



**EQUITABLE RESOURCES**  
ENERGY COMPANY

**BALCRON OIL DIVISION**

1601 Lewis Avenue  
Billings, MT 59102

Office: (406) 259-7860  
FAX: (406) 245-1365   
FAX: (406) 245-1361

**June 21 1995**

**-- VIA FEDERAL EXPRESS --**

**Bureau of Land Management  
170 South 500 East  
Vernal, UT 84078**

**Gentlemen:**

**Enclosed are Applications for Permit to Drill the following wells:**

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

**Balcron Monument Federal #21-10-9-17Y**

**As Operator, we hereby request that the status of these wells be held tight for the maximum period allowed by regulations.**

**Archeological surveys have been ordered on these wells, and the reports will be sent to you as soon as they have been completed.**

**If you have any questions or need additional information, please give me a call at (406) 259-7860.**

**Sincerely,**

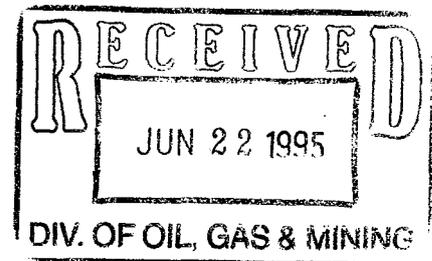
*Bobbie Schuman*

**Bobbie Schuman  
Regulatory and  
Environmental Specialist**

**/hs**

**Enclosures**

**cc: Utah Division of Oil, Gas and Mining**



UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

**CONFIDENTIAL**

5. LEASE DESIGNATION AND SERIAL NO.

Federal # U-65210

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

n/a

7. UNIT AGREEMENT NAME

n/a

8. FARM OR LEASE NAME

Balcron Monument Federal

9. WELL NO.

#21-10-9-17Y

10. FIELD AND POOL, OR WILDCAT

Monument Butte/Green River

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

Sec. 10, T9S, R17E

12. COUNTY OR PARISH

Duchesne

13. STATE

Utah

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. TYPE OF WORK

DRILL

DEEPEN

PLUG BACK

b. TYPE OF WELL

OIL WELL

GAS WELL

OTHER

SINGLE ZONE

MULTIPLE ZONE

2. NAME OF OPERATOR

Equitable Resources Energy Company, Balcron Oil Division

3. ADDRESS OF OPERATOR

1601 Lewis Avenue; Billings, MT 59102 (406) 259-7860

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.)\*

At surface

NE NW Section 10, T9S, R17E 807' FNL, 2120' FWL

At proposed prod. zone

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE\*

Approximately 14.5 miles southwest of Myton, Utah

15. DISTANCE FROM PROPOSED\*

LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drlg. unit line, if any)

16. NO. OF ACRES IN LEASE

17. NO. OF ACRES ASSIGNED TO THIS WELL

18. DISTANCE FROM PROPOSED LOCATION\* TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT.

19. PROPOSED DEPTH

5,600'

20. ROTARY OR CABLE TOOLS

Rotary

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

5,097' GL

22. APPROX. DATE WORK WILL START\*

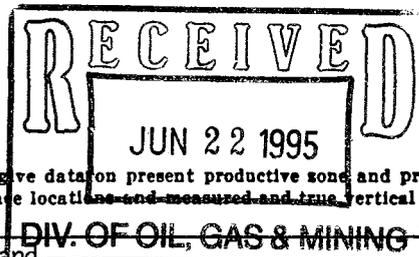
10/1/95

23. PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
See attached	Drilling Program/Casing Design			

Operator proposes to drill this well in accordance with the attached EXHIBITS. A listing of EXHIBITS is also attached.

**SELF CERTIFICATION:** I hereby certify that I am authorized, by proper lease interest owner, to conduct these operations associated with the application. Bond coverage pursuant to 43 CFR 3104 for lease activities is being provided by Equitable Resources Energy Company as principal and Safeco Insurance Company of America as surety under BLM Bond No. MT 0576 (Nationwide Oil & Gas Bond #5547188) who will be responsible for compliance with all of the terms and conditions of that portion of the lease associated with this application.



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 Bobbie Schuman TITLE Regulatory and Environmental Specialist DATE June 21, 1995

(This space for Federal or State office use)

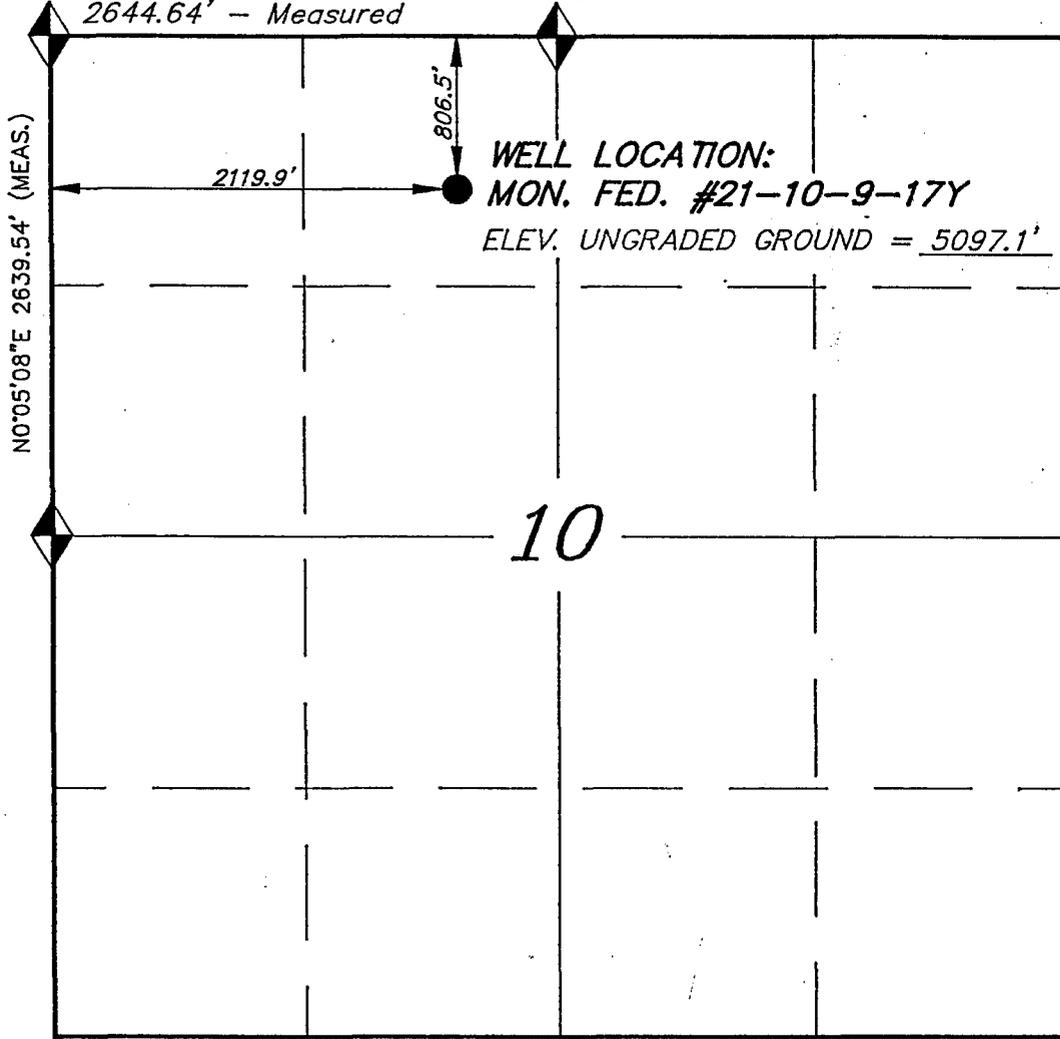
PERMIT NO. 43-013-31537 APPROVAL DATE \_\_\_\_\_  
APPROVED BY [Signature] TITLE Petroleum Engineer DATE 7/28/95  
CONDITIONS OF APPROVAL, IF ANY:

\*See Instructions On Reverse Side

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

***EQUITABLE RESOURCES ENERGY CO.***

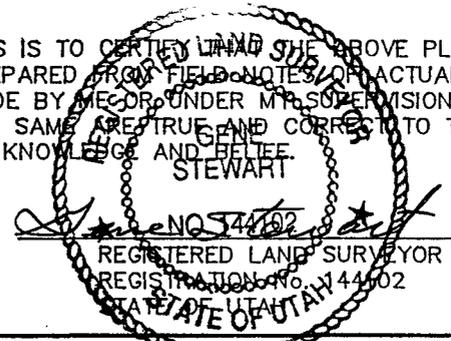
S89°57'E (G.L.O.) Basis of Bearings  
2644.64' - Measured



WELL LOCATION, MONUMENT FEDERAL #21-10-9-17Y, LOCATED AS SHOWN IN THE NE 1/4 NW 1/4 OF SECTION 10, 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.  
STEWART



N89°58'W (G.L.O.)

◆ = SECTION CORNERS LOCATED  
BASIS OF BEARINGS; G.L.O. DATED 1909  
BASIS OF ELEV; U.S.G.S. 7-1/2 min QUAD (MYTON SE)

<b>TRI STATE LAND SURVEYING &amp; CONSULTING</b>	
38 EAST 100 NORTH, VERNAL, UTAH 84078 (801) 781-2501	
SCALE: 1" = 1000'	SURVEYED BY: GS DA
DATE: 5/24/95	WEATHER: RAINY & COOL
NOTES:	FILE 21-10YL

EXHIBIT "K"

## EXHIBITS

- A PROPOSED DRILLING PROGRAM
- B PROPOSED SURFACE USE PROGRAM
- C GEOLOGIC PROGNOSIS
- D DRILLING PROGRAM/CASING DESIGN/WELLBORE DIAGRAM
- E HAZMAT DECLARATION
- F EXISTING & PLANNED ACCESS ROADS (MAPS A & B)
- G WELLSITE LAYOUT
- H BOPE SCHEMATIC
- I EXISTING ROADS (MAP C)
- J PROPOSED PRODUCTION FACILITY DIAGRAM
- K SURVEY PLAT
- L LAYOUT/CUT & FILL DIAGRAM

6/19/95

# **CONFIDENTIAL**

**AS OPERATOR, WE HEREBY REQUEST THAT THE STATUS OF THIS WELL BE HELD TIGHT FOR THE MAXIMUM PERIOD ALLOWED BY FEDERAL AND STATE REGULATIONS.**

Equitable Resources Energy Company,  
Balcron Oil Division  
1601 Lewis Avenue  
Billings, MT 59102  
(406) 259-7860

.ROPOSED DRILLING PROGRAM

EQUITABLE RESOURCES ENERGY COMPANY  
Balcron Oil Division  
Balcron Monument Federal #21-10-9-17Y  
NE NW Section 10, T9S, R17E  
Duchesne County, Utah

In accordance with requirements outlined in 43 CFR 3162-3.1 (d):

1. ESTIMATED IMPORTANT GEOLOGICAL MARKERS:

See Geologic Prognosis (EXHIBIT "C")

2. ESTIMATED DEPTHS OF ANTICIPATED OIL, GAS OR WATER:

See Geologic Prognosis (EXHIBIT "C")

3. OPERATOR'S MINIMUM SPECIFICATIONS FOR PRESSURE CONTROL:

a. EXHIBIT "H" is a schematic of the BOP equipment and choke manifold. A 2M system will be used. The BOPE will be installed after setting 8-5/8" casing at 260'. The blind rams and pipe rams will be tested to 1500 psi. Pipe rams will be operationally checked each 24-hour period and blind rams each time pipe is pulled out of the hole.

b. The BOPE will be tested to 1500 psi when initially installed, whenever any seal subject to test pressure is broken, and following related repairs. The pipe and blind rams will be activated at least weekly and on every trip the pipe and blind rams will be activated.

c. An accumulator of sufficient capacity to open the hydraulically-controlled choke valve lines (if so equipped), close all rams, and retain a minimum of 200 psi above precharge on the closing manifold without the use of the closing unit pumps will be installed during the drilling of this well.

d. An upper kelly cock will be used during the drilling of this well.

- e. Visual mud monitoring equipment will be used to detect volume changes indicating loss or gain in circulating fluid volume.
- f. Sufficient quantities of mud materials will be maintained or readily accessible for the purpose of assuring well control.

4. PROPOSED CASING AND CEMENTING PROGRAM:

- a. Surface casing will be set in the Uinta formation to approximately 260' and cemented to surface.
- b. All potentially productive hydrocarbon zones will be isolated.
- c. Casing designs are based on factors of burst: 1.00, collapse: 1.125, and joint strength: 1.8.
- d. All casing strings will be pressure tested to 0.22 psi/ft. of casing string length or 1500 psi whichever is greater (not to exceed 70% of yield).
- E. For details of casing, cement program, drilling fluid program, and proposed mud program, see the following attachment:

Drilling Program/Casing Design (EXHIBIT "D")

5. HAZARDOUS PRESSURES, TEMPERATURES, FLUIDS/GASSES EXPECTED:

- a. Expected bottom hole temperature is 125 degrees F. Expected bottom hole pressure is 1500 psi.
- b. No abnormal pressures or temperatures have been noted or reported in wells drilled to the Green River formation in this area.
- c. No dangerous levels of hydrogen sulfide, hazardous fluids, or gasses have been found, reported, or known to exist at the depth to be drilled in this well, in this area.

6. ANTICIPATED STARTING DATE AND DURATION OF OPERATIONS:

- a. The drilling operations for this well will begin as soon after APD approval as possible.

- b. These drilling operations should be completed within 12 days after spudding the well depending on weather and hole conditions.
- c. If the well is productive, a sundry notice and plat showing exact installed facilities will be submitted.
- d. If this well is non-productive, a sundry notice will be filed with the BLM District Office within 30 days following completion of the well for abandonment.

7. OTHER

- a. Operator requests a variance to regulations requiring a straight run blooie line.
- b. Operator requests a variance to regulations requiring an automatic ignitor or continuous pilot light on the blooie line.

SURFACE USE PROGRAM

EQUITABLE RESOURCES ENERGY COMPANY  
Balcron Oil Division  
Balcron Monument Federal #21-10-9-17Y  
NE NW Section 10, T9S, R17E  
Duchesne County, Utah

In accordance with requirements outlined in 43 CFR 3162.3-1 (d):

1. EXISTING ROADS:

- a. From Myton, Utah, take Highway #40 west out of town 1.6 miles to the Sand Wash road. Go south on the Sand Wash road for approximately 14.2 miles to a road intersection. Turn left and proceed 0.3 to the location which is on the East side of the existing road.
- b. Existing roadways need no improvements for these drilling operations.
- c. All existing roads used by these drilling operations will be maintained in the same or better condition as were existing prior to entry.
- d. See EXHIBIT "F" Maps A and B for access route.

2. PLANNED ACCESS ROADS: See EXHIBIT "F" Maps A & B

- a. No new access is required.
- b. No gates, cattleguards, or fence cuts and/or modifications to existing facilities will be required.
- c. All travel will be confined to location and access routes.
- d. No culverts or bridges are necessary.

- e. If a right-of-way is needed for access, please consider this Application for Permit to Drill as the application for right-of-way.

3. LOCATION OF EXISTING WELLS:

See EXHIBIT "I" Map C.

4. LOCATION OF EXISTING AND/OR PROPOSED PRODUCTION FACILITIES:

- a. Upon completion, a sundry notice and plat showing exact production facilities will be submitted.
- b. All above-ground facilities will be painted earthtone color Desert Brown #10Y/R in accordance with the Munsell Soil Color chart within six months of the well completion unless prior written approval to proceed with another alternative has been granted via Sundry Notice.
- c. See EXHIBIT "J" for the Proposed Production Facility Diagram.

5. LOCATION AND TYPE OF WATER SUPPLY:

- a. The drilling water source will be obtained from a private source owned by Joe Shields.
- b. The drilling water will be hauled by truck to the location site.

6. CONSTRUCTION ROAD/LOCATION MATERIALS:

- a. Any construction materials which are required will be native materials from the location and/or access site.
- b. All construction materials for this location site and access road shall be borrowed material accumulated during the construction of the site and road. No additional construction material from other sources is anticipated at this time. If additional construction material is needed, it will be from an approved source.
- c. Reasonable precautions will be taken to protect all lands.

- j. All surface disturbing activities will conform to the standards outlined in the Bureau of Land Management and Forest Service publication: Surface Operating Standards for Oil and Gas Exploration and Development, (1989).

7. METHODS FOR HANDLING WASTE MATERIALS AND DISPOSAL:

- a. Garbage will be stored in a dumpster and disposed of according to local and state regulations, at an approved facility. Disposal will not be allowed on location. No trash will be disposed of in the reserve pit.
- b. Fluids produced during the completion operation will be collected in test tanks. Any spills of oil, gas, salt water or other noxious fluids will be cleaned up and hauled to an approved disposal site. Burning will not be allowed.
- c. The reserve pit will be lined. If a plastic nylon reinforced liner is used, it will be torn and perforated before backfilling of the reserve pit.
- d. Saltwater or testing tanks will be located and/or diked so that any spilled fluids will flow into the reserve pit. Saltwater tanks will not be placed on topsoil stockpiles.
- e. Any produced water will be contained on site for a period not to exceed 90 days.
- f. Sewage will be disposed of according to county and state requirements. Sealed chemical portable toilets will be on location during these drilling operations. Waste and chemicals will not be disposed of on location.
- g. Cuttings will be deposited in the reserve pit.

8. ANCILLARY FACILITIES:

None anticipated.

9. LOCATION SITE LAYOUT:

- a. The proposed location site and elevation plat is shown on EXHIBIT "K".

- b. The drill pad layout, showing elevations, orientation, and access to the pad is shown on EXHIBIT "L".
- c. The drilling rig facilities layout is shown on EXHIBIT "G". No permanent living facilities are planned. There will be two or three trailers on location during drilling operations.
- d. The reserve pit and the blooie pit will be constructed as a combination pit capable of holding 12,000 bbls of fluid. The size of the pit will be approximately equivalent to four times the TD hole volume. The blooie pit might be used for testing, but only after the drilling is completed and the drilling equipment and personnel are off the location.
- e. The reserve pit will be located on the South side of the location.
- f. If needed, flare pit will be located downwind of the prevailing wind directions a minimum of 100' from the wellhead and 30' from the reserve pit fence.
- g. Stockpiled topsoil (first 6 inches) will be stored on the West side between Corners 7 and 8.
- h. Access to the wellpad will be from the West.
- i. All pits will be fenced according to the following minimum standards:
  - a. 39-inch net wire will be used with at least one strand of barbed wire on top of the net wire unless pipe or some type of reinforcement rod is attached to the top of the entire fence.
  - b. The net wire shall be no more than 2 inches above the ground. If barbed wire it shall be 3 inches above the net wire. Total height of fence will be at least 42 inches.
  - c. Corner posts will be cemented and/or braced in such a manner to keep the fence tight at all times. Standard steel, wood, or pipe posts will be used between the cornerbraces. Maximum distance between any two posts will be no greater than 16'.

- d. All wire will be stretched before it is attached to the corner posts.

The reserve pit will be fenced on three sides during drilling operations and on the fourth side when the rig moves off locations. Pits will be fenced and maintained until clean-up.

10. PLANS FOR RECLAMATION OF LOCATION SITE:

The BLM will be contacted prior to commencement of any reclamation operations.

Producing location:

- a. Immediately upon well completion, the location and surrounding areas will be cleared of all unused tubing, equipment, debris, materials, trash, and junk not required for production.
- b. Immediately upon well completion, any hydrocarbons in the pit will be removed in accordance with 43 CFR 3162.7-1.
- c. A plastic nylon reinforced liner will be used, and it will be torn and perforated before backfilling of the reserve pit.
- d. The reserve pit and that portion of the location not needed for production facilities or operations will be recontoured to the approximate natural contours. The reserve pit will be reclaimed within 120 days from the date of well completion. Before any dirt work takes place, the reserve pit will have all fluids and hydrocarbons removed and all trash will be removed.

Dry hole/abandoned location:

At such time as the well is plugged and abandoned, operator will submit a subsequent report of abandonment and BLM will attach the appropriate surface rehabilitation conditions of approval.

11. SURFACE OWNERSHIP:

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



14. CERTIFICATION:

I hereby certify that I, or persons under my direct supervision, have inspected the proposed drillsite and access route; that I am familiar with the conditions which presently exist; that any statements made in this plan are, to the best of my knowledge, true and correct; and that the work associated with the operations proposed herein will be performed by Equitable Resources Energy Company's Balcron Oil Division 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.

June 21, 1995  
Date

Bobbie Schuman  
Bobbie Schuman  
Regulatory and Environmental  
Specialist  
Equitable Resources Energy  
Company, Balcron Oil Division

/rs





**EQUITABLE RESOURCES  
ENERGY COMPANY**  
BALCRON OIL DIVISION

**DRILLING PROGRAM**

WELL NAME: Balcron Monument Fed.#21-10-9-17Y  
 PROSPECT/FIELD: Monument Butte  
 LOCATION: NE NW Section 10 Twn. 9S Rge. 17E  
 COUNTY: Duchesne  
 STATE: Utah

DATE: 6-15-95

TOTAL DEPTH: 5600'

HOLE SIZE	INTERVAL
12 1/4"	Surface to 260'
7 7/8"	260' to 5600'

CASING	INTERVAL		CASING		
STRING TYPE	FROM	TO	SIZE	WEIGHT	GRADE
Surface Casing	0	260'	8 5/8"	24	J55
Production Casing	0	5600'	5 1/2"	15.50	K55

**CEMENT PROGRAM**

Surface Casing	150 sacks class "G" with 2% CaCl and 1/4 lb/sack Flocele. (Cement will be circulated to surf.)
Production Casing	250 sacks Thrifty Lite and 400 sacks 50-50 Poz. ( Actual cement volumes will be calculated from caliper log with cement top at 2000')

**PRELIMINARY  
DRILLING FLUID PROGRAM**

TYPE	FROM	TO	WEIGHT	PLAS. VIS	YIELD POINT
Air and Air Mist	0	260'	N.A.	N.A.	N.A.
Air/Airmist/KCl wtr	260'	5600'	8.7-8.9	N.A.	N.A.

**COMMENTS**

- 1.) No Cores or DSTs are planned for this well.

BALCRON OIL CO.

Operator: BALCRON OIL	Well Name: #21-10-9-17Y
Project ID:	Location: Duchesne/utah

Design Parameters:

Mud weight ( 9.00 ppg) : 0.468 psi/ft  
 Shut in surface pressure : 2058 psi  
 Internal gradient (burst) : 0.100 psi/ft  
 Annular gradient (burst) : 0.000 psi/ft  
 Tensile load is determined using air weight  
 Service rating is "Sweet"

Design Factors:

Collapse : 1.125  
 Burst : 1.00  
 8 Round : 1.80 (J)  
 Buttress : 1.60 (J)  
 Body Yield : 1.50 (B)  
 Overpull : 0 lbs.

Length (feet)	Size (in.)	Weight (lb/ft)	Grade	Joint	Depth (feet)	Drift (in.)	Cost		
1	5,600	5-1/2"	15.50	K-55	ST&C	5,600	4.825		
	Collapse			Burst	Min Int Yield	Tension			
	Load	Strgth	S.F.	Load	Strgth	S.F.	Load	Strgth	S.F.
	(psi)	(psi)		(psi)	(psi)		(kips)	(kips)	
1	2618	4040	1.543	2618	4810	1.84	86.80	222	2.56 J

Prepared by : McCoskery, Billings, MT  
 Date : 06-16-1995  
 Remarks :

Minimum segment length for the 5,600 foot well is 1,500 feet.  
 The mud gradient and bottom hole pressures (for burst) are 0.468 psi/ft and  
 2,618 psi, respectively.

**NOTE:** The design factors used in this casing string design are as shown above. As a general guide-  
 line, Lone Star Steel recommends using minimum design factors of 1.125 - Collapse (with  
 evacuated casing), 1.0 - Burst, 1.8 - 8 Round Tension, 1.6 - Buttress Tension, and 1.5 - Body  
 Yield. Collapse strength under axial tension was calculated based on the Westcott, Dunlop and  
 Kemler curve. Engineering responsibility for use of this design will be that of the purchaser.  
 Costs for this design are based on a 1990 pricing model. (Version 1.0G)

EXHIBIT E

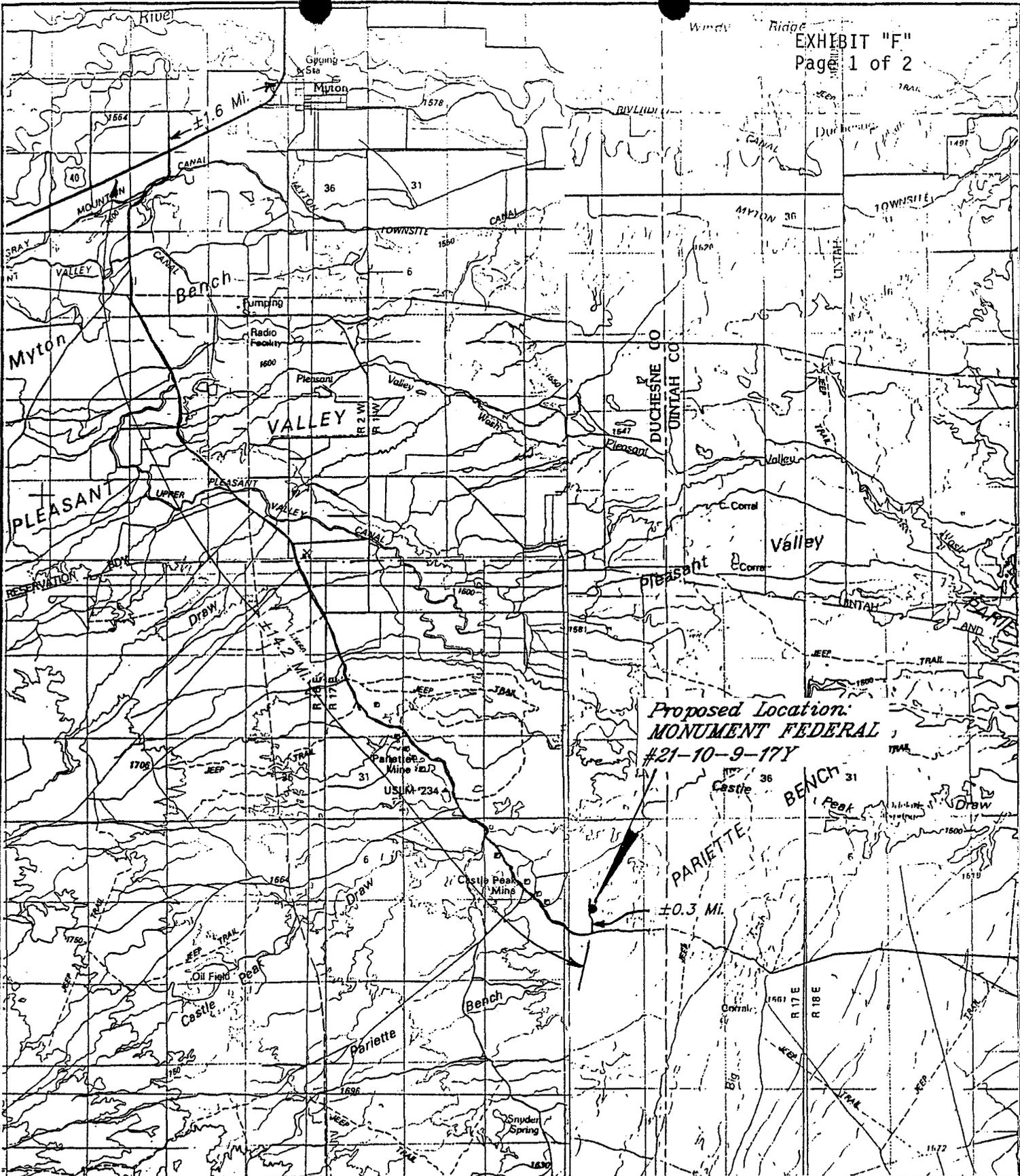
- A. Hazardous chemicals 10,000 pounds of which will most likely be used, produced, stored, transported, or disposed of in association with the proposed action of drilling, completing and producing this well:

We anticipate that none of the hazardous chemicals in quantities of 10,000 pounds or more will be associated with these operations.

- B. Extremely hazardous substances threshold quantities (per Howard Cleavinger 11/30/93) of which will be used, produced, stored, transported, or disposed of in association with the proposed action of drilling, completing and producing this well:

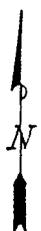
We anticipate that none of the extremely hazardous substances in threshold quantities per 40 CFR 355 will be associated with these operations.

12/1/93  
Revised 12/7/93  
/rs



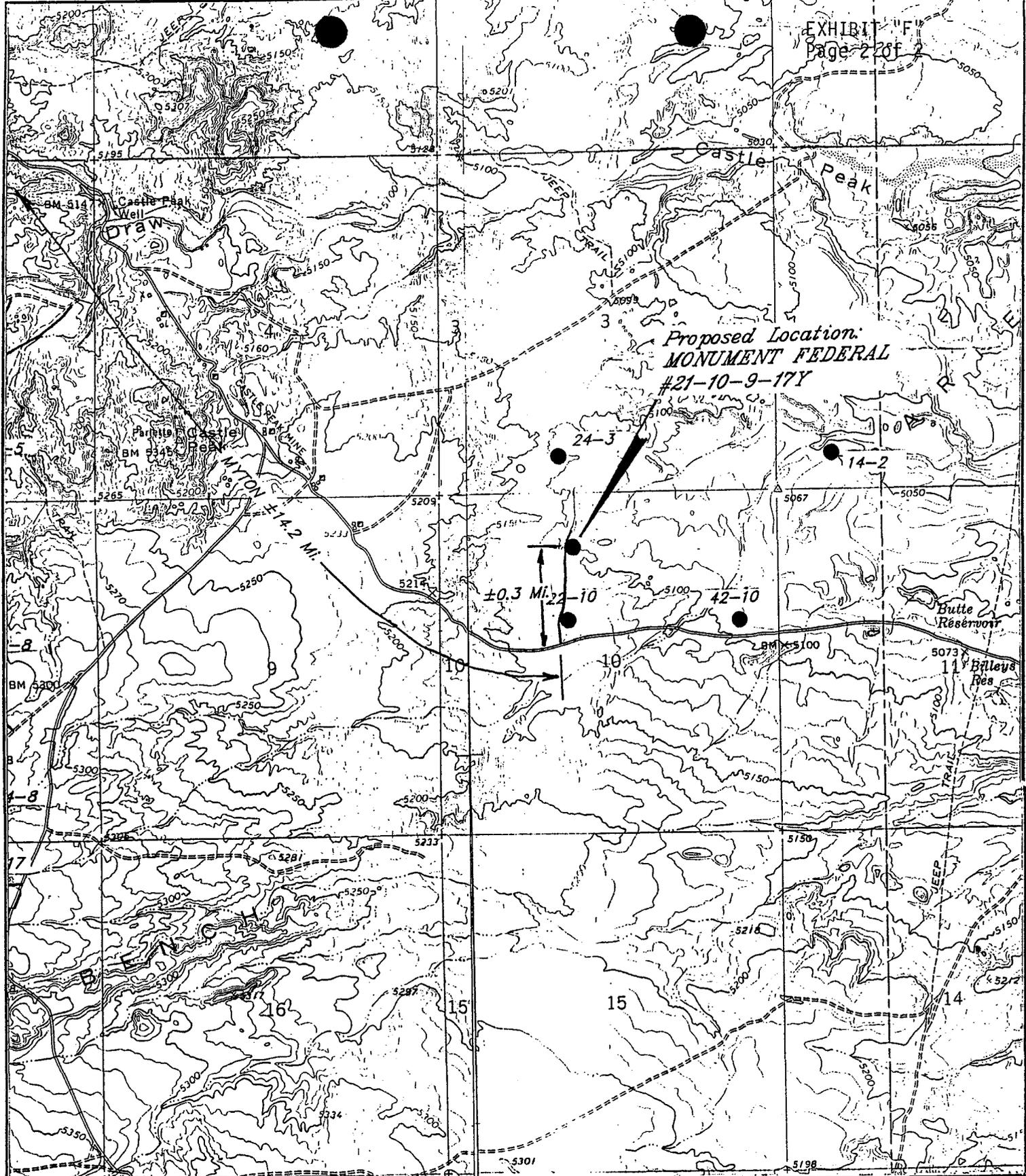
***EQUITABLE RESOURCES CO.***

MONUMENT FEDERAL #21-10-9-17Y  
SEC. 10, T9S, R17E, S.L.B.&M.  
TOPO "A"



***Tri State***  
Land Surveying, Inc.  
(801) 781-2501

EST 100 NORTH VERNAL, UTAH 84078



***EQUITABLE RESOURCES CO.***

**MONUMENT FEDERAL #21-10-9-17Y**  
**SEC. 10, T9S, R17E, S.L.B.&M.**  
**TOPO "B"**

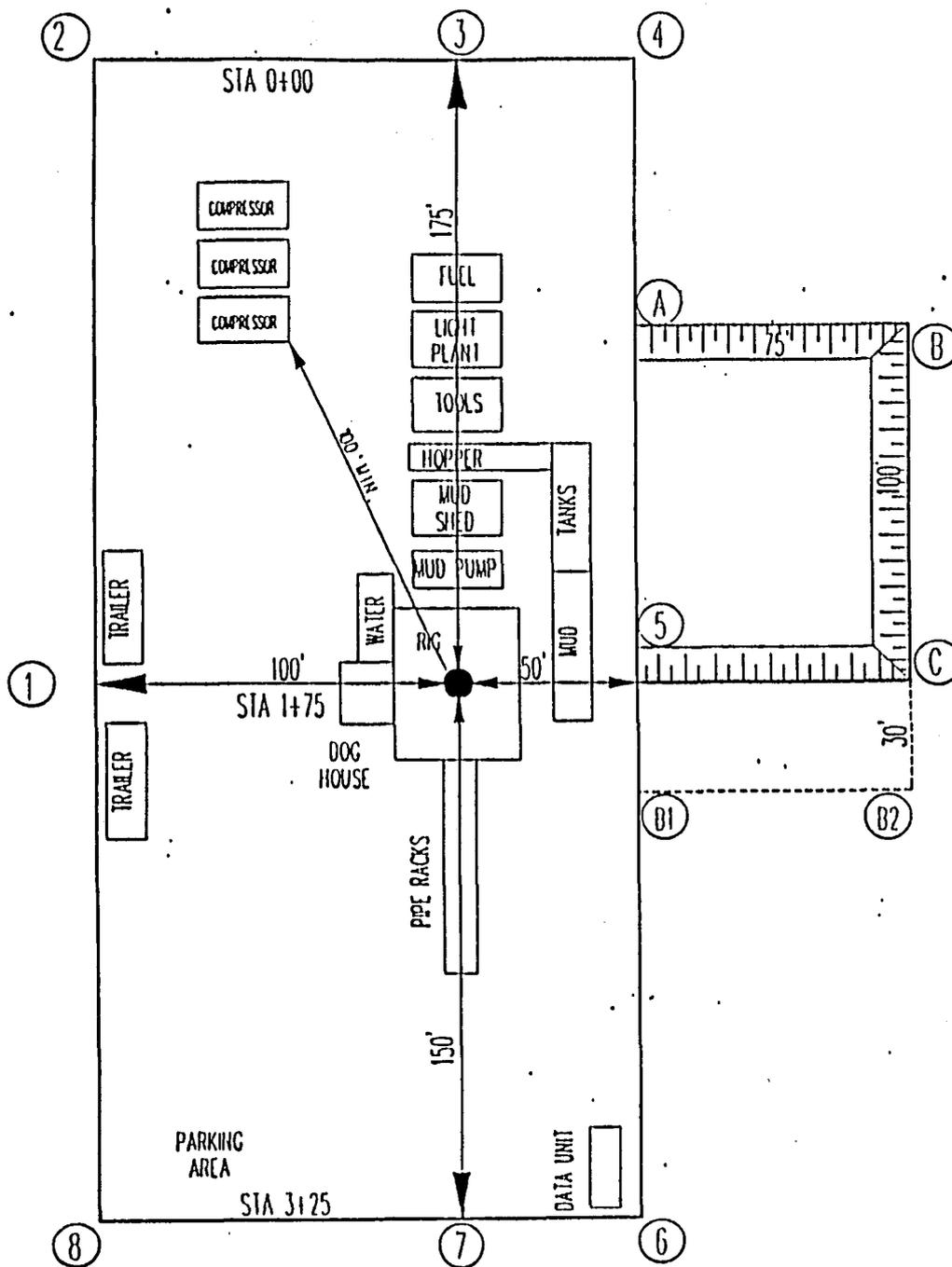


SCALE: 1" = 2000'

**Tri State**  
*Land Surveying, Inc.*  
(801) 781-2501

38 WEST 100 NORTH VERNAL, UTAH 84078

# EQUITABLE RESOURCES ENERGY CO. WELLSITE LAYOUT



**TRI-STATE**  
LAND SURVEYING, INC.  
38 WEST 100 NORTH, UTAH BLVD  
801-781-2501

UNION DRILLING RIG #17

Hex Kelly -

ROTATING HEAD

ADJ. CHOKE

AIR BOWL

7" FLOWLINE

#3000  
BLIND RAM-PIPE RAM

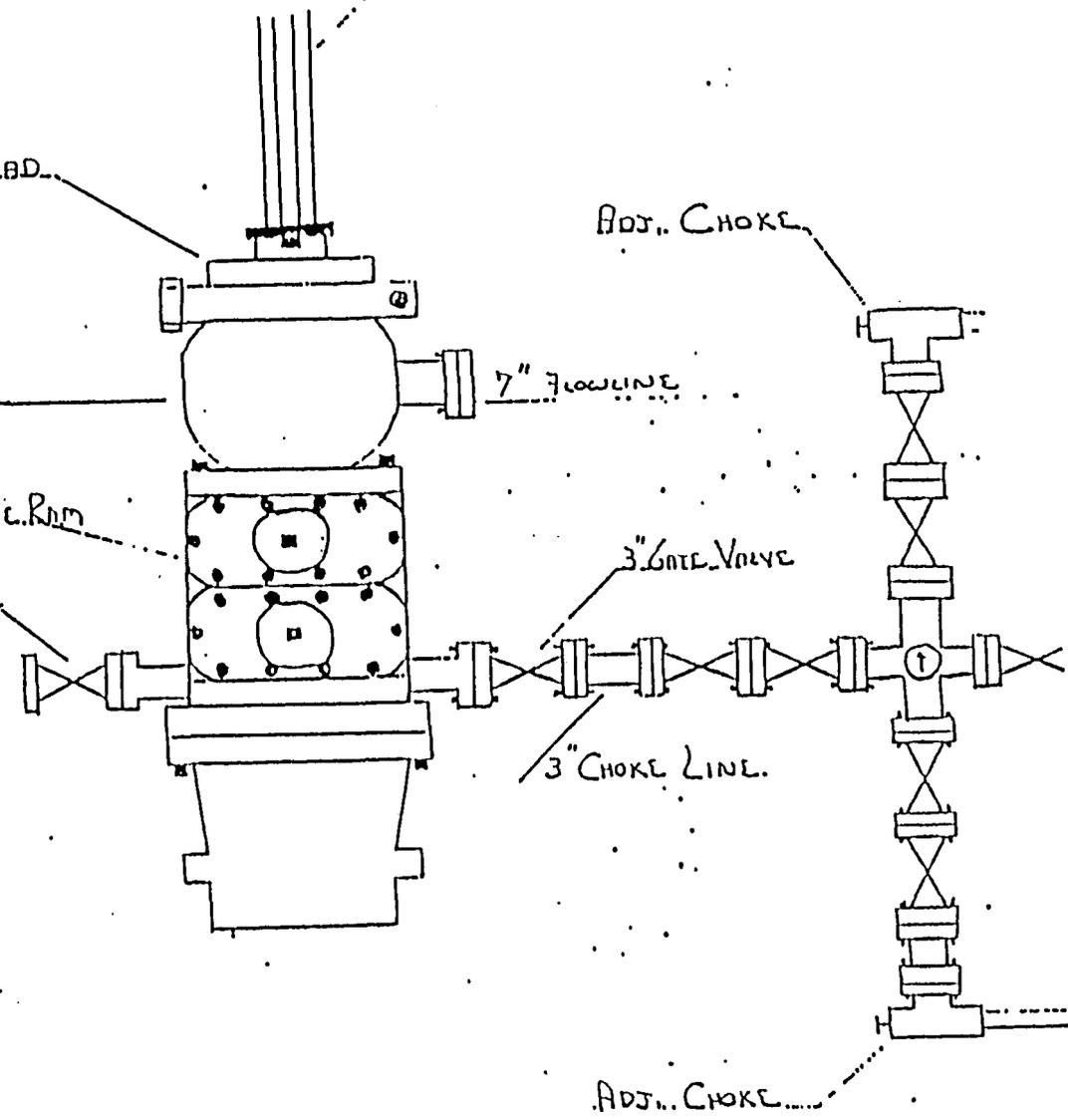
3" GATE VALVE

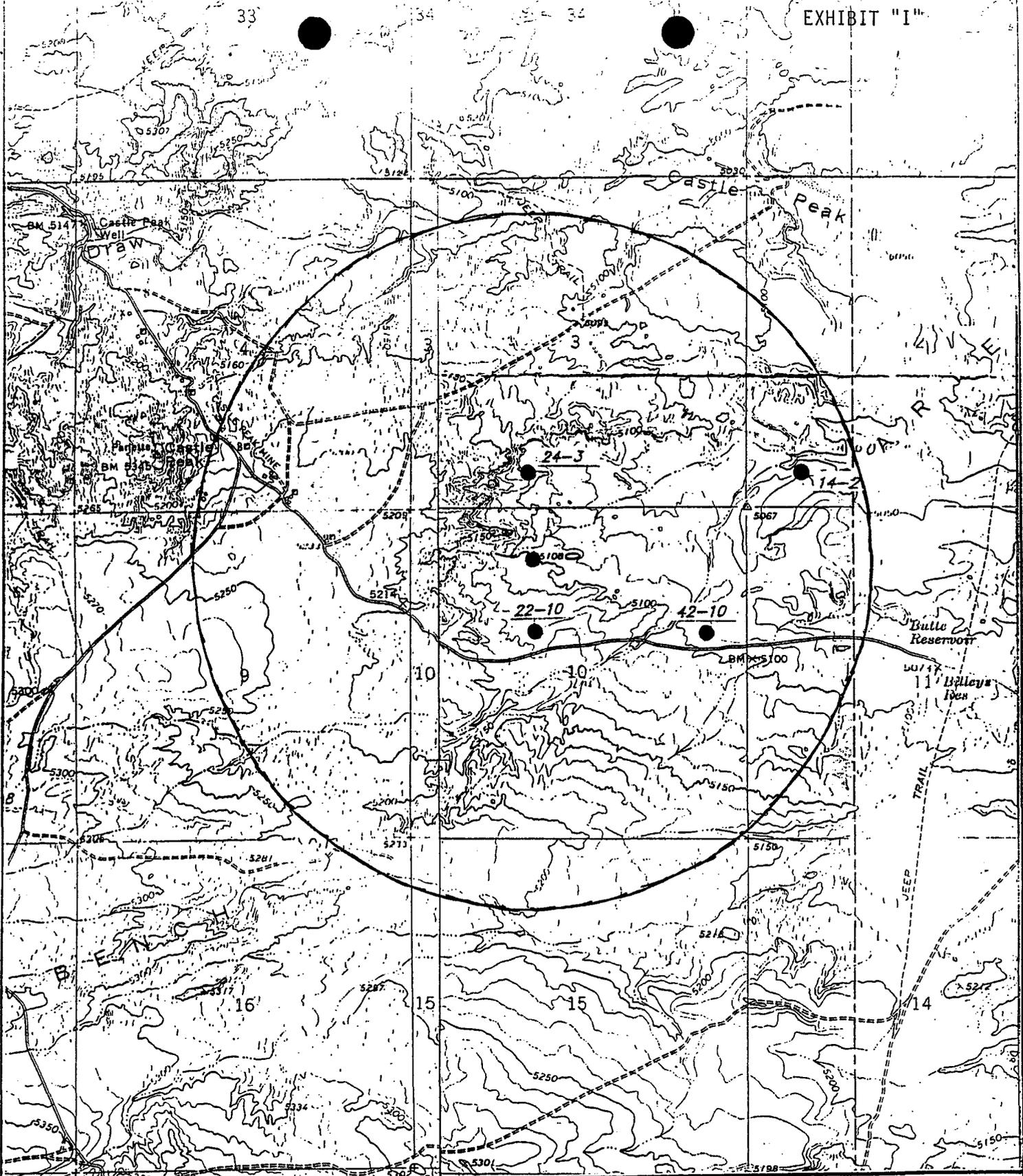
3" GATE VALVE

3" CHOKE LINE

ADJ. CHOKE

#3000 STACK





**EQUITABLE RESOURCES CO.**

MONUMENT FEDERAL #21-10-9-17Y  
SEC. 10, T9S, R17E, S.L.B.&M.  
TOPO "C"



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

**Equitable Resources Energy Company**  
**Balcron Federal 21-10-9-17Y**  
**Proposed Production Facility Diagram**

EXHIBIT "J"

**Balcron Federal 21-10-9-17Y**  
**NE NW Sec. 10, T9S, R17E**  
**Duchesne County, Utah**  
**Federal Lease #U-65210**  
**807' FNL, 2120' FWL**

VALVE DESCRIPTION		
	DURING PROD.	DURING SALES
VALVE #1	CLOSED	OPEN
VALVE #2	OPEN	CLOSED
VALVE #3	CLOSED	OPEN
VALVE #4	OPEN	CLOSED
VALVE #5	CLOSED	CLOSED
VALVE #6	CLOSED	CLOSED
VALVE #7	CLOSED	OPEN

**DIKE**

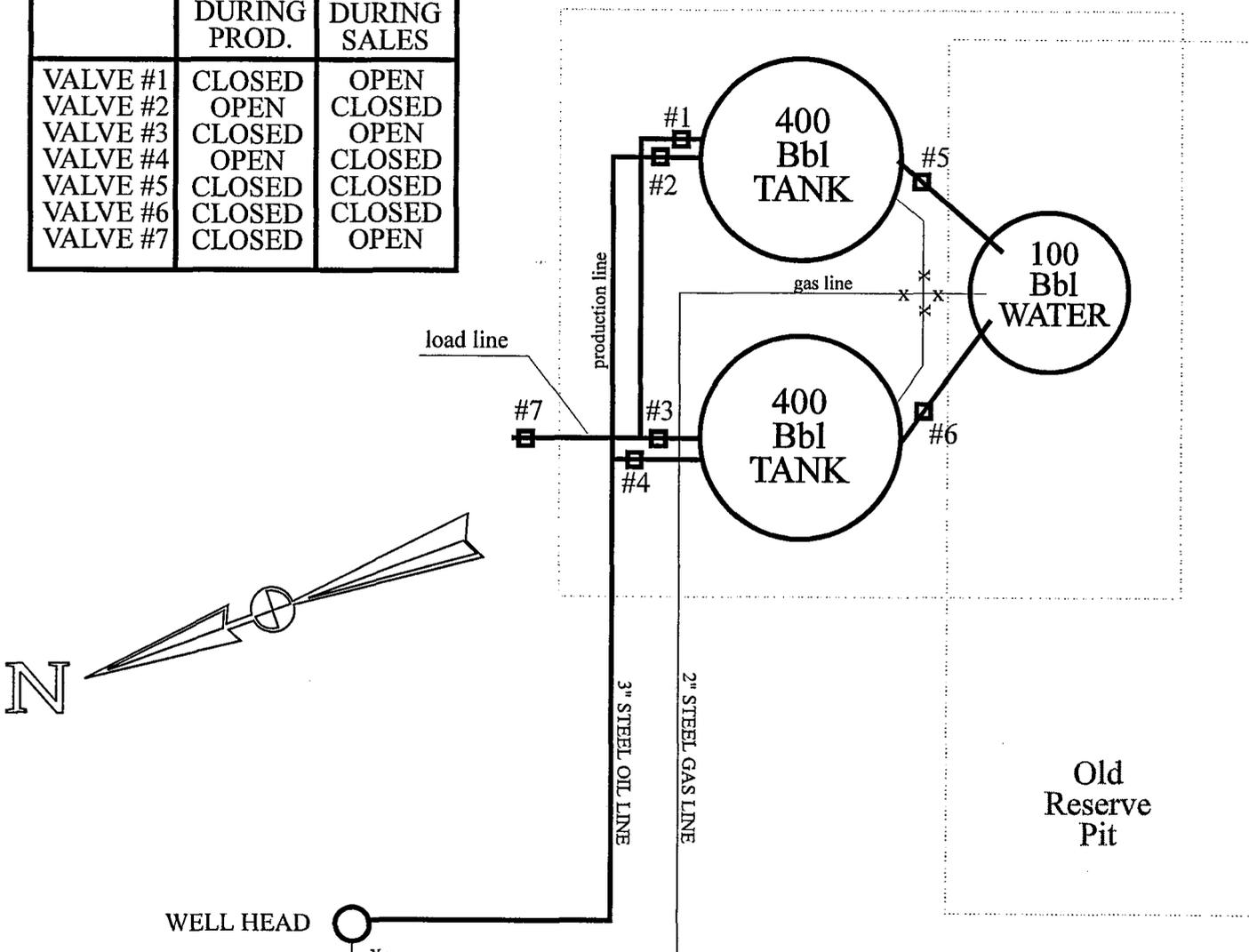


DIAGRAM NOT TO SCALE

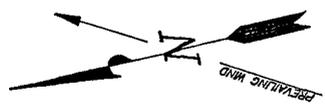
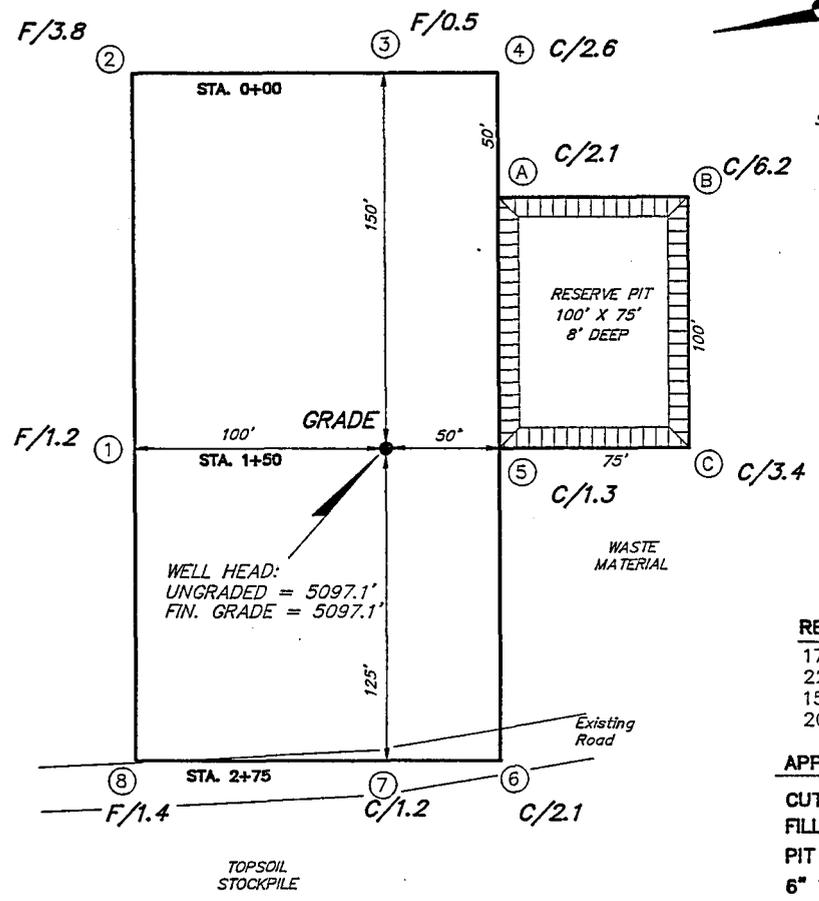
Access Road



**EQUITABLE RESOURCES ENERGY COMPANY**  
 BALCRON OIL DIVISION  
 1601 Lewis Avenue  
 Billings, MT 59104  
 (406) 259-7860

**EQUITABLE RESOURCES ENERGY CO.**

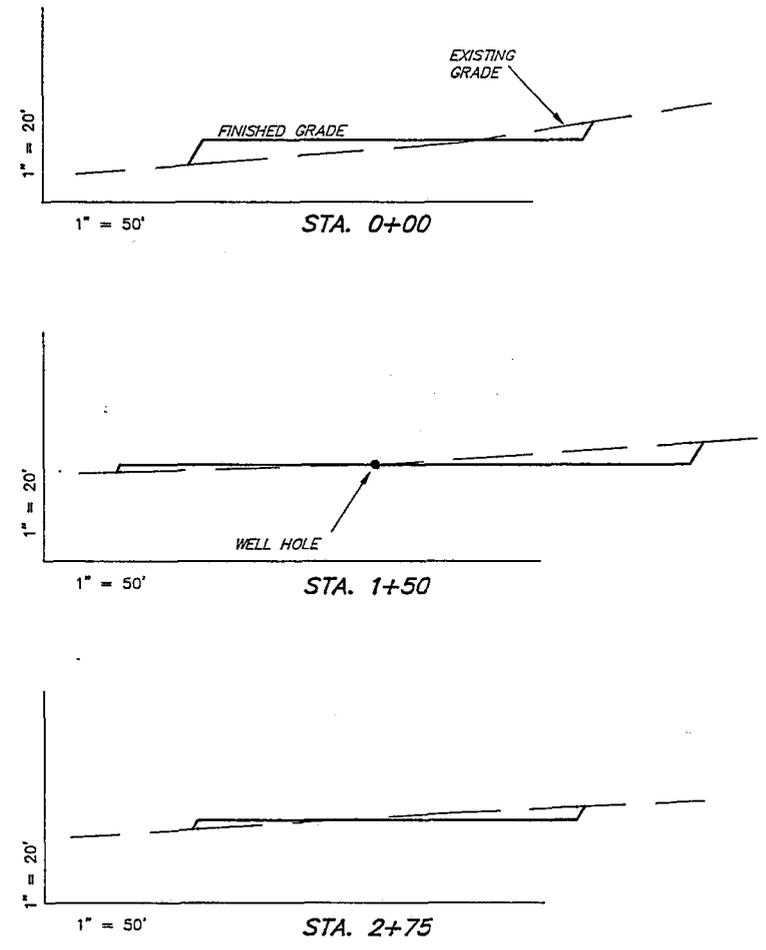
**MONUMENT FEDERAL #21-10-9-17Y  
SECTION 10, T9S, 17E, S.L.B.&M.**



SCALE: 1" = 50'

**REFERENCE POINTS**  
 175' WEST 5098.1'  
 225' WEST 5100.5'  
 150' NORTH 5095.1'  
 200' NORTH 5093.8'

**APPROXIMATE YARDAGES**  
 CUT = 1567 Cu. Yds.  
 FILL = 1076 Cu. Yds.  
 PIT = 1,940 Cu. Yds.  
 6" TOPSOIL = 900 Cu. Yds.



SURVEYED BY: G.S. D.A.
DRAWN BY: S.S.
DATE: 5-18-95
SCALE: 1" = 50'
FILE: 21-10Y

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

EXHIBIT "L"

EQUITABLE RESOURCES CO.

MONUMENT FEDERAL #21-10-9-17Y 43-013-31537

Section 10, T9S, R17E, SLB&M

Duchesne County, Utah

PALEONTOLOGY REPORT

WELLPAD LOCATION AND ACCESS ROAD

BY

ALDEN H. HAMBLIN  
PALEONTOLOGIST  
235 EAST MAIN  
VERNAL, UTAH 84078

June 24, 1994

RESULTS OF PALEONTOLOGY SURVEY AT EQUITABLE RESOURCES CO. MONUMENT FEDERAL #21-10-9-17Y, Section 10, T9S, R17E, S.L.B.&M, Duchesne Co., Utah.

Description of Geology and Topography-

This well location is 10 miles south and 3 miles east of Myton, Utah. The general area is a badlands area southeast of the Castle Peak Mine. Rocks in the immediate area of the proposed access road and wellpad are composed of interbedded mudstone, and sandstone. These rocks represent fluvial (stream) deposits.

The wellpad sits adjacent to an existing road. The location is in a fairly flat area with drainage to the north. There is a small knoll east of the location. The northwest half of the location is covered with alluvium (sand and rock fragments). The southeast half has rock outcrops of sandstone and grey mudstone.

All rock outcrops in the area are of the Upper Eocene Uinta Formation, known for its fossil vertebrate fauna of mammals, turtles, crocodilians, and occasional fish remains and plant impressions.

Paleontological material found -

The area around corner #5 has scattered weathered turtle shell fragments which appear to have washed in from the southwest. An occasional weathered turtle shell fragment can be seen here and there around the location. The rock outcrop east of southeast corner has turtle shell fragments and possibly some mammal bone and enamel fragments (about 200 southeast of the center stake at 118 degrees). This area is off the location.

Recommendations-

It is not felt the work here will adversely affect the other minor fossil resources at this location. There is always a possibility of encountering significant vertebrate fossils when working in the Uinta Formation. If important looking fossils are found during construction, a paleontologist should be called to evaluate them.

No other recommendations are being made for paleontology at this location.

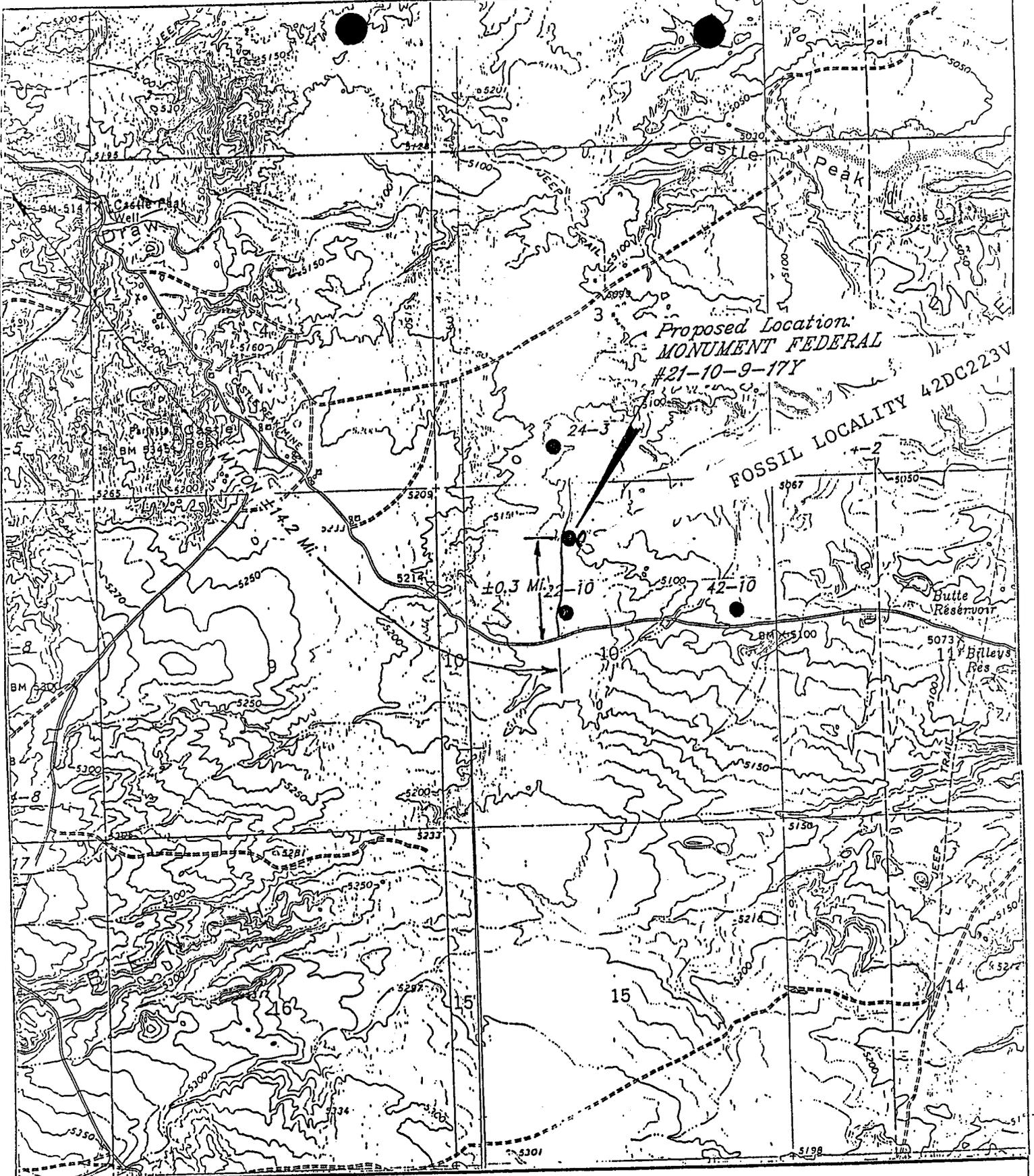
Alvin H. Hamblin  
Paleontologist

Date June 24, 1995

United States  
Department of the Interior  
Bureau of Land Management

Paleontological Locality Form

1. Permit #/Permittee: BLM - UT-S-95-004 ALDEN H. HAMBLIN
2. Repository/Accn.#: UTAH FIELD HOUSE OF NATURAL HISTORY
3. Locality #: 42DC223V [ ] Plant [X] Vertebrate [ ] Invertebrate [ ] Other
4. Formation (and subdivision, if known): Uinta Formation, (B) or upper - lower Member
5. Age: Late Eocene 6. County: Uintah
7. BLM District: VERNAL 8. Resource Area: Diamond Mt.
9. Map name: Pariette Draw SW, Utah 10. Map source: U.S.G.S. 7 1/2 min. Quad.
11. Map scale: 1:24,000 12. Map edition: 1964
13. Latitude (deg., min., sec., direction): \_\_\_\_\_
14. Longitude (deg., min., sec., direction): \_\_\_\_\_  
or: UTM Grid Zone: 12 T 585860 mE 4433600 mN
15. Survey (Section, Township & Range): SE1/4, NE1/4, NW1/4 Sec. 10, T9S, R17E, SLBM
16. Taxa observed/collected: The area around corner #5 has scattered weathered turtle shell fragments which appear to have washed in from the southwest. An occasional weathered turtle shell fragment can be seen here and there around the location. The rock outcrop east of southeast corner has turtle shell fragments and possibly some mammal bone and enamel fragments (about 200 southeast of the center stake at 118 degrees).
17. Discoverer(s)/Collector(s): Alden H. Hamblin
18. Date(s): June 16, 1995
19. Remarks:



**EQUITABLE RESOURCES CO.**

**MONUMENT FEDERAL #21-10-9-17Y**  
**SEC. 10, T9S, R17E, S.L.B.&M.**  
**TOPO "B"**



**Tri State**  
 Land Surveying, Inc.  
 (801) 781-2501

38 WEST 100 NORTH VERNAL, UTAH 84079

SCALE: 1" = 2000'

**CULTURAL RESOURCE EVALUATION  
OF NINE PROPOSED WELL LOCATIONS AND  
ACCESS ROUTES IN THE CASTLE PEAK DRAW AND  
EIGHT MILE FLAT LOCALITIES  
OF DUCHESNE & Uintah COUNTIES, UTAH**

Report Prepared for Balcron Oil Company

Dept. of Interior Permit No.: UT-95-54937  
AERC Project 1489 (BLCR-95-5)

Utah State Project No.: UT-95-AF-306b,s

Principal Investigator  
F. Richard Hauck, Ph.D.

Authors of the Report  
F. Richard Hauck & Glade V Hadden



**ARCHEOLOGICAL-ENVIRONMENTAL RESEARCH  
CORPORATION (AERC)**

181 North 200 West, Suite 5  
P.O. Box 853  
Bountiful, Utah 84011-0853

July 12, 1995

## **ABSTRACT**

An intensive cultural resource evaluation has been conducted for Balcron Oil Company of nine proposed well locations and access routes (Balcron Monument State well #21-2-9-17; Balcron Monument Federal wells #12-24-8-17, 23-24-18-17, 11-20-9-18Y, 22-20-9-18Y, 14-3-9-17Y, 11-10-9-17Y, 12-10-9-17Y and 21-10-9-17Y ). These evaluated locations are situated on Utah State and federally administered lands located in the Pariette Draw, Castle Peak Draw and Eight-mile Flat localities of Duchesne and Uintah Counties, Utah. This evaluation involved a total of 105.75 acres, of which 90 acres are associated with the well pads and an additional 15.75 acres are associated with five access road rights-of-way. These evaluations were conducted by Glade Hadden of AERC on July 5, 6 and 7, 1995.

No previously recorded significant or National Register eligible cultural resources will be adversely affected by the proposed developments.

Two newly identified prehistoric cultural resource activity loci were discovered and recorded during the examinations. 42Dc 906 is a significant rockshelter site located outside the immediate development zone of Monument Federal well #12-10-9-17Y. 42Un 2237 is a non-significant lithic scatter located on the well pad and access road of Monument Federal well #12-24-8-17.

No isolated artifacts were noted during the investigations.

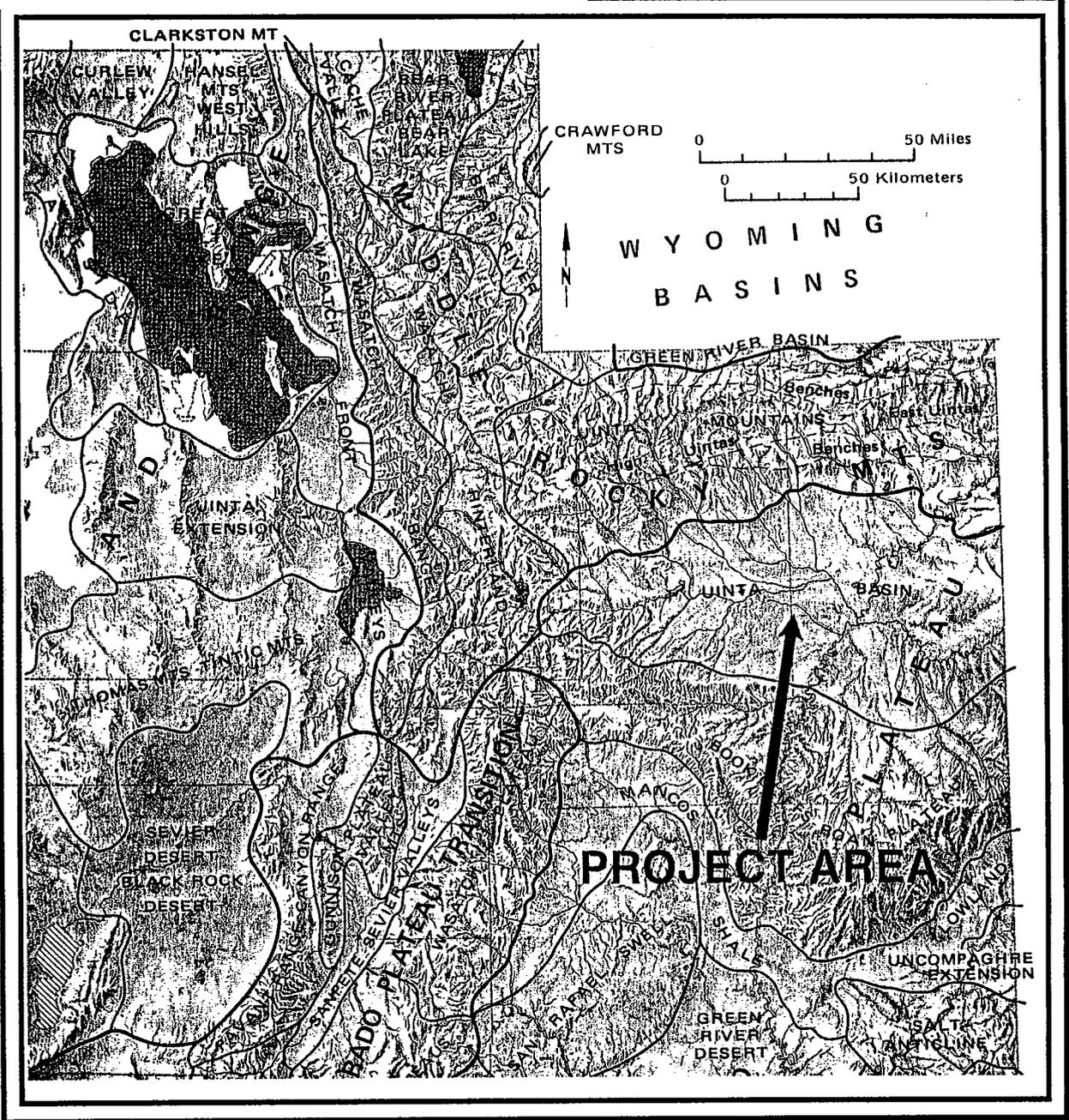
AERC recommends project clearance based on adherence to the stipulations noted in the final section of this report.

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**MAP 1: GENERAL BALCRON  
PROJECT LOCALITY  
IN DUCHESNE & Uintah COUNTIES  
UTAH**

**PROJECT:** BLGR - 95 - 5  
**SCALE:** see below  
**QUAD:** UG & MS Map 43  
**DATE:** July 12, 1995



**UTAH**

T. multiple

R. multiple

Meridian: Salt Lake B & M

(After **PHYSIOGRAPHIC SUBDIVISIONS  
OF UTAH** by W.L. Stokes)

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## GENERAL INFORMATION

On July 5, 6 and 7, 1995, AERC archaeologist Glade Hadden conducted an intensive cultural resource evaluation for Balcron Oil Company of Billings Montana. This examination involved nine proposed well locations (Balcron Monument State well #21-2-9-17; Balcron Monument Federal wells #12-24-8-17, 23-24-18-17, 11-20-9-18Y, 22-20-9-18Y, 14-3-9-17Y, 11-10-9-17Y, 12-10-9-17Y and 21-10-9-17Y ) and associated access roads. The project area is in the Pariette Draw, Castle Peak Draw and Eight Mile Flat localities south east of Myton, Utah (see Map 1). A total of 105.75 acres was examined which include 80 acres associated with the Federal well pads and 13.3 acres associated with the access routes situated on federal lands administered by the Vernal District of the Bureau of Land Management, Diamond Mountain Resource Area, Vernal, Utah. An additional 10 acres are associated with the Monument State well pad and 2.45 acres associated with the access route situated in a State Section administered by the Utah Division of State Lands and Forestry.

The purpose of the field study and this report is to identify and document cultural site presence and assess National Register potential significance relative to established criteria (cf., Title 36 CFR 60.6). The proposed development of these well locations and associated access routes requires an archaeological evaluation in compliance with U.C.A. 9-8-404, the Federal Antiquities Act of 1906, the Reservoir Salvage Act of 1960-as amended by P.L. 93-291, Section 106 of the National Historic Preservation Act of 1966-as amended, the National Environmental Policy Act of 1969, the Federal Land Policy and Management Act of 1979; the Archaeological Resources Protection Act of 1979, the Native American Religious Freedom Act of 1978, the Historic Preservation Act of 1980, and Executive Order 11593.

In addition to documenting cultural identity and significance, mitigation recommendations relative to the preservation of cultural data and materials can be directed to the Bureau of Land Management, Vernal District Office and to the State Antiquities Section.

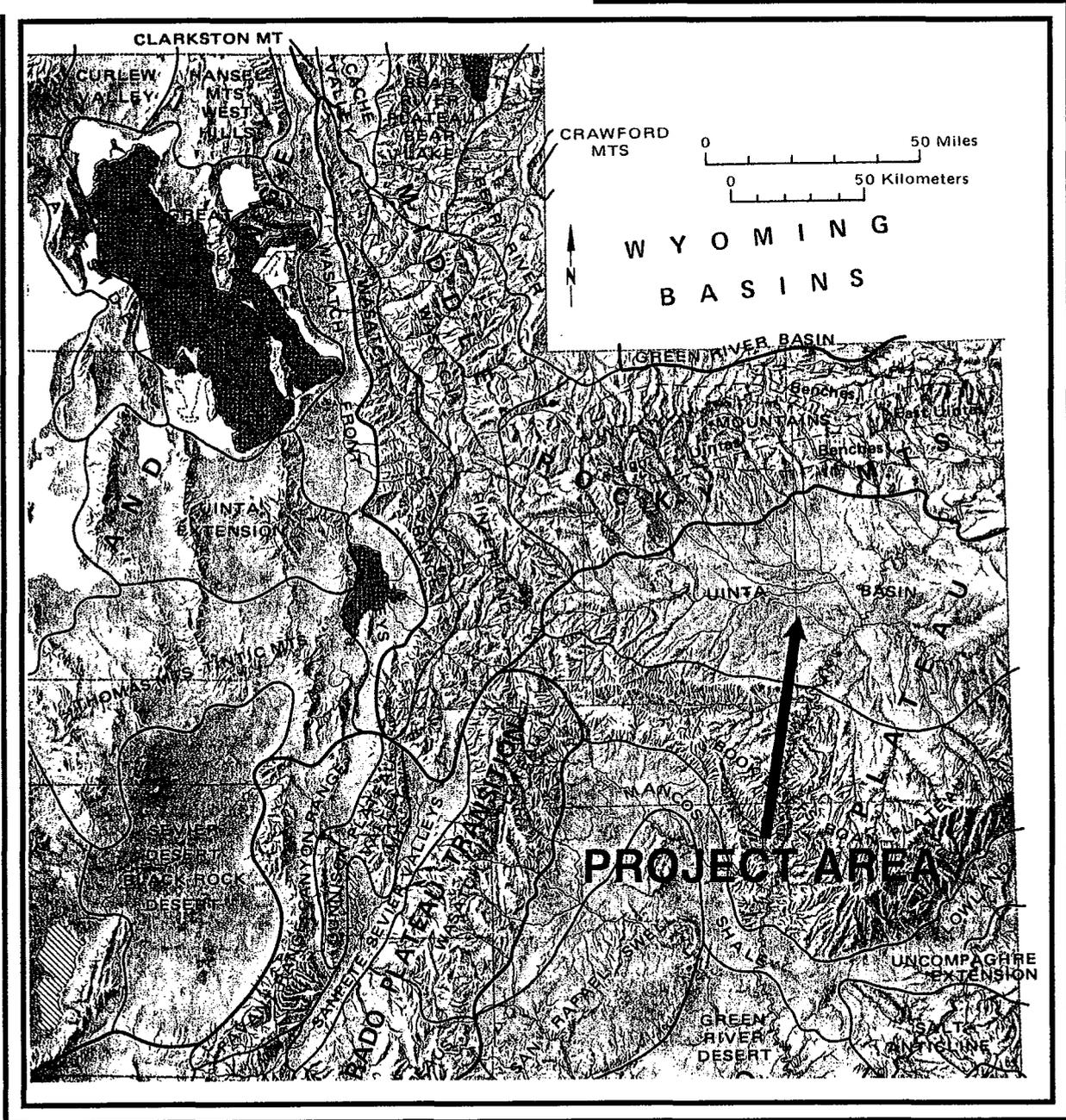
### Project Location

The project location is in the Pariette and Castle Peak Draw localities of Duchesne and Uintah Counties, Utah, and the Eight Mile Flat locality of Uintah County. All of the evaluated wells and access routes are situated on the Pariette Draw SW and Myton SE 7.5 minute topographic quads (see Maps).

Balcron Monument State #21-2-9-17 is situated in the SE quarter of the NE quarter of the NW quarter of Section 2, Township 9 South, Range 17 East SLBM, together with ca. 0.2 miles of access route (see Map 3).

**MAP 1: GENERAL BALCRON  
PROJECT LOCALITY  
IN DUCHESNE & UINTAH COUNTIES  
UTAH**

**PROJECT:** BLCR - 95 - 5  
**SCALE:** see below  
**QUAD:** UG & MS Map 43  
**DATE:** July 12, 1995



UTAH

T. multiple

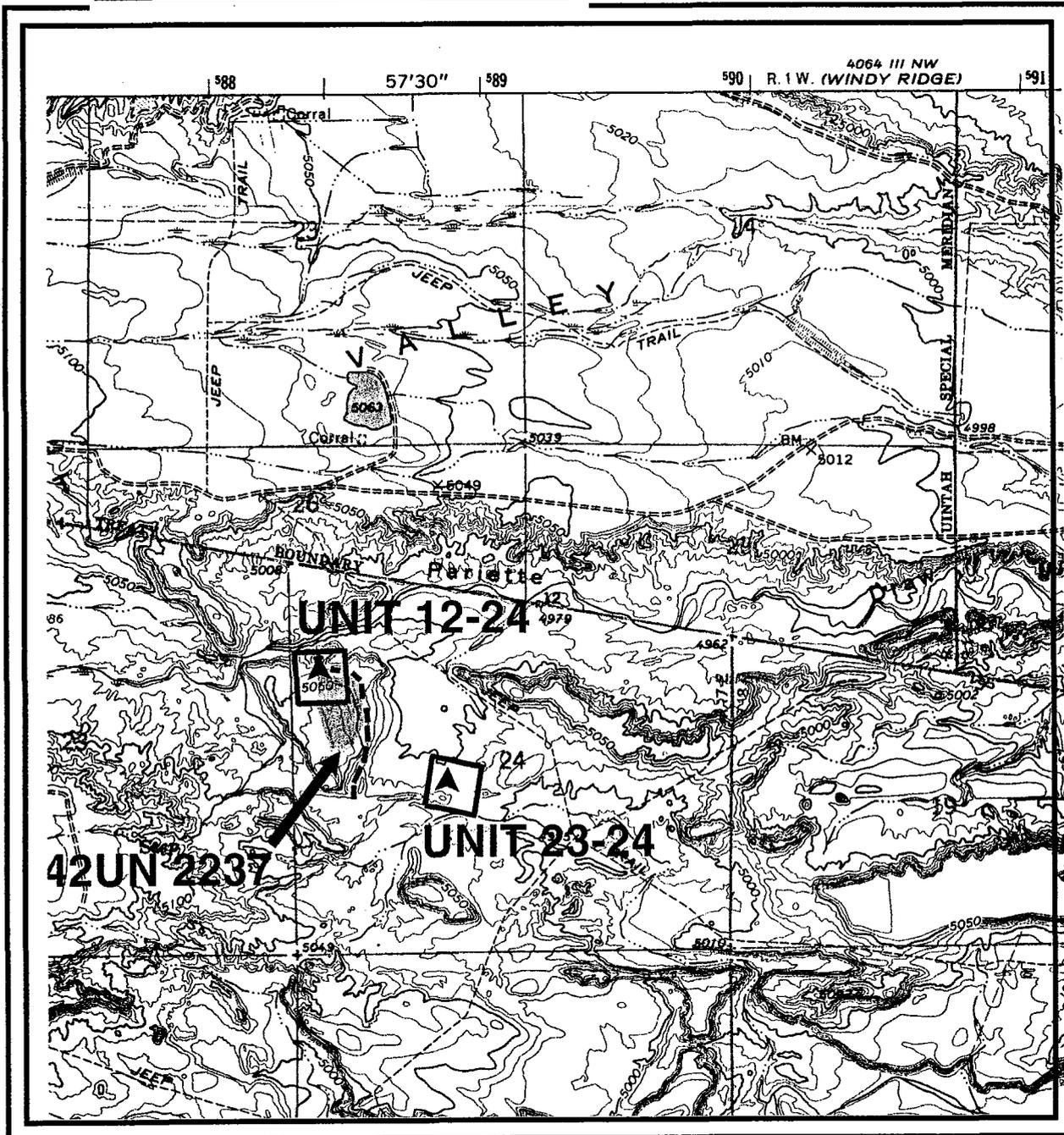
R. multiple

Meridian: Salt Lake B & M

(After PHYSIOGRAPHIC SUBDIVISIONS  
OF UTAH by W.L. Stokes)

**MAP 2: CULTURAL RESOURCE SURVEY  
OF BALCRON UNITS 12-24 & 23-24  
IN THE PARIETTE DRAW LOCALITY  
OF UTAH COUNTY, UTAH**

**PROJECT:** BLCR - 95 - 5  
**SCALE:** 1:24,000  
**QUAD:** Pariette Draw SW, Utah  
**DATE:** July 12, 1995



T. 8 South  
R. 17 East  
Meridian: Salt Lake B. & M.

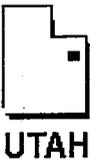
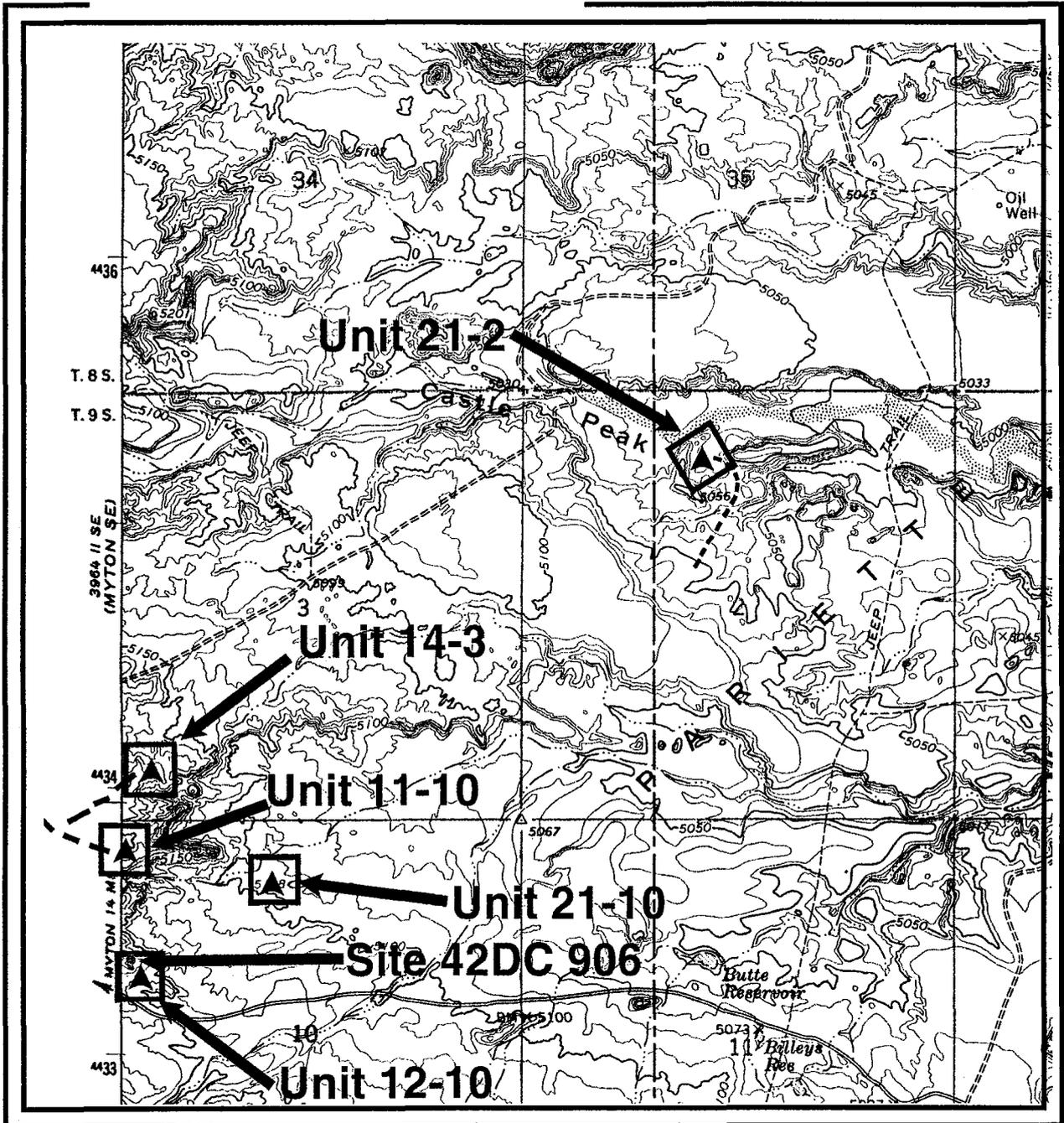
**LEGEND:**

- Well Location
- Access Route
- Cultural Site

Ten Acre  
Survey  
Area

**MAP 3: CULTURAL RESOURCE SURVEY  
 OF BALCRON UNITS 14-3, 11-10,  
 12-10, 21-2 & 21-10 IN THE  
 CASTLE PEAK DRAW LOCALITY OF  
 DUCHESNE & UTAH COUNTIES, UTAH**

**PROJECT:** BLCR - 95 - 5  
**SCALE:** 1:24,000  
**QUAD:** Pariette Draw SW, Utah  
**DATE:** July 12, 1995



T. 8 & 9 South  
 R. 17 East  
 Meridian: Salt Lake B. & M.

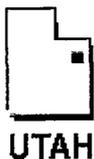
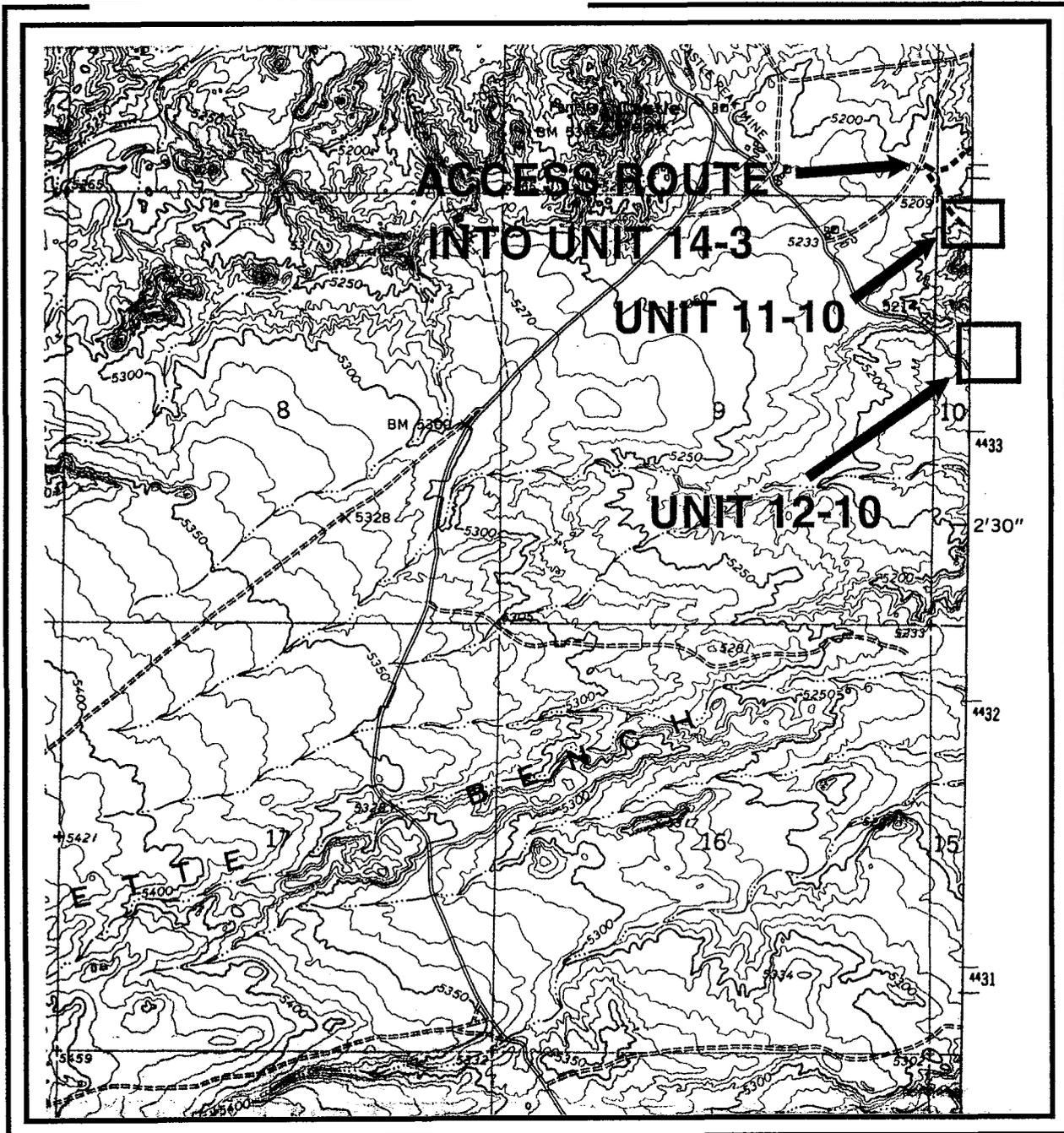
**LEGEND:**

- Well Location
- Access Route
- Cultural Site

Ten Acre  
 Survey  
 Area

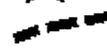
**MAP 4: CULTURAL RESOURCE SURVEY  
OF BALCRON UNITS 14-3, 11-10, & 12-10  
IN THE CASTLE PEAK DRAW LOCALITY  
OF DUCHESNE COUNTY, UTAH**

**PROJECT:** BLCR - 95 - 5  
**SCALE:** 1:24,000  
**QUAD:** Myton SE, Utah  
**DATE:** July 12, 1995



T. 9 South  
R. 17 East  
Meridian: Salt Lake B. & M.

**LEGEND:**

Well Location   
Access Route 

Ten Acre  
Survey  
Area 



Balcron Monument Federal #12-24-8-17 is situated in the NW quarter of the SW quarter of the NW quarter of Section 24, Township 8 South, Range 17 East SLBM, together with ca. 0.4 miles of access route (see Map 2).

Balcron Monument Federal #23-24-8-17 is situated in the NW quarter of the NE quarter of the SW quarter of Section 24, Township 8 South, Range 17 East SLBM (see Map 2).

Balcron Monument Federal #11-20-9-18Y is situated in the NW quarter of the NW quarter of the NW quarter of Section 20, Township 9 South, Range 18 East SLBM (see Map 5).

Balcron Monument Federal #22-20-9-18Y is situated in the Center of the SE quarter of the NW quarter of Section 20, Township 9 South, Range 18 East SLBM, together with ca. 0.3 miles of access route (see Map 5).

Balcron Monument Federal #14-3-9-17Y is situated in the SE quarter of the SW quarter of the SW quarter of Section 3, Township 9 South, Range 17 East SLBM, together with ca. 0.2 miles of access route (see Maps 3 and 4).

Balcron Monument Federal #11-10-9-17Y is situated in the NW quarter of the NW quarter of the NW quarter of Section 10, Township 9 South, Range 17 East SLBM, together with ca. 0.2 miles of access route (see Maps 3 and 4).

Balcron Monument Federal #12-10-9-17Y is situated in the Center of the SW quarter of the NW quarter of Section 10, Township 9 South, Range 17 East SLBM (see Maps 3 and 4).

Balcron Monument Federal #21-10-9-17Y is situated in the SE quarter of the NE quarter of the NW quarter of Section 10, Township 9 South, Range 17 East SLBM (see Map 3).

#### Environmental Description

The project area is within the 5000 to 5200 foot elevation zone above sea level. Open rangeland terrain and eroded Eocene lakebed surfaces are associated with the project localities.

The vegetation in the project area includes *Chrysothamnus* spp., *Artemisia* spp., *Sarcobatus vermiculatus*, *Ephedra viridis*, *Cercocarpus* spp., *Atriplex canescens*, and a variety of grasses.

The geological associations within the project area consist of fluvial lake deposits which correlate with the Uinta Formation which is of Tertiary age.

## PREVIOUS RESEARCH IN THE LOCALITY

### File Search

A records search of the site files and maps at the Antiquities Section of the State Historic Preservation Office in Salt Lake City was conducted on June 16, 1995. A similar search was conducted in the Vernal District Office of the BLM on June 20, 1995. The National Register of Historic Places has been consulted and no registered historic or prehistoric properties will be affected by the proposed developments.

A variety of known cultural sites are situated in the Monument Buttes / Castle Peak Draw/ Eight Mile Flat/ Pariette Draw localities. Many of these prehistoric resources were identified and recorded by AERC during the Mapco River Bend survey (Hauck and Norman 1980). Other sites have been located and recorded by AERC and other archaeologists and consultants during oil and gas exploration inventories (cf. Fike and Phillips 1984, Hauck and Weder 1989, Hauck and Hadden 1993, 1994).

### Prehistory and History of the Cultural Region

Currently available information indicates that the Northern Colorado Plateau Cultural Region has been occupied by a variety of cultures beginning perhaps as early as 10,000 B.C. These cultures, as identified by their material remains, demonstrate a cultural developmental process that begins with the earliest identified Paleoindian peoples (10,000 -- 7,000 B.C.) and extends through the Archaic (ca. 7,000 B.C. -- A.D. 300), and Formative (ca. A.D. 400 -- 1100) Stages, and the Late Prehistoric-Protohistoric periods (ca. A.D. 1200 -- 1850) to conclude in the Historic-Modern period which was initiated with the incursion of the Euro-American trappers, explorers, and settlers. Basically, each cultural stage -- with the exception of the Late Prehistoric hunting and gathering Shoshonean bands -- features a more complex life-way and social order than occurred during the earlier stage of development (Hauck 1991:53). For a more comprehensive treatment of the prehistory and history of this region see Archaeological Evaluations in the Northern Colorado Plateau Cultural Area (Hauck 1991).

### Site Potential in the Project Development Zone

Previous archaeological evaluations in the general project area have resulted in the identification and recording of a variety of cultural resource sites having eligibility for potential nomination to the National Register of Historic Places (NRHP). The majority of these sites are lithic scatters containing cobble reduction materials. Many of these quarry sites are of the "Tap and Test" variety, and extend for tens or hundreds of meters. Open occupations are also frequently being identified in this locality. Sites associated with the open rangeland generally appear to have been occupied during the Middle Plains Archaic Stage with occasional indications of Paleoindian activity based on the recovery of isolated Plano style projectile points. The north-south drainage canyons appear to contain the

majority of Late Prehistoric (Numa) sites probably because those canyon floors were transportation corridors and convenient pastures for the Ute horse herds. Evidence of Formative Stage occupation, i.e., Fremont, is rarely observed in the rangeland environment but is common within the Green River and White River canyons and their primary tributary canyons.

Site density in certain portions of the region appears to range from one to six sites per section. These densities increase in the canyon bottoms due to Ute rock art loci. Recent evaluations indicate that the site densities may reach 8 to 12 sites per section in certain localities on the upper benches which were apparently favored for hunting, lithic resource procurement, and camping. Prehistoric sites on the rangeland benches appear to be associated with water courses and aeolian deposits.

## **FIELD EVALUATIONS**

### Methodology

Intensive evaluations consisted of the archaeologist walking a series of 10 to 20 meter-wide transects across an area associated with each ten acre well pad. Access routes are evaluated by the archaeologist walking a pair of 10 to 15 meter-wide transects on either side of the flagged access route rights of way. Thus, a 30 meter-wide or 100 foot-wide corridor (ca. 15.75 acres) was examined for the various proposed access roads, in addition to the 90 acres inventoried on the well pads.

Observation of cultural materials results in intensive examinations to determine the nature of the resource (isolate or activity locus). The analysis of each specific cultural site results in its subsequently being sketched, photographed, and appropriately recorded on standard IMACS forms. Cultural sites are then evaluated for significance utilizing the standards described below and mitigation recommendations are considered as a means of preserving significant resources which may be situated within the development zone.

### Site Significance Criteria

Prehistoric and historic cultural sites which can be considered as eligible for nomination to the National Register of Historic Places have been outlined as follows in the National Register's Criteria for Evaluation as established in Title 36 CFR 60.6:

*The quality of significance in American ... archaeology ... and culture is present in ... sites ... that possess integrity of location, design, setting, materials, workmanship, feeling, and association and:*

- a. That are associated with events that have made a significant contribution to the broad patterns of our history; or*
- b. that are associated with the lives of persons significant in our past; or*

- c. that embody the distinctive characteristics of a type, period, or method of construction ... ; or*  
*d. that have yielded, or may be likely to yield, information important in prehistory or history.*

In addition to satisfying one or more of these general conditions, a significant cultural resource site in Utah will generally be considered as being eligible for inclusion in the National Register if it should advance our current state of knowledge relating to chronology, cultural relationships, origins, and cultural life ways of prehistoric or historic groups in the area.

In a final review of any site's cultural significance, the site must possess integrity and at least one of the above criteria to be considered eligible for nomination to the National Record of Historic Places.

#### Results of the Inventory

Two prehistoric cultural resource activity loci were observed and recorded during the archaeological evaluations.

**Site 42DC 906** consists of a shallow rockshelter and an associated scatter of burned stone, lithic debitage, one core and one biface, all contained within a ca. 10 x 10 meter area. The rock shelter faces toward the north and overlooks a large tributary basin/drainage into Castle Peak Draw.

This is a Significant site. The site contains the potential for having buried features and multi-component contexts, and thus the site qualifies for nomination to the National Register of Historic Places under criterion d of Title 36 CFR 60.6 and exhibits research potential.

This site is associated with Balcron's Monument Federal well #12-10-9-17Y. It is located outside the proposed development zone, but may receive secondary impacts in the form of increased visibility and access due to the development of this well. AERC recommends that a mitigation plan should be implemented, including surface mapping and excavation of buried cultural deposits prior to the commencement of any construction on Monument Federal well 12-10-9-17Y.

**Site 42UN 2237** consists of an extensive (ca. 250 x 150 meter) lithic scatter sparsely distributed across the top of a large, dune-covered ridge. Artifacts include primary, secondary and tertiary flakes, no tools and no features. Most of the debitage is exposed on the surface, with some revealed in small blowout depressions.

This is not a significant site. This site has lost most of the original context and contains little potential for having intact buried features or multi-component contexts. The site does not qualify under any of the criteria of Title 36 CFR 60.6.

42Un 2237 is located on the well pad and access route of Monument Federal well #12-24-8-17. Although this is not a significant site, there remains the potential for the discovery of significant deposits within the extensive dune field across much of the location. For this reason, AERC recommends that a qualified archaeologist be present during the initial blading and sub-surface disturbance of the well pad and access route associated with this site. If significant deposits are discovered during this operation, the appropriate mitigation measures should be taken.

No previously identified and recorded significant or National Register sites were noted or recorded during the survey.

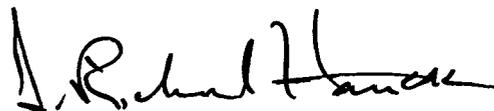
No diagnostic or non-diagnostic isolated artifacts were observed or recorded during the evaluation.

## CONCLUSION AND RECOMMENDATIONS

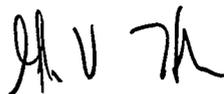
One known significant cultural resources may be adversely impacted during the development and operation of Balcron Well Unit 12-10-9-17Y. No other known significant cultural resources will be adversely impacted during the development and operation of the remaining Balcron Well Units as evaluated during this AERC project.

AERC recommends that a cultural resource clearance be granted to Balcron Oil Company relative to the development of these proposed drilling locations and the associated access routes based upon adherence to the following stipulations:

1. a mitigation plan should be implemented for Site 42Dc 906, including surface mapping and excavation of buried cultural deposits, prior to the commencement of any construction on Monument Federal well 12-10-9-17Y;
2. a qualified archaeologist should be present during the initial blading and sub-surface disturbance of the Monument Federal 12-24-8-17 well pad and access route associated with site 42Un 2237. If significant deposits are discovered during this operation, the appropriate mitigation measures should be taken;
3. all vehicular traffic, personnel movement, construction and restoration operations should be confined to the flagged areas and corridors examined as referenced in this report, and to the existing roadways;
4. all personnel should refrain from collecting artifacts and from disturbing any significant cultural resources in the area; and
5. the authorized official should be consulted should cultural remains from subsurface deposits be exposed during construction work or if the need arises to relocate or otherwise alter the location of the exploration area.



F. Richard Hauck, Ph.D.  
President and Principal Investigator



Glade V Hadden  
Field Supervisor

## REFERENCES

Fike, Richard E. and H. Blaine Phillips II

- 1984 "A Nineteenth Century Ute Burial from Northeast Utah." Cultural Resource Series No. 16, Bureau of Land Management, Salt Lake City.

Hauck, F. Richard

- 1981 Cultural Resource Inventory of Nine Proposed Well Locations and Access Roads in the Coyote Basin Locality of Uintah County, Utah, and in the Castle Peak Draw Locality of Duchesne County, Utah. Report prepared for Diamond Shamrock, DS-81-2, Archeological-Environmental Research Corporation, Bountiful.
- 1982 Cultural Resource Inventory of Five Proposed Well Locations and Access Roads in the Eightmile Flat and Castle Peak Localities of Uintah and Duchesne Counties, Utah. Report Prepared for Diamond Shamrock, DS-82-5, Archaeological-Environmental Research Corporation, Bountiful.
- 1984a Excavation (in) "A Nineteenth Century Ute Burial from Northeast Utah." Cultural Resource Series No. 16, Bureau of Land Management, ( Richard E. Fike and Blaine Phillips II editors and principal authors) Salt Lake City.
- 1984b Cultural Resource Evaluations of Seven Proposed Well Locations Situated in the Castle Peak Draw Locality of Uintah County, Utah. Report Prepared for Overthrust Oil and Royalty Company, OORC-84-1, Archaeological-Environmental Research Corporation, Bountiful.
- 1991 Archaeological Evaluations on the Northern Colorado Plateau Cultural Area, AERC Paper No. 45, Archeological-Environmental Research Corporation, Bountiful.
- 1992a Cultural Resource Evaluations of Four Proposed Well Locations in the Castle Peak Draw Locality of Duchesne County, Utah. Report prepared for Balcron Oil Company, BLCR-92-2, Archeological-Environmental Research Corporation, Bountiful.
- 1992b Addendum to Cultural Resource Evaluations of Four Proposed Well Locations in the Castle Peak Draw Locality of Duchesne County, Utah. Report prepared for Balcron Oil Company, BLCR-92-4, Archeological-Environmental Research Corporation, Bountiful.

- 1992c Cultural Resource Evaluations of Seven Proposed Well Locations in the Castle Peak Draw Locality of Duchesne County, Utah. Report prepared for Balcron Oil Company, BLCR-92-5, Archeological-Environmental Research Corporation, Bountiful.
- 1992d Cultural Resource Evaluation of a Proposed Water Pipeline Corridor in the Castle Peak Draw Locality of Duchesne County, Utah. Report prepared for Balcron Oil Company, BLCR-92-6, Archeological-Environmental Research Corporation, Bountiful.
- 1992e Cultural Resource Evaluation of Seven Proposed Well Locations in the Castle Peak Draw Locality of Duchesne County, Utah. Report prepared for Balcron Oil Company, BLCR-92-8, Archeological-Environmental Research Corporation, Bountiful.
- 1993a Cultural Resource Evaluation of Nine Proposed Well Locations in the Castle Peak Draw Locality of Duchesne and Uintah Counties, Utah. Report prepared for Balcron Oil Company, BLCR-93-1, Archeological-Environmental Research Corporation, Bountiful.
- 1993b Addendum to Cultural Resource Evaluation of Nine Proposed Well Locations in the Castle Peak Draw Locality of Duchesne and Uintah Counties, Utah. Report prepared for Balcron Oil Company, BLCR-93-2, Archeological-Environmental Research Corporation, Bountiful.
- 1993c Cultural Resource Evaluation of a Pipeline Corridor Situated in the Castle Peak Draw Locality of Duchesne County, Utah. Report prepared for Balcron Oil Company, BLCR-93-3, Archeological-Environmental Research Corporation, Bountiful.

Hauck, F. Richard and Glade V Hadden

- 1993a Cultural Resource Evaluation of Seven Proposed Well Locations in the Monument Buttes Locality of Duchesne County, Utah. Report prepared for Balcron Oil Company, BLCR-93-4, Archaeological-Environmental Research Corporation, Bountiful.
- 1993b Cultural Resource Evaluation of Four Proposed Well Locations in the Monument Buttes Locality of Duchesne County, Utah. Report prepared for Balcron Oil Company, BLCR-93-5, Archaeological-Environmental Research Corporation, Bountiful.

- 1993c Cultural Resource Evaluation of Eight Proposed Well Locations in the Monument Buttes Locality of Duchesne County, Utah. Report prepared for Balcron Oil Company, BLCR-93-9, Archaeological-Environmental Research Corporation, Bountiful.
- 1993d Cultural Resource Evaluation of Four Proposed Well Locations in the Monument Buttes and Pleasant Valley Localities of Duchesne and Uintah Counties, Utah. Report prepared for Balcron Oil Company, BLCR-93-10, Archaeological-Environmental Research Corporation, Bountiful.
- 1993e Cultural Resource Evaluation of Seven Proposed Wells in the Monument Buttes and Pleasant Valley Localities of Duchesne and Uintah Counties, Utah. Report prepared for Balcron Oil Company, BLCR-93-11, Archaeological-Environmental Research Corporation, Bountiful.
- 1994a Cultural Resource Evaluation of Eight Proposed Wells in the Pleasant Valley Locality of Uintah County, Utah. Report prepared for Balcron Oil Company, BLCR-94-3 Archaeological-Environmental Research Corporation, Bountiful.
- 1994b Cultural Resource Evaluation of Proposed Water Injection Line Lateral Segments in the Monument Buttes Locality of Duchesne County, Utah. Report prepared for Balcron Oil Company, BLCR-94-4, Archaeological-Environmental Research Corporation, Bountiful.
- 1994c Cultural Resource Evaluation of Proposed Well Locations and Access Routes in the Pariette Draw - Castle Peak Draw - Eight Mile Flat Localities of Duchesne and Uintah Counties, Utah. Report prepared for Balcron Oil Company, BLCR-94-9, Archaeological-Environmental Research Corporation, Bountiful.
- 1994d Cultural Resource Evaluation of Proposed Well Locations and Access Routes in the Castle Peak Draw and Eight Mile Flat Localities of Duchesne and Uintah Counties, Utah. Report Prepared for Balcron Oil Company, BLCR-94-10, Archaeological-Environmental Research Corporation, Bountiful.
- 1994e Cultural Resource Evaluation of Two Proposed Balcron Monument State Well Locations and Access Routes in the Castle Peak Draw Locality of Uintah County, Utah. Report Prepared for Balcron Oil Company, BLCR-94-10b, Archaeological-Environmental Research Corporation, Bountiful.

1994f Cultural Resource Evaluation of Proposed Well Locations and Access Routes in the Monument Buttes and Pleasant Valley Localities of Duchesne and Uintah Counties, Utah. Report Prepared for Balcron Oil Company, BLCR-94-11, Archaeological-Environmental Research Corporation, Bountiful.

Hauck, F. Richard and Norman, V. Garth

1980 Final Report on the Mapco River Bend Cultural Mitigation Study. AERC Paper No. 18, of the Archeological-Environmental Research Corporation, Bountiful.

Hauck, F. Richard and Dennis Weder

1989 Pariette Overlook -- A Paleo-Indian Quarry Site in the Pariette Draw Locality of Uintah County, Utah. AERC Paper No. 42, of the Archeological-Environmental Research Corporation, Bountiful.

Stokes, W. L.

1977 Physiographic Subdivisions of Utah. Map 43, Utah Geological and Mineral Survey, Salt Lake.

WORKSHEET  
APPLICATION FOR PERMIT TO DRILL

APD RECEIVED: 06/22/95

API NO. ASSIGNED: 43-013-31537

WELL NAME: BALCRON MON FED 21-10-9-17Y  
 OPERATOR: EQUITABLE RESOURCES (N9890)

PROPOSED LOCATION:

NENW 10 - T09S - R17E  
 SURFACE: 0807-FNL-2120-FWL  
 BOTTOM: 0807-FNL-2120-FWL  
 DUCHESNE COUNTY  
 MONUMENT BUTTE FIELD (105)

LEASE TYPE: FED  
 LEASE NUMBER: U-65210

PROPOSED PRODUCING FORMATION: GRRV

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

RECEIVED AND/OR REVIEWED:

Y Plat  
Y Bond: Federal  State  Fee   
           (Number 5547188)  
N Potash (Y/N)  
N Oil shale (Y/N)  
Y Water permit  
           (Number PRIVATE WELL)  
N RDCC Review (Y/N)  
           (Date: \_\_\_\_\_)

LOCATION AND SITING:

\_\_\_ R649-2-3. Unit: \_\_\_\_\_  
 R649-3-2. General.  
 \_\_\_ R649-3-3. Exception.  
 \_\_\_ Drilling Unit.  
       Board Cause no: \_\_\_\_\_  
       Date: \_\_\_\_\_

COMMENTS: \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

STIPULATIONS: \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_



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

Michael O. Leavitt  
Governor  
Ted Stewart  
Executive Director  
James W. Carter  
Division Director

355 West North Temple  
3 Triad Center, Suite 350  
Salt Lake City, Utah 84180-1203  
801-538-5340  
801-359-3940 (Fax)  
801-538-5319 (TDD)

July 28, 1995

Equitable Resources Energy Company  
1601 Lewis Avenue  
Billings, Montana 59102

Re: Balcron Monument Federal #21-10-9-17Y Well, 807' FNL, 2120' FWL, NE NW,  
Sec. 10, 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 43-013-31537.

Sincerely,

R. J. Firth  
Associate Director

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



Operator: Equitable Resources Energy Company  
Well Name & Number: Balcron Monument Federal #21-10-9-17Y  
API Number: 43-013-31537  
Lease: Federal U-65210  
Location: NE NW Sec. 10 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 Jimmie Thompson at (801)538-5340.

Notify the Division prior to commencing operations to plug and abandon the well. Contact Frank Matthews or Mike Hebertson at (801)538-5340.

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.

RECEIVED  
JUN 07 1995  
CONFIDENTIAL  
SUBMIT TO THE DIRECTOR (Other Instructions on reverse side)

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

Form approved.  
Budget Bureau No. 1004-0136  
Expires August 31, 1985

APPLICATION FOR PERMIT TO DRILL, DEEPEN OR PLUG BACK

1a. TYPE OF WORK  
 DRILL  DEEPEN  PLUG BACK

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

2. NAME OF OPERATOR  
 Equitable Resources Energy Company, Balcron Oil Division

3. ADDRESS OF OPERATOR  
 1601 Lewis Avenue; Billings, MT 59102 (406) 259-7860

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.)\*  
 At surface  
 NE NW Section 10, T9S, R17E 807' FNL, 2120' FWL  
 At proposed prod. zone

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE\*  
 Approximately 14.5 miles southwest of Myton, Utah

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

16. NO. OF ACRES IN LEASE

17. NO. OF ACRES ASSIGNED TO THIS WELL

13. DISTANCE FROM PROPOSED\* LOCATION TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT.

19. PROPOSED DEPTH  
 5,600'

20. ROTARY OR CABLE TOOLS  
 Rotary

21. ELEVATIONS (Show whether DF, RT, GR, etc.)  
 5,097' GL

22. APPROX. DATE WORK WILL START\*  
 10/1/95

23. PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
See attached	Drilling Program/Casing Design			

Operator proposes to drill this well in accordance with the attached EXHIBITS. A listing of EXHIBITS is also attached.

SELF CERTIFICATION: I hereby certify that I am authorized, by proper lease interest owner, to conduct these operations associated with the application. Bond coverage pursuant to 43 CFR 3104 for lease activities is being provided by Equitable Resources Energy Company as principal and Safeco Insurance Company of America as surety under BLM Bond No. MT 0576 (Nationwide Oil & Gas Bond #5547188) who will be responsible for compliance with all of the terms and conditions of that portion of the lease associated with this application.

RECEIVED  
 JUN 22 1995

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 Bobbie Schuman TITLE Regulatory and Environmental Specialist DATE June 21, 1995  
 (This space for Federal or State office use)

PERMIT NO. 43-013-315-37 APPROVAL DATE JUL 28 1995  
 APPROVED BY [Signature] TITLE ASSISTANT DISTRICT MANAGER MINERALS DATE JUL 28 1995  
 CONDITIONS OF APPROVAL, IF ANY

NOTICE OF APPROVAL CONDITIONS OF APPROVAL ATTACHED TO OPERATOR'S COPY

CONDITIONS OF APPROVAL  
APPLICATION FOR PERMIT TO DRILL

Company/Operator: Equitable Resources Energy Company

Well Name & Number: Balcron Monument Federal 21-10-9-17Y

API Number: 43-013-31537

Lease Number: U-65210

Location: NENW Sec. 10 T. 9S R. 17E

**NOTIFICATION REQUIREMENTS**

- Location Construction - at least forty-eight (48) hours prior to construction of location and access roads.
- Location Completion - prior to moving on the drilling rig.
- Spud Notice - at least twenty-four (24) hours prior to spudding the well.
- Casing String and Cementing - at least twenty-four (24) hours prior to running casing and cementing all casing strings.
- BOP and Related Equipment Tests - at least twenty-four (24) hours prior to initiating pressure tests.
- First Production Notice - within five (5) business days after new well begins, or production resumes after well has been off production for more than ninety (90) days.

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

## CONDITIONS OF APPROVAL FOR NOTICE TO DRILL

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

All lease and/or unit operations will be conducted in such a manner that full compliance is made with applicable laws, regulations (43 CFR 3100), Onshore Oil and Gas Orders, and the approved plan of operations. The operator is fully responsible for the actions of his subcontractors. A copy of these conditions will be furnished the field representative to insure compliance.

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

### A. DRILLING PROGRAM

#### 1. Estimated Depth at Which Oil, Gas, Water, or Other Mineral Bearing Zones are Expected to be Encountered

Report ALL water shows and water-bearing sands to Tim Ingwell of this office. Copies of State of Utah form OGC-8-X are acceptable. If noticeable water flows are detected, submit samples to this office along with any water analyses conducted.

All usable water and prospectively valuable minerals (as described by BLM at onsite) encountered during drilling, will be recorded by depth and adequately protected. All oil and gas shows will be tested to determine commercial potential.

#### 2. Pressure Control Equipment

The BOP and related equipment shall meet the minimum requirements of Onshore Oil and Gas Order No. 2 for equipment and testing requirements, procedures, etc., for a 2M system and individual components shall be operable as designed. Chart recorders shall be used for all pressure tests.

Test charts, with individual test results identified, shall be maintained on location while drilling and shall be made available to a BLM representative upon request.

If an air compressor is on location and is being utilized to provide air for the drilling medium while drilling, the special drilling requirements in Onshore Oil and Gas Order No. 2, regarding air or gas drilling shall be adhered to. If a mist system is being utilized then the requirement for a deduster shall be waived.

The Vernal District Office shall be notified, at least 24 hours prior to initiating the pressure tests, in order to have a BLM representative on location during pressure testing.

3. Casing Program and Auxiliary Equipment

Surface casing shall have centralizers on the bottom three joints, with a minimum of one centralizer per joint.

As a minimum, the usable water and oil shale resources shall be isolated and/or protected by having a cement top for the production casing at least 200 ft. above the top of the Mahogany Oil Shale zone identified at  $\pm 2704$  ft. If gilsonite is encountered while drilling, it shall be isolated and/or protected via the cementing program.

The Vernal District Office shall be notified at least 24 hours prior to the running and cementing of all casing strings, in order to have a BLM representative on location while running and cementing all casing strings.

4. Mud Program and Circulating Medium

Hazardous substances specifically listed by the EPA as a hazardous waste or demonstrating a characteristic of a hazardous waste will not be used in drilling, testing, or completion operations.

No chromate additives will be used in the mud system on Federal and Indian lands without prior BLM approval to ensure adequate protection of fresh water aquifers.

5. Coring, Logging and Testing Program

Daily drilling and completion progress reports shall be submitted to this office on a weekly basis.

All Drill Stem tests (DST) shall be accomplished during daylight hours, unless specific approval to start during other hours is obtained from the AO. However, DSTs may be allowed to continue at night if the test was initiated during daylight hours and the rate of flow is stabilized and if adequate lighting is available (i.e., lighting which is adequate for visibility and vaporproof for safe operations). Packers can be released, but tripping should not begin before daylight unless prior approval is obtained from the AO.

A cement bond log (CBL) will be run from the production casing shoe to  $\pm 2504$  ft. and shall be utilized to determine the bond quality for the production casing. Submit a field copy of the CBL to this office.

Whether the well is completed as a dry hole or as a producer, "Well Completion and Recompletion Report and Log" (Form 3160-4) will be submitted not later than 30 days after completion of the well or after completion of operations being performed, in accordance with 43 CFR 3164. Two copies of all logs, core descriptions, core analyses, well-test data, geologic summaries, sample description, and all other surveys or data obtained and compiled during the drilling, workover, and/or completion operations, will be filed with Form 3160-4. Samples (cuttings, fluids, and/or gases) will be submitted when requested by the AO.

6. Notifications of Operations

No location will be constructed or moved, no well will be plugged, and no drilling or workover equipment will be removed from a well to be placed in a suspended status without prior approval of the AO. If operations are to be suspended, prior approval of the AO will be obtained and notification given before resumption of operations.

The Vernal District Office shall be notified, during regular work hours (7:45 a.m.-4:30 p.m., Monday through Friday except holidays), at least 24 hours prior to spudding the well.

Operator shall report production data to MMS pursuant to 30 CFR 216.5 using form MMS/3160.

Immediate Report: Spills, blowouts, fires, leaks, accidents, or any other unusual occurrences shall be promptly reported in accordance with the requirements of NTL-3A or its revision.

If a replacement rig is contemplated for completion operations, a "Sundry Notice" (Form 3160-5) to that effect will be filed, for prior approval of the AO, and all conditions of this approved plan are applicable during all operations conducted with the replacement rig.

The date on which production is commenced or resumed will be construed for oil wells as the date on which liquid hydrocarbons are first sold or shipped from a temporary storage facility, such as a test tank, and for which a run ticket is required to be generated or, the date on which liquid hydrocarbons are first produced into a permanent storage facility, whichever first occurs; and, for gas wells as the date on which associated liquid hydrocarbons are first sold or shipped from a temporary storage facility, such as a test tank, and for which a run ticket is required to be generated or, the date on which gas is first measured through permanent metering facilities, whichever first occurs.

Should the well be successfully completed for production, the AO will be notified when the well is placed in a producing status. Such notification will be sent by telegram or other written communication, not later than five (5) days following the date on which the well is placed on production.

Gas produced from this well may not be vented or flared beyond an initial authorized test period of 30 days or 50 MMCF following its completion, whichever occurs first, without the prior written approval of the Authorized Officer. Should gas be vented or flared without approval beyond the authorized test period, the operator may be directed to shut-in the well until the gas can be captured or approval to continue venting or flaring as uneconomic is granted and the operator shall be required to compensate the lessor for that portion of the gas vented or flared without approval which is determined to have been avoidably lost.

A schematic facilities diagram as required by 43 CFR 3162.7-5 (b.9. d.), and shall be submitted to the appropriate District Office within sixty (60) days of installation or first production, whichever occurs first. All site security regulations as specified in Onshore Oil & Gas Order No. 3 shall be adhered to. All product lines entering and leaving hydrocarbon storage tanks will be effectively sealed in accordance with 43 CFR 3162.7-5 (b. 4).

No well abandonment operations will be commenced without the prior approval of the AO. In the case of newly drilled dry holes or failures, and in emergency situations, oral approval will be obtained from the AO. A "Subsequent Report of Abandonment" Form 3160-5, will be filed with the AO within thirty (30) days following completion of the well for abandonment. This report will indicate where plugs were placed and the current status of surface restoration. Final abandonment will not be approved until the surface reclamation work required by the approved APD or approved abandonment notice has been completed to the satisfaction of the AO or his representative, or the appropriate Surface Managing Agency.

7. Other Information

All loading lines will be placed inside the berm surrounding the tank battery.

All off-lease storage, off-lease measurement, or commingling on-lease or off-lease will have prior written approval from the AO.

The oil and gas measurement facilities will be installed on the well location. The oil and gas meters will be calibrated in place prior to any deliveries. Tests for meter accuracy will be conducted following initial installation and at least quarterly thereafter. The AO will be provided with a date and time for the initial meter calibration and all future meter proving schedules. A copy of the meter calibration reports will be submitted to the Vernal District Office. All meter measurement facilities will conform with Onshore Oil & Gas Order No. 4 for liquid hydrocarbons and Onshore Oil & Gas Order No. 5 for natural gas measurement.

The use of materials under BLM jurisdiction will conform to 43 CFR 3610.2-3.

There will be no deviation from the proposed drilling and/or workover program without prior approval from the AO. Safe drilling and operating practices must be observed. All wells, whether drilling, producing, suspended, or abandoned will be identified in accordance with 43 CFR 3162.

"Sundry Notice and Report on Wells" (Form 3160-5) will be filed for approval for all changes of plans and other operations in accordance with 43 CFR 3162.3-2.

Section 102(b)(3) of the Federal Oil and Gas Royalty Management Act of 1982, as implemented by the applicable provisions of the operating regulations at Title 43 CFR 3162.4-1(c), requires that "not later than the 5th business day after any well begins production on which royalty is due anywhere on a lease site or allocated to a lease site, or resumes production in the case of a well which has been off production for more than 90 days, the operator shall notify the authorized officer by letter or sundry notice, Form 3160-5, or orally to be followed by a letter or sundry notice, of the date on which such production has begun or resumed."

If you fail to comply with this requirement in the manner and time allowed, you shall be liable for a civil penalty of up to \$10,000 per violation for each day such violation continues, not to exceed a maximum of 20 days. See Section 109(c)(3) of the Federal Oil and Gas Royalty Management Act of 1982 and the implementing regulations at Title 43 CFR 3162.4-1(b)(5)(ii).

APD approval is valid for a period of one (1) year from the signature date. An extension period may be granted, if requested, prior to the expiration of the original approval period.

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

Wayne P. Bankert      (801) 789-4170  
Petroleum Engineer

Ed Forsman            (801) 789-7077  
Petroleum Engineer

BLM FAX Machine    (801) 781-4410

### EPA'S LIST OF NONEXEMPT EXPLORATION AND PRODUCTION WASTES

While the following wastes are nonexempt, they are not necessarily hazardous.

- Unused fracturing fluids or acids
- Gas plant cooling tower cleaning wastes
- Painting wastes
- Oil and gas service company wastes, such as empty drums, drum rinsate, vacuum truck rinsate, sandblast media, painting wastes, spent solvents, spilled chemicals, and waste acids
- Vacuum truck and drum rinsate from trucks and drums, transporting or containing nonexempt waste
- Refinery wastes
- Liquid and solid wastes generated by crude oil and tank bottom reclaimers
- Used equipment lubrication oils
- Waste compressor oil, filters, and blowdown
- Used hydraulic fluids
- Waste solvents
- Waste in transportation pipeline-related pits
- Caustic or acid cleaners
- Boiler cleaning wastes
- Boiler refractory bricks
- Incinerator ash
- Laboratory wastes
- Sanitary wastes
- Pesticide wastes
- Radioactive tracer wastes
- Drums, insulation and miscellaneous solids.

**SURFACE USE PROGRAM**  
Conditions of Approval (COAs)  
Equitable Resources Energy Company - Well #21-10-9-17Y

Methods For Handling Waste Materials and Disposal

The reserve pit shall be lined with a synthetic liner that is a minimum of 12 mil thickness with sufficient bedding to cover any rocks. The liner will overlap the pit walls and be covered with dirt and/or rocks to hold it in place. No trash, scrap pipe, etc., that could puncture the liner will be disposed of in the pit.

Plans For Reclamation Of Location

If this is a producing well and after the reclamation of the reserve pit and unused disturbed areas on the well pad, contact the authorized officer of the BLM for a seed mixture to return these areas to revegetation.

At time of abandonment the intent of reclamation will be to return the disturbed area to near natural conditions. Recontour the surface of the disturbed area to blend all cuts, fills, road berms, and borrow ditches to be natural in appearance with the surrounding terrain. After recontouring of the area, the stockpiled topsoil will be spread over the surface, and the area reseeded and revegetated to the satisfaction of the authorized officer of the BLM.

Other Information

The operator or his/her contractor shall contact the BLM Office at (801) 789-1362 forty-eight (48) hours prior to construction activities.

If the access road and oil well pad are scheduled to be constructed or the well is to be drilled between March 15 and August 15, contact the authorized officer of the BLM to coordinate additional surveys for mountain plover & burrowing owl. The notification will be required a minimum of 14 days prior to surface disturbance to allow time to conduct a wildlife survey. If an active nest or chicks are found, the proposed activity will be delayed until the chicks are out of downy plumage or the brood vacates the area.

DIVISION OF OIL, GAS AND MINING

CONFIDENTIAL

SPUDDING INFORMATION

Name of Company: EQUITABLE RESOURCES

Well Name: BALCRON MONUMENT FEDERAL 21-10-9-17Y

Api No. 43-013-31537

Section 10 Township 9S Range 17E County DUCHESNE

Drilling Contractor UNION

Rig # 17

SPUDDED: Date 11/20/95

Time 5:00 PM

How ROTARY

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

Reported by D. INGRAM-DOGM

Telephone # \_\_\_\_\_

Date: 11/20/95 SIGNED: JLT

11-27-95



**EQUITABLE RESOURCES  
ENERGY COMPANY**

**BALCRON OIL DIVISION**

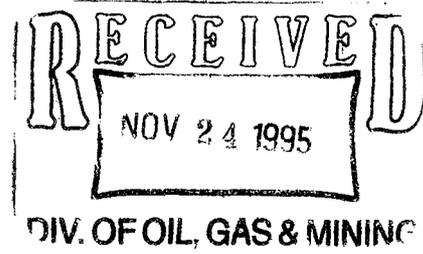
1601 Lewis Avenue  
Billings, MT 59102

Office: (406) 259-7860  
FAX: (406) 245-1365   
FAX: (406) 245-1361

**CONFIDENTIAL**

**November 21, 1995**

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



**Gentlemen:**

**RE: Balcron Federal #21-10-9-17Y  
NE NW Section 10, T9S, R17E  
Duchesne County, Utah  
API # 43-013-31537**

**This letter is notice that the subject well was spud on 11-20-95 at  
4:00 p.m.**

**Please feel free to contact me if you have any questions.**

**Sincerely,**

*Molly Conrad*

**Molly Conrad  
Operations Secretary**

**/mc**

**cc: State of Utah, Division of Oil, Gas, & Mining - also enclosed is  
Entity Action Form 6.  
Mary Lou Dixon, Uintah Basin Health Dept. - VIA FAX  
Bobbie Schuman  
Lou Ann Carlson**

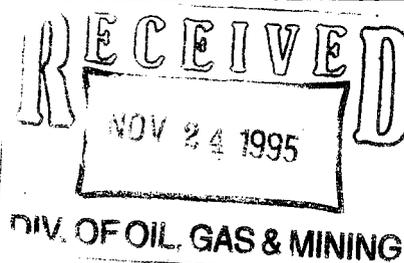
OPERATOR Equitable Resources Energy Co., Balcron Oil Div OPERATOR ACCT. NO. N 9890  
 ADDRESS 1601 Lewis Avenue  
Billings, MT 59102  
(406) 259-7860

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	11859	43-013-31537	Balcron Federal #21-10-9-17Y	NE NW	10	9S	17E	Duchesne	11-20-95	11-20-95
WELL 1 COMMENTS: Spud of a new well. <i>Entity added 11-27-95. JPC</i>											
WELL 2 COMMENTS:											
WELL 3 COMMENTS:											
WELL 4 COMMENTS:											
WELL 5 COMMENTS:											

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

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

(3/89)



*Molly Conrad*  
 Signature  
 Operations Secretary Title  
 11-21-95 Date  
 Phone No. (406) 259-7860 ext 236

1

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

OPERATOR: EQUITABLE RESOURCES COMPANY REP: AL PLUNKETT

WELL NAME: BALCRON MON FED #21-10-9-17Y 1 API NO 43-013-31537

QTR/QTR: NE/NW SECTION: 10 TWP: 09S RANGE: 17E

CONTRACTOR: UNION DRILLING COMPANY RIG NUMBER: #17

INSPECTOR: DENNIS L. INGRAM TIME: 1:00 PM DATE: 11/20/95

SPUD DATE: DRY: 11//20/95 ROTARY: 11/20/95 PROJECTED T.D.: \_\_\_\_\_

OPERATIONS AT TIME OF VISIT: PICKING UP 12 1/4" BIT.

WELL SIGN: Y MUD WEIGHT NA LBS/GAL BOPE: N

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

ENVIRONMENTAL:

RESERVE PIT: Y FENCED: Y LINED: Y PLASTIC: Y

RUBBER: N BENTONITE: N SANITATION: Y

BOPE TEST RECORDED IN THE RIG DAILY TOUR BOOK: N/A

REMARKS:

HAVE JUST COMPLETED RIGGING UP. WILL SPUD WELL WITHIN THE NEXT  
HOUR OR SO.

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

Operator: EQUITABLE RESOURCES Lease: State:      Federal: X Indian:      Fee:     

Well Name: BALCRON FEDERAL 21-10-9-17Y API Number: 43-013-31537

Section: 10 Township: 9S Range: 17E County: DUCHESNE Field: MON. BUTTE

Well Status: POW Well Type: Oil: YES Gas:     

**PRODUCTION LEASE EQUIPMENT: (NUMBER)**

Boiler(s):      Compressor(s):      Separator(s):      Dehydrator(s):     

Shed(s):      Line Heater(s):      Heated Separator(s):      VRU:     

Heater Treater(s): (1)

**PUMPS:**

Triplex:      Chemical:      Centrifugal: (1)

**LIFT METHOD:**

Pumpjack: YES Hydraulic:      Submersible:      Flowing:     

**GAS EQUIPMENT: (NUMBER)**

Purchase Meter: NO Sales Meter: NO

**TANKS:**

	NUMBER	SIZE	
Oil Storage Tank(s):	<u>YES</u>	<u>2-400 TANKS</u>	BBLS
Water Tank(s):	<u>YES</u>	<u>1-200</u>	BBLS
Power Water Tank:	<u>    </u>	<u>    </u>	BBLS
Condensate Tank(s):	<u>    </u>	<u>    </u>	BBLS
Propane Tank:	<u>(1)</u>		

**Central Battery Location: (IF APPLICABLE)**

Qtr/Qtr:      Section:      Township:      Range:     

REMARKS: CENTRIFUGAL IS FOR HEAT TRACE SYSTEM. PROPANE FOR BACKUP, RUNING  
ON CASING GAS, VENTING SAME.

Inspector: DENNIS L. INGRAM Date: 12/27/95

EQUITABLE RESOURCES  
BALCROW FEDERAL 21-10-9-174

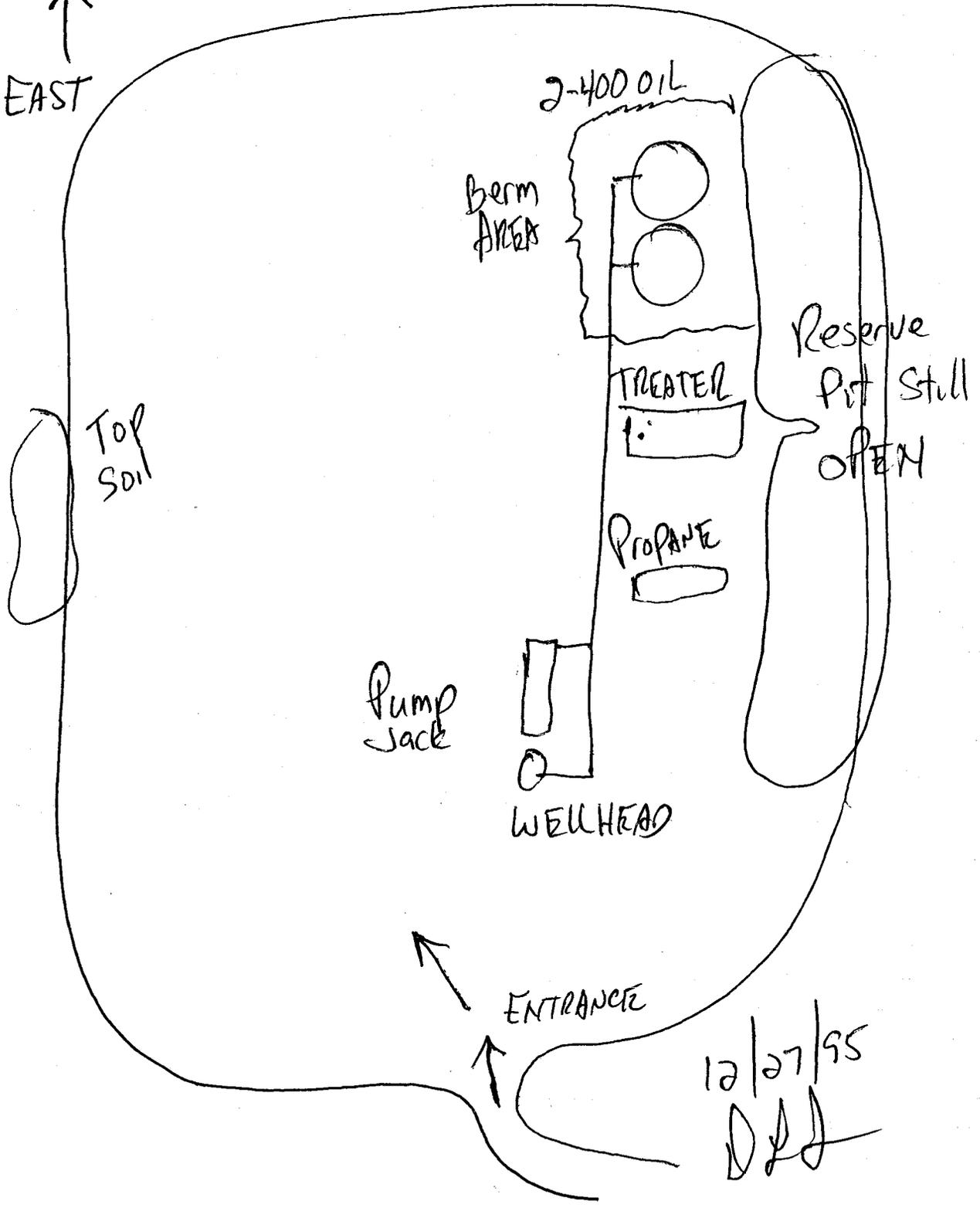
SEC 10; T9S; R17E

U-65210

POW

43-013-31537

↑  
EAST



22-141 50 SHEETS  
22-142 100 SHEETS  
22-144 200 SHEETS



ANIRAD

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

5. Lease Designation and Serial No.  
U-65210

6. If Indian, Allottee or Tribe Name  
n/a

7. If Unit or CA, Agreement Designation  
n/a

8. Well Name and No.  
Balcron Monument Fed. #21-10-9-17Y

9. API Well No.  
43-013-31537

10. Field and Pool, or Exploratory Area  
Monument Butte/Green River

11. County or Parish, State  
Duchesne County, Utah

**SUNDRY NOTICES AND REPORTS ON WELLS**

Do not use this form for proposals to drill or to 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  
EQUITABLE RESOURCES ENERGY COMPANY, BALCRON OIL DIVISION

3. Address and Telephone No.  
1601 Lewis Avenue; Billings, MT 59102 (406) 259-7860

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)  
 SURFACE: 807' FNL & 2120' FWL  
 TD: \_\_\_\_\_

**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 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>Onshore Order #7</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.)\*

Any water produced by this well will be held in a produced water tank and trucked to a commercial disposal facility. The primary facility to be used in the R.N. Industries produced water disposal facility located in Section 9, T2S, R2W in Duchesne County, Utah. A copy of the State-issued permit for that facility is on file at the Vernal Bureau of Land Management. If for some reason the operator is unable to use this primary facility, the produced water will be trucked to another State-approved disposal facility. If applicable, Operator has received approved Right-of-Way access to this well location from the Bureau of Land Management.

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

Signed Molly Comed Title Operations Secretary Date 1-30-96  
 (This space for 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 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.

**\*See Instruction on Reverse Side**

REPORT OF WATER ENCOUNTERED DURING DRILLING FEB - 1 1996

1. Well name and number: Balcron Monument Federal #21-10-9-17Y

API number: 43-013-31537

2. Well Location: QQ NE NW Section 10 Township 9S Range 17E County Duchesne

3. Well operator: Equitable Resources Energy Company, Balcron Oil Division

Address: 1601 Lewis Avenue

Billings, MT 59102

Phone: (406) 259-7860

4. Drilling contractor: Union Drilling

Drawer 40

Address: Buckhannon, WV 26201

Phone: (304) 472-4610

5. Water encountered (attach additional pages as needed):

DEPTH		VOLUME (FLOW RATE OR HEAD)	QUALITY (FRESH OR SALTY)
FROM	TO		
		No measurable water encountered	
		during drilling operations	

6. Formation tops: Please see original Completion Report.

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

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

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

Date: 1-30-96

Name & Signature: Molly Conrad, Molly Conrad

Title: Operations Secretary

**SUNDRY NOTICES AND REPORTS ON WELLS**

Do not use this form for proposals to drill or to 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

EQUITABLE RESOURCES ENERGY COMPANY, BALCRON OIL DIVISION

3. Address and Telephone No.

1601 Lewis Avenue; Billings, MT 59104 (406) 259-7860

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

SURFACE: 807' FNL & 2120' FWL  
 TD:

5. Lease Designation and Serial No.

U-65210

6. If Indian, Allottee or Tribe Name

n/a

7. If Unit or CA, Agreement Designation

n/a

8. Well Name and No.

Balcron Monument Fed. #21-10-9-17Y

9. API Well No.

43-013-31537

10. Field and Pool, or Exploratory Area

Monument Butte/Green River

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 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>Site Security Diagram</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.)

Attached is the Site Security Diagram for this well.

FEB - 1 1996

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

Signed Molly Conrad Title Operations Secretary Date 1-30-96

(This space for 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 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.

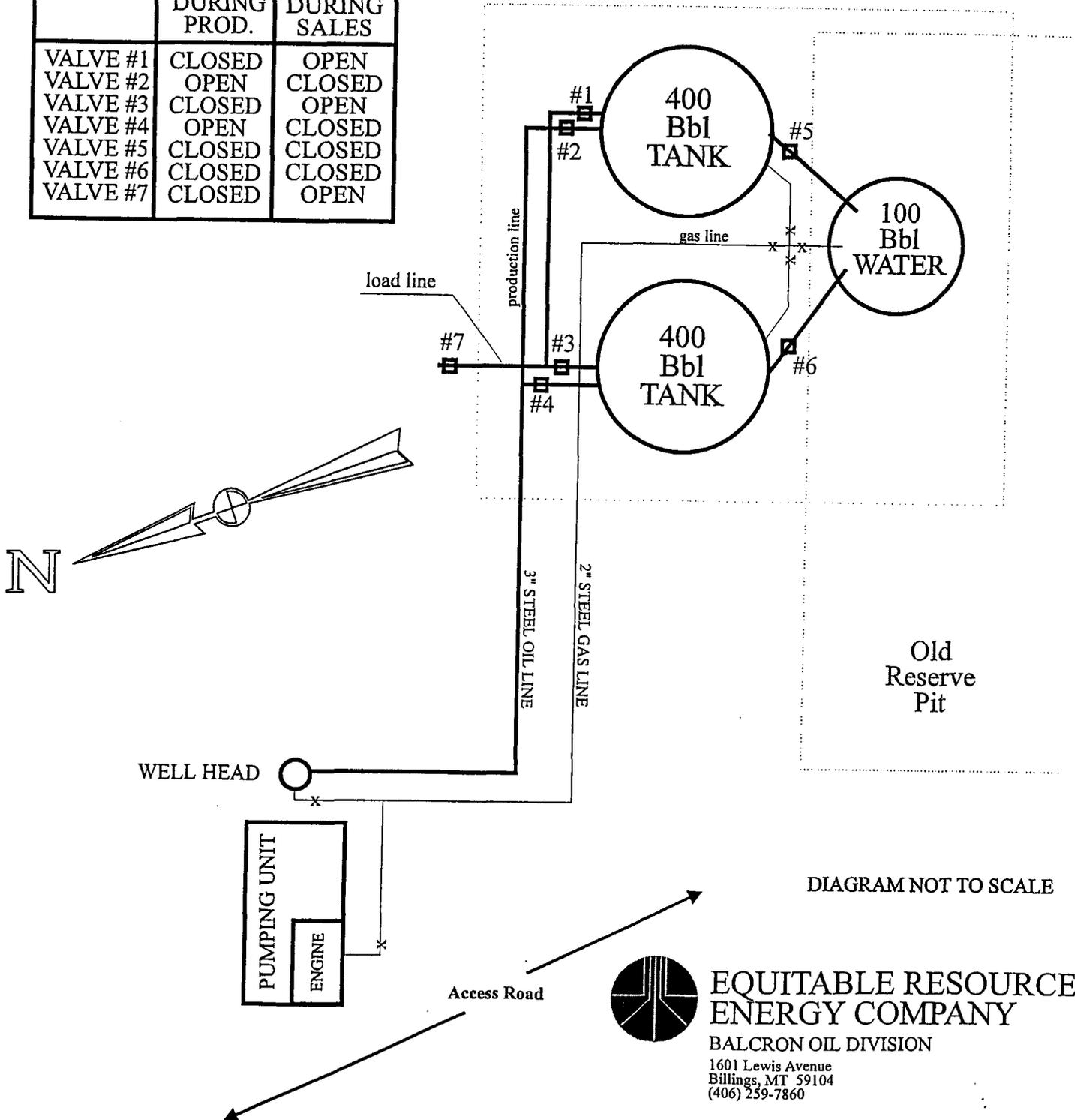
\*See instruction on Reverse Side

Equitable Resources Energy Company  
 Balcron Federal 21-10-9-17Y  
 Production Facility Diagram

Balcron Federal 21-10-9-17Y  
 NE NW Sec. 10, T9S, R17E  
 Duchesne County, Utah  
 Federal Lease #U-65210  
 807' FNL, 2120' FWL

VALVE DESCRIPTION		
	DURING PROD.	DURING SALES
VALVE #1	CLOSED	OPEN
VALVE #2	OPEN	CLOSED
VALVE #3	CLOSED	OPEN
VALVE #4	OPEN	CLOSED
VALVE #5	CLOSED	CLOSED
VALVE #6	CLOSED	CLOSED
VALVE #7	CLOSED	OPEN

DIKE



**EQUITABLE RESOURCES ENERGY COMPANY**  
 BALCRON OIL DIVISION  
 1601 Lewis Avenue  
 Billings, MT 59104  
 (406) 259-7860

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

SUBMIT IN DUPLICATE

(See other instructions on reverse side)

Form approved.  
Budget Bureau No. 1004-0137  
Expires August 31, 1985

WELL COMPLETION OR RECOMPLETION REPORT AND LOG \*

1a. TYPE OF WELL: OIL WELL  GAS WELL  DRY  Other

b. TYPE OF COMPLETION: NEW WELL  WORK OVER  DEEP-EN  PLUG BACK  DIFF. RENVR.  Other

**CONFIDENTIAL**

2. NAME OF OPERATOR  
Equitable Resources energy Company, Palcon Oil Division

3. ADDRESS OF OPERATOR  
1601 Lewis Avenue, Billings, MT 59102 (406) 259-7860

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements)\*  
At surface NE NW Section 10, T9S, R17E 807' ENL & 2120' FWL

At top prod. interval reported below

At total depth

14. PERMIT NO. 43-013-31537 DATE ISSUED 7-28-95

15. DATE SPUNDED 11-20-95 16. DATE T.D. REACHED 11-27-95 17. DATE COMPL. (Ready to prod.) 12-22-95 18. ELEVATIONS (DF, RKB, RT, GR, ETC.)\* 5097' GL 19. ELEV. CASINGHEAD n/a

20. TOTAL DEPTH, MD & TVD 5,600' 21. PLUG, BACK T.D., MD & TVD 5530' 22. IF MULTIPLE COMPL., HOW MANY\* n/a 23. INTERVALS DRILLED BY → 24. ROTARY TOOLS SFC - TD 25. CABLE TOOLS n/a

24. PRODUCING INTERVAL(S), OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD)\* 4850' - 4875' 25. WAS DIRECTIONAL SURVEY MADE No

26. TYPE ELECTRIC AND OTHER LOGS RUN DLL/GR LDL/CNL/CR MUD LOG, CBL 11-30-95 27. WAS WELL CORED No

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

CASING SIZE	WEIGHT, LB./FT.	DEPTH SET (MD)	HOLE SIZE	CEMENTING RECORD	AMOUNT PULLED
8-5/8"	24#	259.85'	12-1/4"	160 sxs Class G w/additives	None
5-1/2"	15.5#	5579.74'	7-7/8"	240 sxs Super G w/additives	None
				280 sxs 50/50 POZ w/additives	

29. LINER RECORD

SIZE	TOP (MD)	BOTTOM (MD)	SACKS CEMENT*	SCREEN (MD)
n/a				

30. TUBING RECORD

SIZE	DEPTH SET (MD)	PACKER SET (MD)
2-7/8"	4943.54'	n/a

31. PERFORATION RECORD (Interval, size and number)

4850' - 4868' (4 SPF)  
4871' - 4875' (4 SPF)

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

DEPTH INTERVAL (MD)	AMOUNT AND KIND OF MATERIAL USED
4850' - 4875'	Break down w/2982 gallons 2% KCL wtr. Frac w/120,070# 16/30 mesh sand w/27,594 gallons 2% gelled KCL wtr.

33.\* PRODUCTION

DATE FIRST PRODUCTION	PRODUCTION METHOD (Flowing, gas lift, pumping—size and type of pump)	WELL STATUS (Producing or shut-in)
12-22-95	1-1/2" Insert Pump	Producing

DATE OF TEST	HOURS TESTED	CHOKE SIZE	PROD'N. FOR TEST PERIOD	OIL—BBL.	GAS—MCF.	WATER—BBL.	GAS-OIL RATIO
1-21-96	24	n/a	→	10	N.M.	0	N.M.

FLOW, TUBING PRESS.	CASING PRESSURE	CALCULATED 24-HOUR RATE	OIL—BBL.	GAS—MCF.	WATER—BBL.	OIL GRAVITY-API (CORR.)
n/a	r/a	→	10	N.M.	0	34

34. DISPOSITION OF GAS (Sold, used for fuel, vented, etc.) Used for fuel. TEST WITNESSED BY Dale Griffin

35. LIST OF ATTACHMENTS

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

SIGNED Molly Conrad TITLE Operations Secretary DATE 1-30-96

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

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

38. GEOLOGIC MARKERS

FORMATION	TOP	BOTTOM	DESCRIPTION, CONTENTS, ETC.	NAME	TOP	
					MEAS. DEPTH	TRUE VERT. DEPTH
			No DST's run.	Green River Horseberch SS 2nd Garden Gulch Douglas Creek Castle Peak	3151' 2127' 3743' 4354' 5332'	3151' 2127' 3743' 4354' 5332'

DAILY OPERATING REPORT

BALCRON MONUMENT FEDERAL #21-10-9-17Y

Location: NE NW Section 10, T9S, R17E

Duchesne County, Utah

807' FNL & 2120' FWL

PTD: 5,600' Formation: Green River

Monument Butte

Elevations: 5,097' GL

Contractor: Union Drilling #17

Operator: Balcron/EREC

Spud: 11-20-95 @ 4 p.m.

Casing: 8-5/8" @ 259.85'

5-1/2" @ 5579.74'

Tubing: 2-7/8" @ 4943.54

---TIGHT HOLE---

11-10/19-95 Build location & install pit liner

DC: \$22,477

CC: \$22,477

11-21-95 TD: 280' (280') Day 1

Formation: Uintah

MW air & mist

Present Operation: NU BOP

MIRU, drill rat hole, set conductor, & install air bowl. Drill 12-1/4" hole, blow hole,

TOOH & run 8-5/8" csg as follows:

Guide shoe .60'

1 jt 8-5/8" 24# shoe jt 42.05'

Baffle Plate ---

5 jts 8-5/8" 24# J-55 207.20'

249.85'

Landing jt 10.00'

8-5/8" csg set @ 259.85'

Cmt by BJ w/160 sxs Cmt w/2% CCL & 1/4#/sx Celloseal. 6 bbls cmt back to pit.

Plug down @ 12:15 a.m. Spud well @ 4:00 p.m.

DC: \$9,622

CC: \$32,099

11-22-95 TD: 1,345' (1,065') Day 2

Formation: Uintah

MW air & mist

Present Operation: Drilling

NU BOP & test BOP & manifold to 2000# - OK. Test csg to 1500# - OK. TIH, drill

cmt, drill, survey & clean on rig.

DC: \$14,501

CC: \$46,600

11-27-95 TD: 5,600' (158') Day 8

Formation: B-Zone

MW 8.5 VIS 28 pH 10

Present Operation: Run 5-1/2" Casing

Drill, circulate for logs, drop survey, TOOH, log well, TIH, lay down drill pipe and drill collars. Change pipe ramp and test BOP to 2,000 psig. OK. Rig up casers

and start running 5-1/2" csg.

DC: \$15,202

CC: \$120,404

DAILY OPERATING REPORT

BALCRON MONUMENT FEDERAL #21-10-9-17Y

Location: NE NW Section 10, T9S, R17E

Duchesne County, Utah

---TIGHT HOLE---

11-28-95 TD 5,600' (0') Day 9

Formation: B-Zone

Present Operation: 5-1/2" Casing Cement & Moved Off

Run 5-1/2" casing, circulate, cement casing, set slips, nipple down BOP. Clean mud tank. RD, move off. Release rig 2:00 pm, 11-28-95.

<u>Casing</u>	Guide Shoe	.60'
	1 jt. 5-1/2", 15.50 shoe jt.	41.62'
	Float Collar	1.00'
	128 jts. 5-1/2", 15.50, J-55	<u>5526.52'</u>
		5569.74'
	Landing jt.	<u>10.00'</u>
	Set at	5579.74'
	PBTD	5536.52'

Cement by BJ Services with 240 sks. Super "G". 47# per sk. "G" + 3# per sk. poz + 34# per sk. BA 91 + 3% salt + 2% gel + 3# per sk. hi seal2 + 1/4# per sk. cello seal. Tail with 280 sks 50/50 poz + 2% gel + 1/4# per sk. cello seal + 2# per sk. hi seal2. Plug down 10:00 am, release rig 2:00 pm.

DC: \$48,012

CC: \$168,416

12-6-95 Completion

MIRU Basin Well Service Rig #2. NU 5M wellhead, NU BOP. TIH w/4-3/4" bit, 5-1/2" csg scraper & 179 jts 2-7/8" tbg. Tag PBTD @ 5530' KB. Circ hole clean w/125 bbls 2% KCL wtr. TOO H w/tbg, scraper & bit. RU Cutter WL to run CBL from 5506' KB to 1700' KB w/1000 psi, TOC @ 1880' KB. Perf 4850'-68 & 4871'-75' (4 SPF). RD Cutter WL. SIWFN. 118 BLWTR.

DC: \$7,907

CC; \$176,323

12-7-95 Completion

TIH w/RBP, retrieving tool, 2-3/8" x 6' sub, HD packer, 2-3/8" x 2-7/8" crossover, SN & 159 jts 2-7/8" tbg. Flow back 40 BW. Set BP @ 4925' KB, EOT @ 4791' KB, packer @ 2780' KB. RU BJ Services to break down w/2982 gals 2% KCL wtr. L ATP 2650 psi, ATR 6 bpm, ISIP 2000 psi, pump 4 balls/bbl. TOO H w/tbg, retrieving tool, & packer, flow back 5 BW. RU BJ to frac w/102,070# 16/30 mesh sand w/27,594 gals 2% KCL gelled wtr. ATP 2400 psi, ATR 31.4 bpm. ISIP 2320, 5 min 2010 psi, 10 min 1900 psi, 15 min 1830 psi & 30 min 1730 psi. Flow back 4 hrs, 215 BW & trace sand. SWIFN. 586 BLWTR.

DC: \$35,525

CC: \$211,848



**STATE OF UTAH**  
**DIVISION OF OIL, GAS AND MINING**  
 355 West North Temple, 3 Triad, Suite 350, Salt Lake City, UT 84180-1203

## MONTHLY OIL AND GAS PRODUCTION REPORT

OPERATOR NAME AND ADDRESS:

UTAH ACCOUNT NUMBER: N9890

BALCRON OIL DIVISION  
 EQUITABLE RESOURCES ENERGY  
 1601 LEWIS AVE  
 BILLINGS MT 59102-4126

REPORT PERIOD (MONTH/YEAR): 3 / 96

AMENDED REPORT  (Highlight Changes)

Well Name			Producing Zone	Well Status	Days Oper	Production Volumes		
API Number	Entity	Location				OIL(BBL)	GAS(MCF)	WATER(BBL)
✓	BALCRON FEDERAL 42-19Y							
4304732616	11756 09S 18E 19		GRRV					
✓	BALCRON FEDERAL 12-20Y							
4304732617	11758 09S 18E 20		GRRV					
✓	BALCRON FEDERAL 32-19Y							
4304732615	11771 09S 18E 19		GRRV					
✓	BALCRON MONUMENT FEDERAL 24-25							
4304732669	11825 08S 17E 25		GRRV					
✓	BALCRON MONUMENT FEDERAL 34-25							
4304732670	11831 08S 17E 25		GRRV					
✓	BALCRON MONUMENT FEDERAL 22-22-8-17Y							
01331538	11842 08S 17E 22		GRRV					
✓	BALCRON MONUMENT FEDERAL 11-22-8-17Y							
4301331539	11845 08S 17E 22		GRRV					
✓	BALCRON MONUMENT FEDERAL 11-20-9-18Y							
4304732712	11846 09S 18E 20		GRRV					
✓	BALCRON MONUMENT FEDERAL 22-20-9-18Y							
4304732711	11852 09S 18E 20		GRRV					
✓	BALCRON MONUMENT FEDERAL 14-3-9-17Y							
4301331535	11857 09S 17E 3		GRRV					
✓	BALCRON MONUMENT FEDERAL 21-10-9-17Y							
4301331537	11859 09S 17E 10		GRRV					
✓	BALCRON MONUMENT STATE 21-2-9-17Y							
4304732703	11863 09S 17E 2		GRRV					
✓	BALCRON MONUMENT FEDERAL 12-10-9-17Y							
4301331536	11867 09S 17E 10		GRRV					
<b>TOTALS</b>								

COMMENTS: \_\_\_\_\_

I hereby certify that this report is true and complete to the best of my knowledge. Date: \_\_\_\_\_

Name and Signature: \_\_\_\_\_ Telephone Number: \_\_\_\_\_

UTAH

Balcron Monument Fed. #14-12J	Monument Butte	SW SW	12	9S	16E	Duchesne	UT	WIW	Green River	U-035521-A	43-013-31411	660' FSL, 660' FWL	Vernal	Jonah
Balcron Monument Fed. #14-15	Monument Butte	SW SW	15	9S	16E	Duchesne	UT	PND	Green River	U-017985	43-013-31381	772' FSL, 543' FWL	Vernal	
Balcron Monument Fed. #14-26	Monument Butte	SW SW	26	8S	16E	Duchesne	UT	PND	Green River	U-34346	43-013-31512	660' FSL, 660' FWL	Vernal	
Balcron Monument Fed. #14-3-9-17Y	Monument Butte	SW SW	3	9S	17E	Duchesne	UT	Oil	Green River	U-64381	43-013-31535	671' FSL, 792' FWL	Vernal	
Balcron Monument Fed. #14-4	Monument Butte	SW SW	4	9S	16E	Duchesne	UT	PND	Green River	U-73086	43-013-31430	719' FSL, 607' FWL	Vernal	
Balcron Monument Fed. #14-5	Monument Butte	SW SW	5	9S	17E	Duchesne	UT	Oil	Green River	U-020250	43-013-31385	556' FSL, 517' FWL	Vernal	Jonah
Balcron Monument Fed. #14-8	Monument Butte	SW SW	8	9S	17E	Duchesne	UT	Oil	Green River	UTU-74108	43-013-31398	660' FSL, 660' FWL	Vernal	Beluga
Balcron Monument Fed. #21-10-9-17Y	Monument Butte	NE NW	10	9S	17E	Duchesne	UT	Oil	Green River	U-65210	43-013-31537	807' FNL, 2120' FWL	Vernal	
Balcron Monument Fed. #21-14J	Monument Butte	NE NW	14	9S	16E	Duchesne	UT	WIW	Green River	U-096547	43-013-31421	518' FNL, 1850' FWL	Vernal	Jonah
Balcron Monument Fed. #21-17	Monument Butte	NE NW	17	9S	17E	Duchesne	UT	Oil	Green River	U-3563-A	43-013-31387	500' FNL, 1980' FWL	Vernal	Beluga
Balcron Monument Fed. #21-25	Undesignated	NE NW	25	8S	17E	Uintah	UT	Oil	Green River	U-67845	43-047-32528	748' FNL, 1964' FWL	Vernal	
Balcron Monument Fed. #22-12J	Monument Butte	SE NW	12	9S	16E	Duchesne	UT	Oil	Green River	U-096550	43-013-15796	2018' FNL, 2099' FWL	Vernal	Jonah
Balcron Monument Fed. #22-14J	Monument Butte	SE NW	14	9S	16E	Duchesne	UT	PND	Green River	U-096547	43-013-31489	2134' FNL, 2198' FWL	Vernal	Jonah
Balcron Monument Fed. #22-17	Monument Butte	SE NW	17	9S	17E	Duchesne	UT	Oil	Green River	UTU-72106	43-013-31429	1800' FNL, 1980' FWL	Vernal	Beluga
Balcron Monument Fed. #22-20-9-18Y	Monument Butte	SE NW	20	9S	18E	Uintah	UT	Oil	Green River	U-64917	43-047-32711	1980' FNL, 1980' FWL	Vernal	
Balcron Monument Fed. #22-22-8-17Y	Monument Butte	SE NW	22	8S	17E	Duchesne	UT	Oil	Green River	U-67845	43-013-31538	1945' FNL, 2030' FWL	Vernal	
Balcron Monument Fed. #22-5	Monument Butte	SE NW	5	9S	17E	Duchesne	UT	WIW	Green River	U-020252	43-013-31384	1853' FNL, 1980' FWL	Vernal	Jonah
Balcron Monument Fed. #23-11	Monument Butte	NE SW	11	9S	16E	Duchesne	UT	WIW	Green River	U-096550	43-013-31369	1787' FSL, 2147' FWL	Vernal	Jonah
Balcron Monument Fed. #23-15	Monument Butte	NE SW	15	9S	16E	Duchesne	UT	WIW	Green River	U-017985	43-013-31373	1724' FSL, 2078' FWL	Vernal	Jonah
Balcron Monument Fed. #23-24-8-17		NE SW	24	8S	17E	Uintah	UT	PND	Green River				Vernal	
Balcron Monument Fed. #23-25	Undesignated	NE SW	25	8S	17E	Uintah	UT	Oil	Green River	U-67845	43-047-32529	1927' FSL, 2139' FWL	Vernal	
Balcron Monument Fed. #23-5	Monument Butte	NE SW	5	9S	17E	Duchesne	UT	Oil	Green River	U-020252	43-013-31383	1816' FSL, 2057' FWL	Vernal	Jonah
Balcron Monument Fed. #24-12J	Monument Butte	SE SW	12	9S	16E	Duchesne	UT	Oil	Green River	U-035521-A	43-013-31409	539' FSL, 1777' FWL	Vernal	Jonah
Balcron Monument Fed. #24-25	Undesignated	SE SW	25	8S	17E	Uintah	UT	Oil	Green River	U-67845	43-047-32669	653' FSL, 2028' FWL	Vernal	
Balcron Monument Fed. #24-5	Monument Butte	SE SW	5	9S	17E	Duchesne	UT	WIW	Green River	U-020252	43-013-31375	765' FSL, 2243' FWL	Vernal	Jonah
Balcron Monument Fed. #24-6	Monument Butte	SE SW	6	9S	17E	Duchesne	UT	WIW	Green River	U-020252-A	43-013-31363	504' FSL, 1613' FWL	Vernal	Jonah
Balcron Monument Fed. #31-17	Monument Butte	NE NW	17	9S	17E	Duchesne	UT	Oil	Green River	UTU-72106	43-013-31428	660' FNL, 1980' FEL	Vernal	Beluga
Balcron Monument Fed. #31-1J	Monument Butte	NW NE	1	9S	16E	Duchesne	UT	Oil	Green River	U-33992	43-013-31413	660' FNL, 1980' FEL	Vernal	Jonah
Balcron Monument Fed. #31-25	Undesignated	NW NE	25	8S	17E	Uintah	UT	Oil	Green River	U-67845	43-047-32530	660' FNL, 1980' FEL	Vernal	
Balcron Monument Fed. #31-7J	Monument Butte	NW NE	7	9S	17E	Duchesne	UT	WIW	Green River	U-44426	43-013-31405	831' FNL, 1782' FEL	Vernal	Jonah
Balcron Monument Fed. #32-11	Monument Butte	SW NE	11	9S	16E	Duchesne	UT	WIW	Green River	U-096550	43-013-31386	2059' FNL, 1763' FEL	Vernal	Jonah
Balcron Monument Fed. #32-12J	Monument Butte	SW NE	12	9S	16E	Duchesne	UT	WIW	Green River	U-035521	43-013-31419	1805' FNL, 2139' FEL	Vernal	Jonah
Balcron Monument Fed. #32-14J	Monument Butte	SW NE	14	9S	16E	Duchesne	UT	PND	Green River	U-096547	43-013-31490	1980' FNL, 1980' FEL	Vernal	Jonah
Balcron Monument Fed. #32-15	Monument Butte	SW NE	15	9S	16E	Duchesne	UT	WIW	Green River	U-017985	43-013-31368	1868' FNL, 1993' FEL	Vernal	Jonah
Balcron Monument Fed. #32-17	Monument Butte	SW NE	17	9S	17E	Duchesne	UT	Oil	Green River	UTU-72106	43-013-31465	1880' FNL, 1980' FEL	Vernal	Beluga



**EQUITABLE RESOURCES**  
**ENERGY COMPANY**

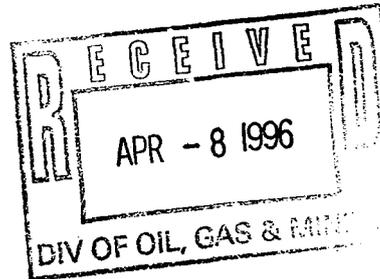
**BALCRON OIL DIVISION**

1601 Lewis Avenue  
Billings, MT 59102

Office: (406) 259-7860  
FAX: (406) 245-1365   
FAX: (406) 245-1361

March 22, 1996

Utah Division of Oil, Gas and Mining  
355 West North Temple  
Salt Lake City, UT 84180



Gentlemen:

Effective April 1, 1996, our name will change from Equitable Resources Energy Company, Balcron Oil Division to Equitable Resources Energy Company. Attached is a sundry notice reflecting that change. To simplify paperwork, I have done one sundry notice with copies for each of the wells. To this letter I have attached a list of our wells for your ease in filing the sundry notices in the well files. This should be sufficient for your purposes.

I have the listings on a spreadsheet so if it would be easier for you to have them sorted differently (for example, the Montana Board of Oil and Gas prefers them sorted by API number), please give me a call at (406) 259-7860, extension 240 and I would be glad to provide a list to your specifications.

This change affects only our company name. The physical locations of our offices and the personnel remain the same. We will be changing our well signs and ask for your patience and cooperation as this will be done as soon as possible but may take some time since we do have so many properties at which to make the change.

If you have any questions, please do not hesitate to give me a call.

Sincerely,

*Bobbie Schuman*  
Bobbie Schuman  
Regulatory and  
Environmental Specialist

/hs

Enclosures

STATE OF UTAH  
DIVISION OF OIL, GAS AND MINING

**SUNDRY NOTICES AND REPORTS ON WELLS**

Do not use this form for proposals to drill new wells, deepen existing wells, or to reenter plugged and abandoned wells.  
Use APPLICATION FOR PERMIT TO DRILL OR DEEPEN form for such proposals.

5. Lease Designation and Serial Number:  
See attached listing

6. If Indian, Allottee or Tribe Name:  
n/a

7. Unit Agreement Name:  
See attached listing

8. Well Name and Number:  
See attached listing

9. API Well Number:  
See attached listing

10. Field and Pool, or Wildcat:  
See attached listing

1. Type of Well: OIL  GAS  OTHER: See attached listing

2. Name of Operator:  
Equitable Resources Energy Company, Balcron Oil Division

3. Address and Telephone Number:  
1601 Lewis Avenue Avenue; Billings, MT 59102 (406) 259-7860

4. Location of Well  
Footages: See attached listing

County: See attached list

State: UTAH

QQ, Sec., T., R., M.:

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

**NOTICE OF INTENT**  
(Submit in Duplicate)

- Abandon
- Repair Casing
- Change of Plans
- Convert to Injection
- Fracture Treat or Acidize
- Multiple Completion
- Other \_\_\_\_\_
- New Construction
- Pull or Alter Casing
- Recomplete
- Reperforate
- Vent or Flare
- Water Shut-Off

Approximate date work will start \_\_\_\_\_

**SUBSEQUENT REPORT**  
(Submit Original Form Only)

- Abandon \*
- Repair Casing
- Change of Plans
- Convert to Injection
- Fracture Treat or Acidize
- Other Operator name change
- New Construction
- Pull or Alter Casing
- Reperforate
- Vent or Flare
- Water Shut-Off

Date of work completion \_\_\_\_\_

Report results of Multiple Completions and Recompletions to different reservoirs on WELL COMPLETION OR RECOMPLETION REPORT AND LOG form.

\* Must be accompanied by a cement verification report.

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)

Effective April 1, 1996, operator will change its name from Equitable Resources Energy Company, Balcron Oil Division TO: Equitable Resources Energy Company. Physical location of the operator remains as: 1601 Lewis Avenue; Billings, MT 59102 (406) 259-7860, FAX: (406) 145-1361. This is to report the operator name change only. It affects the wells on the attached listing.

APR - 8 1996

13. Name & Signature: Bobbie Schuman Title: Regulatory and Environmental Specialist Date: March 27, 1996  
Bobbie Schuman

(This space for State use only)

Division of Oil, Gas and Mining  
**OPERATOR CHANGE WORKSHEET**

Routing:

1-LEP 7-SJ
2-DTS 8-FILE
3-VLD (GIL) ✓
4-RJH ✓
5-JEL ✓
6-FILM ✓

Attach all documentation received by the division regarding this change.  
 Initial each listed item when completed. Write N/A if item is not applicable.

- Change of Operator (well sold)                       Designation of Agent  
 Designation of Operator                              **KKK Operator Name Change Only**

The operator of the well(s) listed below has changed (EFFECTIVE DATE: 4-1-96)

TO (new operator)	<u>EQUITABLE RESOURCES ENERGY COEROM</u> (former operator)	<u>EQUITABLE RESOURCES ENERGY CO</u>
(address)	<u>1601 LEWIS AVE</u>	(address) <u>BALCRON OIL DIVISION</u>
	<u>BILLINGS MT 59102-4126</u>	<u>1601 LEWIS AVE</u>
	phone (406) <u>259-7860</u>	<u>BILLINGS MT 59102-4126</u>
	account no. <u>N9890</u>	phone (406) <u>259-7860</u>
		account no. <u>N9890</u>

Well(s) (attach additional page if needed):

Name: <b>**SEE ATTACHED**</b>	API: <u>D13-31537</u>	Entity: _____	Sec _____	Twp _____	Rng _____	Lease Type: _____
Name: _____	API: _____	Entity: _____	Sec _____	Twp _____	Rng _____	Lease Type: _____
Name: _____	API: _____	Entity: _____	Sec _____	Twp _____	Rng _____	Lease Type: _____
Name: _____	API: _____	Entity: _____	Sec _____	Twp _____	Rng _____	Lease Type: _____
Name: _____	API: _____	Entity: _____	Sec _____	Twp _____	Rng _____	Lease Type: _____
Name: _____	API: _____	Entity: _____	Sec _____	Twp _____	Rng _____	Lease Type: _____
Name: _____	API: _____	Entity: _____	Sec _____	Twp _____	Rng _____	Lease Type: _____

**OPERATOR CHANGE DOCUMENTATION**

- Yes 1. (Rule R615-8-10) Sundry or other legal documentation has been received from former operator (Attach to this form). *Rec'd 4-4-96 & 4-8-96*
- N/A 2. (Rule R615-8-10) Sundry or other legal documentation has been received from new operator (Attach to this form).
- N/A 3. The Department of Commerce has been contacted if the new operator above is not currently operating any wells in Utah. Is company registered with the state? (yes/no) \_\_\_\_\_ If yes, show company file number: \_\_\_\_\_.
- \* 4. (For Indian and Federal Wells ONLY) The BLM has been contacted regarding this change (attach Telephone Documentation Form to this report). Make note of BLM status in comments section of this form. Management review of Federal and Indian well operator changes should take place prior to completion of steps 5 through 9 below.
- Yes 5. Changes have been entered in the Oil and Gas Information System (Wang/IBM) ~~for each well listed above.~~ *(4-10-96)*
- Yes 6. Cardex file has been updated for each well listed above. *(4-11-96)*
- Yes 7. Well file labels have been updated for each well listed above. *(4-11-96)*
- Yes 8. Changes have been included on the monthly "Operator, Address, and Account Changes" memo for distribution to State Lands and the Tax Commission. *(4-10-96)*
- Yes 9. A folder has been set up for the Operator Change file, and a copy of this page has been placed there for reference during routing and processing of the original documents.

ENTITY REVIEW

- Yes 1. (Rule R615-8-7) Entity assignments have been reviewed for all wells listed above. Were entity changes made? (yes/no) no (If entity assignments were changed, attach copies of Form 6, Entity Action Form).
- N/A 2. State Lands and the Tax Commission have been notified through normal procedures of entity changes.

BOND VERIFICATION (Fee wells only)

# 5578314 (\$80,000) Schem Inc. Co. (Bond Rider In Progress)

- Yes 1. (Rule R615-3-1) The new operator of any fee lease well listed above has furnished a proper bond.
- 2. A copy of this form has been placed in the new and former operators' bond files.
- N/A 3. The former operator has requested a release of liability from their bond (yes/no)    . Today's date     19   . If yes, division response was made by letter dated     19   .

LEASE INTEREST OWNER NOTIFICATION RESPONSIBILITY

- N/A 1. (Rule R615-2-10) The former operator/lessee of any fee lease well listed above has been notified by letter dated     19   , of their responsibility to notify any person with an interest in such lease of the change of operator. Documentation of such notification has been requested.   
*4/20/96*
- DTJ 2. Copies of documents have been sent to State Lands for changes involving State leases.   
*Sent to Ed Bonner - Trust Lands*

FILMING

*vs Refilmed w/ off conf 1-31-97*

- WDR 1. All attachments to this form have been microfilmed. Date: May 20 1996.

FILING

- 1. Copies of all attachments to this form have been filed in each well file.
- 2. The original of this form and the original attachments have been filed in the Operator Change file.

COMMENTS

*9/6/90 Blm/BIA "Formal approval not necessary"*

## MONTHLY OIL AND GAS PRODUCTION REPORT

OPERATOR NAME AND ADDRESS:

C/O CRAZY MTN O&G SVS'S  
 EQUITABLE RESOURCES ENERGY  
 PO BOX 577  
 LAUREL MT 59044

UTAH ACCOUNT NUMBER: N9890

REPORT PERIOD (MONTH/YEAR): 9 / 97

AMENDED REPORT  (Highlight Changes)

Well Name			Producing Zone	Well Status	Days Oper	Production Volumes		
API Number	Entity	Location				OIL(BBL)	GAS(MCF)	WATER(BBL)
BALCRON MONUMENT STATE 12-2								
4301331481	11745	09S 17E 2	GRRV			ML45555		
BALCRON FEDERAL 31-19Y								
4304732614	11751	09S 18E 19	GRRV			U65635		
BALCRON FEDERAL 42-19Y								
4304732616	11756	09S 18E 19	GRRV			"		
BALCRON FEDERAL 12-20Y								
4304732617	11758	09S 18E 20	GRRV			U64917		
BALCRON FEDERAL 32-19Y								
4304732615	11771	09S 18E 19	GRRV			U65635		
BALCRON MONUMENT FEDERAL 22-22-8-17Y								
4301331538	11842	08S 17E 22	GRRV			U67845		
BALCRON MONUMENT FEDERAL 11-22-8-17Y								
4301331539	11845	08S 17E 22	GRRV			U66191		
BALCRON MONUMENT FEDERAL 11-20-9-18Y								
4304732712	11846	09S 18E 20	GRRV			U64917		
BALCRON MONUMENT FEDERAL 22-20-9-18Y								
4304732711	11852	09S 18E 20	GRRV			"		
BALCRON MONUMENT FEDERAL 14-3-9-17Y								
4301331535	11857	09S 17E 3	GRRV			U64381		
BALCRON MONUMENT FEDERAL 21-10-9-17Y								
4301331537	11859	09S 17E 10	GRRV			U65210		
BALCRON MONUMENT STATE 21-2-9-17Y								
4304732703	11863	09S 17E 2	GRRV			ML45555		
BALCRON MONUMENT FEDERAL 12-10-9-17Y								
4301331536	11867	09S 17E 10	GRRV			U65210		
<b>TOTALS</b>								

COMMENTS: \_\_\_\_\_

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

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

Name and Signature: \_\_\_\_\_

Telephone Number: \_\_\_\_\_

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 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.

475 - 17th Street, Suite 1500, Denver, CO 80202 (303) 292-0900

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

See Attached Exhibit

5. Lease Designation and Serial No.

See Attached

6. If Indian, Allottee or Tribe Name

See Attached

7. If Unit or CA, Agreement Designation

See Attached

8. Well Name and No.

See Attached

9. API Well No.

See Attached

10. Field and Pool, or Exploratory Area

See Attached

11. County or Parish, State

See Attached

RECEIVED  
OCT 13 1997

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>Change of Operator</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.)\*

Effective September 30, 1997, Inland Production Company will take over operations of the wells on the attached list. The previous operator was:

Equitable Resources Energy Company  
1601 Lewis Avenue  
Billings, MT 59102

Effective September 30, 1997, Inland Production Company is responsible under the terms and conditions of the leases for operations conducted on the leased lands or a portion thereof under BLM Bond No. UT0056 issued by The Hartford Insurance Group.

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OCT 10 1997

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

Signed

*Chris A. Potter*

Title

**CHRIS A. POTTER, ATTORNEY-IN-FACT**

Date

9/30/97

(This space for Federal or State office use)

Approved by

Title

Date

Conditions of approval, if any:

RECEIVED  
OCT 10 1997



October 7, 1997

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



RE: Change of Operator  
Duchesne & Vernal Counties, Utah

Dear Mr. Forsman:

Please find attached Sundry Notices and Reports on Wells for Change of Operator, previously operated by Equitable Resources Energy Company for approval.

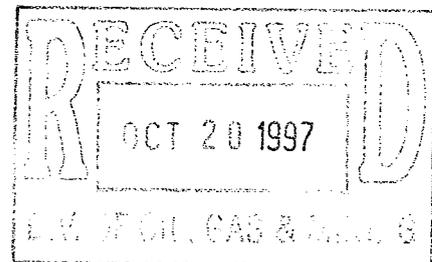
If you should have questions regarding this matter, please do not hesitate to contact me at the number listed below.

Sincerely,

INLAND PRODUCTION COMPANY

  
Patsy Barreau

/pb  
encls.





# United States Department of the Interior

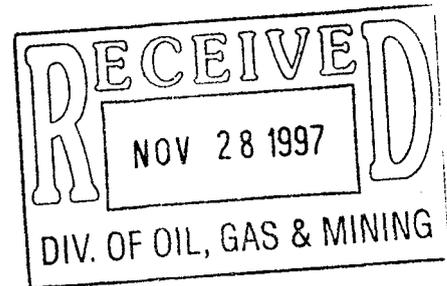
## BUREAU OF LAND MANAGEMENT

Vernal District Office  
170 South 500 East  
Vernal, Utah 84078-2799

Phone: (801) 781-4400  
Fax: (801) 781-4410

IN REPLY REFER TO:  
3162.3  
UT08438

November 13, 1997



Inland Production Company  
475 17th Street, Suite 1500  
Denver, CO 80202

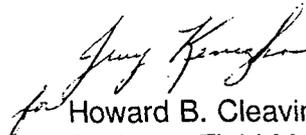
Re: <sup>43-013-31537</sup>  
Well No. Mon. Fed. 21-10-9-17Y  
NENW, Sec. 10, T9S, R17E  
Lease U-65210  
Duchesne County, Utah

Dear Sir:

This correspondence is in regard to the self-certification statement submitted requesting a change in operator for the referenced well. After a review by this office, the change in operator request is approved. Effective immediately, Inland Production Company is responsible for all operations performed on the referenced well. All liability will now fall under your bond, BLM Bond No. UT0056, for all operations conducted on the referenced well on the leased land.

If you have any other questions concerning this matter, please contact Margie Herrmann or Pat Sutton of this office at (435) 781-4400.

Sincerely,

  
Howard B. Cleavinger II  
Assistant Field Manager,  
Minerals Resources

cc: ~~Division of Oil, Gas & Mining~~  
Equitable Resources Energy Company  
ABO Petro Corp  
Myco Industries Inc  
Yates Drilling Co.  
Yates Petro Corp

INLAND

Inland Resources Change of Operator							
WELL NAME	LOCATION	COUNTY	ST	FIELD NAME	API NUMBER	LEASE NO.	AGEEMENT
✓ BALCRON FEDERAL #22-20Y	SE NW 209S 18E	UINTAH	UT	MONUMENT BUTTE (8)	43-047-32711-00	UTU64917	
✓ BALCRON FEDERAL #41-19Y	NENE 199S 18E	UINTAH	UT	MONUMENT BUTTE (8)	43-047-32504-00	UTU65635	
✓ MONUMENT FEDERAL #43-19Y	NE SE 199S 18E	UINTAH	UT	MONUMENT BUTTE (8)	43-047-32730-00	UTU65635	
✓ MONUMENT FEDERAL #14-21Y	SW SW 219S 18E	UINTAH	UT	MONUMENT BUTTE (8)	43-047-32726-00	UTU68105	
✓ A. ANDERSON STATE #1-16	SW SW 169S 17E	DUCHESNE	UT	MONUMENT BUTTE (B)	43-013-15582-00		UTU75023X
✓ D. DUNCAN STATE #16-5	SWNW 169S 17E	DUCHESNE	UT	MONUMENT BUTTE (B)	43-013-30570-00		UTU75023X
✓ DMD FEDERAL #17-1	NE SE 179S 17E	DUCHESNE	UT	MONUMENT BUTTE (B)	43-013-30689-00		UTU75023X
✓ FEDERAL #1-18	NWNE 189S 17E	DUCHESNE	UT	MONUMENT BUTTE (B)	43-013-30332-00		UTU75023X
✓ MAXUS FEDERAL #23-8	NESW 8 9S 17E	DUCHESNE	UT	MONUMENT BUTTE (B)	43-013-31196-00		UTU75023X
✓ MONUMENT BUTTE FED. #12-17	SWNW 179S 17E	DUCHESNE	UT	MONUMENT BUTTE (B)	43-013-31431-00		UTU75023X
✓ MONUMENT BUTTE FED. #14-8	SWSW 8 9S 17E	DUCHESNE	UT	MONUMENT BUTTE (B)	43-013-31398-00		UTU75023X
✓ MONUMENT BUTTE FED. #21-17	NENW 179S 17E	DUCHESNE	UT	MONUMENT BUTTE (B)	43-013-31387-00		UTU75023X
✓ MONUMENT BUTTE FED. #32-17	SWNE 179S 17E	DUCHESNE	UT	MONUMENT BUTTE (B)	43-013-31465-00		UTU75023X
✓ MONUMENT BUTTE FED. #41-17	NENE 179S 17E	DUCHESNE	UT	MONUMENT BUTTE (B)	43-013-31466-00		UTU75023X
✓ MONUMENT BUTTE FED. #43-7	NESE 7 9S 17E	DUCHESNE	UT	MONUMENT BUTTE (B)	43-013-31432-00		UTU75023X
✓ MONUMENT FEDERAL #23-17B	NE SW 179S 17E	DUCHESNE	UT	MONUMENT BUTTE (B)	43-013-31582-00	UTU74108	UTU75023X
✓ MONUMENT STATE #23-16B	NE SW 169S 17E	DUCHESNE	UT	MONUMENT BUTTE (B)	43-013-31578-00		UTU75023X
✓ PAIUTE FEDERAL #34-8	SWSE 8 9S 17E	DUCHESNE	UT	MONUMENT BUTTE (B)	43-013-30778-00		UTU75023X
✓ PAIUTE FEDERAL #43-8	NESE 8 9S 17E	DUCHESNE	UT	MONUMENT BUTTE (B)	43-013-30777-00		UTU75023X
✓ POMCO #2	NWSE 189S 17E	DUCHESNE	UT	MONUMENT BUTTE (B)	43-013-30505-00		UTU75023X
✓ POMCO #4	NWSW 179S 17E	DUCHESNE	UT	MONUMENT BUTTE (B)	43-013-30506-00		UTU75023X
✓ SUE MORRIS #16-3	NENW 169S 17E	DUCHESNE	UT	MONUMENT BUTTE (B)	43-013-30562-00		UTU75023X
✓ MOCON FEDERAL #44-7	SE SE 7 9S 17E	DUCHESNE	UT	MONUMENT BUTTE (B)	43-013-30666-00		UTU75023X
✓ MONUMENT FEDERAL #13-8	NW SW 8 9S 17E	DUCHESNE	UT	MONUMENT BUTTE (B)	43-013-31382-00		UTU75023X
✓ MONUMENT FEDERAL #33-8	NW SE 8 9S 17E	DUCHESNE	UT	MONUMENT BUTTE (B)	43-013-31427-00		UTU75023X
✓ MONUMENT FEDERAL #22-17	SE NW 179S 17E	DUCHESNE	UT	MONUMENT BUTTE (B)	43-013-31429-00		UTU75023X
✓ MONUMENT STATE #13-16B	NW SW 169S 17E	DUCHESNE	UT	MONUMENT BUTTE (B)	43-013-31580-00		UTU75023X
✓ MONUMENT STATE #11-16B	NW NW 169S 17E	DUCHESNE	UT	MONUMENT BUTTE (B)	43-013-30616-00	ML21844	UTU75023X
✓ MONUMENT STATE #22-16B	SE NW 169S 17E	DUCHESNE	UT	MONUMENT BUTTE (B)	43-013-31579-00		UTU75023X
✓ MONUMENT FEDERAL #31-17	NW NE 179S 17E	DUCHESNE	UT	MONUMENT BUTTE (B)	43-013-31428-00		UTU75023X
✓ MONUMENT FEDERAL #33-17B	NW SE 179S 17E	DUCHESNE	UT	MONUMENT BUTTE (B)	43-013-31581-00		UTU75023X
✓ MONUMENT FEDERAL #42-17	SE NE 179S 17E	DUCHESNE	UT	MONUMENT BUTTE (B)	43-013-31467-00	UTU74108	UTU75023X
✓ MONUMENT FEDERAL #44-8-9-17B	SE SE 8 9S 17E	DUCHESNE	UT	MONUMENT BUTTE (B)	43-013-30643-00	UTU74398	UTU75023X
✓ PAIUTE FEDERAL #24-8	SE SW 8 9S 17E	DUCHESNE	UT	MONUMENT BUTTE (B)	43-013-30675-00	UTU74108	UTU75023X
✓ PAIUTE FEDERAL #11-17	NW NW 179S 17E	DUCHESNE	UT	MONUMENT BUTTE (B)	43-013-30516-00		UTU75023X
✓ POMCO #5	SW SW 179S 17E	DUCHESNE	UT	MONUMENT BUTTE (B)	43-013-30499-00		UTU75023X
✓ BALCRON FEDERAL #12-10Y	SW NW 109S 17E	DUCHESNE	UT	MONUMENT BUTTE (CD)	43-013-31536-00	UTU65210	
✓ BALCRON FEDERAL #21-10Y	NE NW 109S 17E	DUCHESNE	UT	MONUMENT BUTTE (CD)	43-013-31537-00	UTU65210	
✓ BALCRON FEDERAL #22-10Y	SE NW 109S 17E	DUCHESNE	UT	MONUMENT BUTTE (CD)	43-013-31395-00	UTU65210	



# EQUITABLE RESOURCES ENERGY COMPANY

**WESTERN REGION**

(406) 259-7860 Telephone

(406) 245-1361 Fax

December 10, 1997

Lisha  
State of Utah  
Division of Oil, Gas and Mining  
1594 West North Temple, Suite 1210  
Box 145801  
Salt Lake City, UT 84114-5801

Dear Lisha:

RE: Equitable Sale of Utah Properties

Effective September 30, 1997, Equitable Resources Energy Company sold all of its Utah properties to Inland Production Company.

Please feel free to contact me if you require additional information.

Sincerely,

A handwritten signature in cursive script that reads "Molly Conrad".

Molly Conrad  
Agent for Equitable Resources  
Energy Company

/mc



Crazy Mountain Oil & Gas Services  
 P.O. Box 577  
 Laurel, MT 59044  
 (406) 628-4164  
 (406) 628-4165

TO: *Lisha*  
*St of Utah.*

FROM: Molly Conrad  
 Crazy Mountain Oil & Gas Services  
 (406) 628-4164

Pages Attached - Including Cover Sheet *2.*

NOTE: *Here is the letter you requested.  
 Call if you need anything  
 further.*

**OPERATOR CHANGE WORKSHEET**

Attach all documentation received by the division regarding this change.  
Initial each listed item when completed. Write N/A if item is not applicable.

Routing	
1-LEC ✓	6-VPC ✓
2-GLH ✓	7-KAS ✓
3-DTS ✓	8-SI ✓
4-VLD ✓	9-FILE ✓
5-JRB ✓	

- Change of Operator (well sold)       Designation of Agent  
 Designation of Operator       Operator Name Change Only

The operator of the well(s) listed below has changed, effective: 9-30-97

TO: (new operator)	<u>INLAND PRODUCTION COMPANY</u>	FROM: (old operator)	<u>EQUITABLE RESOURCES COMPANY</u>
(address)	<u>PO BOX 1446</u>	(address)	<u>PO BOX 577</u>
	<u>ROOSEVELT UT 84066</u>		<u>LAUREL MT 59044</u>
			<u>C/O CRAZY MTN O&amp;G</u>
Phone:	<u>(801) 722-5103</u>	Phone:	<u>(406) 628-4164</u>
Account no.	<u>N5160</u>	Account no.	<u>N9890</u>

WELL(S) attach additional page if needed:

Name: <b>**SEE ATTACHED**</b>	API: <u>43-013-31537</u>	Entity: _____	S _____	T _____	R _____	Lease: _____
Name: _____	API: _____	Entity: _____	S _____	T _____	R _____	Lease: _____
Name: _____	API: _____	Entity: _____	S _____	T _____	R _____	Lease: _____
Name: _____	API: _____	Entity: _____	S _____	T _____	R _____	Lease: _____
Name: _____	API: _____	Entity: _____	S _____	T _____	R _____	Lease: _____
Name: _____	API: _____	Entity: _____	S _____	T _____	R _____	Lease: _____

**OPERATOR CHANGE DOCUMENTATION**

- LEC 1. (r649-8-10) Sundry or other legal documentation has been received from the FORMER operator (attach to this form). *(Rec'd 12-10-97)*
- LEC 2. (r649-8-10) Sundry or other legal documentation has been received from the NEW operator (Attach to this form). *(Rec'd 10-20-97)*
- N/A 3. The Department of Commerce has been contacted if the new operator above is not currently operating any wells in Utah. Is the company registered with the state? (yes/no) \_\_\_\_\_ If yes, show company file number: \_\_\_\_\_
- LEC 4. FOR INDIAN AND FEDERAL WELLS ONLY. The BLM has been contacted regarding this change. Make note of BLM status in comments section of this form. BLM approval of Federal and Indian well operator changes should ordinarily take place prior to the division's approval, and before the completion of steps 5 through 9 below.
- LEC 5. Changes have been entered in the Oil and Gas Information System (3270) for each well listed above. *(12-2-97)*
- LEC 6. Cardex file has been updated for each well listed above. *(12-3-97)*
- LEC 7. Well file labels have been updated for each well listed above. *(12-3-97)*
- LEC 8. Changes have been included on the monthly "Operator, Address, and Account Changes" memo for distribution to Trust Lands, Sovereign Lands, UGS, Tax Commission, etc. *(12-3-97)*
- LEC 9. A folder has been set up for the Operator Change file, and a copy of this page has been placed there for reference during routing and processing of the original documents.

**ENTITY REVIEW**

- Sec 1. (r649-8-7) Entity assignments have been reviewed for all wells listed above. Were entity changes made? (yes/no) no If entity assignments were changed, attach copies of Form 6, Entity Action Form.
- N/A 2. Trust Lands, Sovereign Lands, Tax Commission, etc., have been notified through normal procedures of entity changes.

**BOND VERIFICATION - (FEE WELLS ONLY)**

- N/A  
Sec 1. (r649-3-1) The NEW operator of any fee lease well listed above has furnished a proper bond.
2. A copy of this form has been placed in the new and former operator's bond files.
3. The FORMER operator has requested a release of liability from their bond (yes/no)    , as of today's date    . If yes, division response was made to this request by letter dated    .

**LEASE INTEREST OWNER NOTIFICATION OF RESPONSIBILITY**

- N/A 1. Copies of documents have been sent on     to     at Trust Lands for changes involving State leases, in order to remind that agency of their responsibility to review for proper bonding.
- N/A <sup>12/5/97</sup> 2. (r649-2-10) The former operator of any fee lease wells listed above has been contacted and informed by letter dated     19    , of their responsibility to notify all interest owners of this change.

**FILMING**

1. All attachments to this form have been microfilmed. Today's date: 1.7.98.

**FILING**

1. Copies of all attachments to this form have been filed in each well file.
2. The original of this form, and the original attachments are now being filed in the Operator Change file.

**COMMENTS**

971202 Blm/Vernal Aprv. Nov. 10, 13 & 20, 1997.

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

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-65210**

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

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

8. Well Name and No.  
**BALCRON MONUMENT FEDERAL 21-197**

9. API Well No.  
**43-013-31537**

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.  
**475 17TH STREET, SUITE 1500, DENVER, COLORADO 80202 (303) 292-0900**

4. Location of Well (Footage, Sec., T., R., m., or Survey Description)  
**0807 FNL 2120 FWL                      NE/NW Section 10, T09S R17E**

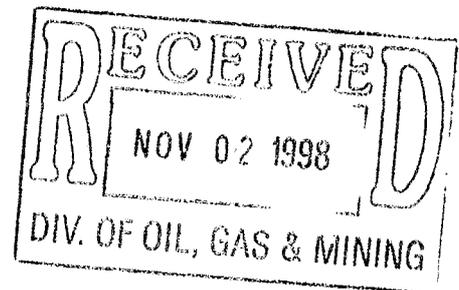
12. CHECK APPROPRIATE BOX(S) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

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>Site Security</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.)\*

Attached please find the site security diagram for the above referenced well.



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

Signed *Debbie E. Knight* Title Manager, Regulatory Compliance Date 10/30/98

(This space for Federal or State office use)

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

Conditions of approval, if any:

**CC: UTAH DOGM**

# Inland Production Company Site Facility Diagram

Federal 21-10Y

NE/NW Sec. 10, T9S, 17E

Duchesne County

May 12, 1998

Site Security Plan is held at the Roosevelt Office,  
Roosevelt Utah

**Production Phase:**

- 1) Valves 1 and 3 sealed closed
- 2) Valves 2 and 4 sealed open

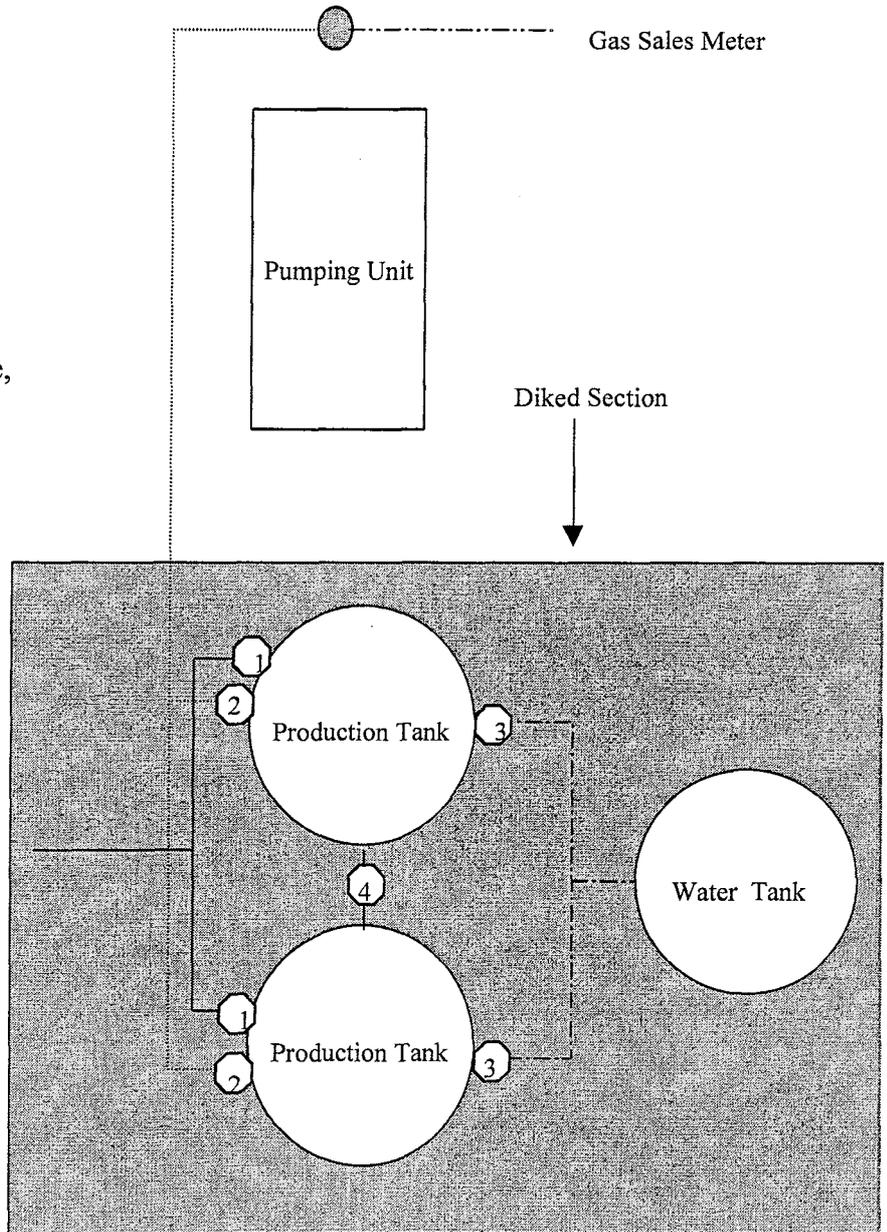
**Sales Phase:**

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

**Draining Phase:**

- 1) Valve 3 open

Emulsion Line	.....
Load Line	————
Water Line	- - - - -
Gas Sales	- · - · - ·



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	11867	12704	43-013-31536	Monument Federal #12-10Y	SWNW	10	9S	17E	Duchesne		3/1/2000

WELL 2 COMMENTS: Moved well to BlackJack Unit *000514 Entity Ceded*

ACTION CODE	CURRENT ENTITY NO.	NEW ENTITY NO.	API NUMBER	WELL NAME	WELL LOCATION					SPUD DATE	EFFECTIVE DATE
					QQ	SC	TP	RG	COUNTY		
D	11857	12704	43-013-31535	Federal #14-3Y	SWSW	3	9S	17E	Duchesne		3/1/2000

WELL 2 COMMENTS: Moved well to BlackJack Unit *000514 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	11859	12704	43-013-31537	Federal #21-10Y	NENW	10	9S	17E	Duchesne		3/1/2000

WELL 3 COMMENTS: Moved well to BlackJack Unit *000514 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	11501	12704	43-013-31395	Federal #22-10Y	SENW	10	9S	17E	Duchesne		3/1/2000

WELL 4 COMMENTS: Moved well to BlackJack Unit *000514 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	11493	12704	43-013-31397	Federal #24-3Y	SESW	3	9S	17E	Duchesne		3/1/2000

WELL 5 COMMENTS: Moved well to BlackJack Unit *000514 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

*Lebbie 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

Well Name and number: Monument Butte Federal #21-10Y-9-17 \*Belmont Mon. Fed 21-10-9-17Y  
Field or Unit name: Monument Butte (Green River) Blackjack Unit Lease No. UTU-65210  
Well Location: QQ NE/NW section 10 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 [ ] No [ X ]  
Date of test: \_\_\_\_\_  
API number: 43-013-31537

UIC-286.2

Proposed injection interval: from 4182' to 5759'  
Proposed maximum injection: rate 500 bpd pressure 2000 psig  
Proposed injection zone contains [ x ] oil, [ ] gas, and/or [ ] fresh water within 1/2  
mile of the well.

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

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

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

Name: Joyce I. McGough Signature Joyce I. McGough  
Title: Regulatory Specialist Date 2/28/02  
Phone No. (303) 893-0102

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

Comments:



RECEIVED  
FEB 28 2002  
DIVISION OF  
OIL, GAS AND MINING

February 28, 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  
Monument Butte Fed #21-10Y-9-17  
Monument Butte Field, Blackjack Unit, Lease #UTU-65210  
Section 10-Township 9S-Range 17E  
Duchesne County, Utah

Dear Mr. Jarvis:

Inland Production Company herein requests approval to convert the Monument Butte Federal #21-10Y-9-17 from a producing oil well to a water injection well in the Blackjack Unit of Monument Butte Field.

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

Sincerely,

Joyce McGough  
Regulatory Specialist

Enclosure

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

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)  
**NE/NW    807' fnl, 2120' fwl    Sec. 10, T9S, R17E**

5. Lease Designation and Serial No.  
**UTU-65210**

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

7. If unit or CA, Agreement Designation  
**Blackjack Unit**

8. Well Name and No. *21-10-2-174*  
**Monument Butte 21-20Y**

9. API Well No.  
**43-013-31537**

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

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

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

TYPE OF SUBMISSION	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 Joyce I. McGough Title Regulatory Specialist Date 2/28/02  
**Joyce I. McGough**

(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.



INLAND  
RESOURCES  
INC.  
DENVER, CO

February 28, 2002

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

RE: Permit Application for Water Injection Well  
Monument Butte Fed #21-10Y-9-17  
Monument Butte Field, Blackjack Unit, Lease #UTU-65210  
Section 10-Township 9S-Range 17E  
Duchesne County, Utah

Dear Mr. Schmitz:

Inland Production Company herein requests a permit to convert the Monument Butte Fed #21-10Y-9-17 from a producing oil well to a water injection well.

Included with this application is a cement bond log for your convenience. As they are difficult to copy, however, I would very much appreciate its return.

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

Sincerely,

Joyce I. McGough  
Regulatory Specialist

**INLAND PRODUCTION COMPANY**

**APPLICATION FOR APPROVAL OF CLASS II INJECTION WELL**

**MONUMENT BUTTE FEDERAL #21-10Y-9-17**

**MONUMENT BUTTE (GREEN RIVER) FIELD**

**LEASE #UTU-65210**

**BLACKJACK UNIT**

**FEBRUARY 28, 2002**

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## WORK PROCEDURE FOR INJECTION CONVERSION

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

# Balcron Monument Federal #21-10-9-17Y

Spud Date: 11-20-95  
 Put on Production: 12-22-95  
 GL: 5097' KB: ?

Initial Production: 10 BOPD, 0  
 MCFPD, 0 BWPD

## SURFACE CASING

CSG SIZE: 8-5/8"  
 GRADE: J-55  
 WEIGHT: 24#  
 LENGTH: 5 jts.  
 DEPTH LANDED: 259.85'  
 HOLE SIZE: 12-1/4"  
 CEMENT DATA: 160 sx Class G, est 6 bbbls cmt to surface

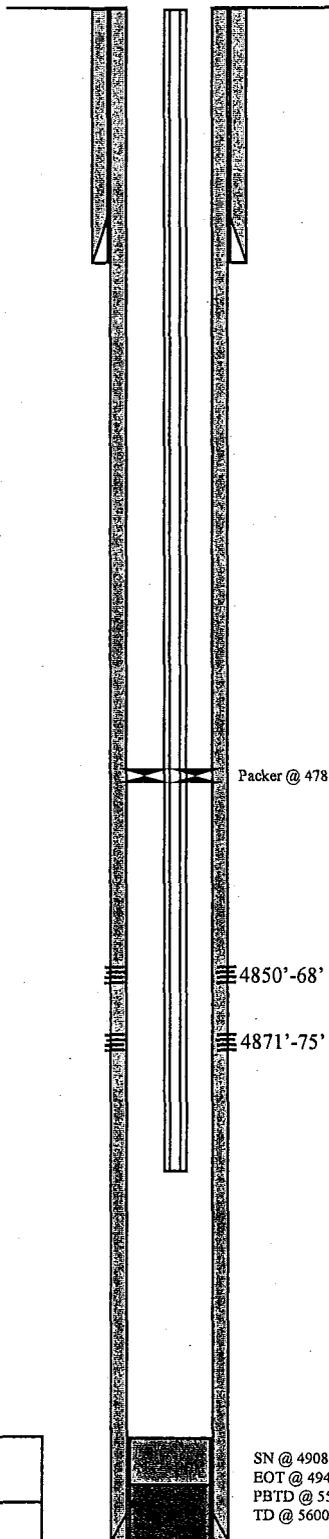
## PRODUCTION CASING

CSG SIZE: 5-1/2"  
 GRADE: J-55  
 WEIGHT: 15.5#  
 LENGTH: 128 jts. (5526.52')  
 DEPTH LANDED: 5579.74'  
 HOLE SIZE: 7-7/8"  
 CEMENT DATA: 240 sx Super G & 280 sx 50/50 Poz  
 CEMENT TOP AT: 1880' per CBL

## TUBING

SIZE/GRADE/WT.: 2-7/8" / 6.5# / J-55  
 NO. OF JOINTS: 159 jts  
 TUBING ANCHOR: 4780'  
 SEATING NIPPLE: 2-7/8" (1.10')  
 TOTAL STRING LENGTH: EOT @ 4944'  
 SN LANDED AT: 4908'

## Proposed Injection Wellbore Diagram



## FRAC JOB

12-7-95 4850'-4875' Frac sand as follows:  
 27,594 gals 2% KCL gelled water and  
 102,070# 16/30 sand. Perfs broke @  
 2640 psi. Treated w/avg press of 2400  
 psi w/avg rate of 31.4 BPM. ISIP-2320  
 psi, 5 min 2010 psi.

## PERFORATION RECORD

12-6-95	4850'-4868'	4 JSPP	72 holes
12-6-95	4871'-4875'	4 JSPP	16 holes

SN @ 4908'  
 EOT @ 4944'  
 PBTD @ 5530'  
 TD @ 5600'



**Inland Resources Inc.**

**Balcron Monument Federal #21-10-9-17Y**

807 FNL 2120 FWL

NENW Section 10-T9S-R17E

Duchesne Co, Utah

API #43-013-31537; Lease #U-65210

JM 10/23/01

## ATTACHMENT A

### AREA OF REVIEW METHODS

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

The area of review shall be a fixed radius of 1/2 mile from the Monument Butte Fed #21-10Y-9-17. Inland Production Company has chosen to use a fixed radius of 1/2 mile to satisfy the requirements of both the EPA and the State of Utah.

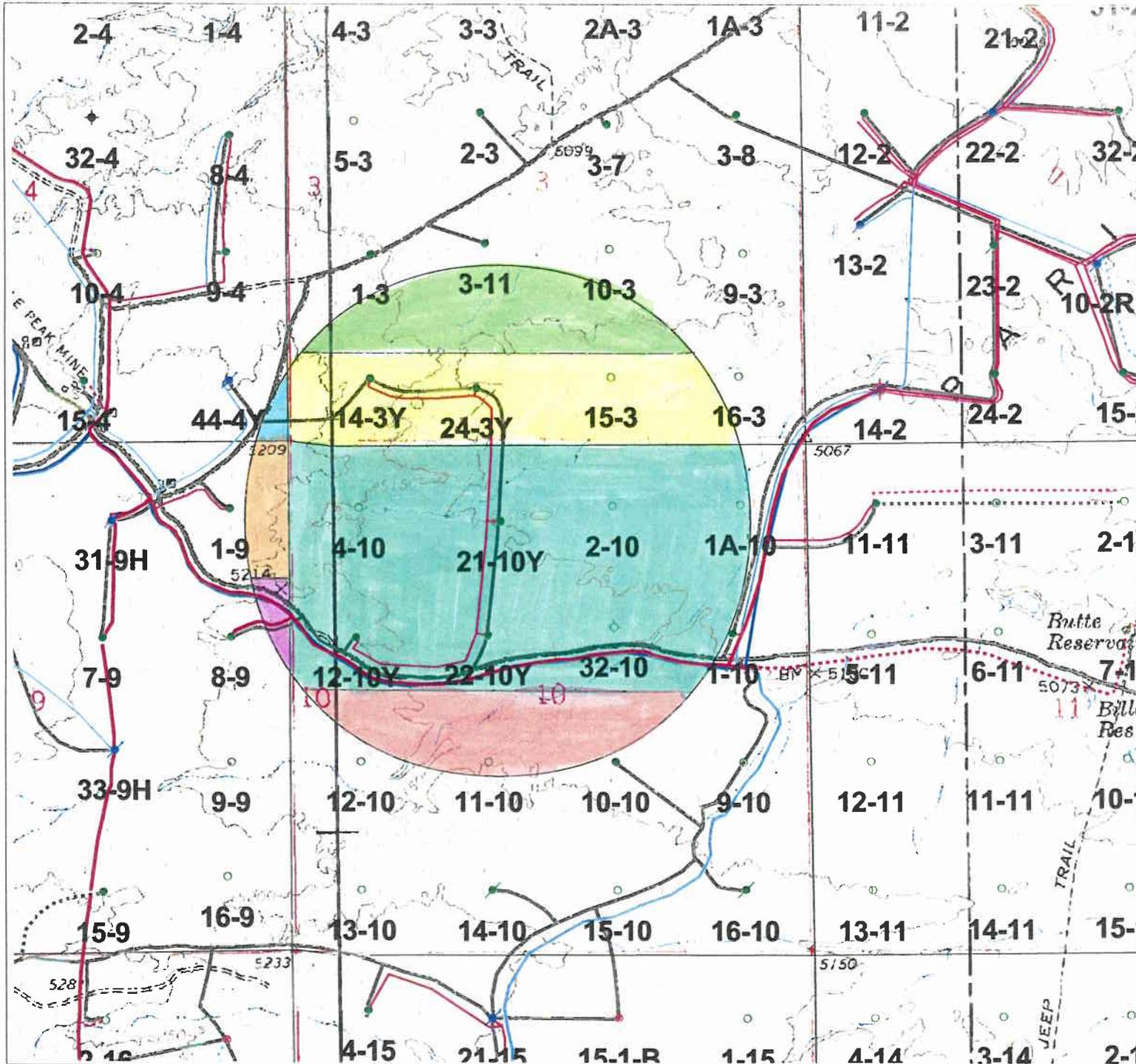
Attachment A-1 One-half Mile Radius Map

Attachment A-2 Listing of Surface Owners

Attachment A-3 Certification for Surface Owner Notification

Attachment A-4 Well Location Plat

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



- 1/2 Mile Buffers
- Water Taps
- Well Categories
  - IMJ UTA-75029
  - WTR UTA-60352
  - SWD UTA-65467
  - OIL UTA-75078
  - GAS UTA-74806
  - DRY UTA-65210
  - SHUTIN UTA-70821
  - SUSPENDED
- ABND
- LOC
- Compressor Stations
  - Gas 10 Inch
  - Gas 6 Inch and Larger
  - Proposed 6 Inch Gas
  - Gas 4 Inch and Smaller
  - Proposed Gas
  - Gas Buried
  - Petroglyph Gasline
  - Questar Gasline
  - Compressors - Other
- Gas Meters
  - Water 6 Inch
  - Water 4 Inch
  - Water 4 Inch High Pressure
  - Water 2 to 3 Inch
  - Proposed Water
  - Johnson Water Line
- Injection Stations
  - Pump Stations
  - Roads (Digitized)
    - Paved
    - Dirt
    - Proposed
    - Two Track
    - Private



Attachment A-1  
 Mon. Fed. 21-10-9-17  
 Sec. 10-T9S-R17E

410 17<sup>th</sup> Street Suite 300  
 Denver Colorado 80202  
 Phone: (303) 893 0102

**Arca Map**

UINTA BASIN, UTAH

Duchesne & Uinta Counties, Utah



*Attachment A-2*  
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 Section 25: S/2S/2 Section 28: All Section 29: SE/4SW/4 Section 31: Lots 2-4, E/2SW/4, W/2SE/4	UTU-75037 HBP	Inland Production Company Yates Petroleum Corporation	(Surface Rights) USA
2.	<u>Township 9 South, Range 17 East</u> Section 9: Lots 1,2,3	UTU-75078 HBP	Inland Production Company	(Surface Rights) USA
3.	<u>Township 9 South, Range 17 East</u> Section 10: W/2NE/4, NW/4 Section 11: N/2 Section 24: All Section 31: SE/4SE/4	UTU-65210 HBP	Inland Production Company Yates Petroleum Corporation Abo Petroleum Corporation Yates Drilling Company Myco Industries	(Surface Rights) USA
4.	<u>Township 9 South, Range 17 East</u> Section 9: Lot 4, E/2SE/4	UTU-74806 HBP	Inland Production Company	(Surface Rights) USA

Attachment A-2  
Page 2

#	Land Description	Minerals Ownership & Expires	Minerals Leased By	Surface Rights
5.	<u>Township 9 South, Range 17 East</u> Section 4: SE/4SE/4	UTU-65967 HBP	Inland Production Company Yates Petroleum Corporation Yates Drilling Company Abo Petroleum Corporation Myco Industries, Inc.	(Surface Rights) USA
6.	<u>Township 9 South, Range 17 East</u> Section 10: SW/4, W/2SE/4	UTU-70821 HBP	Inland Production Company	(Surface Rights) USA
7.	<u>Township 9 South, Range 17 East</u> Section 3: Lots 2-4, S/2N/2	UTU-61252 HBP	El Paso Production Oil & Gas Company	(Surface Rights) USA
8.	<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 A-3

CERTIFICATION FOR SURFACE OWNER NOTIFICATION

Re: Application for Approval of Class II Injection Well  
Monument Butte Fed #21-10Y-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: Joyce I. McGough  
Inland Production Company  
Joyce I. McGough  
Regulatory Specialist

Sworn to and subscribed before me this 28th day of February, 2002.

Notary Public in and for the State of Colorado:

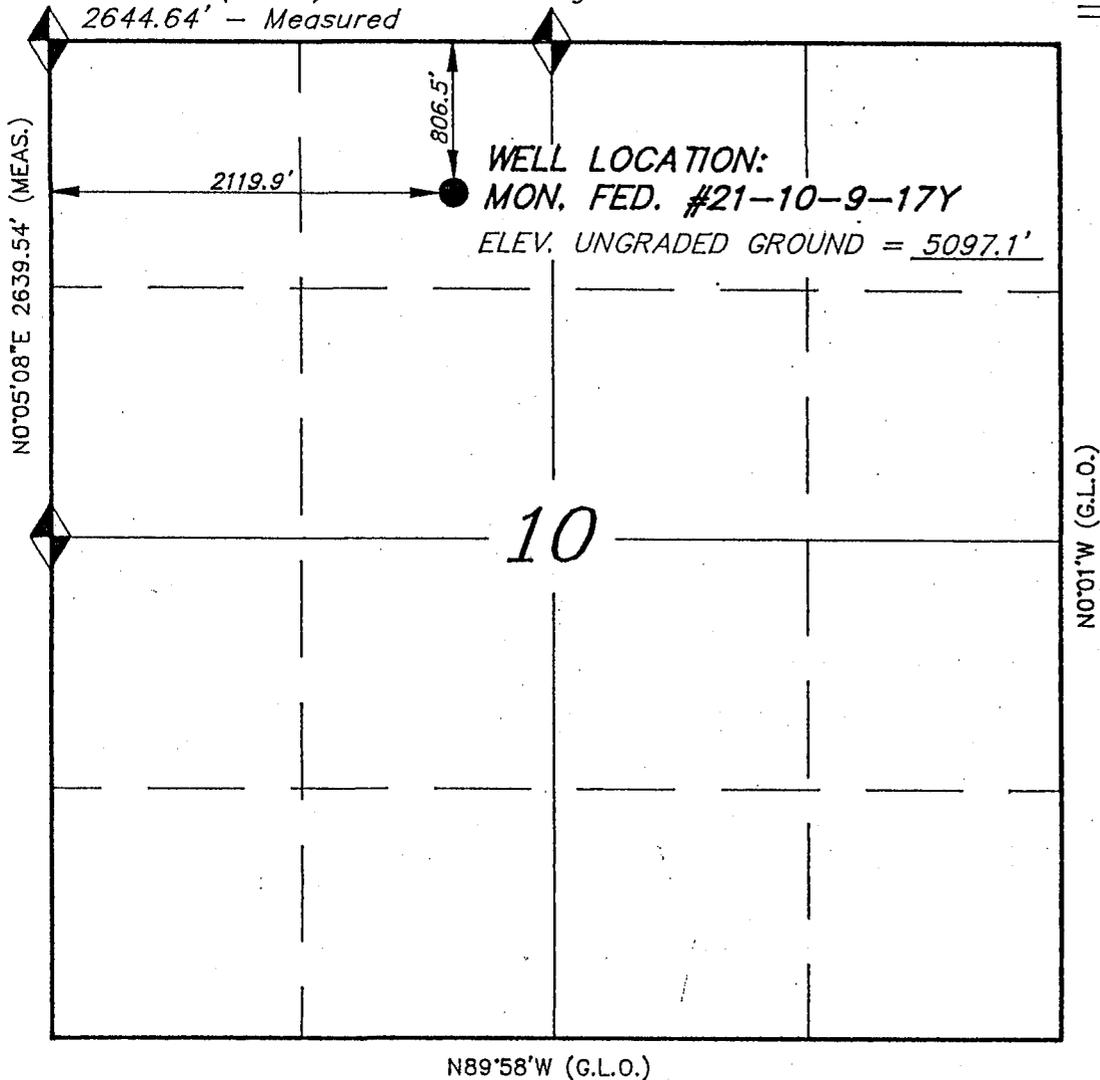
[Signature]

My commission expires: August 29, 2005

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

EQUITABLE RESOURCES ENERGY CO.

S89°57'E (G.L.O.) Basis of Bearings  
2644.64' - Measured



WELL LOCATION, MONUMENT FEDERAL #21-10-9-17Y, LOCATED AS SHOWN IN THE NE 1/4 NW 1/4 OF SECTION 10, T9S, R17E, S.L.B.&M. DUCHESNE COUNTY, UTAH.

Attachment A-4



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.

REGISTERED LAND SURVEYOR  
 REGISTRATION No. 54452  
 STATE OF UTAH

= SECTION CORNERS LOCATED  
 BASIS OF BEARINGS; G.L.O. DATED 1909  
 BASIS OF ELEV; U.S.G.S. 7-1/2 min QUAD (MYTON SE)

<b>TRI STATE LAND SURVEYING &amp; CONSULTING</b> 38 EAST 100 NORTH, VERNAL, UTAH 84078 (801) 781-2501	
SCALE: 1" = 1000'	SURVEYED BY: GS DA
DATE: 5/24/95	WEATHER: RAINY & COOL
NOTES:	FILE 21-10YL

EXHIBIT "K"

**ATTACHMENT A-5**

**Names and Addresses of Surface Owners**

1. USA

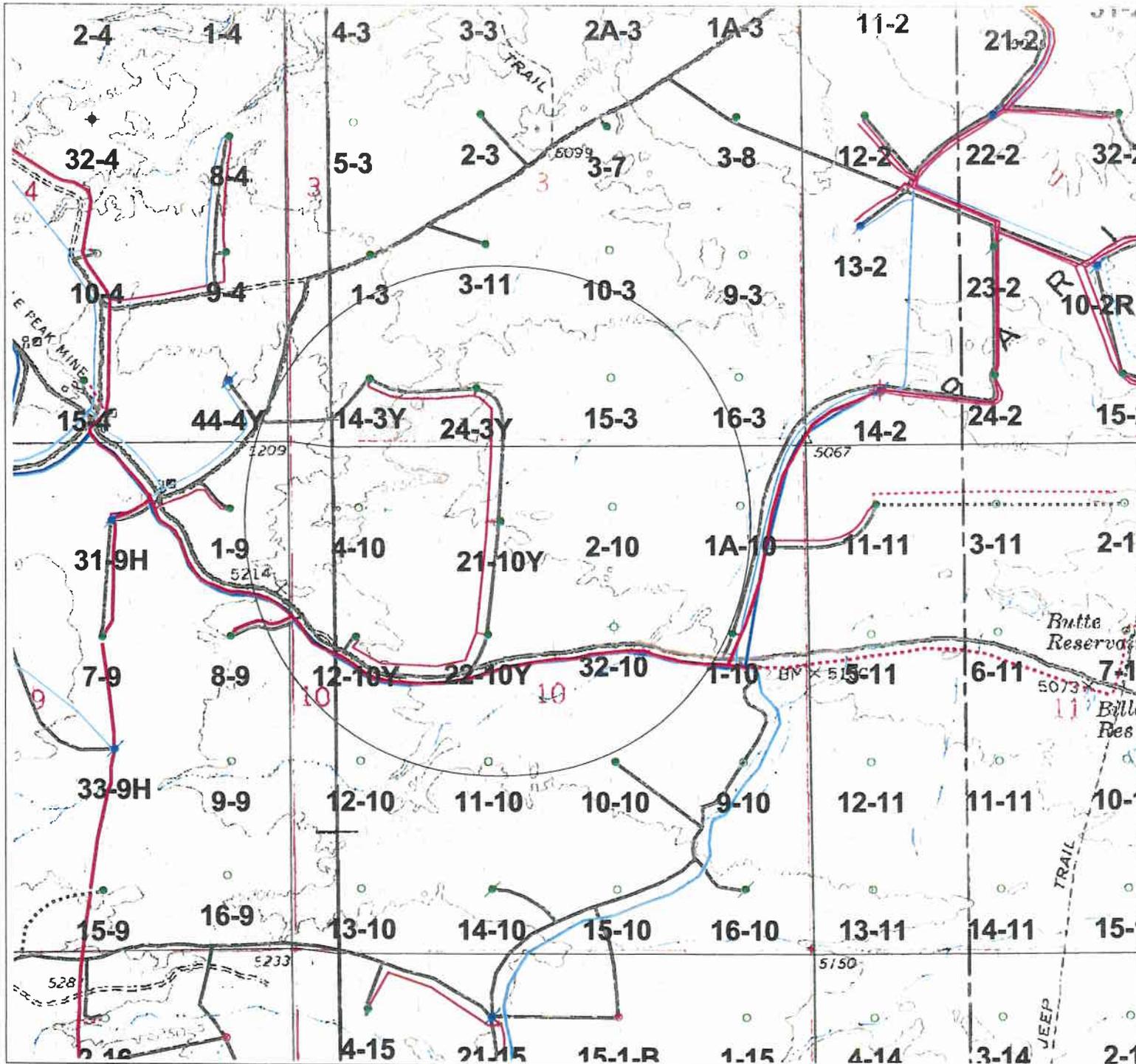
**ATTACHMENT B**

**MAPS OF WELLS/AREA AND AREA OF REVIEW**

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

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

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



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



Attachment B-1  
 Mon. Fed. 21-10-9-17  
 Sec. 10-T9S-R17E



410 E. 50th Street Suite 300  
 Denver, Colorado 80202  
 Phone: (303) 993 0102

**Area Map**

UINTA BASIN, UTAH

Duchesne & Uintah Counties, Utah

EAC Company



**ATTACHMENT C**

**CORRECTIVE ACTION PLAN AND WELL DATA**

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

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

Attachment C-1	Wellbore Diagram – Monument Butte Fed #21-10Y-9-17
Attachment C-2	Wellbore Diagram – Monument Butte Federal #14-3Y-9-17
Attachment C-3	Wellbore Diagram – Monument Butte Federal #24-3Y-9-17
Attachment C-4	Wellbore Diagram – Monument Butte Federal #12-10Y-9-17
Attachment C-5	Wellbore Diagram – Monument Butte Federal #22-10Y-9-17

# Balcron Monument Federal #21-10-9-17Y

Spud Date: 11-20-95  
 Put on Production: 12-22-95  
 GL: 5097' KB: ?

Initial Production: 10 BOPD, 0  
 MCFPD, 0 BWPD

Wellbore Diagram

**SURFACE CASING**

CSG SIZE: 8-5/8"  
 GRADE: J-55  
 WEIGHT: 24#  
 LENGTH: 5 jts.  
 DEPTH LANDED: 259.85'  
 HOLE SIZE: 12-1/4"  
 CEMENT DATA: 160 sx Class G, est 6 bbls cmt to surface

**PRODUCTION CASING**

CSG SIZE: 5-1/2"  
 GRADE: J-55  
 WEIGHT: 15.5#  
 LENGTH: 128 jts. (5526.52')  
 DEPTH LANDED: 5579.74'  
 HOLE SIZE: 7-7/8"  
 CEMENT DATA: 240 sx Super G & 280 sx 50/50 Poz  
 CEMENT TOP AT: 1880' per CBL  
 1914'

**TUBING**

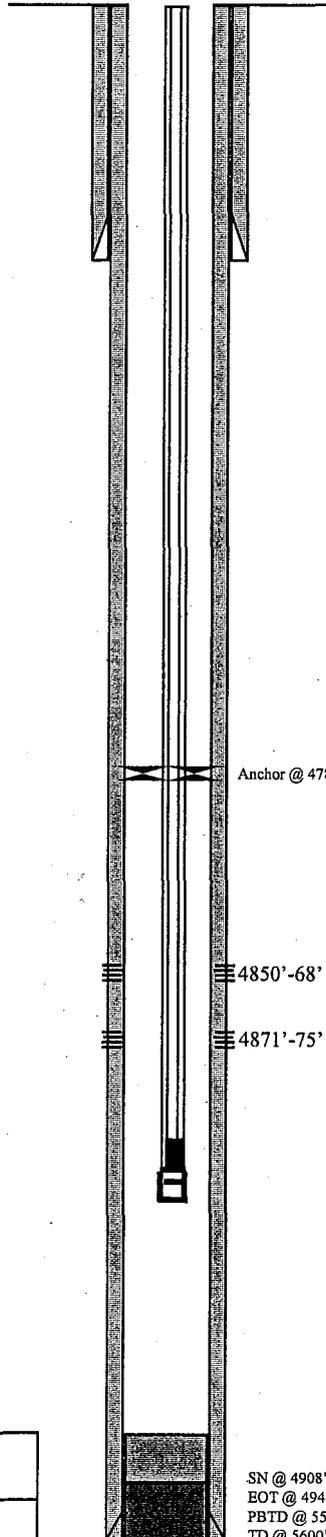
SIZE/GRADE/WT.: 2-7/8" / 6.5# / J-55  
 NO. OF JOINTS: 159 jts  
 TUBING ANCHOR: 4780'  
 SEATING NIPPLE: 2-7/8" (1.10')  
 TOTAL STRING LENGTH: EOT @ 4944'  
 SN LANDED AT: 4908'

**SUCKER RODS**

POLISHED ROD: 1-1/4" x 22'  
 SUCKER RODS: 185-3/4" plain  
 PUMP SIZE: 2-1/2" x 1-1/2" x 16' RWAC  
 STROKE LENGTH: 86"  
 PUMP SPEED, SPM: 5.5 SPM  
 LOGS:

**FRAC JOB**

12-7-95 4850'-4875' Frac sand as follows:  
 27,594 gals 2% KCL gelled water and  
 102,070# 16/30 sand. Perfs broke @  
 2640 psi. Treated w/avg press of 2400  
 psi w/avg rate of 31.4 BPM. ISIP-2320  
 psi, 5 min 2010 psi.



**PERFORATION RECORD**

12-6-95	4850'-4868'	4 JSPF	72 holes
12-6-95	4871'-4875'	4 JSPF	16 holes

SN @ 4908'  
 EOT @ 4944'  
 PBTD @ 5530'  
 TD @ 5600'



**Inland Resources Inc.**  
 Balcron Monument Federal #21-10-9-17Y  
 807 FNL 2120 FWL  
 NENW Section 10-T9S-R17E  
 Duchesne Co, Utah  
 API #43-013-31537; Lease #U-65210

# Balcron Federal #14-3

Elev.GR -5170' GL  
Elev.KB -5179' KB

Wellbore Diagram

**SURFACE CASING**

CSG SIZE: 8-5/8"  
GRADE: J-55  
WEIGHT: 24#  
LENGTH: 248.05' (6jts)  
DEPTH LANDED: 258.05' KB  
HOLE SIZE: 12-1/4"  
CEMENT DATA: BJ Services: 160 sxs "G"  
w/ 2% CaCl<sub>2</sub>, 1/4#/sk  
Cello Flake.

**PRODUCTION CASING**

CSG SIZE: 5-1/2"  
GRADE: J-55  
WEIGHT: 15.5#  
LENGTH: 5713'  
DEPTH LANDED: 5723.00' KB  
HOLE SIZE: 7-7/8"  
CEMENT DATA: BJ Services: 250 sxs "Super G"  
w/3#/sk POZ, 34#/sk BA-81,  
3% Salt, 2% Gel, 3#/sk Hi-Seal  
1/4#/sk Cello-Seal-2  
1390' KB

CEMENT TOP AT: 1390' KB  
1422

**TUBING**

SIZE/GRADE/WT.: 2-7/8" EUE/ J-55 / 6.5#  
NO. OF JOINTS: 154 jts (4772.79')  
TUBING ANCHOR: 2-1/2"x5-1/2" Trico(2.35')  
NO. OF JOINTS: 14 jts (434.81')  
SEATING NIPPLE: 2-7/8" (1.10')  
PERFORATED SUB: 2-7/8"x4' (4.20')  
MUD ANCHOR: 2-7/8"x31.11'  
STRING LENGTH: 5246.76'  
SN LANDED AT: 5220.05' KB

**SUCKER RODS**

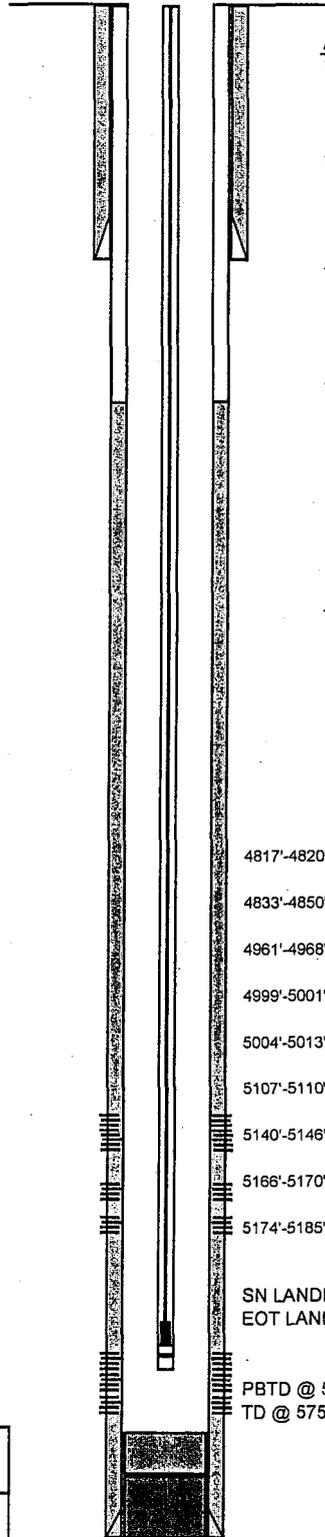
POLISHED ROD: 1-1/4"x22" SM  
SUCKER RODS: 1- 3/4"x4' Pony  
1- 3/4"x8' Pony  
207- 3/4"x25' Plain D-61  
STRING LENGTH: 5209'  
PUMP NUMBER: Trico #1132  
PUMP SIZE: 2-1/2"x1-1/2"x16" RWAC  
STROKE LENGTH: 86"  
PUMP SPEED, SPM: 5  
PUMPING UNIT: 228-246-86  
PRIME MOVER: Ajax, 7-1/4x8

**ACID JOB /BREAKDOWN**

11/27/95 5107'-5110' BJ Services: 1848 gal 2% KCL wtr. w/ 25 ball sealers. Balled out. ATP=3000 psi, ATR=6.0 bpm, ISIP=900 psi  
11/27/95 5140'-5146' BJ Services: 1848 gal. 2% KCL wtr, w/ 50 ball sealers. Balled out. ATP=3000 psi, ATR=6.3 bpm, ISIP= 1000 psi.  
11/27/95 5166'-5170' BJ Services: 5174'-5185' 3024 gal. 2% KCL wtr, w/ 100 ball sealers, no ball out. ATP=2500 psi, ATR= 6.3 bpm, ISIP=1150 psi.  
11/30/95 4999'-5001' BJ Services: 5004'-5013 2898 gal 2% KCL wtr, w/ 88 ball sealers, No ballout. ATP=2800 psi, ATR=5.9 bpm, ISIP=1800 psi.  
11/30/95 4961'-4968' BJ Services: 2016 gal 2% KCL wtr, w/ 56 ball sealers, balled out. ATP=2900 psi, ATR= 5.3 bpm, ISIP=1800 psi.  
12/4/95 4817' 4820' BJ Services: 4833'-485(3360 gal 2% KCL wtr, w/ 160 ball sealers, no ball out. ATP=1900 psi ATR=4.9 bpm, ISIP=1300 psi.

**FRAC JOB**

11/28/95 5107'-5110' BJ Services: 28,140 gal 2% 5140'-5146' KCL w/ 48,900 # 20/40 sand, 5166'-5170' 63,580 # 16/30 sand. ATP= 5174'-5185' 2100 psi, ATR= 30.1 bpm, ISIP= 2100 psi, 5 min.=1860 psi, 10 min.= 1760 psi, 15 min.= 1700 psi.  
4817'-4820'  
4833'-4850'  
4961'-4968'  
11/30/95 4961'-4968' BJ Services: 4999'-5001' 23,184 gal 2% KCL wtr, 5004'-5013' w/ 32,760 # 20/40 sand, 52,700 # 16/30 sand. ATP=2450 psi, ATR= 31.7 bpm, ISIP= 2900 psi, 5 min.=1980 psi, 10 min.= 1660 psi, 15 min.= 1590 psi, 30 min.=1470 psi.  
4999'-5001'  
5004'-5013'  
5107'-5110'  
5140'-5146'  
5166'-5170'  
12/4/95 4817' 4820' BJ Services: 18,018 gal 2% 4833'-4850' KCL wtr w/ 54,040 #16/30 sand. ATP= 3000 psi, ATR=33.5 bpm, ISIP= 4600 psi, 5 min.= 2080 psi, 10 min.= 1460 psi, 15 min.= 1290 psi, 30 min.= 1330 psi.  
5174'-5185'  
SN LANDED @ 5220.05' KB  
EOT LANDED @ 5255.76' KB  
PBTD @ 5679.55' KB  
TD @ 5750' KB



**Inland Resources Inc.**

**BALCRON FEDERAL 14-3-9-17Y**  
Monument Butte  
U-64381  
SW SW Section 3, T9S, T17E  
671' FSL, 792' FWL  
Duchesne County, Utah

# Balcron Federal #24-3Y

Elev. - 5042' GL  
KB - 5052' KB (10')

## Wellbore Diagram

### SURFACE CASING

SIZE: 8-5/8"  
GRADE: J-55  
WEIGHT: 24#  
LENGTH: 249.7' (6 jts)  
DEPTH LANDED: 258.7' KB  
HOLE SIZE: 12-1/4"  
CEMENT DATA: 150 sxs premium plus +  
2% CCl+1/4 #/sk flocele

### PRODUCTION CASING

SIZE: 5-1/2"  
GRADE: J-55  
WEIGHT: 15.5#  
LENGTH: 5888.07' (135 jts)  
DEPTH LANDED: 5883' KB  
HOLE SIZE: 7-7/8"  
CEMENT DATA: 150 sxs Hifill standard & tail w/  
470 sxs 50-50 Poz

CEMENT TOP AT: 1852' KB

### TUBING RECORD

SIZE/GRADE/WT.: 2-7/8" / 6.5# / J-55  
NO. OF JOINTS: none  
TUBING ANCHOR: none  
NO. OF JOINTS: 178 jts (5533.76')  
SEATING NIPPLE: 1.1' @ 5543.76' KB  
PERF. SUB: 3.05'  
MUD ANCHOR: 1 jt - 31.06' w/ NC  
STRING LENGTH: 5568.97'  
SN at: 5543.76' KB

### SUCKER ROD RECORD

POLISHED ROD: 1-1/4" x 16'  
SUCKER RODS: 214 - 3/4" x 25' slick, 1 - 8', 1 - 2-3/4" pony  
6 - 1" x 25' EL Rods w/ guides  
STRING LENGTH: 5526'  
PUMP SIZE: BHP 2-1/2 x 1-1/2 x 15.5' RHAC 66" SL @ 5 SPM

### ACID JOB / BREAKDOWN JOB

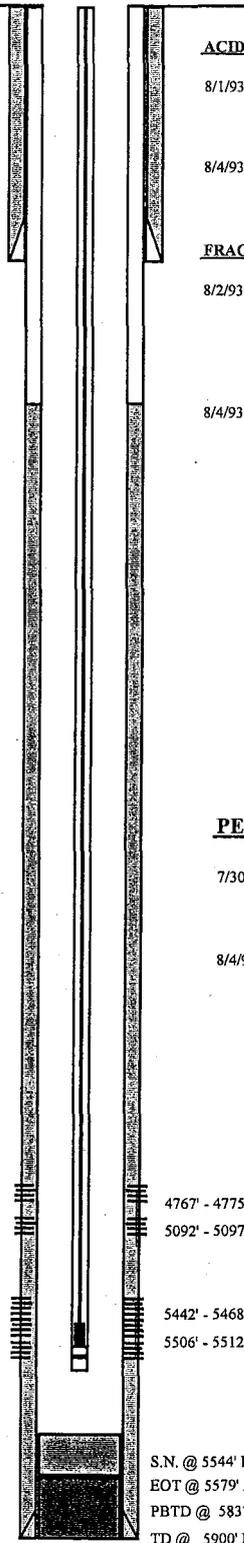
8/1/93 Western 5468'-5512' : 1890 gal 2% KCl wtr  
w/ 60 balls. balled off,  
ATR-4.8bpm, ATP-3100, ISIP-1000  
8/4/93 Western 4767'-5097' : 2520 gal 2% KCl wtr,  
w/ 60 balls. Balled off.  
ATR-4.5bpm, ATP-2300, ISIP-1300

### FRAC JOB

8/2/93 Western 5468'-512' : 4620gal 2% KCl pad, 18,816 gal  
2% KCl w/ 29,000# 20/40 & 15,500# 16/30  
sand, flush w/ 5250 gal 2% KCl wtr. ISIP-1370  
ATP-2022, ATR-32.2bpm, 5min-1210,  
10min-1130, 15min-1090.  
8/4/93 Western 4767'-5097' : 3486gal 2% KCl pad, 19,000#  
16/30 sand w/ 11,970gal 2% KCl wtr. Flush w/  
4746gal 2% KCl. ATR-15.5bpm, ATP-2800,  
ISIP-2000, 15mi n-1770

### PERFORATION RECORD

7/30/93 Haliburton 5506' - 5512' 6 ft 4 holes  
5442' - 5468' 26 ft 14 holes  
8/4/93 Schlumberger 5092' - 5097' 5 ft 4 holes  
4767' - 4775' 8 ft 6 holes



S.N. @ 5544' KB  
EOT @ 5579' KB  
PBTD @ 5837' KB  
TD @ 5900' KB



**Inland Resources Inc.**

**BALCRON FEDERAL #24-3Y**  
**SE SW Sec.3 T9S R17E**  
**Lease #U-64381**  
**Monument Butte Field**  
**Duchesne County, Utah**

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

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

Initial Production: 25 BOPD,  
 00 MCFPD, 10 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

**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

1753

**TUBING**

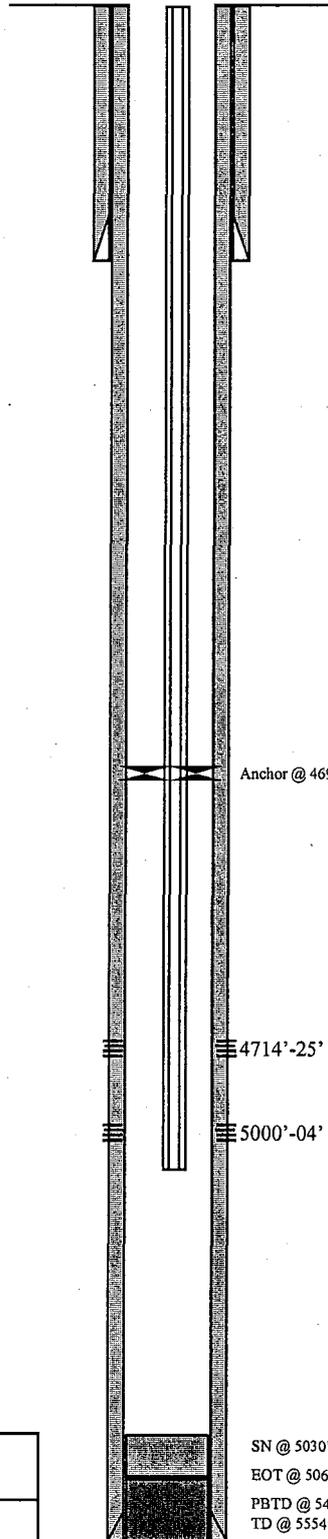
SIZE/GRADE/WT.: 2-3/8" / 6.5# / J-55  
 NO. OF JOINTS: 150 jts  
 TUBING ANCHOR: 4690'  
 SEATING NIPPLE: 2-7/8" (1.10')  
 TOTAL STRING LENGTH: EOT @ 5063'  
 SN LANDED AT: 5030'

**SUCKER RODS**

POLISHED ROD: 1-1/4" x 22'  
 SUCKER RODS: 198-3/4" plain  
 PUMP SIZE: 2-1/2" x 1-1/2" x 16' RHAC  
 STROKE LENGTH: 85"  
 PUMP SPEED, SPM: 4.75 SPM  
 LOGS:

**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.



**PERFORATION RECORD**

12-20-95	4714'-4725'	1 JSPF	11 holes
12-20-95	5000'-5004'	1 JSPF	4 holes



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

# Balcron Federal #22-10Y

Spud Date: 7-25-93  
 Put on Production: 8-30-93  
 GL: 5121.9' KB: ?

Initial Production: 87 BOPD,  
 25 MCFPD, 0 BWPD

Wellbore Diagram

**SURFACE CASING**

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

**PRODUCTION CASING**

CSG SIZE: 5-1/2"  
 GRADE: J-55  
 WEIGHT: 15.5#  
 LENGTH: 131 jts. (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**

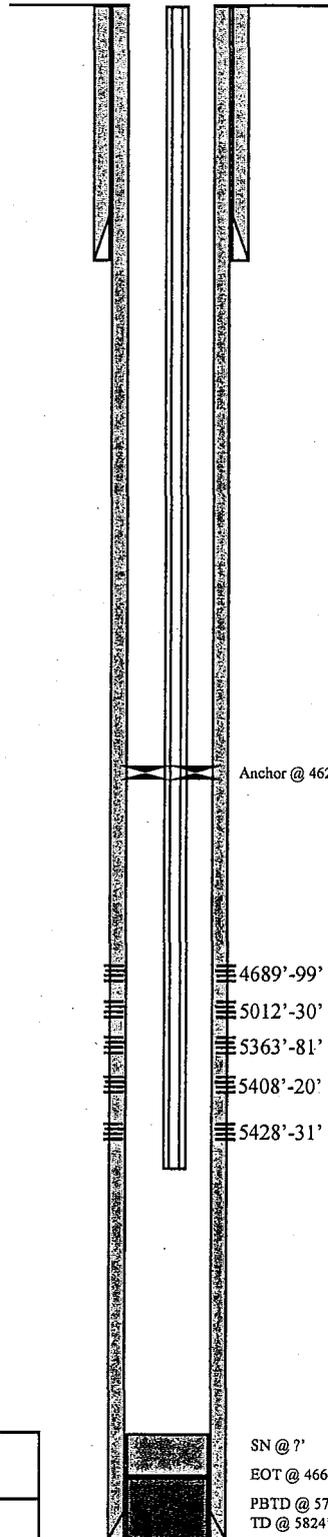
SIZE/GRADE/WT.: 2-7/8" / 4.6# / J-55  
 NO. OF JOINTS: 149 jts  
 TUBING ANCHOR: 4629'  
 SEATING NIPPLE: 2-7/8" (1.10')  
 TOTAL STRING LENGTH: EOT @ 4664'  
 SN LANDED AT: ?

**SUCKER RODS**

POLISHED ROD: 1-1/4" x 16'  
 SUCKER RODS: 178-3/4" plain  
 PUMP SIZE: 2-1/2" x 1-1/2" x 16' RHAC  
 STROKE LENGTH: 76"  
 PUMP SPEED, SPM: 5 SPM  
 LOGS:

**FRAC JOB**

8-13-93	5363'-5431'	<b>Frac sand as follows:</b> 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'	<b>Frac sand as follows:</b> 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'	<b>Frac sand as follows:</b> 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.



**PERFORATION RECORD**

Date	Depth Range	Tool	Holes
8-10-93	5428'-5431'	2 JSPF	6 holes
8-10-93	5408'-5420'	6 JSPF	84 holes
8-10-93	5363'-5381'	7 JSPF	126 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**

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

**ATTACHMENT E**

**NAME AND DEPTH OF USDWs**

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

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

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

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

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

# UNICHEM

A Division of BJ Services

P.O. Box 217  
Roosevelt, Utah 84066

Attachment E-1

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

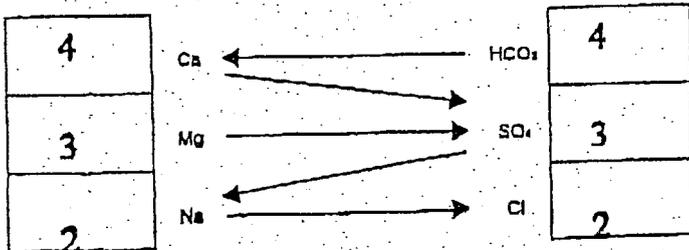
## WATER ANALYSIS REPORT

Company INLAND PRODUCTION Address \_\_\_\_\_ Date 1-27-00  
Source JOHNSON Data Sampled 1-26-00 Analysis No. \_\_\_\_\_

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

\*Milli equivalents per liter

### PROBABLE MINERAL COMPOSITION



Saturation Values	Distilled Water 20°C
CaCO <sub>3</sub>	13 Mg/l
CaSO <sub>4</sub> · 2H <sub>2</sub> O	2,000 Mg/l
MgCO <sub>3</sub>	103 Mg/l

Compound	Equly. Wt.	X	Meq/l	=	Mg/l
Ca(HCO <sub>3</sub> ) <sub>2</sub>	11.04	<u>4</u>			<u>324</u>
CaSO <sub>4</sub>	68.07				
CaCl <sub>2</sub>	55.50				
Mg(HCO <sub>3</sub> ) <sub>2</sub>	73.17				
MgSO <sub>4</sub>	60.19	<u>3</u>			<u>181</u>
MgCl <sub>2</sub>	47.62				
NaHCO <sub>3</sub>	64.00				
Na <sub>2</sub> SO <sub>4</sub>	71.03				
NaCl	58.46	<u>2</u>			<u>117</u>

REMARKS \_\_\_\_\_

Analytical Laboratory Report for:  
Inland Production



BJ Unichem  
Chemical Services

UNICHEM Representative: Rick Crosby

## Production Water Analysis

Listed below please find water analysis report from: M B, 21-10Y-9-17

Lab Test No: 2001402762      Sample Date: 11/21/2001  
 Specific Gravity: 1.005  
 TDS: 6083  
 pH: 8.60

Cations:	mg/L	as:
Calcium	30	(Ca <sup>++</sup> )
Magnesium	30	(Mg <sup>++</sup> )
Sodium	2277	(Na <sup>+</sup> )
Iron	1.80	(Fe <sup>++</sup> )
Manganese	0.00	(Mn <sup>++</sup> )
Anions:	mg/L	as:
Bicarbonate	244	(HCO <sub>3</sub> <sup>-</sup> )
Sulfate	0	(SO <sub>4</sub> <sup>=</sup> )
Chloride	3500	(Cl <sup>-</sup> )
Gases:		
Carbon Dioxide		(CO <sub>2</sub> )
Hydrogen Sulfide	0	(H <sub>2</sub> S)

Comments:

DownHole SAT(tm)  
MIXED WATER DEPOSITION POTENTIAL INDICATORS

1) Johnson Water

2) MB 21-10Y-9-17

Report Date: 11-26-2001

SATURATION LEVEL		MOMENTARY EXCESS (Lbs/1000 Barrels)	
Calcite (CaCO3)	2.18	Calcite (CaCO3)	0.870
Aragonite (CaCO3)	1.85	Aragonite (CaCO3)	0.734
Witherite (BaCO3)	0.00	Witherite (BaCO3)	-6.75
Anhydrite (CaSO4)	0.00440	Anhydrite (CaSO4)	-427.79
Gypsum (CaSO4*2H2O)	0.00538	Gypsum (CaSO4*2H2O)	-433.47
Barite (BaSO4)	0.00	Barite (BaSO4)	-0.222
Hydroxyapatite	0.00	Hydroxyapatite	-221.71
Iron hydroxide (Fe(OH)3)	1218	Iron hydroxide (Fe(OH)3)	< 0.001
Iron sulfide (FeS)	0.00	Iron sulfide (FeS)	-0.0139
SIMPLE INDICES		BOUND IONS	TOTAL
Langelier	0.432	Calcium	37.05
Stiff Davis Index	0.333	Barium	0.00
		Carbonate	7.39
		Phosphate	0.00
		Sulfate	55.00
			FREE
			32.43
			0.00
			2.84
			0.00
			48.86

OPERATING CONDITIONS

Temperature (°F)	100.00
Time (mins)	3.00

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

## ATTACHMENT G

### GEOLOGICAL DATA ON INJECTION AND CONFINING ZONES

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

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

The injection zones are in the Green River formation, bounded by the Garden Gulch marker and the Basal Limestone. The Green River is composed of porous and permeable lenticular calcareous sandstone and low porosity carbonates and calcareous shales. At the Monument Butte Fed #21-10Y-9-17 location, the proposed injection zone is from 3743'-5530'. The porous and permeable lenticular sandstones vary in thickness from 0' - 31' and are confined to the Monument Butte area by low porosity calcareous shales and carbonates.

The confining strata directly above and below the injection zones are the Green River formation and the Basal Carbonate in the Monument Butte Fed #21-10Y-9-17 well. The strata confining the injection zone are composed of tight, moderately calcareous, sandy lucustrine shales. All of the confining strata are impermeable, and will effectively seal off the oil, gas, and water of the injection zone from any strata directly above or below it.

The fracture pressure of the Monument Butte Fed #21-10Y-9-17 will be determined upon testing. The minimum fracture gradient calculates at 0.91 psig/ft. The maximum injection pressures will be limited so as not to exceed this gradient. A step rate test will be conducted upon injection and periodically thereafter to determine the actual fracture pressure. As the fracture pressure increases, we may elect to increase the injection pressure, but will not exceed a maximum of 2000 psig.

#### Communication Prevention:

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

Attachment G-1 Formation Tops

Attachment G-2 Proposed Maximum Injection Pressure

Attachment G-3 Fracture Reports Dated 12-7-95

Attachment G-4 Drilling and Completion Reports Dated 11-20-95 to 11-28-95 and 12-6-95 to 12-10-95 & 12-22-95

ATTACHMENT G-1

FORMATION TOPS

MONUMENT BUTTE FED #21-10Y-9-17

<u>FORMATION</u>	<u>DEPTH (ft)</u>
Horseberch	2127'
Green River	3151'
2 <sup>nd</sup> Garden Gulch	3743'
Douglas Creek	4354'
Castle Peak Limestone	5332'
Total Depth	5600'

Attachment "G-2"

**Monument Butte Federal #21-10Y-9-17  
Proposed Maximum Injection Pressure**

Frac Interval (feet)		Avg. Depth (feet)	ISIP (psi)	Calculated Frac Gradient (psi/ft)	Pmax
Top	Bottom				
4850	4875	4863	2320	0.91	<u>2304</u> ←
				Minimum	<u>2304</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 completion procedure.



**EQUITABLE RESOURCES ENERGY COMPANY**  
 BALCRON OIL DIVISION  
 1601 Lewis Avenue  
 P.O. Box 21017  
 Billings, MT 59104-1017  
 (406) 259-7860

Attachment G-3  
**TREATMENT REPORT**

DATE OF TREATMENT: 12-7-95

Well Name BALCRON FED. 21-10Y Sec. 10 TWN. 9S RNG. 17E  
 Field MONUMENT BUTTE County DUCHESSNE State MT.  
 Formation: GREEN RIVER (G-1 ZONE)  
 Perforations: 4850-68, 4871-75

Treatment Type: SAND FRAC Total Number of Holes: 85  
 Treatment Company: BJ SERVICES SAND CHARACTERISTICS

VOLUME			FLUID	CONC.			SIZE	SAND VOLUME	
SLURRY BBLs	CLEAN GAL			#/GAL	BPM	PSI		CALC.	ACTUAL
71	71	3000	2% KCL WATER (PAD)	0	32.5	2380	+	—	—
94	23	900	"	2	32.1	2360	16/30	1800	#
131	37	1350	"	3	31.6	2310	16/30	4050	#
201	70	2500	"	4	31.5	2310	16/30	10000	#
318	117	4000	"	5	31.2	2360	16/30	20,000	#
657	336	11046	"	6	31.8	2430	16/30	34,800	# 67221
	129	4100	"	7	—	—	16/30	22,700	#
788	114	4788	(FLUSH)	0	31.5	2690	+	—	—
							1	#	#
							1	#	#

TOTAL FLUID PUMPED: \_\_\_\_\_ gal. \_\_\_\_\_ % Acid  
27,594 gal. 2% KCL WATER Fluid  
 TOTAL SAND VOLUME: 102,070 lbs. 16130 sand  
 \_\_\_\_\_ lbs. 1 sand  
 \_\_\_\_\_ lbs. 1 sand

Flushed well with \_\_\_\_\_ gal. of 2% KCL WATER  
 \_\_\_\_\_ ball sealers were pumped. Was ball action seen? \_\_\_\_\_

Barrels of Load to Recover: 657 BLTR.  
 Avg. Treating Pressure = 2400 psl, max = 2690 psl, min. = 2280 psl.  
 Avg. Treating Rate = 31.4 bpm, max = 32.5 bpm, min. = 31.2 bpm.  
 ISIP = 2320 psl, 5 min. = 2010 psl, 10 min. = 1900 psl, 15 min. = 1830 psl.  
 Well will be shut in for 0 hours before bringing back fluid. 30 min = 1730 Psl

REMARKS: 3 BBL TO LOAD HOLE  
START FORCED CLOSURE FLOW BACK .5 BPM  
FRAC GRADIENT: .913 Wellsite Supervisor: Dale Griffin



WELL NAME: Balcron Fed 21-104

DAY NO.: 1

REPORT DATE: 11-21-95 @ 6:00 AM

OPERATION: Tripp loop B.O.P. DEPTH: 280

FOOTAGE LAST 24HR. 280 FORMATION: Unitah

**DETAILS**

Moved rig up, drill rat hole, set conductor, install air bowl,  
Drill 12 1/4 hole blow hole, trip out, run 8 5/8 casing,  
Cement casing, W.C. tripp loop B.O.P.

Spud at 4:00 P.M.  
BHA: RT, air hammer, & drill collar.  
Plug down 12:15 P.M.

MUD PROPERTIES		MUD PUMP		BIT RECORD	
WEIGHT	air 9- mud:	LINER SIZE		BIT NO.	1
VISCOSITY		STROKE LGTH		SER. NO.	P
PV		SPM		SIZE	12 1/4
YP		PRESSURE	150	MAKE	Smith
GEL STGH		ANN. VEL(DP)	1800	TYPE	E.B.
PH		ANN. VEL(DC)	C.F.M.	JETS	open
FILTRATE		DEVIATION		DEPTH IN	0
MUD CAKE				DEPTH	ANGLE
SALT				TOTAL HRS	6
CHLORIDES				TOTAL FT	280
CALCIUM				BIT WT	3-6
SAND				RPM	40
SOLIDS				COND.	0.15
OIL				Cum. hrs.	6
WATER					

RIG TIME		DAILY COST SUMMARY	
DRILLING	6	DRILLING-FOOTAGE	3318
TRIPS	1/2	DRILLING-DAYWORK	
SURVEYS		WATER	
RIG SER./BOP		MUD	100
Moved	3	RENTAL	150
Rig up	3	SUPERVISION	450
Drill rat hole	2	Surface pipe	2200
Set conductor	2	E. bent eq. job	371
Run casing	1	Cementing	2533
Cement casing	3/4		
W.C.	1/2		
Tripp loop up	1 3/4		

TOTAL DAILY COST

9022

CUMULATIVE COST

32099

TEMP./WEATHER

16° Partly Cloudy

REPORTED BY

alt lumber

RECEIVED BY

F. W.

# BALCRON OIL

## Daily Drilling Report

Attachment G-4  
Page 3 of 16  
DAY NO.: 2

WELL NAME: Balcon Fed. 21-104

REPORT DATE: 11-22-95 @ 6:00 AM

OPERATION: Drilling DEPTH: 1345

FOOTAGE LAST 24HR. 1065 FORMATION: Urtah

### DETAILS

rippl up BOP Test BOPd manifold to 2000<sup>psi</sup> ok. Test casing to 1500<sup>psi</sup> ok. Trip in hole drill cement, drill, survey, clean on rig.

BHA: Bit, bit sub. 17' drill collar, x over sub.

MUD PROPERTIES		MUD PUMP		BIT RECORD	
WEIGHT	<u>air &amp;</u>	LINER SIZE		BIT NO.	<u>2</u>
VISCOSITY	<u>mil<sup>2</sup></u>	STROKE LGTH		SER. NO.	<u>663615</u>
PV		SPM		SIZE	<u>2 7/8</u>
YP		PRESSURE	<u>210</u>	MAKE	<u>Leear</u>
GEL STGH		ANN. VEL(DP)	<u>1800</u>	TYPE	<u>S88CF</u>
PH		ANN. VEL(DC)	<u>6.FM</u>	JETS	<u>3-249</u>
FILTRATE		DEVIATION		DEPTH IN	<u>280</u>
MUD CAKE		DEPTH	ANGLE	DEPTH OUT	
SALT		<u>550</u>	<u>0°</u>	TOTAL HRS	<u>18</u>
CHLORIDES		<u>1050</u>	<u>1/4°</u>	TOTAL FT	<u>1065</u>
CALCIUM				BIT WT	<u>40</u>
SAND				RPM	<u>60</u>
SOLIDS				COND.	<u>24</u>
OIL					
WATER <u>90</u>	<u>100</u>				
<u>KD-700</u>	<u>280PPM</u>				

RIG TIME		DAILY COST SUMMARY	
DRILLING	<u>18</u>	DRILLING-FOOTAGE	<u>12621</u>
TRIPS	<u>1/2</u>	DRILLING-DAYWORK	
SURVEYS	<u>1/2</u>	WATER	
RIG SER./BOP	<u>1/2</u>	MUD	<u>150</u>
<u>rippl up BOP</u>	<u>1/2</u>	RENTAL	<u>150</u>
<u>Test BOP</u>	<u>2</u>	SUPERVISION	<u>450</u>
<u>Drill cement</u>	<u>2</u>	<u>BOP Tester</u>	<u>630</u>
		<u>mud logger</u>	<u>500</u>

TOTAL DAILY COST  
14501

CUMULATIVE COST  
26600

TEMP./WEATHER  
18° Partly cloudy

REPORTED BY  
Al Linkett

RECEIVED BY  
Foy

# BALCRON OIL

## Daily Drilling Report

Attachment G-4  
Page 4 of 16

WELL NAME: Balcron Fed. 21-104

DAY NO.: 3

**REPORT DATE:** 11-23-95 @ 6:00 AM

**OPERATION:** Drilling **DEPTH:** 2732

**FOOTAGE LAST 24HR.** 1387 **FORMATION:** Lawrence

**DETAILS**

Drill survey clean on log

Background gas 2-6 units  
Connective gas 10-30 units

RHA: B.L. 5 ft sub 17 drill collar, X over sub.

MUD PROPERTIES		MUD PUMP		BIT RECORD	
WEIGHT	<u>Oil 9</u>	LINER SIZE		BIT NO.	<u>2</u>
VISCOSITY	<u>1100-2</u>	STROKE LOCH		SER. NO.	<u>66-245</u>
PV		SPM		SIZE	<u>7 7/8</u>
YP		PRESSURE	<u>230</u>	MAKE	<u>2001</u>
GEL STGHT		ANN. VFL (DP)	<u>1800</u>	TYPE	<u>388CF</u>
PH		ANN. VFL (DC)	<u>21M</u>	JETS	<u>3-240</u>
FILTRATE		<b>DEVIATION</b>		DEPTH IN	<u>222</u>
MUD CAKE		DEPTH	ANGLE	DEPTH OUT	
SALT		<u>1550</u>	<u>3/4°</u>	TOTAL HRS	<u>75.35</u>
CHLORIDES		<u>2072</u>	<u>134°</u>	TOTAL FT	<u>2452</u>
CALCIUM		<u>2525</u>	<u>2°</u>	BIT WT	<u>40</u>
SAND				RPM	<u>60</u>
SOLIDS				COND.	<u>46.74</u>
OIL					
WATER %	<u>100</u>				
AD 700	<u>280 PPM</u>				

RIG TIME		DAILY COST SUMMARY		TOTAL DAILY COST	
DRILLING	<u>2234</u>	DRILLING-FOOTAGE	<u>18136</u>	<u>18434</u>	
TRIPS		DRILLING DAYWORK		CUMULATIVE COST	
SURVEYS	<u>3 1/2</u>	WATER	<u>748</u>	<u>650.34</u>	
RIG SER./BOF	<u>1/2</u>	MUD	<u>150</u>	TEMP./WEATHER	
		RENTAL	<u>150</u>	<u>16° Clear</u>	
		SUPERVISION	<u>450</u>	REPORTED BY	
		<u>mud logger</u>	<u>500</u>	<u>al Plunkett</u>	
				RECEIVED BY	
				<u>F arf.</u>	

# BALCRON OIL

## Daily Drilling Report

Attachment G-4  
Page 5 of 16

WELL NAME: Balcron Exp. 21-104

DAY NO.: 4

REPORT DATE: 11-24-95 @ 6:00 AM  
 OPERATION: Drilling DEPTH: 3790  
 FOOTAGE LAST 24HR. 1058 FORMATION: 2<sup>nd</sup> Sandstone (Gulch)

### DETAILS

Drill survey, clean on rig.

Back ground gas 100 units  
Connection gas 600-800 units

BIT: Bit, bit sub, 2" drill collar, X over sub.

MUD PROPERTIES		MUD PUMP		BIT RECORD		
WEIGHT	<u>11.4</u>	LINER SIZE		BIT NO.	<u>2</u>	
VISCOSITY	<u>1000</u>	STROKE LGTH		SER. NO.	<u>663615</u>	
PV		SPM		SIZE	<u>7 3/4</u>	
YP		PRESSURE	<u>250</u>	MAKE	<u>McC.</u>	
GEL STGH		ANN. VEL.(DP)		TYPE	<u>3880A</u>	
PH		ANN. VEL.(DC)	<u>1800 C.F.M.</u>	JETS	<u>3-24"</u>	
FILTRATE		DEVIATION		DEPTH IN	<u>280</u>	
MUD CAKE				DEPTH	ANGLE	TOTAL HRS
SALT			<u>30.18</u>	<u>20</u>	TOTAL FT	<u>3570</u>
CHLORIDES			<u>34.75</u>	<u>270</u>	BIT WT	<u>70</u>
CALCIUM					RPM	<u>60</u>
SAND					COND.	<u>Cumulative 67 1/4</u>
SOLIDS						
OIL						
WATER	<u>90</u>					
FO: 200	<u>100</u>					
	<u>290 P.P.M.</u>					

RIG TIME		DAILY COST SUMMARY	
DRILLING TRIPS	<u>2.3</u>	DRILLING FOOTAGE	<u>12538</u>
SURVEYS	<u>1/2</u>	DRILLING-DAYWORK	
RIG SER./BOP	<u>1/2</u>	WATER	
		MUD	<u>150</u>
		RENTAL	<u>150</u>
		SUPERVISION	<u>450</u>
		<u>Mud Logger</u>	<u>500</u>
		<u>TRAC.</u>	<u>1000</u>

TOTAL DAILY COST  
747.58

CUMULATIVE COST  
7982.2

TEMP./WEATHER  
18° Partly cloudy

REPORTED BY  
Al Plunkett

RECEIVED BY  
Fay.

# BALCRON OIL

Daily Drilling Report

Attachment G-4  
Page 6 of 16

WELL NAME: Balcron Fed. 21-10Y

DAY NO.: 5

REPORT DATE: 11-25-95 @ 6:00 AM

OPERATION: Drilling DEPTH: 4,248

FOOTAGE LAST 24HR. 458 FORMATION: Y-Zone

### DETAILS

Drill head run with mud circulate, trip for bit.  
Drift survey, clear on rig.

Y-2+Y-3 nothing

Background gas 20-40 units  
connected now 100-110 units

BHA: Bit, bit 2 1/2, 17' distance from surface

MUD PROPERTIES		MUD PUMP		BIT RECORD	
WEIGHT	8.5	LINER SIZE	6	BIT NO.	2 3
VISCOSITY	27	STROKE LGTH	14	SER. NO.	6636/5 209XK
PV		SPM	54	SIZE	7 7/8 7 7/8
YP		PRESSURE	975	MAKE	DE. HTC.
GEL STGH		ANN. VEL.(DP)	160	TYPE	S88CF HZJ-44
PH	10	ANN. VEL.(DC)	258	JETS	3-24" 3-14"
FILTRATE		<b>DEVIATION</b>		DEPTH IN	280 3902
MUD CAKE		DEPTH	ANGLE	DEPTH OUT	3902
SALT		3902	279	TOTAL HRS	66 1/2 15 1/4
CHLORIDES	9420			TOTAL FT	3622 346
CALCIUM				BIT WT	40 40
SAND				RPM	60 60
SOLIDS				COND.	3-3-in
OIL				curm. sp. 87%	
WATER %	100				
KCL %	1.9				

RIG TIME		DAILY COST SUMMARY	
DRILLING	18	DRILLING FOOTAGE	437
TRIPS	4 1/4	DRILLING-DAYWORK	
SURVEYS	1 1/4	WATER	2054
RIG SER./BOP		MUD	750
Chamber	1	RENTAL	750
		SUPERVISION	750
		mud logger	500

TOTAL DAILY COST

8731

CUMULATIVE COST

8855.3

TEMP./WEATHER

16° Partly Cloudy

REPORTED BY

A. J. Lambert

RECEIVED BY

F. art.

# BALCRON OIL

Daily Drilling Report

Attachment G-4  
Page 7 of 16

WELL NAME: Balcrone #1-107

DAY NO.: 6

REPORT DATE: 11-26-95 @ 6:00 AM

OPERATION: Drilling DEPTH: 4808

FOOTAGE LAST 24HR. 560 FORMATION: R-zone

### DETAILS

Drill, survey, clean on rig.

4-5 min wire  
4-5 min solid, no mud, no pressure.  
Backlog mud gas 6-8 units  
Connect log gas 40-60 units

BHA: Bit, bit sub, 17 drill collars, & over sub.

MUD PROPERTIES		MUD PUMP		BIT RECORD	
WEIGHT	8.5	LINER SIZE	6	BIT NO.	3
VISCOSITY	27	STROKE LGTH	14	SER. NO.	D09XK
PV		SPM	54	SIZE	728
YP		PRESSURE	1000	MAKE	HTC
GEL STGH		ANN. VEL(DP)	150	TYPE	ATJ-44
PH	11	ANN. VEL(DC)	258	JETS	3-138
FILTRATE		DEVIATION		DEPTH IN	3402
MUD CAKE		DEPTH	4402	DEPTH OUT	
SALT		ANGLE	134	TOTAL HRS	38 1/2
CHLORIDES	9800			TOTAL FT	966
CALCIUM				BIT WT	40
SAND				RPM	60
SOLIDS				COND.	III
OIL					
WATER	20				
	2.6				

RIG TIME		DAILY COST SUMMARY	
DRILLING	23 1/4	DRILLING-FOOTAGE	6636
TRIPS		DRILLING-DAYWORK	
SURVLYS	1/2	WATER	
RIG SER./BOP	1/7	MUD	150
		RENTAL	150
		SUPERVISION	450
		mud logg.	500

TOTAL DAILY COST  
7886

CUMULATIVE COST  
96439

TEMP./WEATHER  
20° cloudy

REPORTED BY  
A. P. ...

RECEIVED BY  
...

# ● BALCRON OIL ●

## Daily Drilling Report

Attachment G-4  
Page 8 of 16

WELL NAME: Balcon Fed 21-10x

DAY NO.: 7

**REPORT DATE:** 11-27-95 @ 6:00 AM

**OPERATION:** Drilling      **DEPTH:** 5442

**FOOTAGE LAST 24HR.** 634      **FORMATION:** B-zone

**DETAILS**

Drill, survey, survey, not doing any cleaning

G-5 didn't look like much.  
B-1 soaked good.

**← DON'T REPORT**

Backgouging at 30-40 units  
connecting at 150-200 units

BHA: Bit, bit sub, 17 drill collar, kover sub.

MUD PROPERTIES		MUD PUMP		BIT RECORD	
WEIGHT	8.5	LINER SIZE	6	BIT NO.	3
VISCOSITY	27	STROKE LGTH	14	SER. NO.	D09XA
PV		SPM	54	SIZE	778
YP		PRESSURE	1025	MAKE	TTC
GEL STGH		ANN. VEL(DP)	160	TYPE	A7-41
PH	10	ANN. VEL(DC)	258	JETS	3-13"
FILTRATE		<b>DEVIATION</b>		DEPTH IN	2902
MUD CAKE		DEPTH	ANGLE	DEPTH OUT	
SALT		4931	2°	TOTAL HRS	6134
CHLORIDES	9800			TOTAL FT	1348
CALCIUM				BIT WT	40
SAND				RPM	60
SOLIDS				COND.	
OIL				km/cr	1348
WATER 20	100				
KCl 70	2.0				

RIG TIME		DAILY COST SUMMARY	
DRILLING	23 1/4	DRILLING-FOOTAGE	7513
TRIPS		DRILLING DAYWORK	
SURVEYS	1/2	WATER	
RIG SER./BOP	1/4	MUD	150
		RENTAL	150
		SUPERVISION	456
		mud logger	500

**TOTAL DAILY COST**

---

**CUMULATIVE COST**

---

**TEMP./WEATHER**  
16° Partly cloudy, Windy.

**REPORTED BY**

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**RECEIVED BY**

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Job # 2/NOV 95. 01X

WELL ID # 90910113/BB

# BALCRON OIL

## Daily Drilling Report

Attachment G-4  
Page 9 of 16

WELL NAME: Balcron Field 21-10X

DAY NO.: 8

**REPORT DATE:** 11-28-95 @ 8:00 AM

**OPERATION:** Run 5 1/2 casing      **DEPTH:** 5600

**FOOTAGE LAST 24HR.** 158      **FORMATION:** B zone

**DETAILS**

Drill, circulate for log, drop survey, trip out of hole, log well, trip in hole, lay down drill pipe & drill collar, change pipe ramp & test BOP to 2000' O.K. Rig up casing & start running 5 1/2 casing.

BHA: Bit, bit sub, 12 sub collar, & over sub,

MUD PROPERTIES		MUD PUMP		BIT RECORD	
WEIGHT	8.5	LINER SIZE	6	BIT NO.	3
VISCOSITY	2.8	STROKE LGTH	14	SER. NO.	DA9XK
PV		SPM	54	SIZE	7 7/8
YP		PRESSURE	1025	MAKE	HIC
GEL STGH		ANN. VEL(DP)	160	TYPE	HTJ-47
PH	10	ANN. VEL(DC)	256	JETS	3-129
FILTRATE		<b>DEVIATION</b>		DEPTH IN	3902
MUD CAKE		DEPTH	ANGLE	DEPTH OUT	5600
SALT		5600	174°	TOTAL HRS	28 1/2
CHLORIDES	9800			TOTAL FT	1698
CALCIUM				BIT WT	40
SAND				RPM	60
SOLIDS				COND.	33.1M
OIL				Turnover	141
WATER %	100				
FCI %	2.0				

RIG TIME		DAILY COST SUMMARY		TOTAL DAILY COST	
DRILLING	6 3/4	DRILLING-FOOTAGE	1872	15202	
TRIPS	5	DRILLING-DAYWORK	3145	CUMULATIVE COST	
SURVEYS	1/4	WATER	350	120404	
RIG SER./BOP		MUD	150	TEMP./WEATHER	
Circulate	1	RENTAL	150	14° Partly Cloudy	
Log well	4 1/2	SUPERVISION	450	REPORTED BY	
Lay down Pipe	5	Mud Logger	500	Al Plunkett	
Test BOP	1/2	Logging & Plumbing	385	RECEIVED BY	
Run casing	1			F. O. Y.	

# ● BALCRON OIL

## Daily Drilling Report

● Attachment G-4  
Page 10 of 16

WELL NAME: Balcron Fed. 21-10Y

DAY NO.: 9

**REPORT DATE:** 11-28-95 @      **AM**

**OPERATION:** 5 1/2 casing cement **DEPTH:** 5600'

**FOOTAGE LAST 24HR.** 0' **FORMATION:** B-Zone

CASIN	DETAILS	
guide shoe	60	Cement by R.T. with
1 1/2, 15.50 shoe ft.	41.60	2 1/2" sp. Super G. 47" sp. G+3"
Float collar	1.00	per sp. P <sub>2</sub> +34" sp. BA-91+31" sp. +
2 1/2, 15.50, J-55	5526.52	2 1/2" sp. + 3 1/2" sp. hi seal + 1/4" sp.
	5569.74	sp. cello seal.
2 1/2" sp.	10.00	Tail with 2 1/2" sp. 5/8" P <sub>2</sub> +2.70
2 1/2" sp.	5579.74	get + 1/4" sp. cello seal + 1/4" sp.
R.B.T.D.	5536.52	sp. hi seal.

BHA: 20 Centralizers Plug down 10:00 AM.  
Release rig 2:00 PM.

MUD PROPERTIES		MUD PUMP		BIT RECORD	
WEIGHT		LINER SIZE		BIT NO.	
VISCOSITY		STROKE LGTH		SER. NO.	
PV		SPM		SIZE	
YP	<u>3</u>	PRESSURE		MAKE	
GEL STGH	<u>at</u>	ANN. VEL(DP)		TYPE	
PH	<u>11.45</u>	ANN. VEL(DC)		JETS	
FILTRATE		<b>DEVIATION</b>		DEPTH IN	
MUD CAKE		DEPTH	ANGLE	DEPTH OUT	
SALT				TOTAL IIRS	
CHLORIDES				TOTAL FT	
CALCIUM				BIT WT	
SAND				RPM	
SOLIDS				COND.	
OIL					
WATER					

RIG TIME	DAILY COST SUMMARY	TOTAL DAILY COST
DRILLING	DRILLING-FOOTAGE	_____
TRIPS	DRILLING-DAYWORK	_____
SURVEYS	WATER	<b>CUMULATIVE COST</b>
RIG SER./BOP	MUD	_____
	RENTAL	<b>TEMP./WEATHER</b>
	SUPERVISION	_____
		<b>REPORTED BY</b>
		<u>Al Plumbert</u>
		<b>RECEIVED BY</b>
		_____

BALCRON OIL DIVISION  
DAILY COMPLETION / WORKOVER REPORT

Attachment G-4  
Page 11 of 16  
DATE 12-6-95

WELL NAME & NO. BALCRON FED. 21-10Y FIELD MONUMENT BUTTE  
 SEC. 10 TWP. 9S RANG. 17E COUNTY ROCKWELL STATE WY  
 TD 5600 PRTD 5530 KB 10 ELEV. GRD. LEVEL 5097  
 TBC. SIZE 2 7/8 TYPE EWE GRADE J-55 THRD. 8 RD. WT. 6.5 RNC. 2  
 TBC. SIZE \_\_\_\_\_ TYPE \_\_\_\_\_ GRADE \_\_\_\_\_ THRD. \_\_\_\_\_ WT. \_\_\_\_\_ RNC. \_\_\_\_\_  
 CAS. SIZE 5 1/2 TYPE LYC GRADE J-55 THRD. 8 RD. WT. 15.5 RNC. 3  
 CAS. SIZE \_\_\_\_\_ TYPE \_\_\_\_\_ GRADE \_\_\_\_\_ THRD. \_\_\_\_\_ WT. \_\_\_\_\_ RNC. \_\_\_\_\_  
 PERFORATIONS / OPEN HOLE 4850-68, 4871-75

REASON FOR JOB NEW COMPLETION PRESENT OPERATION \_\_\_\_\_  
 CSG. PRESS. \_\_\_\_\_ TBC. PRESS. \_\_\_\_\_ WEATHER WINDY

TIME	DESCRIPTION OF OPERATIONS AND COMMENTS
0700	M.I.R.U., BASIN WELL SERVICE RIG # 2
	N U 5M WELL HEAD, N U BOP.
	T I H W/4 3/4 BIT, 5 1/2 CAS. SCRAPER & 179 JTS. 2 7/8 TBC.
	TAG PTD AT 5530 KB.
	CIRCULATE HOLE CLEAN W/125 BBL. 2% RCL WATER.
	TOOH W/TBC, SCRAPER & BIT.
	R U CUTTER WIRE LINE TO RUN CBL & PERFORATE.
	RUN CBL FROM 5596 KB TO 1700 KB, W/1000 PSI.
	TOC AT 1880 KB.
	PERFORATE 4850-68 & 4871-75 4-SPF.
	R D CUTTER WIRE LINE.
1800	SWIFT

DAILY COSTS:		LOAD TO RECOVER, 11/8 BBL. OF WATER	
COMPLETION RIG	\$ 1530	TBC.	\$
BOP RENTAL	\$ 146	RODS	\$
EQUIP. RENTAL	\$ 90	PONIES & PUMPS	\$
TANK RENTAL	\$ 90	DOWN HOLE PUMP	\$
HOT OILER	\$	TA, MA, SN,	\$
COMPLETION FLUID	\$	WELL HEAD EQUIP.	\$
LOG & PERFORATE	\$ 4946	VALVES & FITTINGS	\$
STIMULATION	\$	TREATER/SEPERATER	\$
TRANSPORTATION	\$	TANKS	\$
CONTRACT LABOR	\$	PUMP UNIT/ENGINE	\$
VACUUM RENTAL	\$		\$
		CHEMICALS	\$
		CEMENTING	\$
		RIG ANCHORS	\$ 255
		CATS & GRADERS	\$ 8.50

BALCRON OIL DIVISION  
DAILY COMPLETION / WORKOVER REPORT

Attachment G-4  
Page 12 of 16  
DATE 12-7-95

WELL NAME & NO. BALCRON FED. 21-10 Y FIELD MONUMENT BUTTE  
 SEC. 10 TWP. 9S RNG. 17E COUNTY DUCHESSNE STATE UT.  
 TD 5600 PBD 5530 KB 10 ELEV. CRD. LEVEL 5097  
 TBG. SIZE 2 7/8 TYPE EHE GRADE J-55 THRD. 8 RD. WT. 6.5 RNG. 2  
 TBG. SIZE \_\_\_\_\_ TYPE \_\_\_\_\_ GRADE \_\_\_\_\_ THRD. \_\_\_\_\_ WT. \_\_\_\_\_ RNG. \_\_\_\_\_  
 CAS. SIZE 5 1/2 TYPE LT4C GRADE J-55 THRD. 8 RD. WT. 15.5 RNG. 3  
 CAS. SIZE \_\_\_\_\_ TYPE \_\_\_\_\_ GRADE \_\_\_\_\_ THRD. \_\_\_\_\_ WT. \_\_\_\_\_ RNG. \_\_\_\_\_  
 PERFORATIONS / OPEN HOLE 4850-68, 4871-75

REASON FOR JOE NEW COMPLETION PRESENT OPERATION \_\_\_\_\_  
 CSG. PRESS. \_\_\_\_\_ TBG. PRESS. \_\_\_\_\_ WEATHER \_\_\_\_\_

TIME DESCRIPTION OF OPERATIONS AND COMMENTS

0700 T/H W/BBP, RETRIEVING TOOL, 2 3/8 X 6' SUB, HD PKR, 2 3/8 X 2 7/8  
 CROSS OVER, 2 7/8 SEAT NIPPLE + 159 JTS, 2 7/8 TBE.  
 FLOW BACK 40 BBL. WATER  
 SET BP AT 4925' KB, EOT AT 4791' KB, PKR, 4780' KB.  
 R U B J SERVICES TO BREAK DOWN 4850-75  
 REFER TO TREATMENT REPORT.  
 TOOH W/TBE, RETRIEVING TOOL & PKR.  
 FLOW BACK 5 BBL. WATER.  
 R U B J SERVICES TO FRAC 4850-75'  
 REFER TO TREATMENT REPORT.  
 1020 START FRAC  
 1055 END FRAC  
 1058 START FORCED CLOSURE FLOW BACK. .5 BPM  
 FLOW BACK 4 HRS., 215 BBL. WATER, TRACE SAND.  
 SWIPN

DAILY COSTS: LOAD TO RECOVER 586 BBLS. OF WATER

COMPLETION RIG	\$ 1350	TBG.	\$	CHEMICALS	\$
BOP RENTAL	\$ 146	RODS	\$	CEMENTING	\$
EQUIP. RENTAL	\$ 90	PONIES & PUPS	\$	RIG ANCHORS	\$
TANK RENTAL	\$ 90	DOWN HOLE PUMP	\$	CATS & GRADERS	\$
HOT OILER	\$	TA, MA, SN,	\$		\$
COMPLETION FLUID	\$	WELL HEAD EQUIP,	\$		\$
LOG & PERFORATE	\$	VALVES & FITTINGS	\$		\$
STIMULATION	\$ 33,849	TREATER/SEPERATER	\$		\$
TRANSPORTATION	\$	TANKS	\$		\$
CONTRACT LABOR	\$	PUMP UNIT/ENGINES	\$		\$



WELL NAME & NO. BALCRON FED. 21-10Y FIELD MONUMENT BUTTE  
 SEC. 10 TWP. 9.5 RNG. 17 E COUNTY DUCHESNE STATE UT  
 TD 5600 PBD 5530 KB 10 ELEV. GRD. LEVEL 5097  
 TBG. SIZE 2 7/8 TYPE EUE GRADE J-55 THRD. 8RD. WT. 6.5 RNG. 2  
 TBG. SIZE \_\_\_\_\_ TYPE \_\_\_\_\_ GRADE \_\_\_\_\_ THRD. \_\_\_\_\_ WT. \_\_\_\_\_ RNG. \_\_\_\_\_  
 CAS. SIZE 5 1/2 TYPE LTIC GRADE J-55 THRD. 8RD WT. 15.5 RNG. 3  
 CAS. SIZE \_\_\_\_\_ TYPE \_\_\_\_\_ GRADE \_\_\_\_\_ THRD. \_\_\_\_\_ WT. \_\_\_\_\_ RNG. \_\_\_\_\_  
 PERFORATIONS / OPEN HOLE 4850-68, 4871-75

REASON FOR JOB NEW COMPLETION PRESENT OPERATION \_\_\_\_\_  
 CSG. PRESS. 0 TKG. PRESS. 50 WEATHER P/C

TIME DESCRIPTION OF OPERATIONS AND COMMENTS

0700	FLUID LEVEL AT 1400'	
	MADE 6 SWAB RUNS RECOVERED.	
	RECOVERED 30 BBL. WATER + 3 BBL. OIL. NO SAND LAST RUN.	
	FLUID LEVEL AT 3300' ON FINAL RUN.	
	RELEASE PKR., TAG SAND AT 4910' KB., CIRCULATE DOWN TO BP	
	AT 4925' KB., COULD NOT RELEASE BP. TOOK T1H W/ BUMPER SUB., RELEASE BP	
	TOOK H' W/ TBG. BUMPER SUB + BP.	
	T1H W/ TBG. PRODUCTION STRING.	
	LENGTH	DEPTH KB.
	1-NOTCHED-PINNED COLLAR	.44 4943.54
	1-JT. 2 7/8 EUE J-55 8RD. 6.5#	30.90 4943.10
	1-PERF SUB 2 7/8 X 4'	4.08 4912.20
	1-SENT NIPPLE 2 7/8	1.10 4908.12
	4-JTS. 2 7/8 EUE J-55 8RD. 6.5#	126.52 4907.02
	1-TBG. ANCHOR 2 7/8 X 5 1/2 (TRICO)	2.80 4780.50
	155-JTS. 2 7/8 EUE J-55 8RD. 6.5#	4767.70 4777.70
	KB.	10.00
1730	SWIFD	

DAILY COSTS: 467 LOAD TO RECOVER, 437 BBLIS. OF WATER

COMPLETION RIG	\$ 1471	TBG.	\$	CHEMICALS	\$
BOP RENTAL	\$ 146	RODS	\$	CEMENTING	\$
EQUIP. RENTAL	\$ 90	PONIES & PUMPS	\$ 169	RIG ANCHORS	\$
TANK RENTAL	\$ 90	DOWN HOLE PUMP	\$	CATS & GRADERS	\$
HOT OILER	\$	TA, MA, SN,	\$		\$
COMPLETION FLUID	\$	WELL HEAD EQUIP.	\$		\$
LOG & PERFERATE	\$	VALVES & FITTINGS	\$		\$
STIMULATION	\$	TREATER/SEPERATER	\$		\$
TRANSPORTATION	\$	TANKS	\$		\$
CONTRACT LABOR	\$	PUMP UNTT/ENCTNES	\$		\$



BALCRON OIL DIVISION  
DAILY COMPLETION / WORKOVER REPORT

Attachment G-4  
Page 16 of 16  
DATE 12-22-95

WELL NAME & NO. BALCRON FED. 21-10Y FIELD MONUMENT BUTTE  
 SEC. 10 TWP. 9S RNG. 17E COUNTY DUCHESNE STATE UT  
 TD 5600 PBTD 5530 KB 10 ELEV. GRD. LEVEL 5097  
 TBG. SIZE 2 7/8 TYPE EUE GRADE J-55 THRD. 8RD. WT. 6.5 RNG. 2  
 TBG. SIZE \_\_\_\_\_ TYPE \_\_\_\_\_ GRADE \_\_\_\_\_ THRD. \_\_\_\_\_ WT. \_\_\_\_\_ RNG. \_\_\_\_\_  
 CAS. SIZE 5 1/2 TYPE LT+C GRADE J-55 THRD. 8RD. WT. 15.5 RNG. 3  
 CAS. SIZE \_\_\_\_\_ TYPE \_\_\_\_\_ GRADE \_\_\_\_\_ THRD. \_\_\_\_\_ WT. \_\_\_\_\_ RNG. \_\_\_\_\_  
 PERFERATIONS / OPEN HOLE 4850-68, 4871-75

REASON FOR JOE NEW COMPLETION PRESENT OPERATION INITIAL PRODUCTION  
 CSG. PRESS. \_\_\_\_\_ TIG. PRESS. \_\_\_\_\_ WEATHER \_\_\_\_\_

TIME DESCRIPTION OF OPERATIONS AND COMMENTS

1300	START WELL PUMPING 5 1/2 SPM 8 1/2" STROKE
	PUMP UNIT: AMERICAN, SIZE 228-213-66 S/N 25F86-33033 (FROM GANE)
	ENGINE: AJAX, E-42, S/N 68633 (FROM IMI)
	TANKS: NATCO, 12' X 20' VERT. 400 BBL., W/ BURNERS, STAIR & CATWALK. S/N 9E-05301-07 (FROM NATCO) S/N 9E-05301-06 (FROM NATCO)
	DRAIN TANK: 12' X 5' 100 BBL. W/ OPEN TOP (FROM W.E. MACHINE)
	TREATER: OBP, SIZE 6 X 20 75 PSI S/N 1602 (FROM ROCKET)
	PUMPER: BOY LIDELL.

DAILY COSTS; LOAD TO RECOVER, 437 LBS. OF WATER

COMPLETION RIG	TBG.	CHEMICALS
ROP RENTAL	RODS	CEMENTING
EQUIP. RENTAL	PONIES & PUPS	RIG ANCHORS
TANK RENTAL	DOWN HOLE PUMP	CATS & GRADERS
HOT OILER	TA, MA, SN	
COMPLETION FLUID	WELL HEAD EQUIP.	
LOG & PERFERATE	VALVES & FITTINGS	
STIMULATION	TREATER/SEPERATER	
TRANSPORTATION	TANKS	

## ATTACHMENT H

### OPERATING DATA

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

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

**ATTACHMENT M**

**CONSTRUCTION DETAILS**

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

Attachment M-1 Wellbore schematic of Monument Butte Fed #21-10Y-9-17.

Attachment M-2 Site Plan of Monument Butte Fed #21-10Y-9-17.

# Balcron Monument Federal #21-10-9-17Y

Spud Date: 11-20-95  
 Put on Production: 12-22-95  
 GL: 5097' KB: ?'

Initial Production: 10 BOPD, 0  
 MCFPD, 0 BWPD

Wellbore Diagram

**SURFACE CASING**

CSG SIZE: 8-5/8"  
 GRADE: J-55  
 WEIGHT: 24#  
 LENGTH: 5 jts.  
 DEPTH LANDED: 259.85'  
 HOLE SIZE: 12-1/4"  
 CEMENT DATA: 160 sx Class G, est 6 bbls cmt to surface

**PRODUCTION CASING**

CSG SIZE: 5-1/2"  
 GRADE: J-55  
 WEIGHT: 15.5#  
 LENGTH: 128 jts. (5526.52')  
 DEPTH LANDED: 5579.74'  
 HOLE SIZE: 7-7/8"  
 CEMENT DATA: 240 sx Super G & 280 sx 50/50 Poz  
 CEMENT TOP AT: 1880' per CBL

**TUBING**

SIZE/GRADE/WT.: 2-7/8" / 6.5# / J-55  
 NO. OF JOINTS: 159 jts  
 TUBING ANCHOR: 4780'  
 SEATING NIPPLE: 2-7/8" (1.10")  
 TOTAL STRING LENGTH: EOT @ 4944'  
 SN LANDED AT: 4908'

**SUCKER RODS**

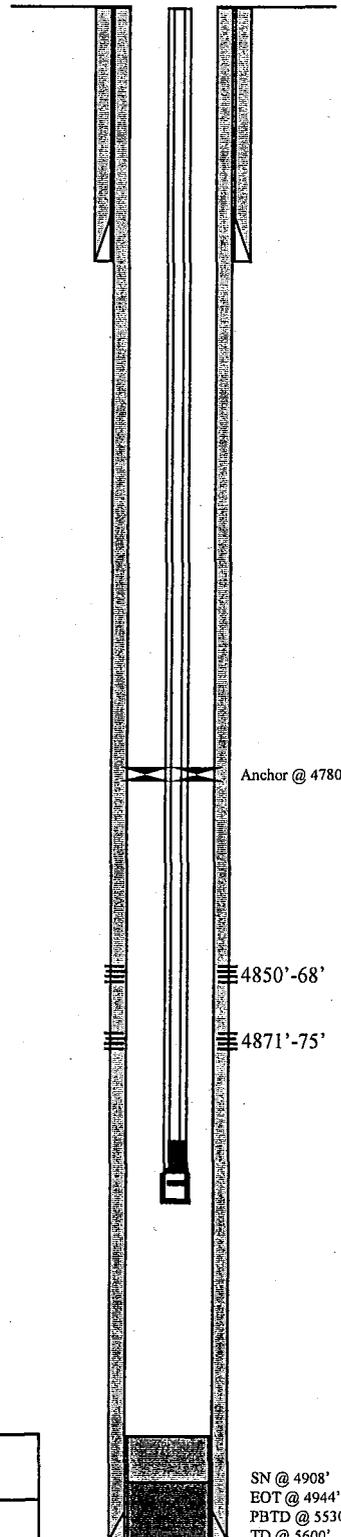
POLISHED ROD: 1-1/4" x 22'  
 SUCKER RODS: 185-3/4" plain  
 PUMP SIZE: 2-1/2" x 1-1/2" x 16' RWAC  
 STROKE LENGTH: 86"  
 PUMP SPEED, SPM: 5.5 SPM  
 LOGS:

**FRAC JOB**

12-7-95 4850'-4875' Frac sand as follows:  
 27,594 gals 2% KCL gelled water and  
 102,070# 16/30 sand. Perfs broke @  
 2640 psi. Treated w/avg press of 2400  
 psi w/avg rate of 31.4 BPM. ISIP-2320  
 psi, 5 min 2010 psi.

**PERFORATION RECORD**

12-6-95	4850'-4868'	4 JSPF	72 holes
12-6-95	4871'-4875'	4 JSPF	16 holes



SN @ 4908'  
 EOT @ 4944'  
 PBTD @ 5530'  
 TD @ 5600'



**Inland Resources Inc.**  
 Balcron Monument Federal #21-10-9-17Y  
 807 FNL 2120 FWL  
 NENW Section 10-T9S-R17E  
 Duchesne Co, Utah  
 API #43-013-31537; Lease #U-65210

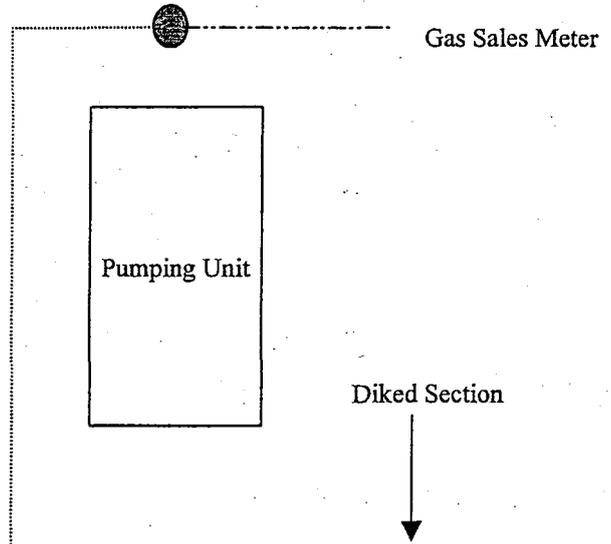
# Inland Production Company

## Site Facility Diagram

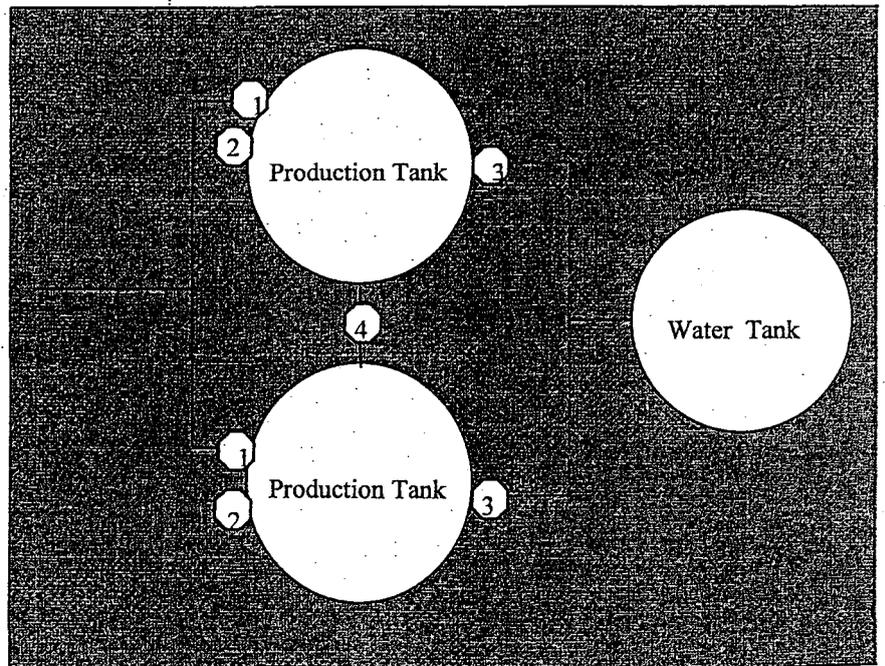
Attachment M-2

Federal 21-10Y  
 NE/NW Sec. 10, T9S, 17E  
 Duchesne County  
 May 12, 1998

Site Security Plan is held at the Roosevelt Office,  
 Roosevelt Utah



- Production Phase:**
- 1) Valves 1 and 3 sealed closed
  - 2) Valves 2 and 4 sealed open
- Sales Phase:**
- 1) Valves 3 & 4 sealed closed
  - 2) Valves 1 open
- Draining Phase:**
- 1) Valve 3 open



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

**ATTACHMENT Q**

**PLUGGING AND ABANDONMENT PLAN**

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

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

Attachment Q-2 Wellbore Schematic of Proposed Plugging and Abandonment

Attachment Q-3 Work Procedure for Plugging and Abandonment

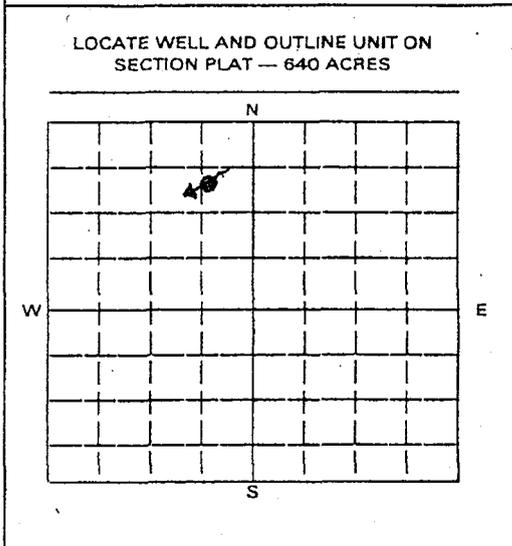


UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
WASHINGTON, DC 20460

**PLUGGING AND ABANDONMENT PLAN**

NAME AND ADDRESS OF FACILITY  
Monument Butte Fed 21-10Y-9-17  
Duchesne County, Utah

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



STATE Utah	COUNTY Duchesne	PERMIT NUMBER 43-013-31537
SURFACE LOCATION DESCRIPTION ¼ OF NE ¼ OF NW SECTION 10 TOWNSHIP 9S RANGE 17E		
LOCATE WELL IN TWO DIRECTIONS FROM NEAREST LINES OF QUARTER SECTION AND DRILLING UNIT Surface Location _____ 807 ft. from (N/S) N _____ Line of quarter section and _____ 2120 ft. from (E/W) W _____ Line of quarter section		
TYPE OF AUTHORIZATION <input type="checkbox"/> Individual Permit <input checked="" type="checkbox"/> Area Permit <input type="checkbox"/> Rule Number of Wells _____ 6 Lease Name Monument Butte Fed		WELL ACTIVITY <input type="checkbox"/> CLASS I <input checked="" type="checkbox"/> CLASS II <input type="checkbox"/> Brine Disposal <input checked="" type="checkbox"/> Enhanced Recovery <input type="checkbox"/> Hydrocarbon Storage <input type="checkbox"/> CLASS III Well Number #21-10Y-9-17

CASING AND TUBING RECORD AFTER PLUGGING					METHOD OF EMPLACEMENT OF CEMENT PLUGS	
SIZE	WT(LB/FT)	TO BE PUT IN WELL (FT)	TO BE LEFT IN WELL (FT)	HOLE SIZE	<input checked="" type="checkbox"/>	The Balance Method
8-5/8"	24	260'	260'	12-1/4"	<input type="checkbox"/>	The Dump Bailer Method
5-1/2"	15.5	5580'	5580'	7-7/8"	<input type="checkbox"/>	The Two-Plug Method
					<input type="checkbox"/>	Other

CEMENTING TO PLUG AND ABANDON DATA:	PLUG #1	PLUG #2	PLUG #3	PLUG #4	PLUG #5	PLUG #6	PLUG #7
Size of Hole or Pipe in which Plug Will be Placed (inches)	5-1/2"	5-1/2"	5-1/2"	5-1/2"	annulus		
Depth to Bottom of Tubing or Drill Pipe (ft.)	4944'	4944'	4944'	4944'	4944'		
Sacks of Cement To Be Used (each plug)	25 sx	25 sx	15 sx	10 sx	10 sx		
Slurry Volume To Be Pumped (cu. Ft.)							
Calculated Top of Plug (ft.)	4750'	2000'	210'	surface	surface		
Measured Top of Plug (if tagged ft.)							
Slurry Wt. (Lb./Gal.)	15.8	15.8	15.8	15.8	15.8		
Type Cement or Other Material (Class III)	Class G						

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

From	To	From	To
no open holes			

Estimated Cost to Plug Wells \$18,000

**CERTIFICATION**

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

NAME AND OFFICIAL TITLE (Please type or print) Joyce I. McGough/Regulatory Specialist	SIGNATURE <i>Joyce I. McGough</i>	DATE SIGNED 2/28/02
--	--------------------------------------	------------------------

# Balcron Monument Federal #21-10-9-17Y

Spud Date: 11-20-95  
 Put on Production: 12-22-95  
 GL: 5097' KB: ?

Initial Production: 10 BOPD, 0  
 MCFPD, 0 BWPD

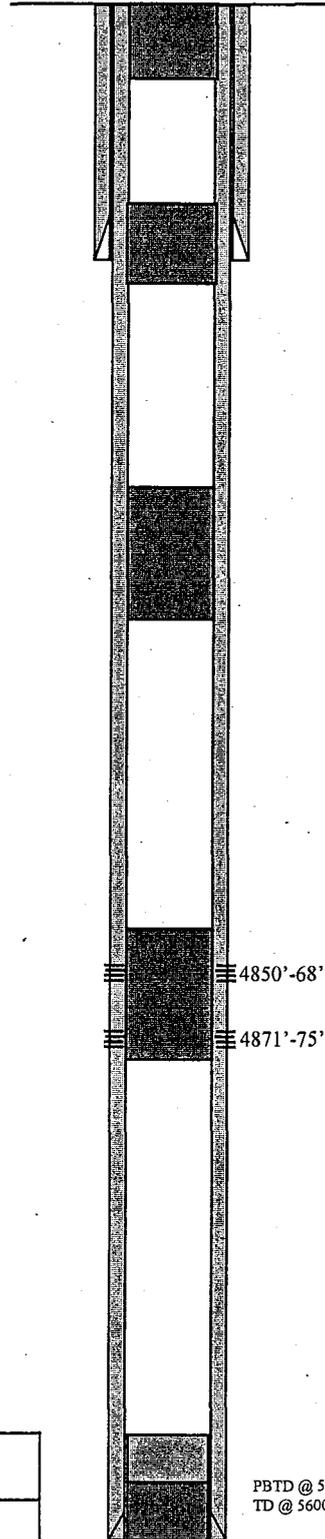
Proposed P & A  
 Wellbore Diagram

**SURFACE CASING**

CSG SIZE: 8-5/8"  
 GRADE: J-55  
 WEIGHT: 24#  
 LENGTH: 5 jts.  
 DEPTH LANDED: 259.85'  
 HOLE SIZE: 12-1/4"  
 CEMENT DATA: 160 sx Class G, est 6 bbls cmt to surface

**PRODUCTION CASING**

CSG SIZE: 5-1/2"  
 GRADE: J-55  
 WEIGHT: 15.5#  
 LENGTH: 128 jts. (5526.52')  
 DEPTH LANDED: 5579.74'  
 HOLE SIZE: 7-7/8"  
 CEMENT DATA: 240 sx Super G & 280 sx 50/50 Poz  
 CEMENT TOP AT: 1880' per CBL



10 sx Class 'G' cmt, 50' to surface

10 sx Class 'G' cement down the 8-5/8" x 5-1/2"  
 annulus to cement 290' to surface

15 sx Class 'G' cmt, 210'-310'

25 sx Class 'G' cmt, 2000'-2200'

4850'-68'

25 sx Class 'G' 4750'-4925'

4871'-75'

**PERFORATION RECORD**

12-6-95	4850'-4868'	4 JSPP	72 holes
12-6-95	4871'-4875'	4 JSPP	16 holes

PBTD @ 5530'  
 TD @ 5600'

JM 10/23/01



**Inland Resources Inc.**  
 Balcron Monument Federal #21-10-9-17Y  
 807 FNL 2120 FWL  
 NENW Section 10-T9S-R17E  
 Duchesne Co, Utah  
 API #43-013-31537; Lease #U-65210

ATTACHMENT Q-3

WORK PROCEDURE FOR PLUGGING AND ABANDONMENT

1. Plug #1 Set 175' plug from 4750'-4925' with 25 sxs Class "G" cement.
2. Plug #2 Set 200' plug from 2000'-2200' with 25 sxs Class "G" cement.
3. Plug #3 Set 100' plug from 210'-310' with 15 sx Class "G" cement.
4. Plug #6 Pump 10 sxs Class "G" cement down the 8-5/8" x 5-1/2" annulus to cement 260' to surface.
5. Set plug from 50' to surface with 10 sx Class "G" cement.

**ATTACHMENT R**

**NECESSARY RESOURCES**

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

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



RECEIVED  
FEB 28 2002  
BUREAU OF LAND MANAGEMENT  
Vernal District Office  
February 28, 2002

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

RE: Monument Federal #21-10Y-9-17  
Section 10-Township 9S-Range 17E  
Monument Butte Field, Blackjack Unit  
Duchesne County, Utah

Dear Mr. Forsman:

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

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

Sincerely,

Joyce McGough  
Regulatory Specialist

Enclosures



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	03/11/02

ACCOUNT NAME	
DIV OF OIL-GAS & MINING	
TELEPHONE	INVOICE NUMBER
801-538-5340	TL8201IE761
SCHEDULE	
START 03/11/02 END 03/11/02	
CUST. REF. NO.	

CAPTION	
BEFORE THE DIVISION OF OIL, GA	
SIZE	
59 LINES	2.00 COLUMN
TIMES	RATE
1	1.16
MISC. CHARGES	AD CHARGES
.00	136.88
<b>TOTAL COST</b>	
136.88	

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

---ooOoo---  
IN THE MATTER OF THE APPLICATION OF INLAND PRODUCTION COMPANY FOR ADMINISTRATIVE APPROVAL OF THE POMCO #4, AND BALCRON MONUMENT FEDERAL 21-10-9-17Y WELLS LOCATED IN SECTIONS 17 AND 10, TOWNSHIP 9 SOUTH, RANGE 17 EAST, DUCHESNE COUNTY, UTAH, AS CLASS II INJECTION WELLS

NOTICE OF AGENCY ACTION  
CAUSE NO. UIC 286

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

Notice is hereby given that the Division of Oil, Gas and Mining (the "Division") is commencing an informal adjudicative proceeding to consider the application of Inland Production Company for administrative approval of the Pomco #4, and Balcron Monument Federal 21-10-9-17Y wells, located in Sections 17 and 10, Township 9 South, Range 17 East, Duchesne County, Utah, for conversion to Class II injection wells. These wells are located in the Beluga, and Black Jack Units respectively. The proceeding will be conducted in accordance with Utah Admin. 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 application or otherwise intervene in the proceeding, must file a written protest or notice of intervention with the Division within fifteen days following publication of this notice. If such a protest or notice of intervention is received, a hearing will be scheduled in accordance with the aforementioned administrative procedural rules. Protestants and/or interveners should be prepared to demonstrate at the hearing how this matter affects their interests.

Dated this 7th day of March, 2002.

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

**AFFIDAVIT OF PUBLICATION**

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

PUBLISHED ON START 03/11/02 END 03/11/02

SIGNATURE *Merrilyn D. Dore*

DATE 03/11/02

8201IE76  
N  
**MERRILYN D. DORE**  
324 West Big Mountain Drive  
Taylorsville, Utah 84123  
My Commission Expires  
January 23, 2006  
State of Utah

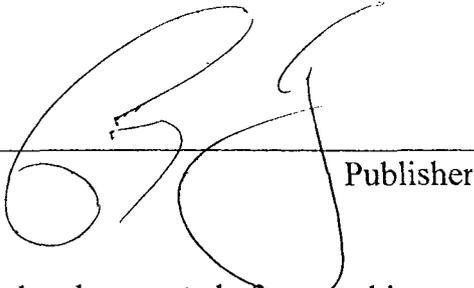


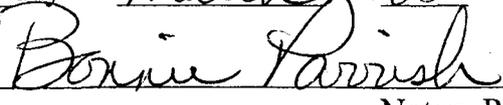
**THIS IS NOT A STATEMENT BUT A "PROOF OF PUBLICATION"  
PLEASE PAY FROM BILLING STATEMENT.**

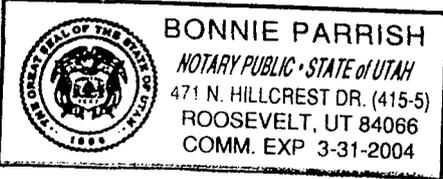
# AFFIDAVIT OF PUBLICATION

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 12 day of March, 20 02, and that the last publication of such notice was in the issue of such newspaper dated the 12 day of March, 20 02.

  
\_\_\_\_\_  
Publisher

Subscribed and sworn to before me this  
13 day of March, 20 02  
  
\_\_\_\_\_  
Notary Public



## NOTICE OF AGENCY ACTION CAUSE NO. UIC 286

IN THE MATTER OF THE APPLICATION OF INLAND PRODUCTION COMPANY FOR ADMINISTRATIVE APPROVAL OF THE POMCO #4, AND BALCRON MONUMENT FEDERAL 21-10-9-17Y WELLS LOCATED IN SECTION 17 AND 10, TOWNSHIP 9 SOUTH, RANGE 17 EAST, DUCHESNE COUNTY, UTAH, AS CLASS II INJECTION WELLS

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

Notice is hereby given that the Division of Oil, Gas and Mining (the "Division") is commencing an informal adjudicative proceeding to consider the application of Inland Production Company for administrative approval of the Pomco #4, and Balcron Monument Federal 21-10-9-17Y wells, located in Sections 17 and 10, Township 9 South, Range 17 east, Duchesne County, Utah, for

conversion to Class II injection wells. These wells are located in the Beluga, and Black Jack Units respectively. The proceeding will be conducted in accordance with Utah Admin. 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 application or otherwise intervene in the proceeding, must file a written protest or notice of intervention with the Division within fifteen days following publication of this notice. If such a protest or notice of intervention is received, a hearing will be scheduled in accordance with the aforementioned administrative procedural rules. Protestants and/or interveners should be prepared to demonstrate at the hearing how this matter affects their interests.

Dated this 7<sup>th</sup> day of March, 2002.  
STATE OF UTAH  
DIVISION OF OIL,  
GAS & MINING  
John R. Baza  
Associate Director  
Published in the Uintah Basin Standard March 12, 2002.

DIVISION OF OIL, GAS AND MINING  
UNDERGROUND INJECTION CONTROL PROGRAM

**PERMIT  
STATEMENT OF BASIS**

**Applicant:** Inland Production Company      **Well:** Balcron Monument Fed. 21-10-9-17Y

**Location:** 10/9S/17E      **API:** 43-013-31537

**Ownership Issues:** The proposed well is located on BLM land. The well is located in the Blackjack 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 Blackjack Unit. Inland has submitted an affidavit stating that all owners and interest owners have been notified of their intent.

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the injection zone. The resulting minimum fracture pressure for the proposed interval is 2304 psig. The requested maximum pressure is 2000 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.

DIVISION OF OIL, GAS AND MINING  
UNDERGROUND INJECTION CONTROL PROGRAM

**PERMIT  
STATEMENT OF BASIS**

**Applicant:** Inland Production Company      **Well:** Balcron Monument Fed. 21-10-9-17Y

**Location:**      10/9S/17E      **API:**      43-013-31537

**Ownership Issues:** The proposed well is located on BLM land. The well is located in the Blackjack 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 Blackjack 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 260 feet and has a cement top at the surface. A 5 ½ inch production casing is set at 5580'. A cement bond log demonstrates adequate bond in this well up to 1917'. A 2 7/8 inch tubing with a packer will be set at 4785 feet. A mechanical integrity test will be run on the well prior to injection. There are 4 producing wells and one P&A well in the area of review. All of the wells have 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 4182 feet and 5759 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 21-10-9-17Y well is .91 psi/ft., which was the lowest reported fracture gradient for the injection zone. The resulting minimum fracture pressure for the proposed injection interval is 2304 psig. The requested maximum pressure is 2000 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.

**Balcron Monument Fed. 21-10-9-17Y**  
**page 2**

**Oil/Gas& Other Mineral Resources Protection:** The Board of Oil, Gas & Mining approved the revised Blackjack 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

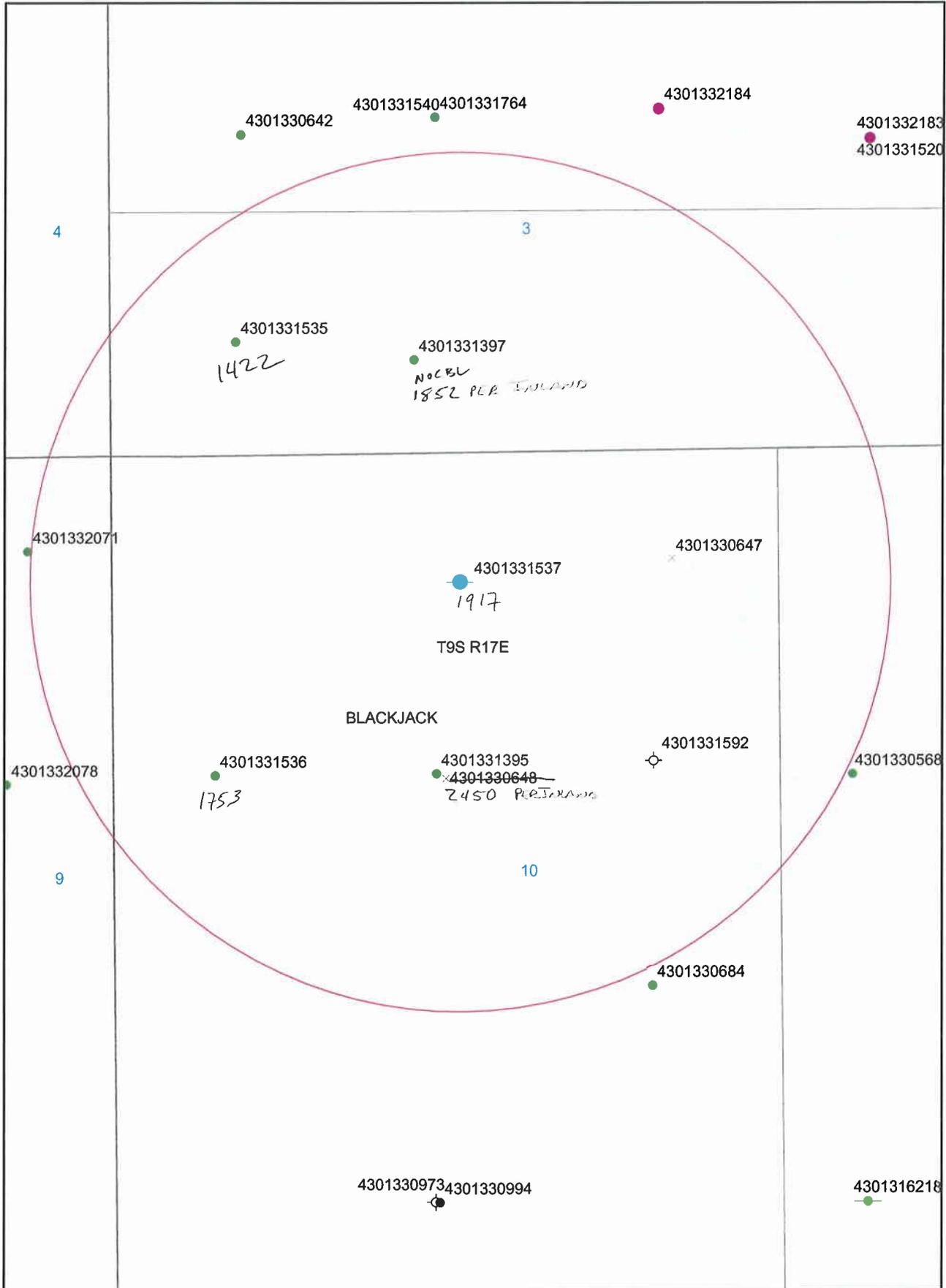
**Actions Taken and Further Approvals Needed:** A notice of agency action has been sent to the Salt Lake Tribune and the Uinta Basin Standard. A casing/tubing pressure test will be required prior to injection. It is recommended that approval of this application be granted.

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 06/13/2002

# MBF 21-10Y-9-17





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

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

1594 West North Temple, Suite 1210  
PO Box 145801  
Salt Lake City, Utah 84114-5801  
801-538-5340  
801-359-3940 (Fax)  
801-538-7223 (TDD)

June 13, 2002

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

Re: Blackjack Unit Well: Balcron Monument Federal 21-10-9-17Y, Section 10,  
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 at (801) 538-5315 or Dan Jarvis at (801) 538-5338.

Sincerely,

*for* John R. Baza  
Associate Director

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

**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-65210**

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

7. If Unit or CA, Agreement Designation  
**CASTLE DRAW EXPANSIC**

8. Well Name and No.  
**BALCRON MON FED 21-10-9-17Y**

9. API Well No.  
**43-013-31537**

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

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

**SUBMIT IN TRIPLICATE**

1. Type of Well  
 Oil Well     Gas Well     Other

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

3. Address and Telephone No.  
**Rt. 3 Box 3630, Myton Utah, 84052 435-646-3721**

4. Location of Well (Footage, Sec., T., R., m., or Survey Description)  
**0807 FNL 2120 FWL NE/NW Section 10, T9S 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 checked="" type="checkbox"/> Recompletion <input type="checkbox"/> Plugging Back <input type="checkbox"/> Casing Repair <input type="checkbox"/> Altering Casing <input type="checkbox"/> Other _____ <input type="checkbox"/> Change of Plans <input type="checkbox"/> New Construction <input type="checkbox"/> Non-Routine Fracturing <input type="checkbox"/> Water Shut-Off <input type="checkbox"/> Conversion to Injection <input 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.)\*

Subject well had recompletion procedures initiated in the Green River formation on 11/4/02. Existing production equipment was pulled from well. A bit & scraper was ran in well. Well was cleaned out to PBTD @ 5530'. One new Green River interval was perforated and hydraulically fracture treated as follows: Stage #1: CP1 sds @ 5369'-5387', 5400'-5404', 5412'-5423', 5427'-5430', 5434'-5436' and 5441'-5448' (all 4 JSPF) fraced down 2 7/8 N-80 tbg W/ 110,500# 20/40 mesh sand in 852 bbls Viking I-25 fluid. Frac was flowed back through chokes. Frac tbg & tools were pulled from well. New intervals were swab tested for sand cleanup (along W/ existing intervals). A revised BHA & production tbg were ran and anchored in well W/ tbg anchor @ 5349', pump seating nipple @ 5384' and end of tubing string @ 5448'. A repaired rod pump and revised rod string was ran in well. Well returned to production via rod pump on 11/8/02.

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

Signed *Gary Dietz* Title Completion Foreman Date 11/11/2002  
 Gary Dietz

CC: UTAH DOGM  
(This space for Federal or State office use)

Approved by \_\_\_\_\_ Title \_\_\_\_\_ Date NOV 13 2002

Conditions of approval, if any:  
CC: Utah DOGM

**RECEIVED**  
**NOV 13 2002**  
**DIVISION OF OIL, GAS AND MINING**

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



# 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

<b>UTSL-</b>	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
<b>UTU-</b>	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		

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

**CA No.** **Unit:** **BLACKJACK (GR)**

**WELL(S)**

NAME	SEC	TWN	RNG	API NO	ENTITY NO	LEASE TYPE	WELL TYPE	WELL STATUS
TAR SANDS FED 4-33	33	080S	170E	4301331664	12704	Federal	OW	P
TAR SANDS FED 5-33	33	080S	170E	4301331665	12704	Federal	WI	A
TAR SANDS FED 12-33	33	080S	170E	4301331757	12704	Federal	OW	P
TAR SANDS FED 6-33	33	080S	170E	4301331814	12704	Federal	OW	P
TAR SANDS FED 7-33	33	080S	170E	4301331860	12704	Federal	WI	A
TAR SANDS FED 11-33	33	080S	170E	4301331861	12704	Federal	WI	A
TAR SANDS FED 10-33	33	080S	170E	4301331884	12704	Federal	OW	P
TAR SANDS FED 15-33	33	080S	170E	4301331890	12704	Federal	OW	P
FEDERAL 24-3Y	03	090S	170E	4301331397	12704	Federal	WI	A
MON FED 14-3-9-17Y	03	090S	170E	4301331535	12704	Federal	OW	P
PAIUTE FED 32-4R-9-17	04	090S	170E	4301330674	12704	Federal	NA	DRL
FEDERAL 44-4Y	04	090S	170E	4301331452	12704	Federal	WI	A
ALLEN FED 43-5R-9-17	05	090S	170E	4301330720	12704	Federal	NA	DRL
MON FED 31-5-9-17	05	090S	170E	4301331680	12704	Federal	WI	A
FEDERAL 31R-9H	09	090S	170E	4301331107	12704	Federal	WI	A
CASTLE DRAW 10-10-9-17	10	090S	170E	4301330684	12704	Federal	OW	P
CASTLE DRAW 14-10	10	090S	170E	4301330994	12704	Federal	OW	P
FEDERAL 22-10Y	10	090S	170E	4301331395	12704	Federal	WI	A
BALCRON MON FED 12-10-9-17Y	10	090S	170E	4301331536	12704	Federal	OW	P
BALCRON MON FED 21-10-9-17Y	10	090S	170E	4301331537	12704	Federal	OW	P

**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 contacted on:

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

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

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

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

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

**DATA ENTRY:**

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

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

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

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

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

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

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

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

**LEASE INTEREST OWNER NOTIFICATION:**

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

**COMMENTS:**

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



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

REGION 8

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

Ref: 8P-W-GW

AUG 13 2009

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

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

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

RE: Additional Well: Castle Draw Area Permit  
UIC Permit No. UT20776-00000  
Well ID: UT20776-08406  
Balcron Monument Federal 21-10Y-9-17  
807' FNL & 2120' FWL  
NE NW Sec. 10 T9S-R17E  
Duchesne County, Utah  
API #43-013-31537

Dear Mr. Sundberg:

The Newfield Production Company request to convert the former Green River Formation oil well Balcron Monument Federal 21-10Y-9-17 to an enhanced recovery injection well under the Castle Draw Area Permit is hereby authorized by the Environmental Protection Agency Region 8 (EPA) under the terms and conditions described in the Authorization for Additional Well.

The addition of the proposed injection well within the exterior boundary of the Uintah & Ouray Indian Reservation is being made under the authority of 40 CFR §144.33 (c), terms of the Castle Draw Area Permit No. UT20776-00000 and subsequent modifications.

Please be aware that Newfield does not have authorization to begin injection operations until all Prior to Commencing Injection requirements have been submitted and evaluated by EPA and written authorization to begin injection is given by the Director. Please note that the Permit limits injection to the gross interval within the Green River Formation between the depth of 3,555 feet and the top of the Wasatch Formation estimated to be at 5,731 feet.

**RECEIVED**

**AUG 17 2009**

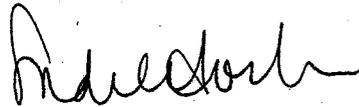
**DIV. OF OIL, GAS & MINING**

Prior to receiving authorization to inject, EPA requires that Newfield submit for review and approval: (1) a complete EPA Form No. 7520-12 (Well Rework Record) with a new schematic diagram, (2) a pore pressure calculation of the injection interval, and (3) the results of a Part I (Internal) Mechanical Integrity Test.

The initial Maximum Allowable Injection Pressure (MAIP) for the Balcron Monument Federal 21-10Y-9-17 is 1,210 psig. UIC Area Permit UT20776-00000 allows the permittee to request a change in the MAIP based upon results of a step rate test which demonstrates that the formation breakdown pressure will not be exceeded.

Oil and Gas Division  
FOR RECORD ONLY  
If you have any questions, please call Jason Deardorff at (303) 312-6583 or 1-(800) 227-8917 (Ext. 312-6583). Please submit the required data to Sarah Bahrman at the letterhead address citing mail code 8P-W-GW.

Sincerely,



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

Encl: Authorization for Additional Well  
EPA Form No. 7520-12 (Well Rework Record)  
Proposed Wellbore and P&A Schematics for Balcron Monument Federal 21-10Y-9-17

cc: Letter Only

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

Daniel Picard

BIA - Uintah & Ouray Indian Agency

All Enclosures:

Ferron Secakuku  
Director, Natural Resources  
Ute Indian Tribe

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

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

Fluid Minerals Engineering Office  
BLM - Vernal Office

Michael Guinn  
District Manager  
Newfield Production Company  
Myton, Utah



**UNITED STATES ENVIRONMENTAL PROTECTION AGENCY**

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

**AUTHORIZATION FOR ADDITIONAL WELL**

**UIC Area Permit No: UT20776-00000**

The Castle Draw Final UIC Area Permit No.UT20776-00000, effective November 29, 1995, authorizes injection for the purpose of enhanced oil recovery in the Monument Butte Field. On April 21, 2009, Newfield Production Company notified the Director concerning the following additional enhanced recovery injection well:

Well Name: **Balcron Monument Federal 21-10Y-9-17**  
EPA Well ID Number: **UT 20776-08406**  
Location: 807' FNL & 2120' FWL  
NE NW Sec. 10 T9S-R17E  
Duchesne County, Utah  
API #43-013-31537

Pursuant to 40 CFR §144.33, Area UIC Permit No. UT20776-00000 authorizes the permittee to construct and operate, convert, or plug and abandon additional enhanced recovery injection wells within the area permit. This well was determined to satisfy additional well criteria required by the permit.

This well is subject to all provisions of UIC Area Permit No. UT20776-00000, as modified and as specified in the Injection Well-Specific Requirements detailed below. This Authorization shall expire one year after the Effective Date unless the permittee has converted the well to injection or submits a written request to extend this Authorization prior to the expiration date.

This Authorization is effective upon signature.

**RECEIVED**

**AUG 17 2009**

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

Date: **AUG 13 2009**

*[Handwritten Signature]*  
*[Handwritten Initials]*

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

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

## **INJECTION WELL-SPECIFIC REQUIREMENTS**

Well Name: **Balcron Monument Federal 21-10Y-9-17**

EPA Well ID Number: **UT20776-08406**

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

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

Once these records are received and approved by EPA, the Director will provide written authorization to inject for a limited period of 180 days, during which time a Radioactive Tracer Survey (RTS) is required. The RTS will supplement the cementing records, which show an insufficient interval of 80 percent cement bond index or greater through the confining zone, by demonstrating the presence or absence of adequate cement to prevent fluid movement behind the casing above the uppermost perforation. It is intended that a maximum of 180 days of injection will allow the injection zone to achieve the Maximum Allowable Injection Pressure (MAIP) for the purpose of executing the RTS. If 180 days is not sufficient to achieve the MAIP specified in the permit, an extension of the period of Limited Authorization to Inject may be requested.

A successful RTS will be considered a valid confirmation that cementing records show adequate cement to prevent the upward migration of injection fluids from the injection zone at injection pressures up to the MAIP, until one of the following events occurs, at which time a subsequent RTS is required:

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

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

**Approved Injection Zone:** Injection is approved between the top of the Garden Gulch Member of the Green River Formation at 3,555 feet (ft.) to the top of the Wasatch Formation, at an estimated depth of 5,731 ft. (KB).

**Maximum Allowable Injection Pressure (MAIP):** The initial MAIP is 1,210 psig, based on the following calculation:

$$\begin{aligned} \text{MAIP} &= [\text{FG} - (0.433)(\text{SG})] * \text{D}, \text{ where} \\ \text{FG} &= 0.69 \text{ psi/ft.} \quad \text{SG} = 1.015 \quad \text{D} = 4,850 \text{ ft. (top perforation depth KB)} \\ \text{MAIP} &= \underline{\mathbf{1,210 \text{ psig}}} \end{aligned}$$

UIC Area Permit No. UT20776-00000 provides the opportunity for the permittee to request a change of the MAIP based upon the submitted results of a Step Rate Test that demonstrates the formation breakdown pressure will not be exceeded.

**Well Construction: Casing and Cementing:** The well was constructed in compliance with existing regulatory controls for casing and cementing pursuant to 40 CFR § 146.22(c). However, cementing records, including the cement bond log, have not satisfactorily demonstrated the presence of adequate cement to prevent the migration of injection fluids behind the casing from the injection zone.

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

**Demonstration of Mechanical Integrity:**

- (1) A successful demonstration of Part I (Internal) Mechanical Integrity using a Casing-Tubing Annulus Pressure Test is required prior to injection, and no less than every five years after the last successful test.
- (2) Because the cementing records have not satisfactorily demonstrated the presence of adequate cement to prevent migration of injection fluids behind the casing from the injection zone, a RTS is required to confirm the presence of adequate cement. If the RTS is not run, or if the RTS does not confirm adequate cement, the permittee shall demonstrate Part II (External) Mechanical Integrity pursuant to 40 CFR §146.8(a)(2) using an approved test method such as temperature log, noise log or oxygen activation log, and the demonstration of Part II Mechanical Integrity shall be repeated no less than every five years after the last successful test.

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

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

PLUG NO. 1: Set a cast iron bridge plug (CIBP) no more than 50 ft. above the top perforation with 100 ft. cement plug on top of the CIBP.

PLUG NO. 2: Perforate and squeeze cement up the backside of the 5-1/2" casing across the Trona Zone and the Mahogany Bench from approximately 2,685 ft. to 2,826 ft. (KB) unless pre-existing backside cement precludes cement-squeezing this interval. Set a minimum 141-foot balanced cement plug inside the 5-1/2" casing from approximately 2,685 ft. to 2,826 ft. (KB).

PLUG NO. 3: Perforate and squeeze cement up the backside of the 5-1/2" casing across the contact between the Uinta Formation and Green River Formation at 1,286 ft., from 1,226 ft. to 1,346 ft. (KB) unless pre-existing backside cement precludes cement-squeezing this interval. Set a minimum 120-foot plug inside the 5-1/2" casing from approximately 1,286 ft. to 1,346 ft. (KB).

PLUG NO. 4: Set a Class "G" cement plug within the 5-1/2" casing to 310 ft. and up the 5-1/2" x 8-5/8" casing annulus to the surface.

## **INJECTION WELL-SPECIFIC CONSIDERATIONS**

Well Name: **Balcron Monument Federal 21-10Y-9-17**  
EPA Well ID Number: **UT20776-08406**

**Underground Sources of Drinking Water (USDWs):** USDWs in the Castle Draw Unit Area Permit generally occur within the Uinta Formation. According to "*Base of Moderately Saline Ground Water in the Uinta Basin, Utah, State of Utah Technical Publication No. 92,*" the base of moderately saline ground water may be found at or near the surface in the vicinity of the Balcron Monument Federal 21-10Y-9-17 well.

**http:NRWRT1.NR.STATE.UT.US:** There are no reservoirs, streams, domestic or agricultural water wells within a quarter (1/4) mile of the well.

**Composition of Source, Formation, and Injectate Water: (Total Dissolved Solids [TDS]:**

The TDS of commingled produced water from the Douglas Creek and Castle Peak Members of the Green River Formation was determined to be 25,410 mg/l on April 4, 2009

The TDS of Beluga Facility Injection System source water was determined to be 8,822 mg/l on January 6, 2009

The **injectate** is water from the Beluga Facility Injection System blended with produced Green River Formation Water resulting in TDS < 10,000 mg/l.

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

**Confining Zone:** The Confining Zone, which directly overlies the Garden Gulch Member of the Green River Formation, is approximately 215 ft. of shale between the depths of 3,340 ft. and 3,555 ft. (KB).

**Injection Zone:** The Injection Zone at this well location is approximately 2,176 ft. of multiple lenticular sand units interbedded with shale, marlstone and limestone from the top of the Garden Gulch Member at 3,555 ft. (KB) to the top of the Wasatch Formation which is estimated to be at 5,731 ft. (KB). All formation tops are based on correlations to the Newfield Production Federal #1-26-8-17 (UT20702-04671) Type Log.

**Well Construction:** The CBL does not show 80% or greater cement bond index in the Confining Zone (3,340 to 3,555 ft. KB). Thus, further demonstration that well cement is adequate to prevent significant migration of injection fluids behind casing is required.

**Surface Casing:** 8-5/8" casing is set at 260 ft. (KB) in a 12-1/4" hole, using 160 sacks Class "G" cement, cemented to the surface.

**Longstring Casing:** 5-1/2" casing is set at 5,401 ft. (KB) in a 7-7/8" hole secured with 695 sacks of cement. Total driller depth 5,580 ft. Plugged back total depth is 5,530 ft. EPA calculates top of cement at 2,210ft. Estimated CBL top of cement is 1,880 ft.

**Perforations:** Top perforation: 4,850 ft. (KB)      Bottom perforation: 5,448 ft. (KB)

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

The following five wells that penetrate the confining zone within or proximate to a 1/4 mile radius around the Balcron Monument Federal 21-10Y-9-17 were evaluated to determine if any corrective action is necessary to prevent fluid movement into USDWs.

Well: Balcron Federal 24-3Y-9-17      API: 43-013-31397      SESW Sec. 3-T9S-R17E

Well: Blackjack Federal G-10-9-17      API: 43-013-33919      NENE Sec. 10-T9S-R17E

*Authorization for Additional Well: UIC Area Permit UT20776-00000*

*Well: Balcron Monument Federal 21-10Y-9-17 EPA Well ID: UT20776-08406*

Well: Balcron Mon. Federal 12-10Y-9-17 API: 43-013-31536 SWNW Sec. 10-T9S-R17E

Well: Balcron Federal 22-10Y-9-17 API: 43-013-31395 SENW Sec. 10-T9S-R17E

Well: Blackjack Federal 2-10-9-17 API: 43-013-32508 NWNE Sec. 10-T9S-R17E

**Corrective Action Not Required on AOR wells:**

Well: Balcron Federal 24-3Y-9-17 API: 43-013-31397 SESW Sec. 3-T9S-R17E  
CBL shows cement through the Confining Zone, from 3,410 – 3,610 ft.

Well: Blackjack Federal G-10-9-17 API: 43-013-33919 NENE Sec. 10-T9S-R17E  
CBL shows cement through the Confining Zone, from 3,440 – 3,648 ft.

Well: Balcron Mon. Federal 12-10Y-9-17 API: 43-013-31536 SWNW Sec. 10-T9S-R17E  
CBL shows cement through the Confining Zone, from 3,360 – 3,560 ft.

Well: Balcron Federal 22-10Y-9-17 API: 43-013-31395 SENW Sec. 10-T9S-R17E  
CBL does not cover the Confining Zone but demonstrates the top of cement to be above the Confining Zone.

Well: Blackjack Federal 2-10-9-17 API: 43-013-32508 NWNE Sec. 10-T9S-R17E  
CBL shows cement through the Confining Zone, from 3,350 – 3,570 ft.

**Reporting of Noncompliance:**

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

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

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

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

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

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

# Balcron Monument Federal 21-10Y-9-17

Spud Date: 11/21/1995

Put on Production:  
12/22/1995  
GL: 5097' KB: 5109'

Initial Production: 10 BOPD, 0  
MCPPD, 0 BWPD

## Proposed Injection Wellbore Diagram

### SURFACE CASING

CSG SIZE: 8-5/8"  
GRADE: J-55  
WEIGHT: 24#  
LENGTH: 5 jts.  
DEPTH LANDED: 259.85'  
HOLE SIZE: 12-1/4"  
CEMENT DATA: 160 sx Class G, est 6 bbls cmt to surface

### PRODUCTION CASING

CSG SIZE: 5-1/2"  
GRADE: J-55  
WEIGHT: 15.5#  
LENGTH: 128 jts. (5526.52')  
DEPTH LANDED: 5579.74'  
HOLE SIZE: 7-7/8"  
CEMENT DATA: 240 sx Super G & 280 sx 50/50 Poz  
CEMENT TOP AT: 1880'

### TUBING

SIZE/GRADE/WT.: 2-7/8" / 6.5# / J-55  
NO. OF JOINTS: 172 jts.  
TUBING ANCHOR: 5349.62' KB  
NO. OF JOINTS: 1 jts.  
SEATING NIPPLE: 2-7/8" (1.10")  
SN LANDED AT: 5383.79' KB  
NO. OF JOINTS: 2 jts.  
TOTAL STRING LENGTH: EOT @ 5448.19' KB

CBL shows less than 80% cement bond through ACZ. Therefore, a RTS is required to demonstrate no movement of fluids behind casing

Base USDW at surface per Pub 92

Cement Top @ 1880'

ACZ  
3340'-3540'

### FRAC JOB

12-7-95 4850'-4875' Frac sand as follows:  
27,594 gals 2% KCL gelled water and 102,070# 16/30 sand. Perfs broke @ 2640 psi. Treated w/avg press of 2400 psi w/avg rate of 31.4 BPM. ISIP-2320 psi, 5 min 2010 psi.

4/01/02 Pump change:  
Update rod and tubing details.

11/06/02 5369'-5448' Frac new CP1/CP2 sands as follows:  
110,500# 20/40 sand in 852 bbls Viking I-25 fluid. Treated @ avg pressure of 3297 psi with avg rate of 19.9 BPM. ISIP-1370 psi. Calc. Flush: 1409 Actual Flush: 1302

Green River Top @ 1286'

Trona 2712'-2750'  
Mahogany Bench 2756'-2776'

Garden Gulch top 3540'

Douglas Creek @ 4519'

### PERFORATION RECORD

Date	Interval	Perforations	Holes
12-6-95	4850'-4868'	4 JSPF	72 holes
12-6-95	4871'-4875'	4 JSPF	16 holes
11-5-02	5369'-5387'	4 JSPF	72 holes
11-5-02	5400'-5404'	4 JSPF	16 holes
11-5-02	5412'-5423'	4 JSPF	44 holes
11-5-02	5427'-5430'	4 JSPF	12 holes
11-5-02	5434'-5436'	4 JSPF	8 holes
11-5-02	5441'-5448'	4 JSPF	28 holes

Packer @ 4815'  
4850'-4868'  
4871'-4875'

Castle Peak 5321'

5369'-5387'

5400'-5404'

5412'-5423'

5427'-5430'

5434'-5436'

5441'-5448'

PBTD @ 5530'

SHOE @ 5580'

TD @ 5600'

Wasatch estimated at 5841'

NEWFIELD

Balcron Monument Federal 21-10Y-9-17  
807' FNL & 2120' FWL  
NE/NW Section 10-T9S-R17E  
Duchesne Co, Utah  
API #43-013-31537; Lease #UTU-65210

# Balcron Monument Federal 21-10Y-9-17

Spud Date: 11/21/1995  
 Put on Production:  
 12/22/1995  
 GL: 5097' KB: 5109'

Initial Production: 10 BOPD, 0  
 MCFPD, 0 BWPD

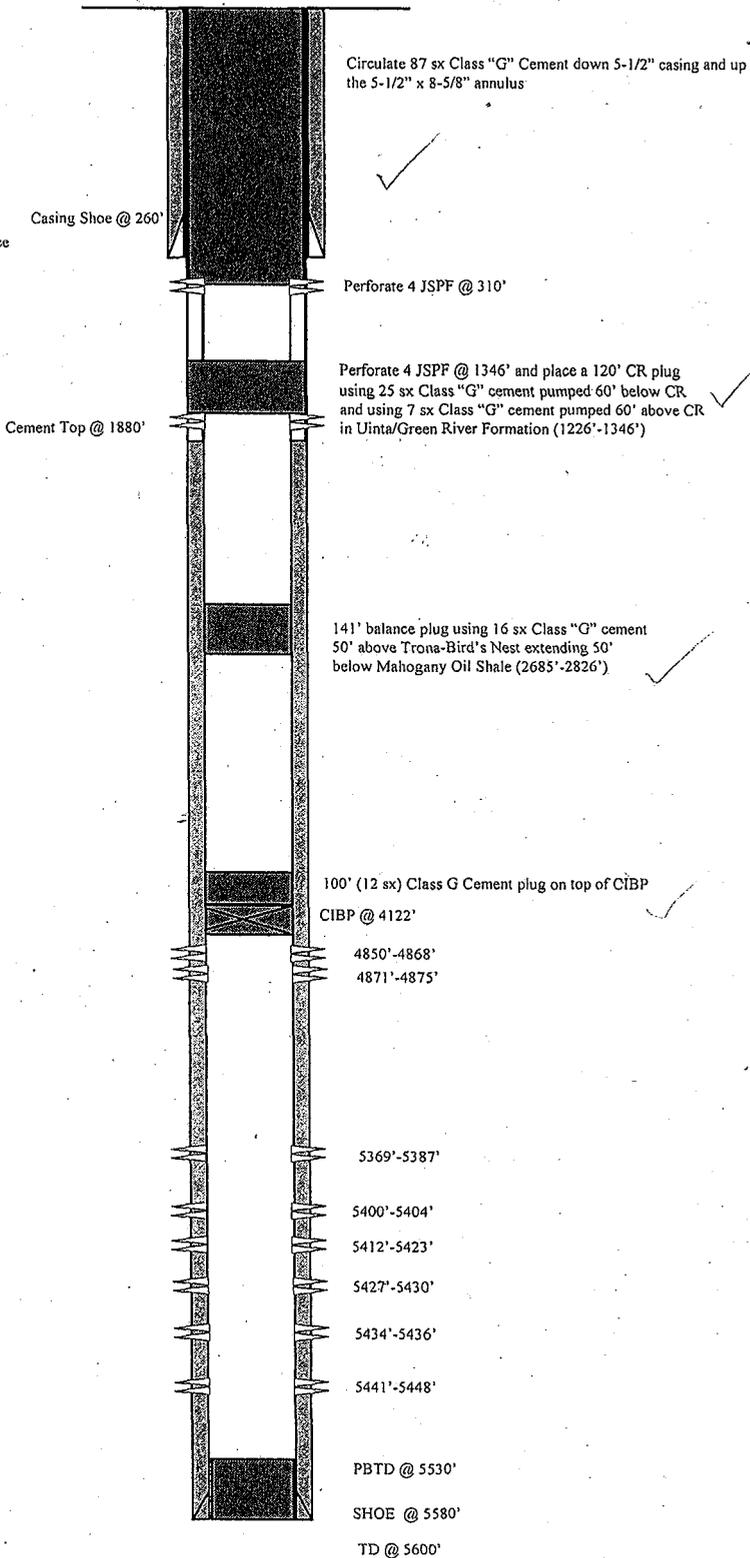
Proposed P & A  
 Wellbore Diagram

**SURFACE CASING**

CSG SIZE: 8-5/8"  
 GRADE: J-55  
 WEIGHT: 24#  
 LENGTH: 5 jts.  
 DEPTH LANDED: 259.85'  
 HOLE SIZE: 12-1/4"  
 CEMENT DATA: 160' sx Class G, est 6 bbls cmt to surface

**PRODUCTION CASING**

CSG SIZE: 5-1/2"  
 GRADE: J-55  
 WEIGHT: 15.5#  
 LENGTH: 128 jts. (5526.52')  
 DEPTH LANDED: 5579.74'  
 HOLE SIZE: 7-7/8"  
 CEMENT DATA: 240' sx Super G & 280' sx 50/50 Poz  
 CEMENT TOP AT: 1880'



Balcron Monument Federal 21-10Y-9-17  
 807' FNL & 2120' FWL  
 NE/NW Section 10-T9S-R17E  
 Duchesne Co, Utah  
 API #43-013-31537; Lease #UTU-65210



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
REGION 8

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

**AUG 06 2010**

Ref: 8P-W-GW

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

43 013 31537  
93 17E 10

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

RE: Underground Injection Control (UIC)  
One Year Extension of UIC Permits

Dear Mr. Sundberg:

The Environmental Protection Agency Region 8 (EPA) has received Newfield Production Company's (Newfield) August, 3, 2010, letter requesting a one year extension of five UIC Permits. EPA hereby grants an extension of one year from the date of expiration, to construct or convert wells under the following UIC Permits and Add Well Authorizations:

UIC Permit Number	Well Name	New Date of Expiration
UT20642-08443	Federal 23-5J-9-17	8/11/2011
UT20798-08393	Federal 14-8-9-17	8/12/2011
UT20776-08406	→ Federal 21-10Y-9-17	8/13/2011
UT20853-08411	Federal 13-15H-9-17	8/13/2011
UT20771-08467	Pleasant Valley 7-9-9-17	8/24/2011

If you have questions regarding the above action, please call Jason Deardorff at 303-312-6583 or 1-800-227-8917, ext. 312-6583.

Sincerely,

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

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

Daniel Picard  
BIA - Uintah & Ouray Indian Agency

Mike Natchees  
Environmental Coordinator  
Ute Indian Tribe

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

Brad Hill  
Acting Associate Director  
Utah Division of Oil, Gas, and Mining  
Fluid Minerals Engineering Office  
BLM - Vernal Office

Michael Guinn  
District Manager  
Newfield Production Company  
Myton, Utah

<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-65210
		<b>6. IF INDIAN, ALLOTTEE OR TRIBE NAME:</b>
<b>1. TYPE OF WELL</b> Oil Well		<b>7. UNIT or CA AGREEMENT NAME:</b> GMBU (GRRV)
<b>2. NAME OF OPERATOR:</b> NEWFIELD PRODUCTION COMPANY		<b>8. WELL NAME and NUMBER:</b> BALCRON MON FED 21-10-9-17Y
<b>3. ADDRESS OF OPERATOR:</b> Rt 3 Box 3630 , Myton, UT, 84052		<b>9. API NUMBER:</b> 43013315370000
<b>PHONE NUMBER:</b> 435 646-4825 Ext		<b>9. FIELD and POOL or WILDCAT:</b> MONUMENT BUTTE
<b>4. LOCATION OF WELL</b> <b>FOOTAGES AT SURFACE:</b> 0807 FNL 2120 FWL <b>QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:</b> Qtr/Qtr: NENW Section: 10 Township: 09.0S Range: 17.0E Meridian: S		<b>COUNTY:</b> DUCHESNE
		<b>STATE:</b> UTAH

11.

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

TYPE OF SUBMISSION	TYPE OF ACTION		
<input type="checkbox"/> NOTICE OF INTENT Approximate date work will start:	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> CASING REPAIR
<input checked="" type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion: 5/24/2012	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> CHANGE WELL NAME
<input type="checkbox"/> SPUD REPORT Date of Spud:	<input checked="" type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input checked="" type="checkbox"/> CONVERT WELL TYPE
<input type="checkbox"/> DRILLING REPORT Report Date:	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> NEW CONSTRUCTION
	<input type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> PLUG BACK
	<input type="checkbox"/> PRODUCTION START OR RESUME	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION
	<input type="checkbox"/> REPERFORATE CURRENT FORMATION	<input type="checkbox"/> SIDETRACK TO REPAIR WELL	<input type="checkbox"/> TEMPORARY ABANDON
	<input type="checkbox"/> TUBING REPAIR	<input type="checkbox"/> VENT OR FLARE	<input type="checkbox"/> WATER DISPOSAL
	<input type="checkbox"/> WATER SHUTOFF	<input type="checkbox"/> SI TA STATUS EXTENSION	<input type="checkbox"/> APD EXTENSION
	<input type="checkbox"/> WILDCAT WELL DETERMINATION	<input type="checkbox"/> OTHER	OTHER: <input type="text"/>

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

The subject well has been converted from a producing oil well to an injection well on 05/17/2012. New interval added: GB4 4021-4024' 3JSPF. On 05/21/2012 Jason Deardorff with the EPA was contacted concerning the initial MIT on the above listed well. On 05/24/2012 the casing was pressured up to 1790 psig and charted for 30 minutes with no pressure loss. The well was not injecting during the test. The tubing pressure was 450 psig during the test. There was not an EPA representative available to witness the test. EPA# UT20776-08406

**Accepted by the  
Utah Division of  
Oil, Gas and Mining  
FOR RECORD ONLY  
June 04, 2012**

<b>NAME (PLEASE PRINT)</b> Lucy Chavez-Naupoto	<b>PHONE NUMBER</b> 435 646-4874	<b>TITLE</b> Water Services Technician
<b>SIGNATURE</b> N/A	<b>DATE</b> 5/30/2012	

## 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: 05/24/12  
 Test conducted by: Chris Walters  
 Others present: Cody Marx

Well Name: <u>Monument Federal 21-107-9-17</u>	Type: ER SWD	Status: AC TA UC
Field: <u>Monument Butte</u>		
Location: <u>NE/NW</u> Sec: <u>10</u> T <u>9</u> N <u>(S)</u> R <u>17</u> <u>(W)</u> County: <u>Duchesne</u> State: <u>UT</u>		
Operator: <u>Chris Walters</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: 1790 psig

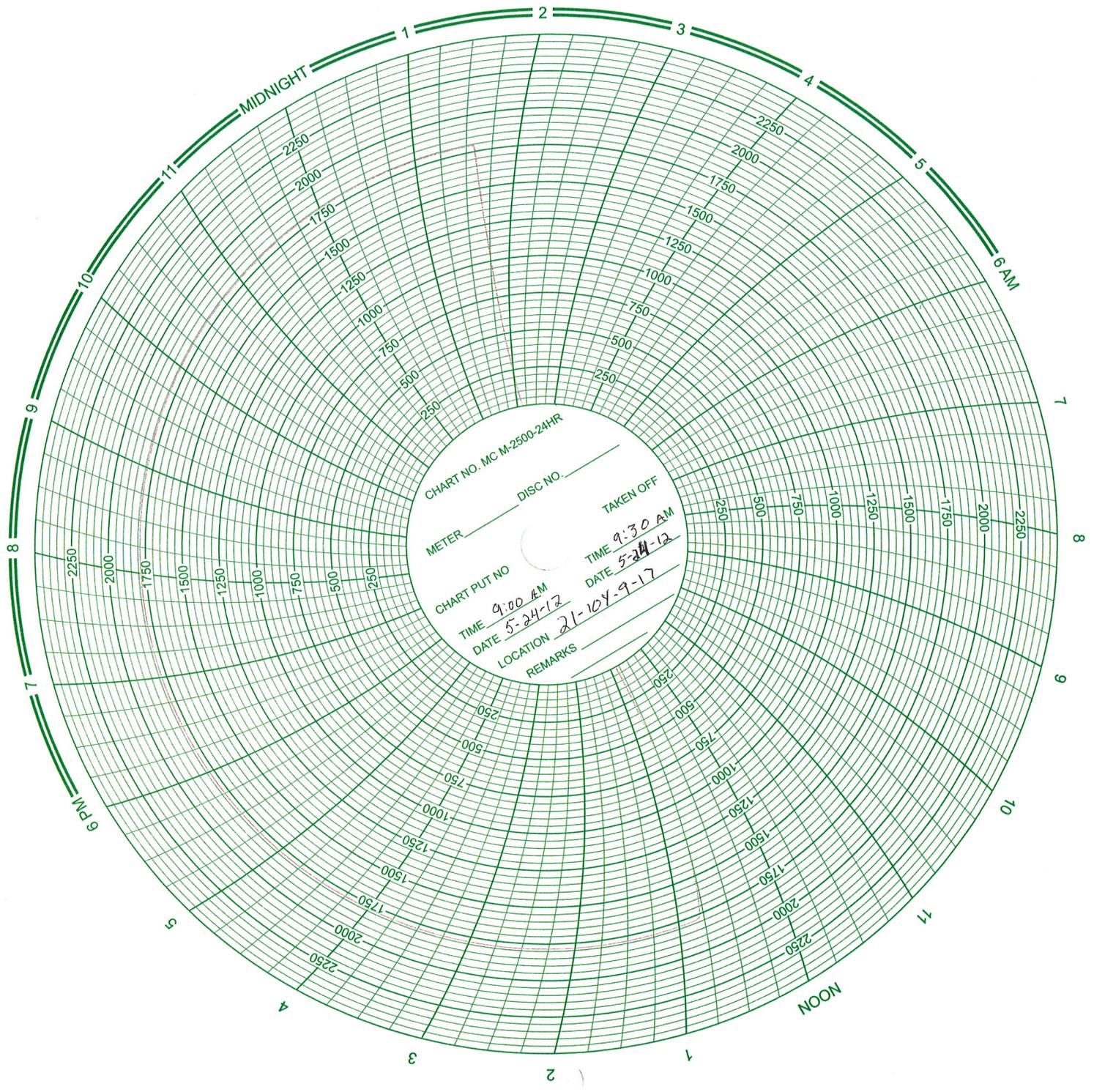
MIT DATA TABLE	Test #1	Test #2	Test #3
<b>TUBING PRESSURE</b>			
Initial Pressure	450 psig	psig	psig
End of test pressure	450 psig	psig	psig
<b>CASING / TUBING ANNULUS PRESSURE</b>			
0 minutes	1790 psig	psig	psig
5 minutes	1790 psig	psig	psig
10 minutes	1790 psig	psig	psig
15 minutes	1790 psig	psig	psig
20 minutes	1790 psig	psig	psig
25 minutes	1790 psig	psig	psig
30 minutes	1790 psig	psig	psig
_____ minutes	psig	psig	psig
_____ minutes	psig	psig	psig
<b>RESULT</b>	<input checked="" type="checkbox"/> Pass <input type="checkbox"/> Fail	<input type="checkbox"/> Pass <input type="checkbox"/> Fail	<input type="checkbox"/> Pass <input type="checkbox"/> Fail

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

### MECHANICAL INTEGRITY PRESSURE TEST

Additional comments for mechanical integrity pressure test, such as volume of fluid added to annulus and bled back at end of test, reason for failing test (casing head leak, tubing leak, other), etc.:

Signature of Witness: \_\_\_\_\_



## Daily Activity Report

Format For Sundry

**BLCRN MON 21-10Y-9-17**

**3/1/2012 To 7/30/2012**

**5/14/2012 Day: 1**

**Conversion**

Stone #3 on 5/14/2012 - MIRUSU, Pooh w/ rods N/U BOP Pooh W/ 40 jts. Break & dope OOH - Road rig f/ prev. well - Change over to tbg. Equip. N/U Weatherford 5k BOP flush dwn csg. w/ 20 bbls htd. Wtr. Pooh w/ 40jts. 2 7/8 tbg. Breaking & dope collars SWIFN - MIRUSU, unseat rod pump R/U H/O flush rods w/ 55 bbls htd. Wtr. Reseat fill tbg. w/ 21 bbls test to 3000# (good) - Pooh & L/D 1 1/4" x 22' P/R-1-4', 1-8'x3/4" pony subs, 89-3/4" 4 per-106-3/4" slk, 10-3/4" 4per, 6-1 1/2" wt. bars& RHAC rod pump

**Daily Cost:** \$0

**Cumulative Cost:** \$7,908

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**5/15/2012 Day: 2**

**Conversion**

Stone #3 on 5/15/2012 - Cont. Ooh w/ tbg. L/D BHA, perf f/ 4021-24', P/U RIH Pkr & Rbp - Hold tail gate meeting, review JSA's - Cont. OOH w/ 88 jts. Breaking & doping collars & standing back in derrick - L/D 44 jts. & BHA - R/U Extreme W/L truck RIH perf f/ 4021-24' POOH & R/D W/L - P/U RIH w/ 5 1/2 "TS" Rbp & "HD" Pkr Set Rbp @ 4056' set pkr test to tools to 4000# (good) Rls Pkr POOH to 3956' set Pkr fill csg. Test to 1000# (good) SWIFN

**Daily Cost:** \$0

**Cumulative Cost:** \$16,795

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**5/16/2012 Day: 4**

**Conversion**

Stone #3 on 5/16/2012 - Frac perf 4021-24' POOH w/ tools & tbg. P/U RIH w/ prod. Tbg. - Rls. Pkr circ. Clean w/ 30 bbls RIH w/ 3 jts. Tag fill @ 4040' circ. Dwn. To Rbp @ 4056' clean btms up rls Rbp - R/U flowback open well #20 choke flow for 20 min. recovered 60 bbls open wide open for 13 min. & recover add. 19.5 bbls for ttl of 79.5 - Frac perfs 4021-24' w/ 8431# 20/40 White & 17 Lightning while hold 500-700# on ann. & Pkr set @ 3956' - Frac perfs 4021-24' w/ 8431# 20/40 White & 17 Lightning while hold 500-700# on ann. & Pkr set @ 3956' - R/U Baker hughes hold pre job safety meeting pres. Test iron to 8200# (good) - R/U Baker hughes hold pre job safety meeting pres. Test iron to 8200# (good) - 0# SIP, Open well R/U hot oiler Ppres. Test iron to 4500# (good) Break perfs: 4021-24' @ 3200# & 1/2 bpm @ 1900# w/ ISIP @ 1450# wait on frac crew, est. crew got hung up on Q-22-8-17 SWIFN - 0# SIP, Open well R/U hot oiler Ppres. Test iron to 4500# (good) Break perfs: 4021-24' @ 3200# & 1/2 bpm @ 1900# w/ ISIP @ 1450# wait on frac crew, est. crew got hung up on Q-22-8-17 SWIFN - Tail gate meeting, review JSA's - Tail gate meeting, review JSA's - Rls. Pkr circ. Clean w/ 30 bbls RIH w/ 3 jts. Tag fill @ 4040' circ. Dwn. To Rbp @ 4056' clean btms up rls Rbp - Wait on trailer to L/D tbg. - Wait on trailer to L/D tbg. - Pooh w/ 128 jts. 2 7/8 tbg. & L/D tool assy. - Pooh w/ 128 jts. 2 7/8 tbg. & L/D tool assy. - P/U RIH w/ w/l entry guide, 2 3/8 PSN, 5 1/2 6k AS1X w/ on/off tool (seal nipple 2.31 x profile) followed by 128 jts. 2 7/8 tbg. Checking breaks going in the hole - P/U RIH w/ w/l entry guide, 2 3/8 PSN, 5 1/2 6k AS1X w/ on/off tool (seal nipple 2.31 x profile) followed by 128 jts. 2 7/8 tbg. Checking breaks going in the hole - Drop S/V fill tbg. w/ 19 bbls P/T to 3460# dropped to 2880# in 1 hr. bump back up to 3520# Leave SIFN will check pres. In AM - Drop S/V fill tbg. w/ 19 bbls P/T to 3460# dropped to 2880# in 1 hr. bump back up to 3520# Leave SIFN will check pres. In AM - R/U flowback open well #20 choke flow for 20 min. recovered 60 bbls open wide open for 13 min. & recover add. 19.5 bbls for ttl of 79.5

**Daily Cost:** \$0

**Cumulative Cost:** \$60,315

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**5/17/2012 Day: 5**

**Conversion**

Stone #3 on 5/17/2012 - test tbg.pump Pkr fluid set Pkr test ann. (good) RDPUMOL - SITP 2860#, R/U H/O pres. Up on tbg. To 3060# test for 45 min. (good) - R/U sand line RIH ret. S/V N/D Weatherford 5k BOP - Pump 75 bbls Pkr fluid dwn csg. - Set Pkr w/ 15k tension using 13" stretch N/U injection wellhead - Top off backside pres. Test ann. To 1700# hold for 1 hr. (good) RDSUMOL - Hold pre job safety meeting, review JSA's

**Daily Cost:** \$0

**Cumulative Cost:** \$82,228

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**5/29/2012 Day: 6**

**Conversion**

Rigless on 5/29/2012 - Conduct initial MIT - On 05/21/2012 Jason Deardorff with the EPA was contacted concerning the initial MIT on the above listed well. On 05/24/2012 the casing was pressured up to 1790 psig and charted for 30 minutes with no pressure loss. The well was not injecting during the test. The tubing pressure was 450 psig during the test. There was not an EPA representative available to witness the test. EPA# UT20776-08406 **Finalized**

**Daily Cost:** \$0

**Cumulative Cost:** \$159,548

---

**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>

JUL 03 2012



Ref: 8P-W-UIC

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

Mr. Reed Durfey  
District Manager  
Newfield Production Company  
Route 3 – Box 3630  
Myton, Utah 84052

**RECEIVED**

**JUL 11 2012**

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

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

RE: Underground Injection Control (UIC)  
Limited Authorization to Inject  
EPA UIC Permit UT20776-08406  
Well: Balcron Monument Federal 21-10Y-9-17  
NENW Sec. <sup>10</sup> T9S-R17E  
Duchesne County, Utah  
API No.: 43-013-31537

Dear Mr. Durfey:

The U.S. Environmental Protection Agency Region 8 has received Newfield Production Company's (Newfield) May 30, 2012, letter with enclosures. The enclosed Part I (internal) Mechanical Integrity test, Well Rework Record (EPA Form 7520-12), schematic diagram and calculated pore pressure were reviewed and approved by the EPA, satisfactorily completing all Prior to Commencing Injection Requirements for UIC Permit UT20776-08406.

As of the date of this letter, Newfield is authorized to commence injection into the Balcron Monument Federal 21-10Y-9-17 well at a Maximum Allowable Injection Pressure (MAIP) of 1,005 psig for a limited period of 180 days during which time a Radioactive Tracer Survey (RTS) is required according to UIC Permit UT20776-08406. If Newfield seeks a higher MAIP than 1,005 psig, it may be advantageous to run a step rate test prior to conducting the RTS because a RTS conducted at the higher MAIP will be required. Newfield must receive prior authorization from the Director to inject at pressures greater than the permitted MAIP during any test.

Please remember that it is Newfield's responsibility to be aware of, and to comply with, all conditions of Permit UT20776-08406.

If you have questions regarding the above action, please call Emmett Schmitz at (303) 312-6174 or (800) 227-8917, extension 312-6174. The RTS log with interpretation should be mailed to Jason Deardorff at the letterhead address, citing mail code 8P-W-UIC.

Sincerely,



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

cc: Uintah & Ouray Business Committee:

Irene Cuch, Chairman  
Richard Jenks Jr., Councilman  
Frances Poowegup, Councilwoman  
Ronald Wopsock, Vice-Chairman  
Phillip Chimburas, Councilman  
Stewart Pike, Councilman

Daniel Picard  
BIA - Uintah & Ouray Indian Agency

Mike Natchees  
Environmental Coordinator  
Ute Indian Tribe

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

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

Fluid Minerals Engineering Office  
BLM - Vernal Office

Eric Sundberg, Regulatory Analyst  
Newfield Production Company

RECEIVED  
MAY 10 2010  
10:00 AM  
MAY 10 2010

<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> U-65210
		<b>6. IF INDIAN, ALLOTTEE OR TRIBE NAME:</b>
<b>1. TYPE OF WELL</b> Water Injection Well		<b>7. UNIT or CA AGREEMENT NAME:</b> GMBU (GRRV)
<b>2. NAME OF OPERATOR:</b> NEWFIELD PRODUCTION COMPANY		<b>8. WELL NAME and NUMBER:</b> BALCRON MON FED 21-10-9-17Y
<b>3. ADDRESS OF OPERATOR:</b> Rt 3 Box 3630 , Myton, UT, 84052		<b>9. API NUMBER:</b> 43013315370000
<b>PHONE NUMBER:</b> 435 646-4825 Ext		<b>9. FIELD and POOL or WILDCAT:</b> MONUMENT BUTTE
<b>4. LOCATION OF WELL</b> <b>FOOTAGES AT SURFACE:</b> 0807 FNL 2120 FWL <b>QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:</b> Qtr/Qtr: NENW Section: 10 Township: 09.0S Range: 17.0E Meridian: S		<b>COUNTY:</b> DUCHESNE
		<b>STATE:</b> UTAH

11.

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

TYPE OF SUBMISSION	TYPE OF ACTION		
<input type="checkbox"/> NOTICE OF INTENT Approximate date work will start:	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> CASING REPAIR
<input checked="" type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion: 7/12/2012	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> CHANGE WELL NAME
<input type="checkbox"/> SPUD REPORT Date of Spud:	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input checked="" type="checkbox"/> CONVERT WELL TYPE
<input type="checkbox"/> DRILLING REPORT Report Date:	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> NEW CONSTRUCTION
	<input type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> PLUG BACK
	<input type="checkbox"/> PRODUCTION START OR RESUME	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION
	<input type="checkbox"/> REPERFORATE CURRENT FORMATION	<input type="checkbox"/> SIDETRACK TO REPAIR WELL	<input type="checkbox"/> TEMPORARY ABANDON
	<input type="checkbox"/> TUBING REPAIR	<input type="checkbox"/> VENT OR FLARE	<input type="checkbox"/> WATER DISPOSAL
	<input type="checkbox"/> WATER SHUTOFF	<input type="checkbox"/> SI TA STATUS EXTENSION	<input type="checkbox"/> APD EXTENSION
	<input type="checkbox"/> WILDCAT WELL DETERMINATION	<input checked="" type="checkbox"/> OTHER	OTHER: <input type="text" value="Put on Injection"/>

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

The above reference well was put on injection at 6:00 PM on  
07/12/2012. EPA # UT20776-08406

**Accepted by the  
Utah Division of  
Oil, Gas and Mining  
FOR RECORD ONLY  
July 30, 2012**

<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> 7/16/2012	

<b>STATE OF UTAH</b> DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		<b>FORM 9</b>
		<b>5. LEASE DESIGNATION AND SERIAL NUMBER:</b> U-65210
<b>SUNDRY NOTICES AND REPORTS ON WELLS</b>		<b>6. IF INDIAN, ALLOTTEE OR TRIBE NAME:</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>7. UNIT or CA AGREEMENT NAME:</b> GMBU (GRRV)
<b>1. TYPE OF WELL</b> Water Injection Well		<b>8. WELL NAME and NUMBER:</b> BALCRON MON FED 21-10-9-17Y
<b>2. NAME OF OPERATOR:</b> NEWFIELD PRODUCTION COMPANY		<b>9. API NUMBER:</b> 43013315370000
<b>3. ADDRESS OF OPERATOR:</b> Rt 3 Box 3630 , Myton, UT, 84052	<b>PHONE NUMBER:</b> 435 646-4825 Ext	<b>9. FIELD and POOL or WILDCAT:</b> MONUMENT BUTTE
<b>4. LOCATION OF WELL</b> <b>FOOTAGES AT SURFACE:</b> 0807 FNL 2120 FWL <b>QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:</b> Qtr/Qtr: NENW Section: 10 Township: 09.0S Range: 17.0E Meridian: S		<b>COUNTY:</b> DUCHESNE
		<b>STATE:</b> UTAH

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

TYPE OF SUBMISSION	TYPE OF ACTION		
<input type="checkbox"/> NOTICE OF INTENT Approximate date work will start:	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> CASING REPAIR
<input checked="" type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion: 10/18/2012	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> CHANGE WELL NAME
<input type="checkbox"/> SPUD REPORT Date of Spud:	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> CONVERT WELL TYPE
<input type="checkbox"/> DRILLING REPORT Report Date:	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> NEW CONSTRUCTION
	<input type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> PLUG BACK
	<input type="checkbox"/> PRODUCTION START OR RESUME	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION
	<input type="checkbox"/> REPERFORATE CURRENT FORMATION	<input type="checkbox"/> SIDETRACK TO REPAIR WELL	<input type="checkbox"/> TEMPORARY ABANDON
	<input type="checkbox"/> TUBING REPAIR	<input type="checkbox"/> VENT OR FLARE	<input type="checkbox"/> WATER DISPOSAL
	<input type="checkbox"/> WATER SHUTOFF	<input type="checkbox"/> SI TA STATUS EXTENSION	<input type="checkbox"/> APD EXTENSION
	<input type="checkbox"/> WILDCAT WELL DETERMINATION	<input checked="" type="checkbox"/> OTHER	OTHER: <input type="text" value="Step Rate Test"/>

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 18, 2012. Results from the test indicate that the fracture gradient is 0.747 psi/ft. Therefore, Newfield is requesting that the maximum allowable injection pressure (MAIP) be changed from 1005 psi to 1235 psi. EPA:  
UT20776-08406

**Accepted by the  
Utah Division of  
Oil, Gas and Mining  
FOR RECORD ONLY  
November 01, 2012**

<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> 10/31/2012	

## Step Rate Test (SRT) Analysis

Date: 10/18/2012

Operator: Newfield Production Company  
 Well: Balcron Monument Federal 21-10Y-9-17  
 Permit #: UT20776-08406

**Enter the following data :**

Specific Gravity (sg) of injectate = 1.015 g/cc  
 Depth to top perforation (D) = 4021 feet 4021  
 Top of permitted injection zone depth (blank=use top perforation to calculate fg) = \_\_\_\_\_ feet  
 Estimated Formation Parting Pressure (P<sub>fp</sub>) from SRT chart = 1235 psi  
 Instantaneous Shut In Pressure (ISIP) from SRT = 1249 psi 1235  
 Bottom Hole Parting Pressure (P<sub>bhp</sub>) from downhole pressure recorder = \_\_\_\_\_ psi no downhole

### Part One - Calculation of Fracture Gradient (fg)

**Calculated Fracture Gradient = 0.747 psi/ft.**

where: fg = P<sub>bhp</sub> / D (Note: this formula uses the downhole recorded bottom hole parting pressure if available) = 1249

D = depth used = 4021

P<sub>bhp</sub> used = 3002

**Calculated Bottom Hole Parting Pressure (P<sub>bhp</sub>) = 3002 psi** 3002.209

to calculate Bottom Hole Parting Pressure (P<sub>bhp</sub>) = Formation Fracture Pressure (ISIP or P<sub>fp</sub>) + (0.433 \* SG \* D)

( Uses lesser of ISIP or P<sub>fp</sub>) Value used = 1235

### Part Two - Calculation of Maximum Allowable Injection Pressure (MAIP)

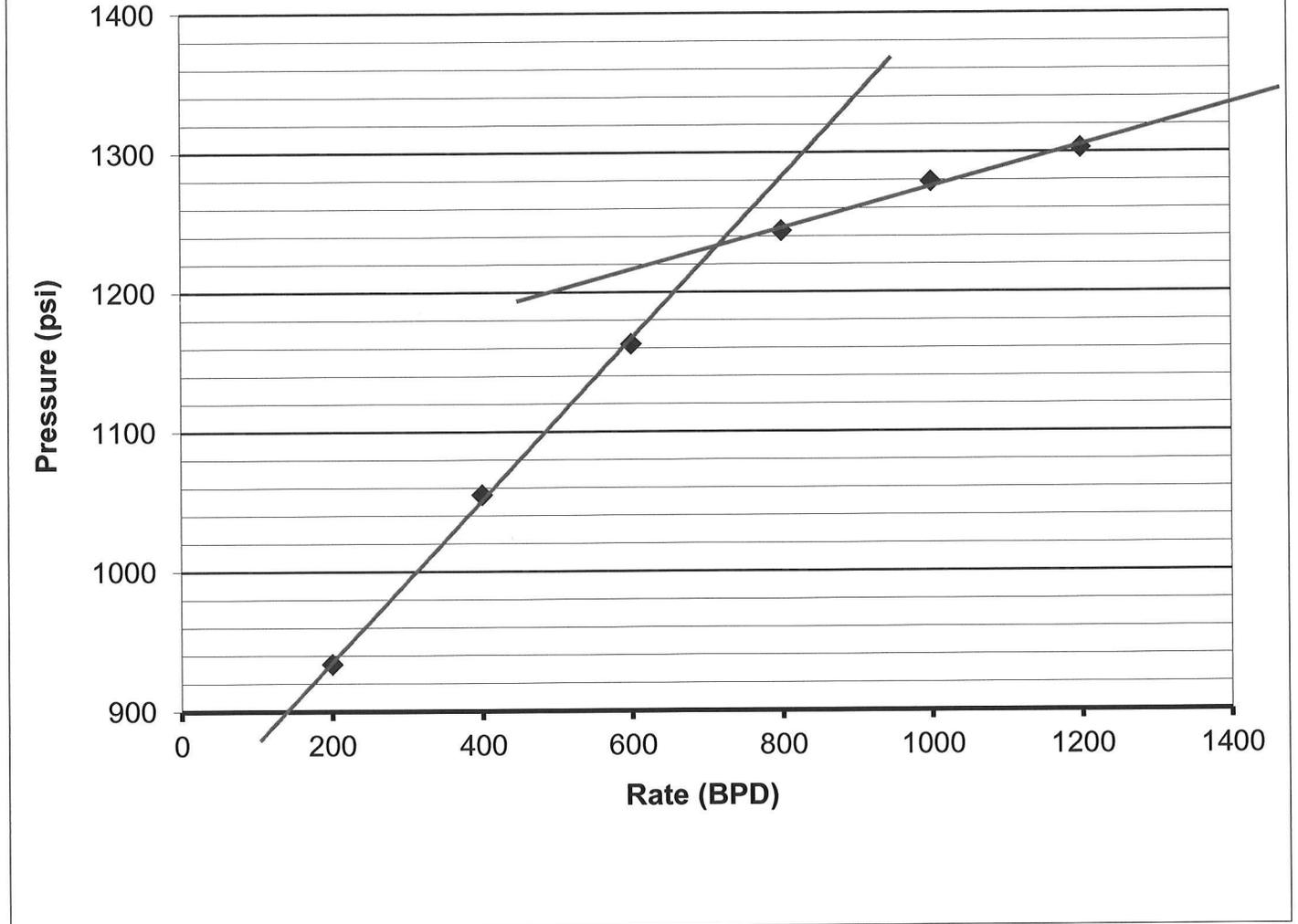
**Maximum Allowable Injection Pressure (MAIP) = 1235 psig**

D = depth used = 4021

MAIP = [(fg \* (0.433 \* SG)) \* D] = 1236.478

(rounded down to nearest 5 psig)

**Balcron Monument Federal 21-10Y-9-17  
Greater Monument Butte Unit  
Step Rate Test  
October 18, 2012**



**Start Pressure:** 848 psi  
**Instantaneous Shut In Pressure (ISIP):** 1249 psi  
**Top Perforation:** 4021 feet  
**Fracture pressure (Pfp):** 1235 psi  
**FG:** 0.747 psi/ft

<b>Step</b>	<b>Rate(bpd)</b>	<b>Pressure(psi)</b>
1	200	934
2	400	1055
3	600	1163
4	800	1244
5	1000	1279
6	1200	1303

## Balcron Monument Federal 21-10Y-9-17 Rate Sheet (10-18-12)

<i>Step # 1</i>	Time:	7:35	7:40	7:45	7:50	7:55	8:00
	Rate:	200.5	200.5	200.5	200.4	200.4	200.3
	Time:	8:05	8:10	8:15	8:20	8:25	8:30
	Rate:	200.3	200.3	200.3	200.3	200.3	200.2
<i>Step # 2</i>	Time:	8:35	8:40	8:45	8:50	8:55	9:00
	Rate:	400.5	400.5	400.4	400.4	400.4	400.4
	Time:	9:05	9:10	9:15	9:20	9:25	9:30
	Rate:	400.3	400.3	400.3	400.2	400.2	400.2
<i>Step # 3</i>	Time:	9:35	9:40	9:45	9:50	9:55	10:00
	Rate:	600.7	600.7	600.7	600.6	600.5	600.5
	Time:	10:05	10:10	10:15	10:20	10:25	10:30
	Rate:	600.5	600.5	600.5	600.5	600.4	600.4
<i>Step # 4</i>	Time:	10:35	10:40	10:45	10:50	10:55	11:00
	Rate:	800.4	800.4	800.4	800.4	800.3	800.3
	Time:	11:05	11:10	11:15	11:20	11:25	11:30
	Rate:	800.2	800.2	800.1	800.1	800.1	800.1
<i>Step # 5</i>	Time:	11:35	11:40	11:45	11:50	11:55	12:00
	Rate:	1000.5	1000.5	100.4	1000.4	1000.4	1000.4
	Time:	12:05	12:10	12:15	12:20	12:25	12:30
	Rate:	1000.2	1000.2	1000.2	1000.2	1000.1	1000.1
<i>Step # 6</i>	Time:	12:35	12:40	12:45	12:50	12:55	1:00
	Rate:	1200.6	1200.6	1200.6	1200.6	1200.6	1200.5
	Time:	1:05	1:10	1:15	1:20	1:25	1:30
	Rate:	1200.5	1200.4	1200.4	1200.4	1200.3	1200.3
	Time:						
	Rate:						
	Time:						
	Rate:						
	Time:						
	Rate:						
	Time:						
	Rate:						

**Data Table Report**

Report Name: PrTemp1000 Data Table  
 Report Date: 10/18/2012 15:54:56  
 File Name: C:\Program Files\PTC® Instruments 2.03.12\Balcron  
 Monument Federal 21-10Y-9-17 SRT (10-18-2012).csv  
 Device: PrTemp1000 - Temperature and Pressure Recorder  
 Hardware Revision: REV2C (64K)  
 Serial Number: N87695  
 Device ID: PrTemp  
 Data Start Date: Oct 18, 2012 07:00:00 AM MDT  
 Data End Date: Oct 18, 2012 01:30:01 PM MDT  
 Reading: 1 to 79 of 79  
 Reading Rate: 30 Seconds  
 Last Calibration Date: Aug 28, 2012  
 Next Calibration Date: Aug 28, 2013  
 Next Calibration Date: Aug 28, 2013

**Balcron Monument Federal 21-10Y-9-17 SRT (10-18-2012)**

Unit Type	(All Units)	
Reading	DateTime (MDT)	Channel 2 PSIA
1	Oct 18, 2012 07:00:00 AM	852.2
2	Oct 18, 2012 07:05:00 AM	851
3	Oct 18, 2012 07:10:00 AM	850.2
4	Oct 18, 2012 07:15:00 AM	849.8
5	Oct 18, 2012 07:20:01 AM	849.4
6	Oct 18, 2012 07:25:00 AM	848.8
7	Oct 18, 2012 07:30:01 AM	848
8	Oct 18, 2012 07:35:00 AM	863.8
9	Oct 18, 2012 07:40:01 AM	873.2
10	Oct 18, 2012 07:45:00 AM	883.4
11	Oct 18, 2012 07:50:00 AM	891.4
12	Oct 18, 2012 07:55:00 AM	897.6
13	Oct 18, 2012 08:00:00 AM	903.8
14	Oct 18, 2012 08:05:01 AM	910.2
15	Oct 18, 2012 08:10:00 AM	916.4
16	Oct 18, 2012 08:15:01 AM	921
17	Oct 18, 2012 08:20:00 AM	926.2
18	Oct 18, 2012 08:25:01 AM	930.6
19	Oct 18, 2012 08:30:00 AM	934
20	Oct 18, 2012 08:35:00 AM	958.2
21	Oct 18, 2012 08:40:00 AM	974
22	Oct 18, 2012 08:45:00 AM	985.4
23	Oct 18, 2012 08:50:01 AM	996.2
24	Oct 18, 2012 08:55:00 AM	1004
25	Oct 18, 2012 09:00:01 AM	1014.2
26	Oct 18, 2012 09:05:00 AM	1019.4
27	Oct 18, 2012 09:10:01 AM	1029.2
28	Oct 18, 2012 09:15:00 AM	1037.4
29	Oct 18, 2012 09:20:00 AM	1044.2
30	Oct 18, 2012 09:25:00 AM	1049.4
31	Oct 18, 2012 09:30:00 AM	1055.2
32	Oct 18, 2012 09:35:01 AM	1088.2
33	Oct 18, 2012 09:40:00 AM	1097.6
34	Oct 18, 2012 09:45:01 AM	1102
35	Oct 18, 2012 09:50:00 AM	1111
36	Oct 18, 2012 09:55:01 AM	1121.2
37	Oct 18, 2012 10:00:00 AM	1121.8
38	Oct 18, 2012 10:05:00 AM	1133

**Balcron Monument Federal 21-10Y-9-17 SRT (10-18-2012)**

Unit Type (All Units)

<b>Reading</b>	<b>DateTime (MDT)</b>	<b>Channel 2 PSIA</b>
39	Oct 18, 2012 10:10:00 AM	1137.2
40	Oct 18, 2012 10:15:00 AM	1144.4
41	Oct 18, 2012 10:20:01 AM	1149.8
42	Oct 18, 2012 10:25:00 AM	1156
43	Oct 18, 2012 10:30:01 AM	1163
44	Oct 18, 2012 10:35:00 AM	1186.8
45	Oct 18, 2012 10:40:01 AM	1194
46	Oct 18, 2012 10:45:00 AM	1201.8
47	Oct 18, 2012 10:50:00 AM	1211.4
48	Oct 18, 2012 10:55:00 AM	1211.8
49	Oct 18, 2012 11:00:00 AM	1219.8
50	Oct 18, 2012 11:05:01 AM	1227.4
51	Oct 18, 2012 11:10:00 AM	1229.4
52	Oct 18, 2012 11:15:01 AM	1230.8
53	Oct 18, 2012 11:20:00 AM	1236.6
54	Oct 18, 2012 11:25:01 AM	1244.4
55	Oct 18, 2012 11:30:00 AM	1244.4
56	Oct 18, 2012 11:35:00 AM	1254.6
57	Oct 18, 2012 11:40:00 AM	1257.4
58	Oct 18, 2012 11:45:00 AM	1253.4
59	Oct 18, 2012 11:50:01 AM	1254.8
60	Oct 18, 2012 11:55:00 AM	1265.4
61	Oct 18, 2012 12:00:01 PM	1263
62	Oct 18, 2012 12:05:00 PM	1267.2
63	Oct 18, 2012 12:10:01 PM	1265.4
64	Oct 18, 2012 12:15:00 PM	1273.2
65	Oct 18, 2012 12:20:00 PM	1272.4
66	Oct 18, 2012 12:25:00 PM	1272.4
67	Oct 18, 2012 12:30:00 PM	1279.2
68	Oct 18, 2012 12:35:01 PM	1284.8
69	Oct 18, 2012 12:40:00 PM	1281.2
70	Oct 18, 2012 12:45:01 PM	1288.6
71	Oct 18, 2012 12:50:00 PM	1292.6
72	Oct 18, 2012 12:55:01 PM	1288.6
73	Oct 18, 2012 01:00:00 PM	1296.4
74	Oct 18, 2012 01:05:00 PM	1292.2
75	Oct 18, 2012 01:10:00 PM	1299.8
76	Oct 18, 2012 01:15:00 PM	1295.6
77	Oct 18, 2012 01:20:01 PM	1294
78	Oct 18, 2012 01:25:00 PM	1301.2
79	Oct 18, 2012 01:30:01 PM	1302.8

End of Report

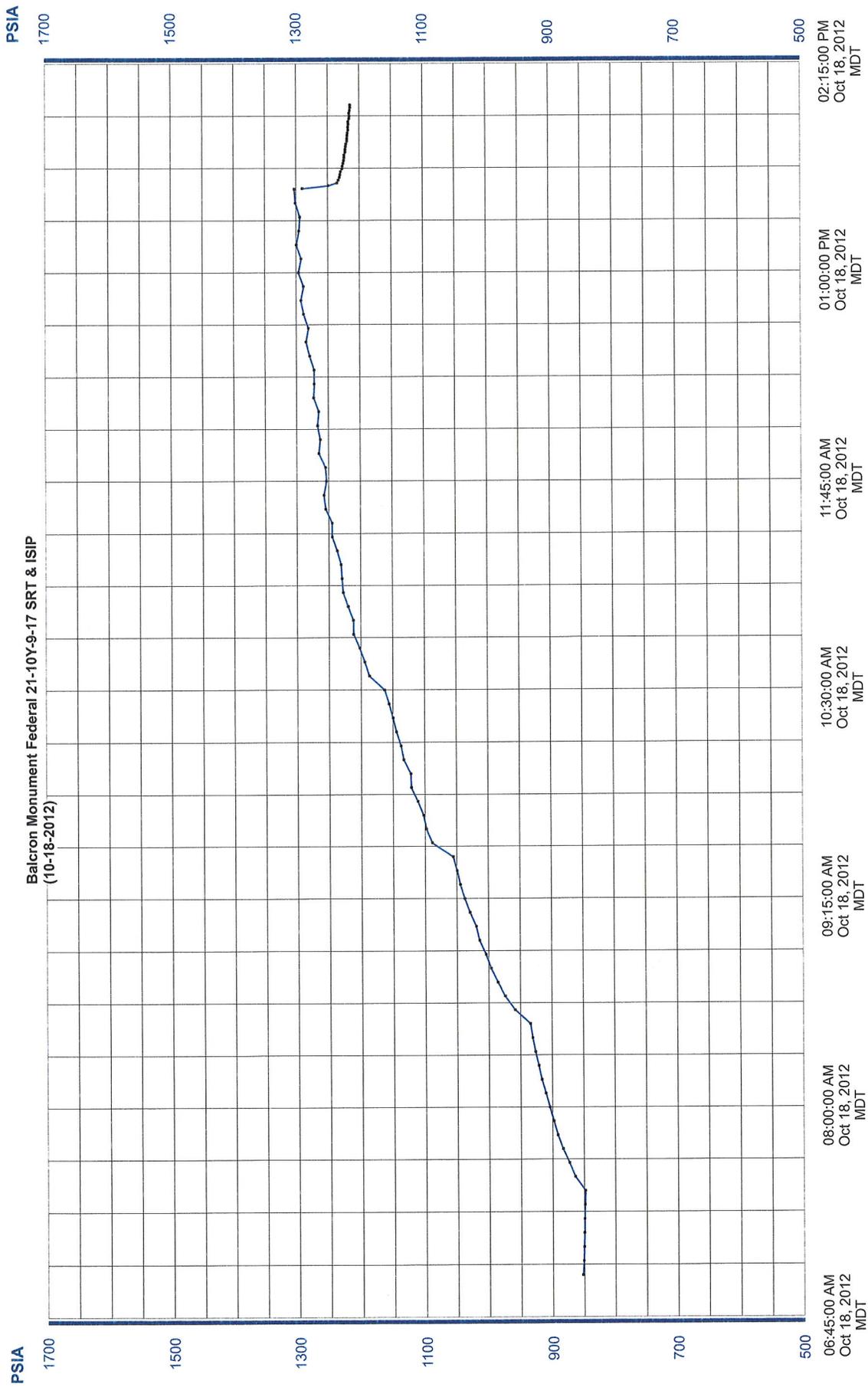
**Data Table Report**

Report Name: PrTemp1000 Data Table  
 Report Date: 10/18/2012 15:55:08  
 File Name: C:\Program Files\PTC® Instruments 2.03.12\Balcron  
 Monument Federal 21-10Y-9-17 ISIP (10-18-2012).csv  
 Device: PrTemp1000 - Temperature and Pressure Recorder  
 Hardware Revision: REV2C (64K)  
 Serial Number: N87695  
 Device ID: PrTemp  
 Data Start Date: Oct 18, 2012 01:30:13 PM MDT  
 Data End Date: Oct 18, 2012 02:00:14 PM MDT  
 Reading: 1 to 31 of 31  
 Reading Rate: 30 Seconds  
 Last Calibration Date: Aug 28, 2012  
 Next Calibration Date: Aug 28, 2013  
 Next Calibration Date: Aug 28, 2013

**Balcron Monument Federal 21-10Y-9-17 ISIP (10-18-2012)**

Unit Type	(All Units)	
Reading	DateTime (MDT)	Channel 2 PSIA
1	Oct 18, 2012 01:30:13 PM	1290.2
2	Oct 18, 2012 01:31:14 PM	1248.8
3	Oct 18, 2012 01:32:13 PM	1235
4	Oct 18, 2012 01:33:13 PM	1232.8
5	Oct 18, 2012 01:34:14 PM	1231.2
6	Oct 18, 2012 01:35:13 PM	1230.2
7	Oct 18, 2012 01:36:13 PM	1229.2
8	Oct 18, 2012 01:37:14 PM	1227.2
9	Oct 18, 2012 01:38:14 PM	1226.6
10	Oct 18, 2012 01:39:13 PM	1225.2
11	Oct 18, 2012 01:40:14 PM	1224.4
12	Oct 18, 2012 01:41:14 PM	1223.8
13	Oct 18, 2012 01:42:13 PM	1223.6
14	Oct 18, 2012 01:43:14 PM	1222
15	Oct 18, 2012 01:44:14 PM	1222
16	Oct 18, 2012 01:45:13 PM	1221.2
17	Oct 18, 2012 01:46:13 PM	1220.6
18	Oct 18, 2012 01:47:14 PM	1219.2
19	Oct 18, 2012 01:48:13 PM	1219
20	Oct 18, 2012 01:49:13 PM	1218.8
21	Oct 18, 2012 01:50:14 PM	1218.4
22	Oct 18, 2012 01:51:13 PM	1217.2
23	Oct 18, 2012 01:52:13 PM	1217.6
24	Oct 18, 2012 01:53:14 PM	1217
25	Oct 18, 2012 01:54:14 PM	1217.2
26	Oct 18, 2012 01:55:13 PM	1215.8
27	Oct 18, 2012 01:56:14 PM	1215.4
28	Oct 18, 2012 01:57:14 PM	1215.8
29	Oct 18, 2012 01:58:13 PM	1215
30	Oct 18, 2012 01:59:13 PM	1214.2
31	Oct 18, 2012 02:00:14 PM	1214.2

End of Report





UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
REGION 8

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

DEC 06 2012

Ref: 8P-W-UIC

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

Mr. Reed Durfey  
District Manager  
Newfield Production Company  
Route 3-Box 3630  
Myton, Utah 84502

Accepted by the  
Utah Division of  
Oil, Gas and Mining

**FOR RECORD ONLY**

RE: Underground Injection Control (UIC)  
Authorization to Continue Injection with  
Minor Permit Modification  
EPA UIC Permit UT20776-08406  
Well: Balcron Monument Federal 21-10Y-9-17  
NENW Sec. 10-T9S-R17E  
Duchesne County, Utah  
API No.: 43-013-31537

Dear Mr. Durfey:

The U.S. Environmental Protection Agency Region 8 has received Newfield Production Company's (Newfield) October 31, 2012, letter with enclosures requesting an increase in the Maximum Allowable Injection Pressure (MAIP) for the Balcron Monument Federal 21-10Y-9-17. Newfield's interpretation of the enclosed Step Rate Test data concluded the fracture gradient to be 0.747 psi/ft. However, a recent EPA analysis determined the fracture gradient in this area to be 0.770 psi/ft., resulting in a calculated MAIP of 1,325 psig. The enclosed Radioactive Tracer Survey was reviewed and approved by the EPA. The MAIP for UIC Permit UT20776-08406 is hereby increased to 1,325 psig from the 1,005 psig previously authorized. Please note that the next RTS conducted on this well must be run at the MAIP of 1,325 psig.

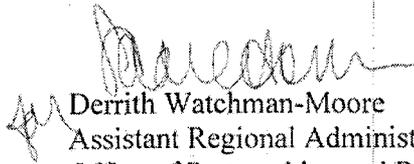
As of this approval, responsibility for permit compliance and enforcement is transferred to the EPA's UIC Technical Enforcement Program. Therefore, please direct all monitoring and compliance correspondence to Sarah Roberts at the following address, referencing the well name and UIC Permit number on all correspondence:

Sarah Roberts  
U.S. EPA Region 8: 8ENF-UFO  
1595 Wynkoop Street  
Denver, Colorado 80202-1129

Or, you may reach Ms. Roberts by telephone at (303) 312-7059 or (800) 227-8927, extension 312-7059. Please remember that it is your responsibility to be aware of, and to comply with, all conditions of injection well Permit UT20776-08406.

If you have questions regarding the above action, please call Jason Deardorff at (303) 312-6583 or (800) 227-8917, extension 312-6583.

Sincerely,



Derrith Watchman-Moore  
Assistant Regional Administrator  
Office of Partnerships and Regulatory Assistance

cc: Uintah & Ouray Business Committee:

Irene Cuch, Chairwoman  
Richard Jenks, Jr., Councilman  
Frances Poowegup, Councilwoman  
Ronald Wopsock, Vice-Chairman  
Phillip Chimburas, Councilman  
Stewart Pike, Councilman

Johnna Blackhair  
BIA - Uintah & Ouray Indian Agency

Mike Natchees  
Environmental Coordinator  
Ute Indian Tribe

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

Associate Director  
Utah Division of Oil, Gas, and Mining

Fluid Minerals Engineering Office  
BLM - Vernal Office

Eric Sundberg, Regulatory Analyst  
Newfield Production Company

# Balcron Monument Federal 21-10Y-9-17

Spud Date: 11/21/1995  
 Put on Production: 12/22/1995  
 GL: 5097' KB: 5109'

## SURFACE CASING

CSG SIZE: 8-5/8"  
 GRADE: J-55  
 WEIGHT: 24#  
 LENGTH: 5 jts  
 DEPTH LANDED: 259.35'  
 HOLE SIZE: 12-1/4"  
 CEMENT DATA: 160 sx Class G, est 6 bbls cement to surface

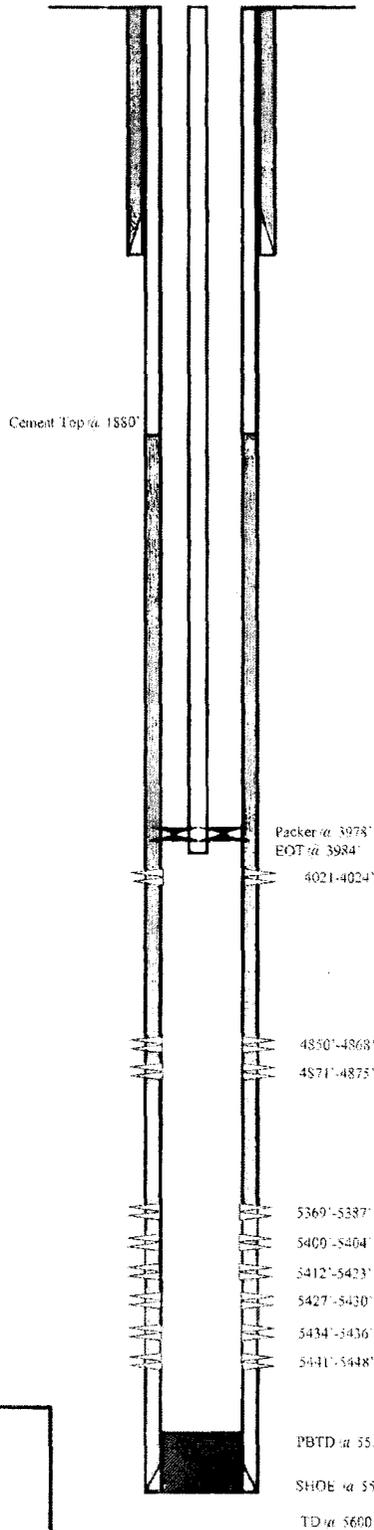
## PRODUCTION CASING

CSG SIZE: 5-1/2"  
 GRADE: J-55  
 WEIGHT: 15.5#  
 LENGTH: 128 jts (5526.52')  
 DEPTH LANDED: 5579.74'  
 HOLE SIZE: 7-7/8"  
 CEMENT DATA: 240 sx Super G & 280 sx 50/50 Poz  
 CEMENT TOP AT: 1880'

## TUBING

SIZE GRADE WT: 2-7/8" 6.5# J-55  
 NO. OF JOINTS: 128 jts (3963.2)  
 ON/OFF TOOL: 2-7/8" 6.5# N-80 (1.4)  
 PACKER: CE @ 3978.26'  
 XO AT: 3981.9'  
 SEATING NIPPLE: 2-3/8" (1.10')  
 SN LANDED AT: 3982.4' KB  
 W/L ENTRY GUIDE: 2-3/8" N-80 (0.5)  
 TOTAL STRING LENGTH: EOT @ 3984' KB

Injection Wellbore Diagram



## FRAC JOB

12-7-95 4850'-4875' Frac sand as follows:  
 27,594 gals 2% KCl gelled water and  
 102,070# 16/30 sand. Perfs broke @  
 2640 psi. Treated w avg press of 2400  
 psi w avg rate of 31.4 BPM. ISIP=2320  
 psi, 5 min 2010 psi.

4/01/02 Pump change:  
 Update rod and tubing details.

11/06/02 5369'-5448' Frac new CP1/CP2 sands as follows:  
 110,500# 20/40 sand in 852 bbls Viking I-25  
 fluid. Treated @ avg pressure of 3297 psi  
 with avg rate of 19.9 BPM. ISIP=1570 psi  
 Calc. Flush: 1409 Actual Flush: 1302

05/16/12 4021-4024' Frac GB4 sands as follows:  
 8431# 20/40 sand in 122 Lighting 17 frac  
 fluid.

05/17/12 Convert to Injection Well

05/24/12 Conversion MIT Finalized - update rbg  
 detail

## PERFORATION RECORD

Date	Depth Range	ISPF	Holes
12-6-95	4850'-4868'	4 ISPF	72 holes
12-6-95	4871'-4875'	4 ISPF	16 holes
11-5-02	5369'-5387'	4 ISPF	72 holes
11-5-02	5400'-5404'	4 ISPF	16 holes
11-5-02	5412'-5423'	4 ISPF	44 holes
11-5-02	5427'-5430'	4 ISPF	12 holes
11-5-02	5434'-5436'	4 ISPF	8 holes
11-5-02	5441'-5448'	4 ISPF	28 holes
05-14-12	4021-4024'	3 ISPF	9 holes

**NEWFIELD**

Balcron Monument Federal 21-10Y-9-17  
 807 FNL & 2120' FWL  
 NE/NW Section 10-T9S-R17E  
 Duchesne Co, Utah  
 API #43-013-31537; Lease #UTU-65210