFIELD PRODUCTION COMPANY

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

3b. Phone    (include are code)  
                   435.646.3721

4. Location of Well    (Footage, Sec., T., R., M., or Survey Description)  
 1980 FNL 660 FEL  
 SENE Section 9 T9S R17E

5. Lease Serial No.  
 UTU-74806

6. If Indian, Allottee or Tribe Name.

7. If Unit or CA/Agreement, Name and/or  
 BLACKJACK UNIT

8. Well Name and No.  
 CASTLE DRAW 8-9-9-17

9. API Well No.  
 4301332078

10. Field and Pool, or Exploratory Area  
 MONUMENT BUTTE

11. County or Parish, State  
 DUCHESNE, UT

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

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

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

A step rate test was conducted on the subject well on October 26, 2006. Results from the test indicate that the fracture gradient is .761 psi/ft. Therefore, Newfield is requesting that the maximum allowable injection pressure (MAIP) be changed to 1340 psi.

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

**RECEIVED**  
**NOV 16 2006**  
DIV. OF OIL, GAS & MINING

I hereby certify that the foregoing is true and correct (Printed/ Typed)  
 Chevenne Bateman

Signature

Title  
Well Analyst Foreman

Date  
11/14/2006

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

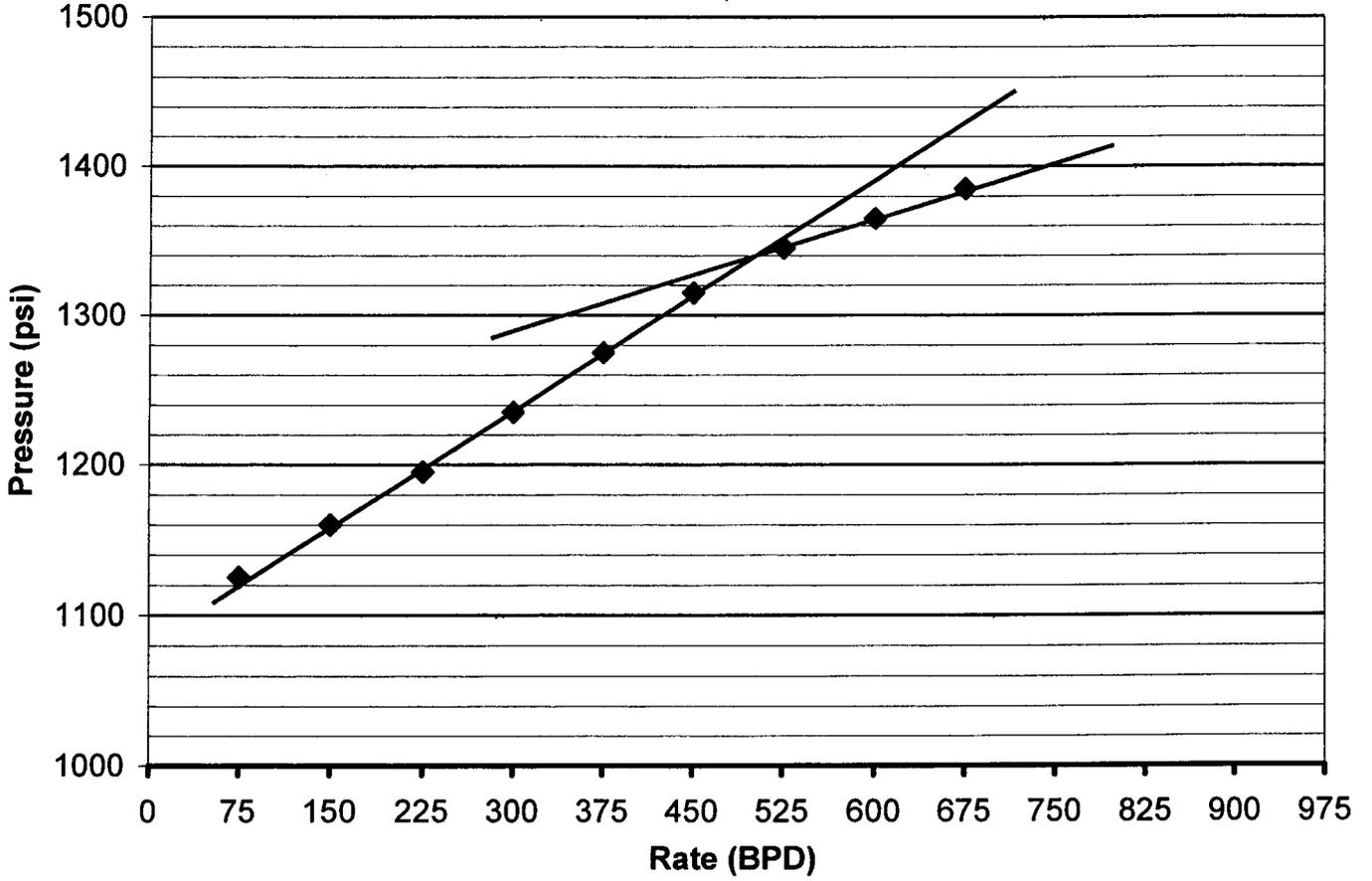
Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

Office \_\_\_\_\_

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

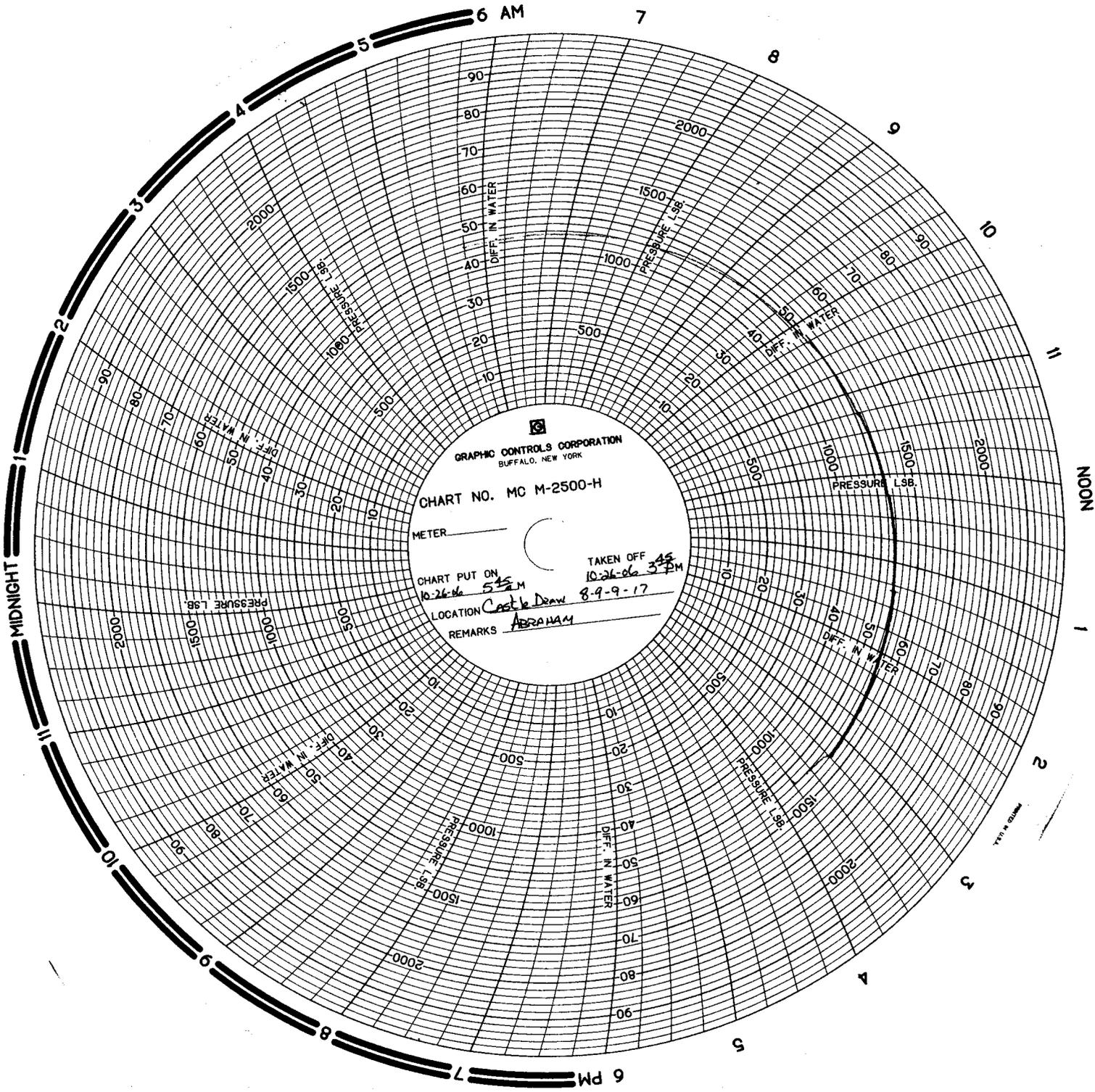
(Instructions on reverse)

**Castle Draw 8-9-9-17  
Blackjack Unit  
Step Rate Test  
October 26, 2006**



**Start Pressure:** 1120 psi  
**Instantaneous Shut In Pressure (ISIP):** 1385 psi  
**Top Perforation:** 4113 feet  
**Fracture pressure (Pfp):** 1340 psi  
**FG:** 0.761 psi/ft

<u>Step</u>	<u>Rate(bpd)</u>	<u>Pressure(psi)</u>
1	75	1125
2	150	1160
3	225	1195
4	300	1235
5	375	1275
6	450	1315
7	525	1345



GRAPHIC CONTROLS CORPORATION  
BUFFALO, NEW YORK

CHART NO. MC M-2500-H

METER \_\_\_\_\_

CHART PUT ON  
10-26-66 5:45 AM

TAKEN OFF  
10-26-66 3:45 PM

LOCATION Cast le Draw

REMARKS ABRAHAM

TYPE A GRAPH

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

5. LEASE DESIGNATION AND SERIAL NUMBER:  
USA UTU-75078

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

7. UNIT or CA AGREEMENT NAME:  
BLACKJACK UNIT

8. WELL NAME and NUMBER:  
CASTLE DRAW 8-9-9-17

9. API NUMBER:  
4301332078

10. FIELD AND POOL, OR WILDCAT:  
MONUMENT BUTTE

**SUNDRY NOTICES AND REPORTS ON WELLS**

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

1. TYPE OF WELL: OIL WELL  GAS WELL  OTHER

2. NAME OF OPERATOR:  
NEWFIELD PRODUCTION COMPANY

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

4. LOCATION OF WELL:  
FOOTAGES AT SURFACE: 1980 FNL 660 FEL COUNTY: DUCHESNE

OTR/OTR. SECTION. TOWNSHIP. RANGE. MERIDIAN: SENE, 9, T9S, R17E STATE: UT

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

TYPE OF SUBMISSION	TYPE OF ACTION		
<input type="checkbox"/> NOTICE OF INTENT (Submit in Duplicate) Approximate date work will	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> REPERFORATE CURRENT FORMATION
	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> SIDETRACK TO REPAIR WELL
	<input type="checkbox"/> CASING REPAIR	<input type="checkbox"/> NEW CONSTRUCTION	<input type="checkbox"/> 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 checked="" type="checkbox"/> SUBSEQUENT REPORT (Submit Original Form Only) Date of Work Completion:	<input type="checkbox"/> CHANGE WELL NAME	<input type="checkbox"/> PLUG BACK	<input type="checkbox"/> WATER DISPOSAL
02/05/2009	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> PRODUCTION (START/STOP)	<input type="checkbox"/> WATER SHUT-OFF
	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input checked="" type="checkbox"/> OTHER: - Five Year MIT
	<input type="checkbox"/> CONVERT WELL TYPE	<input type="checkbox"/> RECOMPLETE - DIFFERENT FORMATION	

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

On 1/22/09 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 2/5/09. On 2/5/09 the csg was pressured up to 1050 psig and charted for 30 minutes with no pressure loss. The well was not injecting during the test. The tbg pressure was 1300 psig during the test. There was not an EPA representative available to witness the test.

EPA# UT 20944-06155 API# 43-013-32078

**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 02/06/2009

(This space for State use only)

**RECEIVED**  
**FEB 09 2009**  
DIV. OF OIL, GAS & MINING

# Mechanical Integrity Test

## Casing or Annulus Pressure Mechanical Integrity Test

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

EPA Witness: \_\_\_\_\_ Date: 2 / 5 / 2009  
 Test conducted by: Ted Whitehead  
 Others present: \_\_\_\_\_

Well Name: <u>Castle Draw 8-9-9-17</u>	Type: ER SWD	Status: AC TA UC
Field: <u>MONUMENT BUTTE</u>		
Location: <u>SE/NE</u> Sec: <u>9</u> T <u>9</u> N/S R <u>17</u> E/W	County: <u>DUCHESSNE</u> State: <u>WY</u>	
Operator: <u>Newfield Exploration</u>		
Last MIT: <u>  </u> / <u>  </u> / <u>  </u>	Maximum Allowable Pressure: <u>1340</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

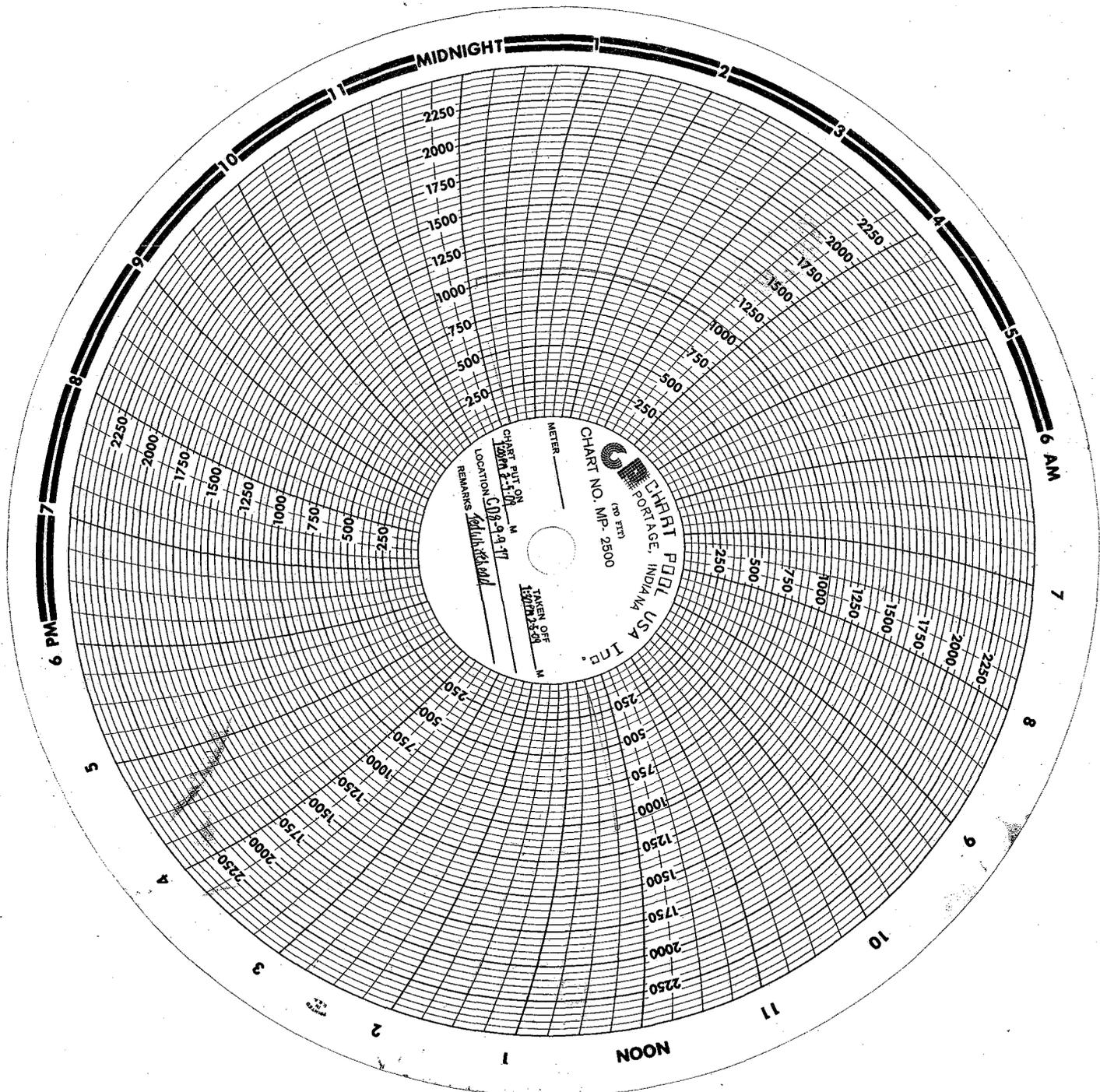
MIT DATA TABLE	Test #1	Test #2	Test #3
<b>TUBING PRESSURE</b>			
Initial Pressure	1300 psig	psig	psig
End of test pressure	1300 psig	psig	psig
<b>CASING / TUBING ANNULUS PRESSURE</b>			
0 minutes	1050 psig	psig	psig
5 minutes	1050 psig	psig	psig
10 minutes	1050 psig	psig	psig
15 minutes	1050 psig	psig	psig
20 minutes	1050 psig	psig	psig
25 minutes	1050 psig	psig	psig
30 minutes	1050 psig	psig	psig
_____ minutes	psig	psig	psig
_____ minutes	psig	psig	psig
<b>RESULT</b>	<input checked="" type="checkbox"/> Pass <input type="checkbox"/> Fail	<input type="checkbox"/> Pass <input type="checkbox"/> Fail	<input type="checkbox"/> Pass <input type="checkbox"/> Fail

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

### MECHANICAL INTEGRITY PRESSURE TEST

Additional comments for mechanical integrity pressure test, such as volume of fluid added to annulus and bled back at end of test, reason for failing test (casing head leak, tubing leak, other), etc.:

Signature of Witness: \_\_\_\_\_



<b>STATE OF UTAH</b> DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		<b>FORM 9</b>
<b>SUNDRY NOTICES AND REPORTS ON WELLS</b>  Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.		<b>5. LEASE DESIGNATION AND SERIAL NUMBER:</b> UTU-74806
<b>1. TYPE OF WELL</b> Water Injection Well		<b>6. IF INDIAN, ALLOTTEE OR TRIBE NAME:</b>
<b>2. NAME OF OPERATOR:</b> NEWFIELD PRODUCTION COMPANY		<b>7. UNIT or CA AGREEMENT NAME:</b> GMBU (GRRV)
<b>3. ADDRESS OF OPERATOR:</b> Rt 3 Box 3630 , Myton, UT, 84052		<b>8. WELL NAME and NUMBER:</b> CASTLE DRAW 8-9-9-17
<b>4. LOCATION OF WELL</b> <b>FOOTAGES AT SURFACE:</b> 1980 FNL 0660 FEL <b>QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:</b> Qtr/Qtr: SENE Section: 09 Township: 09.0S Range: 17.0E Meridian: S		<b>9. API NUMBER:</b> 43013320780000
<b>PHONE NUMBER:</b> 435 646-4825 Ext		<b>9. FIELD and POOL or WILDCAT:</b> MONUMENT BUTTE
<b>COUNTY:</b> DUCHESNE		<b>STATE:</b> UTAH
11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA		
<b>TYPE OF SUBMISSION</b>	<b>TYPE OF ACTION</b>	
<input type="checkbox"/> NOTICE OF INTENT Approximate date work will start:	<input type="checkbox"/> ACIDIZE <input type="checkbox"/> ALTER CASING <input type="checkbox"/> CASING REPAIR <input type="checkbox"/> CHANGE TO PREVIOUS PLANS <input type="checkbox"/> CHANGE TUBING <input type="checkbox"/> CHANGE WELL NAME <input type="checkbox"/> CHANGE WELL STATUS <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS <input type="checkbox"/> CONVERT WELL TYPE <input checked="" type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion: 11/9/2012	
<input type="checkbox"/> SPUD REPORT Date of Spud:	<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"/> WILDCAT WELL DETERMINATION <input checked="" type="checkbox"/> OTHER	
<input type="checkbox"/> DRILLING REPORT Report Date:	<input type="checkbox"/> APD EXTENSION OTHER: <span style="border: 1px solid black; padding: 2px;">Workover MIT/Concentric Inj</span>	
12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc. <p>The above subject well had workover procedures performed - Water Isolation/Concentric Injection, attached is a daily status report. On 11/05/2012 Sarah Roberts with the EPA was contacted concerning the MIT on the above listed well. On 11/09/2012 the csg was pressured up to 1100 psig and charted for 30 minutes with no pressure loss. The well was not injecting during the test. The tbg pressure for the 1.9 tbg was 450 psig and the tbg pressure for the 2-7/8" was 500 psig during the test. There was not an EPA representative available to witness the test. Newfield will identify this well as Castle Draw 8-9-9-17D</p>		
<b>Accepted by the          Utah Division of          Oil, Gas and Mining          FOR RECORD ONLY          November 19, 2012</b>		
<b>NAME (PLEASE PRINT)</b> Lucy Chavez-Naupoto	<b>PHONE NUMBER</b> 435 646-4874	<b>TITLE</b> Water Services Technician
<b>SIGNATURE</b> N/A	<b>DATE</b> 11/13/2012	

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

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

EPA Witness: \_\_\_\_\_ Date: 11/19/12  
 Test conducted by: Chris Walters  
 Others present: \_\_\_\_\_

Well Name: <u>Castle Draw 8-9-9-17</u>	Type: ER SWD	Status: AC TA UC
Field: <u>Monument Butte</u>		
Location: <u>SE/NE</u> Sec: <u>9</u> T: <u>9</u> N/S: <u>R17E</u> W: _____	County: <u>Duchesne</u>	State: <u>UT</u>
Operator: <u>Newfield</u>		
Last MIT: <u>1</u> / <u>1</u>	Maximum Allowable Pressure: _____	PSIG

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

Pre-test casing/tubing annulus pressure: 1100 psig

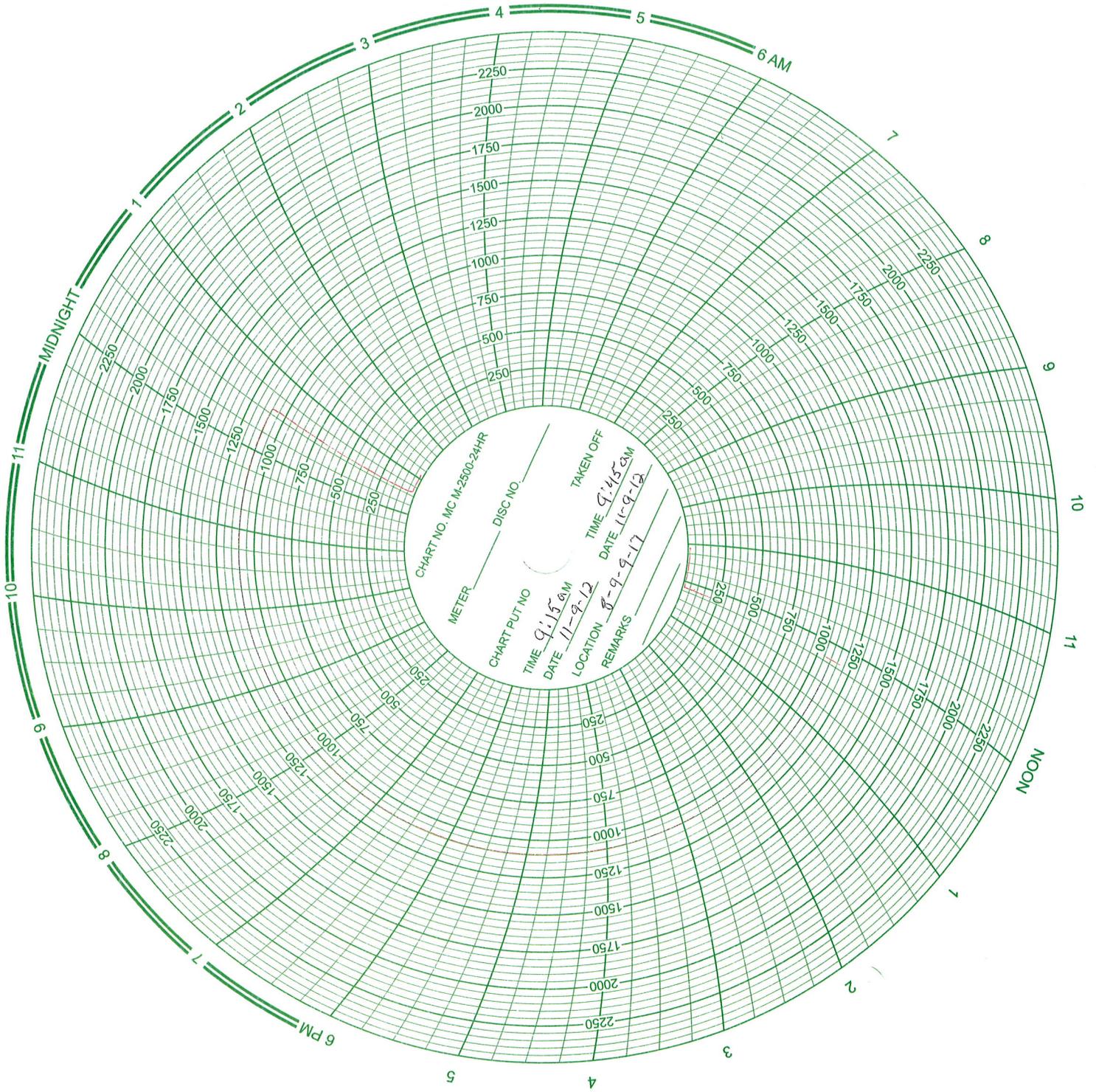
MIT DATA TABLE	Test #1 <u>2 7/8</u>	Test #2 <u>6 9</u>	Test #3
<b>TUBING PRESSURE</b>			
Initial Pressure	<u>500</u> psig	<u>700</u> psig	psig
End of test pressure	<u>500</u> psig	<u>700</u> psig	psig
<b>CASING/TUBING ANNULUS PRESSURE</b>			
0 minutes	<u>1100</u> psig	psig	psig
5 minutes	<u>1100</u> psig	psig	psig
10 minutes	<u>1100</u> psig	psig	psig
15 minutes	<u>1100</u> psig	psig	psig
20 minutes	<u>1100</u> psig	psig	psig
25 minutes	<u>1100</u> psig	psig	psig
30 minutes	<u>1100</u> psig	psig	psig
_____ minutes	psig	psig	psig
_____ minutes	psig	psig	psig
<b>RESULT</b>	<input type="checkbox"/> Pass <input type="checkbox"/> Fail	<input type="checkbox"/> Pass <input type="checkbox"/> Fail	<input type="checkbox"/> Pass <input type="checkbox"/> Fail

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

### MECHANICAL INTEGRITY PRESSURE TEST

Additional comments for mechanical integrity pressure test, such as volume of fluid added to annulus and bled back at end of test, reason for failing test (casing head leak, tubing leak, other), etc.:

Signature of Witness: \_\_\_\_\_



## Daily Activity Report

### Format For Sundry

### CASTLE DRAW 8-9-9-17

9/1/2012 To 1/30/2013

**11/5/2012 Day: 1**

**Workover**

WWS #5 on 11/5/2012 - Rig up, start Concentric Conversion - Crew travel and safety meeting. Load out and move from the 11-28-8-17 to the 8-9-9-17. MIRU, ck PSI, 890 PSI, Flowback for 4.5 hrs. Nd well head, Release PKR, Strip on BOP's. Flush with 30 BBLs fresh H2O. Having trouble circ Around PKR. Pump 5 BBLs 15% HCl, 5 BBLs fresh H2O, Lost circ. Had to flow acid back out of both tubings. TOOH w/20 JTS,

**Daily Cost:** \$0

**Cumulative Cost:** \$22,522

---

**11/6/2012 Day: 2**

**Workover**

WWS #5 on 11/6/2012 - Continue Concentric Conversion - Crew travel and Safety meeting. CK PSI, Flowback cont TOOH tally. w/132jts, 2 7/8 TBG. Ld PKR Pu and TIH w/ 43 jts and TIH 4 3/4" bit. 5 1/2. csg scraper, 132 jts 2 7/8 tbg. 43 jts 2 7/8 TBG. PU and talley 43 TBG. Tag @5418 LD1 Jt, TOOH Breaking Collars redoping 42 jts 2 7/8 j-55 TBG. TIH w/same. Pump 10 BBLs fresh H2O. Pump down S.V.w/30 BBLs, Test TBG, to 3500 PSI-ok RU, RIH w/sandline, ret s.v. Ru Power swivel, could not pump down tubing. Work for two hours with no luck. Hang back power swivel, wet TOOH w/42 JTS 2 7/8 TBG. Eot @ 4069' cwie 5:30. crew travel. Tagged again w/ tbg @ 5410.

**Daily Cost:** \$0

**Cumulative Cost:** \$28,707

---

**11/7/2012 Day: 3**

**Workover**

WWS #5 on 11/7/2012 - Working on Concentric Conversion - Crew travel and safety meeting. KC PSI, 400 CSG, 0 TBG. CONT TIH w/TBG, scraper Bit-10' of fill above bit. TIH w/Bit, Bit sub, PSN, 174 JTS 2-7/8. tbg. RU Power Swivel, Circ well @ 45 BPM @ 500PSI. Clean out to 5514' CIRC Clean, TOOH w/8 JTS. EOT @ 5293' Wait 2 HRS, Check Fluid level check for fill - no fill. LD 4 JTS TBG 2-7/8 TBG. TOOH w/174 JTS, LD 4-3/4 bitRD Floor, TBG works, Strip off BOP's. Change out tubing head. NU same, NU BOP's, RU Floor, TBG Works, TIH w/re-entry guide, 1JT 5-1/2 arrow, set, PBr sub Perf sub, 15 JTS, Perf sub, x-nipple, 26 Jts, HRP PRR, JTS 2-7/8 TBG EOT @ 4797. Drain Pumps, Lines, CWI@6:00. Crew Travel

**Daily Cost:** \$0

**Cumulative Cost:** \$35,267

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**11/8/2012 Day: 4**

**Workover**

WWS #5 on 11/8/2012 - Move Off Location - Crew travel and Safety MTG. CK PSI 280 PSI CSG, 405 PSI TBG. Blow down, cont TIH/19 JTS 2-7/8 TBG. RD floor, TBG works, Strip off BOP's Set 5-1/2 arrow set 1 w/5000# TensionCE @ 5338. LAND w/Donut hanger, Pum[ to BBLs PKR FLD, Pump down SU w/25 BBLs H2O test TBG @ 2800 PSI-OK. PSI TBG up to 3400 PSI, Set HRP PKR, @ 4071' Hold PSI for 15 MIN. Hanger spool, RIH w/sandline, Ret x-plug. Test CSG to HRP PKR @ 1400 PSI - OK. X-over to 1.90 TBG, Change Rams, RU Floor, TBG works RU and Tally. 1.90 stinger 158 JTS 1.90 tbg. Space but with /1-10, 1-8, 1-4, 1.90m pup JTS/ jt 1.90 TBG, Land w/ Donut hanger @ 5000 COMP LOC. 5348' FOT @ 5353' Shut blind Rams above hanger CWI @ 5:00. Crew Travel, Safety meeting.

**Daily Cost:** \$0  
**Cumulative Cost:** \$41,707

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**11/12/2012 Day: 5**

**Workover**

Rigless on 11/12/2012 - Conduct MIT - On 11/05/2012 Sarah Roberts with the EPA was contacted concerning the MIT on the above listed well. On 11/09/2012 the csg was pressured up to 1100 psig and charted for 30 minutes with no pressure loss. The well was not injecting during the test. The tbg pressure for the 1.9 tubing was 725 psig and the tbg pressure for the 2-7/8 tubing was 500 psig during the test. There was not an EPA representative available to witness the test. **Finalized**

**Daily Cost:** \$0  
**Cumulative Cost:** \$83,559

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



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
REGION 8

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

RECEIVED

DEC 24 2012

DEC 19 2012

DIV. OF OIL, GAS & MINING

Ref: 8ENF-UFO

CERTIFIED MAIL 7009-3410-0000-2599-7617  
RETURN RECEIPT REQUESTED

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

Re: Underground Injection Control (UIC)  
Permission to Resume Injection  
Castle Draw 8-9-9-17 Well  
EPA ID# UT20994-06155 (Now UT22197-06155)  
API # 43-013-32078  
Castle Draw Oil Field  
Duchesne County, UT

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

95 17E 9

Dear Mr. Horrocks:

On November 19, 2012, the Environmental Protection Agency (EPA) received information from Newfield Exploration Company on the above referenced well concerning the workover to convert the well to a concentric string dual injection configuration and the followup mechanical integrity test (MIT) conducted on November 9, 2012. The data submitted shows that the well passed the required MIT. Therefore, pursuant to Title 40 of the Code of Federal Regulations Section 144.51(q)(2) (40 C.F.R. §144.51(q)(2)), permission to resume injection is granted. Under continuous service, the next MIT will be due on or before November 9, 2017.

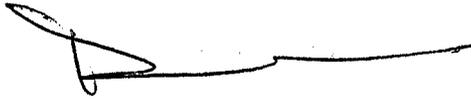
Pursuant to recently implemented UIC Area Permit UT22197-00000, the calculated MAIP for the upper injection zone will be 1315 psi and for the lower zone 1713 psi.

Pursuant to 40 C.F.R. §144.52(a)(6), if the well is not used for a period of at least two (2) years ("temporary abandonment"), it shall be plugged and abandoned unless EPA is notified and procedures are described to EPA ensuring the well will not endanger underground sources of drinking water ("non-endangerment demonstration") during its continued temporary abandonment. A successful MIT is an acceptable non-endangerment demonstration and would be necessary every two (2) years the well continues in temporary abandonment.

Failure to comply with a UIC Permit, or the UIC regulations found at 40 C.F.R. Parts 144 through 148 constitute one or more violations of the Safe Drinking Water Act, 42 U.S.C. §300h. Such non-compliance may subject you to formal enforcement by EPA, as codified at 40 C.F.R. Part 22.

If you have any questions concerning this letter, you may contact Sarah Roberts at (303) 312-7056. Please direct all correspondence to the attention of Sarah Roberts at Mail Code 8ENF-UFO.

Sincerely,



Darcy O'Connor, Acting Director  
UIC/FIFRA/OPA Technical Enforcement Programs

cc: Irene Cuch, Jr., Chairwoman  
Uintah & Ouray Business Committee  
P.O. Box 190  
Fort Duchesne, Utah 84026

Reannin Tapoof, Assistant  
Uintah & Ouray Business Committee  
P.O. Box 190  
Fort Duchesne, Utah 84026

Richard Jenks, Councilman  
Uintah & Ouray Business Committee  
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Phillip Chimburas, Councilman  
Uintah & Ouray Business Committee  
P.O. Box 190  
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Mike Natchees, Environmental  
Coordinator  
Ute Indian Tribe  
P.O. Box 190  
Fort Duchesne, Utah 84026

Ronald Wopsock, Vice-Chairman  
Uintah & Ouray Business Committee  
P.O. Box 190  
Fort Duchesne, Utah 84026

Stewart Pike, Councilman  
Uintah & Ouray Business Committee  
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Frances Poowegup, Councilwoman  
Uintah & Ouray Business Committee  
P.O. Box 190  
Fort Duchesne, Utah 84026

Manuel Myore, Director of Energy,  
Minerals and Air Programs  
Ute Indian Tribe  
P.O. Box 190  
Fort Duchesne, Utah 84026

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



Spud Date: 7/30/98  
 Put on Production: 9/3/98  
 GL: 5192' KB: 5202'

# Castle Draw 8-9-9-17

Initial Production: 114 BOPD;  
 69 MCFD; 11 BWPD

Injection Diagram

### SURFACE CASING

CSG SIZE: 8-5/8"  
 GRADE: J-55  
 WEIGHT: 24#  
 LENGTH: 8 jts (316')  
 DEPTH LANDED: 326' GL  
 HOLE SIZE: 12-1/4"  
 CEMENT DATA: 160 sxs Premium cmt, est 8 bbl's to surf.

### PRODUCTION CASING

CSG SIZE: 5-1/2"  
 GRADE: J-55  
 WEIGHT: 15.5#  
 LENGTH: 131 jts (5603')  
 HOLE SIZE: 7-7/8"  
 CEMENT DATA: 250 sxs modified mixed & 260 sxs class G  
 CEMENT TOP AT: Surface  
 SET AT: 5612'

### TUBING

SIZE GRADE WT.: 2-7/8" M-50  
 SIZE GRADE WT.: 2-7/8" J-55 6.5#  
 TBG HANGER 5-1/2" J-55 0.85  
 NO. OF JOINTS: 131 jts (4037.5')  
 HRP PKR 5-1/2" @ 4071.10'  
 TBG 26 jts (800.04')  
 X NIPPLE 2-7/8" AT: 4874.60'  
 PERF SUB N-80 AT: 4875.8'  
 TBG M-50 15 jt (462.7')  
 PERF SUB N-80 AT: 5344.7'  
 PBR AT: 5350.94'  
 ARROW #1 PKR CE AT: 5359.11'  
 TBG M-50 1 jt (31.7')  
 RE-ENTRY GUIDE EOT AT: 5394.85'

### CONCENTRIC STRING

TBG HANGER 2-3/8" J-55 (0.81')  
 TBG 1 jt (33.45')  
 1.9" IJ 2.76# J-55 TBG PUP: (0.92')  
 1.9" IJ 2.76# J-55 TBG PUP: (7.98')  
 1.9" IJ 2.76# J-55 TBG PUP: (3.80')  
 1.90" IJ 2.76# J-55 TBG: 138 jts (5283.22')  
 2.183 PBR STINGER AT: 5348.43' (4.48')  
 TOTAL STRING LENGTH: EOT @ 5352.65'

### FRAC JOB

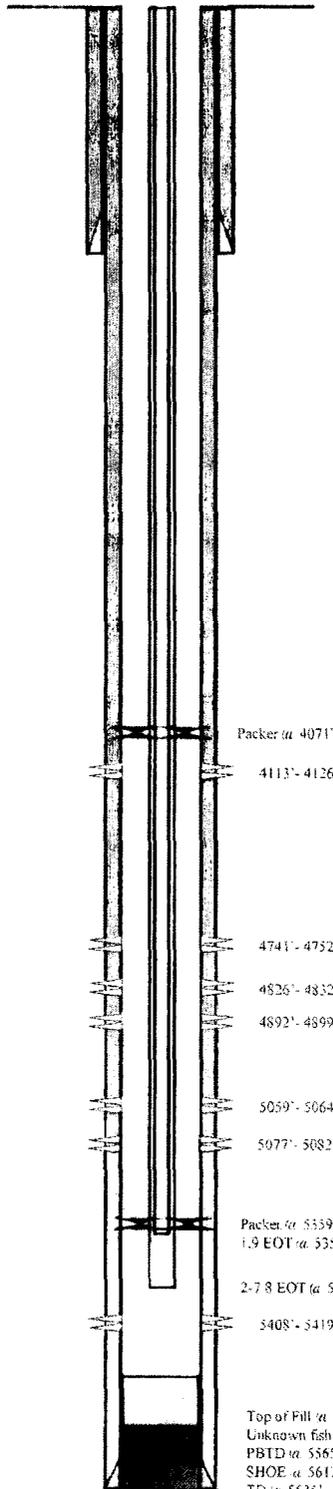
8/24/98 5408'-5419' Frac CP sands as follows:  
 RU BJ Services & frac CP sds w 98,100#  
 20-40 sd in 509 bbls Viking I-25 fluid.  
 Perfs broke dn @ 1933 psi. Treated @ ave  
 press of 1540 psi w ave rate of 29.8 BPM.  
 ISIP: 1500 psi.

8/26/98 5059'-5082' Frac A sands as follows:  
 RU BJ Services & frac A sds w 95,716#  
 20-40 sd in 506 bbls Viking I-25 fluid.  
 Perfs broke dn @ 3042 psi. Treated @ ave  
 press of 1850 psi w ave rate of 27.7 BPM.  
 ISIP: 2200 psi.

8/28/98 4741'-4899' Frac B/C sands as follows:  
 RU BJ Services & frac C/B sds w 109,231#  
 20-40 sd in 552 bbls Viking I-25 fluid.  
 Perfs broke back @ 2200 psi @ 15 BPM.  
 Treated @ ave press of 1800 psi w ave rate  
 of 32.6 BPM. ISIP: 2300 psi.

8/31/98 4113'-4126' Frac GB sands as follows:  
 RU BJ Services & frac GB sds w 97,592#  
 20-40 sd in 480 bbls Viking I-25 fluid.  
 Perfs broke dn @ 3500 psi. Treated @ ave  
 press of 1860 psi w ave rate of 24 BPM.  
 ISIP: 2050 psi.

3/26/02 Workover. Update rod and tubing details.  
 4/15/02 Pump change. Update rod details.  
 3/19/04 Injection Conversion  
 8-26-08 Zone Stimulation. Updated tubing  
 details.  
 2/5/09 5 Year MIT completed and submitted.  
 11/07/12 Concentric Injection Procedure completed  
 - dual injection lines installed - 2 packers set.  
 11/09/12 MIT Finalized - tbg detail updated



### PERFORATION RECORD

Date	Depth Range	Perforation Type	Number of Holes
8/21/98	5408'-5419'	4 JSPF	44 holes
8/25/98	5077'-5082'	4 JSPF	20 holes
8/25/98	5059'-5064'	4 JSPF	20 holes
8/27/98	4892'-4899'	4 JSPF	28 holes
8/27/98	4826'-4832'	4 JSPF	24 holes
8/27/98	4741'-4752'	4 JSPF	44 holes
8/29/98	4113'-4126'	4 JSPF	52 holes

## NEWFIELD

Castle Draw 8-9-9-17  
 1980 FNL & 660 FEL  
 SENE Section 9-T9S-R17E  
 Duchesne Co, Utah  
 API #43-013-32078; Lease #U-74806

Top of Fill @ 5545'  
 Unknown fish @ 5560'  
 PBTD @ 5565'  
 SHOE @ 5612'  
 TD @ 5635'