

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

**CONFIDENTIAL**

**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  
 P.O. Box 21017; Billings, MT 59104

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.\*)  
 At surface  
 SW NW Section 20, T9S, R18E      1980' FNL, 660' FWL

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE\*  
 Approximately 17 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  
 5,400'

20. ROTARY OR CABLE TOOLS  
 Rotary

21. ELEVATIONS (Show whether DF, RT, GR, etc.)  
 GL 5130.36'

22. APPROX. DATE WORK WILL START\*  
 3/1/95

5. LEASE DESIGNATION AND SERIAL NO.  
 U-64917

6. IF INDIAN, ALLOTTEE OR TRIBE NAME  
 n/a

7. UNIT AGREEMENT NAME  
 n/a

8. FARM OR LEASE NAME  
 Balcron Federal

9. WELL NO.  
 #12-20Y

10. FIELD AND POOL, OR WILDCAT  
 Eight Mile Flat/Grn.River

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA  
 Sec. 20, T9S, R18E

12. COUNTY OR PARISH  
 Uintah

13. STATE  
 UTAH

23. PROPOSED CASING AND CEMENTING PROGRAM

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

This well will be drilled 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  
1994

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 12-7-94  
 (This space for Federal or State office use)

PERMIT NO. 43-047-32617 APPROVAL DATE \_\_\_\_\_

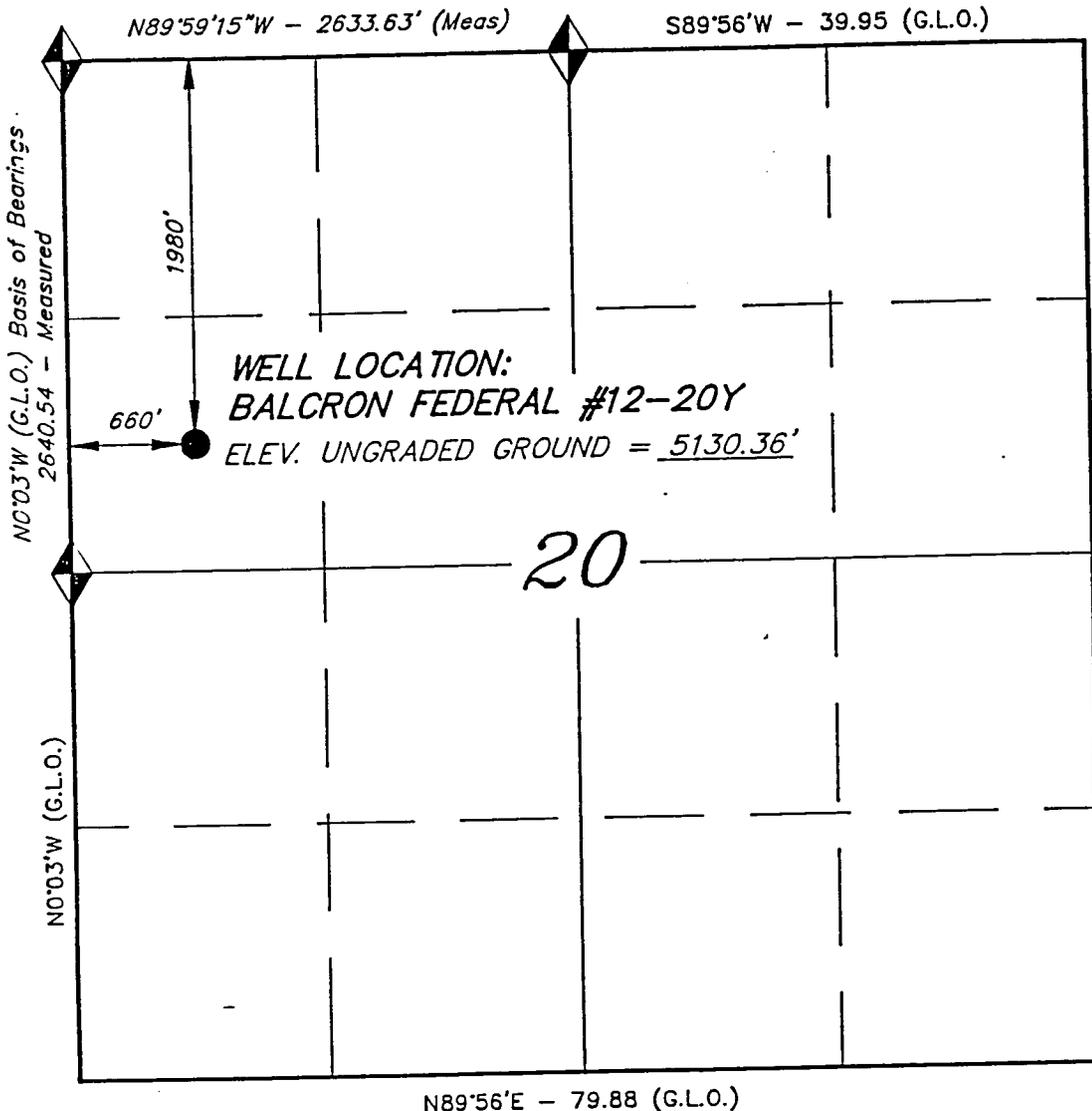
APPROVED BY \_\_\_\_\_ TITLE \_\_\_\_\_ DATE 1/11/95  
 CONDITIONS OF APPROVAL, IF ANY: JAM/att/hrs  
R649-3-2

\*See Instructions On Reverse Side

T9S, R18E, S.L.B.&M.

**EQUITABLE RESOURCES ENERGY CO.**

WELL LOCATION, BALCRON FEDERAL #12-20Y,  
 LOCATED AS SHOWN IN THE SW 1/4 NW 1/4  
 OF SECTION 20, T9S, R18E, S.L.B.&M.  
 DUCHESNE COUNTY, UTAH.  
 Utah



N0°03'W (G.L.O.)



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

*Richard Begene Stewart*  
 REGISTERED LAND SURVEYOR  
 REGISTRATION No. 444102  
 STATE OF UTAH

<b>TRI STATE LAND SURVEYING &amp; CONSULTING</b>	
38 EAST 100 NORTH, VERNAL, UTAH 84078 (801) 781-2501	
SCALE: 1" = 1000'	SURVEYED BY: S.S. G.S.
DATE: 10-29-94	WEATHER: COOL
NOTES:	FILE 12-20Y

◆ = SECTION CORNERS LOCATED  
 BASIS OF BEARINGS; G.L.O. DATED 1910  
 BASIS OF ELEV; U.S.G.S. 7-1/2 min QUAD (PARIETTE DRAW SW)

EXHIBIT "K"



EQUITABLE **RESOURCES**  
ENERGY COMPANY

**BALCRON OIL DIVISION**

1601 Lewis Avenue  
P.O. Box 21017  
Billings, MT 59104

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

December 7, 1994

-- VIA FEDERAL EXPRESS --

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

Gentlemen:

Enclosed are Applications for Permit to Drill the wells on the enclosed list.

As operator, we hereby request that the status of this well be held tight for the maximum period allowed by Federal and State regulations.

If you need additional information or have any questions, please feel free to call me at (406) 259-7860.

Sincerely,

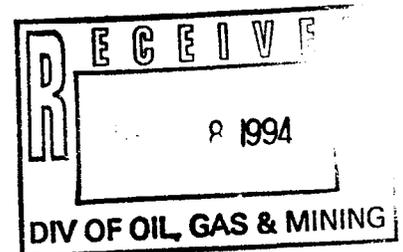
*Bobbie Schuman*

Bobbie Schuman  
Regulatory and Environmental Specialist

/hs

Enclosures

cc: Utah Division of Oil, Gas and Mining



Balcron Federal #12-20Y  
SW NW Section 20, T9S, R18E  
Uintah County, Utah  
1980' FNL, 660' FWL  
Field: 8 Mile Flat  
FLS #U-64917  
PTD: 5,400' (Green River formation)  
GL: 5130.36'

Balcron Federal #31-19Y  
NW NE Section 19, T9S, R18E  
Duchesne County, Utah  
660' FNL, 1880' FEL  
Field: 8 Mile Flat  
FLS #U-65635  
PTD: 5,450' (Green River formation)  
GL: 5137.20'

Balcron Federal #32-19Y  
SW NE Section 19, T9S, R18E  
Uintah County, Utah  
1980' FNL, 1980' FEL  
Field: 8 Mile Flat  
FLS #U-65635  
PTD: 5,400' (Green River formation)  
GL: 5152.38'

Balcron Federal #42-19Y  
SE NE Section 19, T9S, R18E  
Uintah County, Utah  
2100' FNL, 500' FEL  
Field: 8 Mile Flat  
FLS #U-65635  
PTD: 5,400' (Green River formation)  
GL: 5134.26'

11/29/94  
/rs

## 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

11/2/94

# **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  
P.O. Box 21017  
Billings, MT 59104  
(406) 259-7860**

EQUITABLE RESOURCES ENERGY COMPANY  
Balcron Oil Division  
Balcron Federal #12-20Y  
SW NW Section 20, T9S, R18E  
Uintah 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: 1.25, 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.

Y

**SURFACE USE PROGRAM**

EQUITABLE RESOURCES ENERGY COMPANY  
Balcron Oil Division  
Balcron Federal #12-20Y  
SW NW Section 20, T9S, R18E  
Uintah 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 16.5 miles to a road intersection. Turn right and continue 0.9 miles to a road intersection. Turn right and continue 0.6 miles. Follow flags 0.4 mile to proposed Federal #12-20Y.
- 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. Length: Approximately 0.4 miles of new access road will be required.
- b. Width: Maximum 30' overall right-of-way with an 18' running surface.
- c. Maximum grade: < 8%
- d. Turnouts: None
- e. Drainage design: Low water crossing if necessary.
- f. No culverts or bridges are necessary.
- g. Surface materials: Any surface materials which are required will be native materials from the location and/or access site.
- h. No gates, cattleguards, or fence cuts and/or modifications to existing facilities will be required.
- i. All travel will be confined to location and access routes.

- j. All access roads and 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).

The road shall be constructed/upgraded to meet the standards of the anticipated traffic flow and all-weather road requirements. This shall include ditching, draining, graveling, crowning, and capping the roadbed as necessary to provide a well-constructed safe road. If necessary prior to upgrading, the road shall be cleared of any snow cover and allowed to dry completely. Road drainage crossings will be of the typical dry creek draining crossing type. Crossings, if necessary, will be designed so they will not cause siltation or accumulation of debris in the drainage crossing nor shall the drainages be blocked by the roadbed. Erosion of drainage ditches by runoff water shall be prevented by diverting water off at frequent intervals by means of cutouts. Upgrading will not be done during muddy conditions. Should mud holes develop, they will be filled in and detours around them will be avoided.

- k. 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.

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 North side between corners 2 and 3.
- h. Access to the wellpad will be from the North between corners 1 and 2.
- 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. If a plastic nylon reinforced liner is used, 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

12. OTHER INFORMATION:

- a. An Archeology Survey will be provided as soon as it is completed.
- b. If unexpected cultural resources are observed during construction or reclamation operations, Equitable Resources Energy Company's Balcron Oil division will suspend operations in the vicinity of the discovery and immediately report the finding to the BLM District Office.
- c. Operator will have on site a copy of the Surface Use Program and a copy of the supplemental conditions.
- d. Drilling operations will be conducted in accordance with the Bureau of Land Management conditions of approval when received.

- e. At the onsite it was determined no silt catchment dam will need to be constructed at this location.

13. OPERATOR'S REPRESENTATIVES:

Equitable Resources Energy Company, Balcron Oil Division  
1601 Lewis Avenue  
P.O. Box 21017  
Billings, Montana 59104  
(8:00 a.m. to 5:00 p.m.)  
(406) 259-7860  
FAX: (406) 245-1361

Dave McCoskery, Operations Manager      Home: (406) 248-3864  
Mobile: (406) 698-3732

Dale Griffin, Operations Supervisor      Mobile: (801) 828-7291  
Home: (801) 781-1018

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.

December 7, 1994  
Date

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

/rs



**DRILLING PROGRAM**

**WELL NAME: Balcron Federal 12-20Y PROSPECT/FIELD: 8 Mile**  
**LOCATION: SW NW Sec.20 Twn.9S Rge.18E**  
**COUNTY: Uintah STATE: Utah**

**TOTAL DEPTH: 5400**

**HOLE SIZE INTERVAL**

=====  
 12 1/4" 0 to 260'  
 7 7/8" 260 to 5400'

**CASING INTERVAL CASING**

STRING TYPE	FROM	TO	SIZE	WEIGHT	GRADE
Surface Casing	0	260	8 5/8"	24 #/Ft	J-55
Production Casing	0	5400	5 1/2"	15.50#/Ft	K-55

(All Casing will be new, ST&C)

**CEMENT PROGRAM**

=====  
**Surface** 225 sacks Class "G" with 2% CaCl and 1/4 #/Sk Flocele.  
 (Cement will be circulated to surface.)

**Production** 250 sacks Thifty Lite and 400 sacks 50-50 Poz mix.  
 (Top of cement will be 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/Air Mist/KCl Water	260	T.D.	8.7-8.9	N.A.	N.A.

Drilling will be with air from surface to as deep as hole conditions allow. 2% KCl fluid will be used for the remainder of the hole.

**COMMENTS**

- 1.) No cores or DST's are planned.

BALCRON OIL CO.

Operator: BALCRON OIL	Well Name: Balcron Fed. #12-20Y
Project ID:	Location: Uintah/Utah

Design Parameters:

Mud weight ( 8.80 ppg) : 0.457 psi/ft  
 Shut in surface pressure : 1929 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	5,400	5-1/2"	15.50	K-55	ST&C	5,400	4.825		
	Collapse Load (psi)	Strgth (psi)	S.F.	Burst Load (psi)	Min Int Strgth (psi)	Yield S.F.	Tension Load (kips)	Strgth (kips)	S.F.
1	2469	4040	1.636	2469	4810	1.95	83.70	222	2.65 J

Prepared by : McCoskery, Billings, MT  
 Date : 12-06-1994  
 Remarks :

Minimum segment length for the 5,400 foot well is 1,500 feet.  
 The mud gradient and bottom hole pressures (for burst) are 0.457 psi/ft and  
 2,469 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

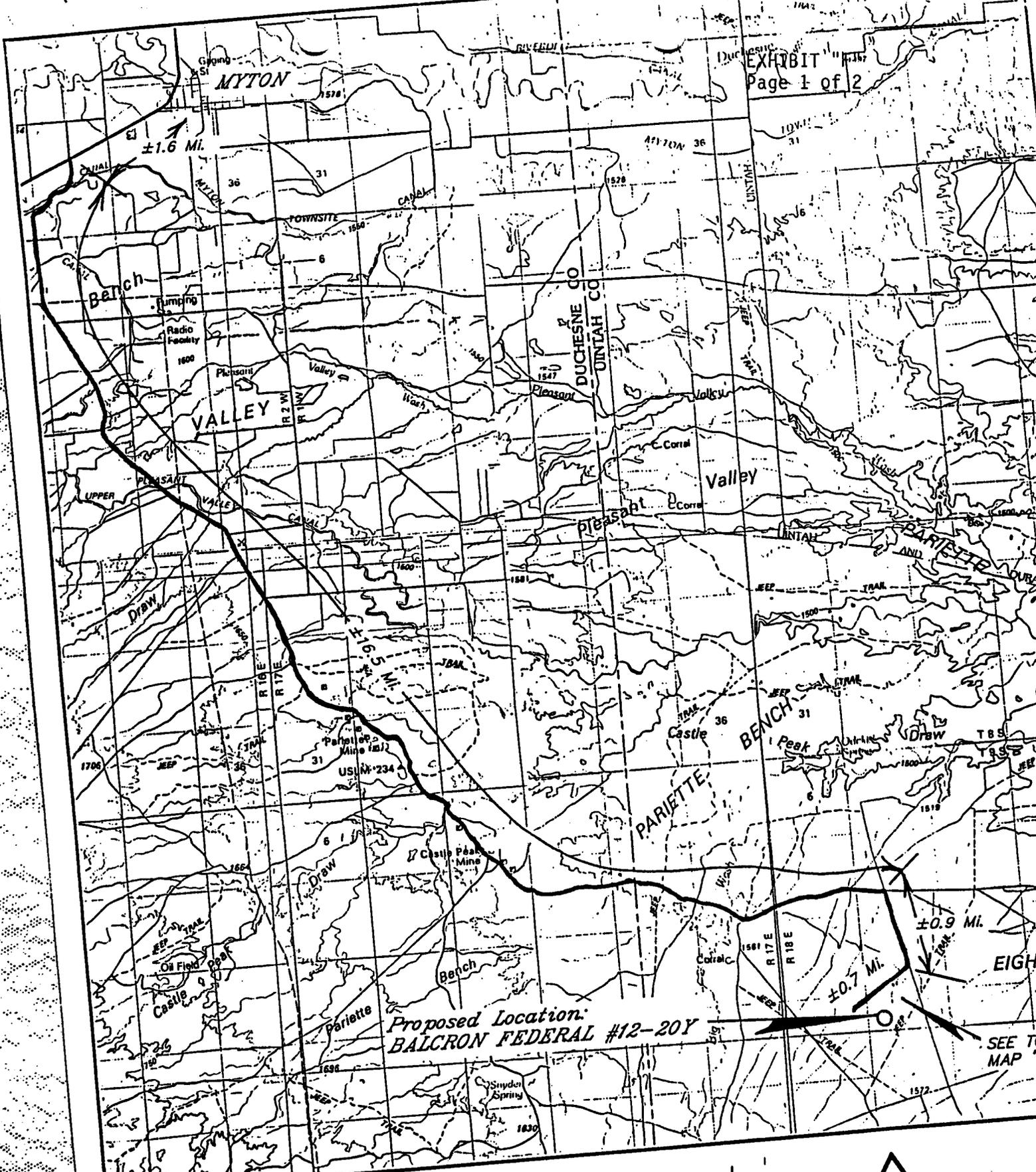
- A. Hazardous chemicals 10,000 pounds of which will most likely be used, produced, stored, transported, or disposed of in association with the proposed action of drilling, completing and producing this well:

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



Proposed Location:  
**BALCRON FEDERAL #12-20Y**

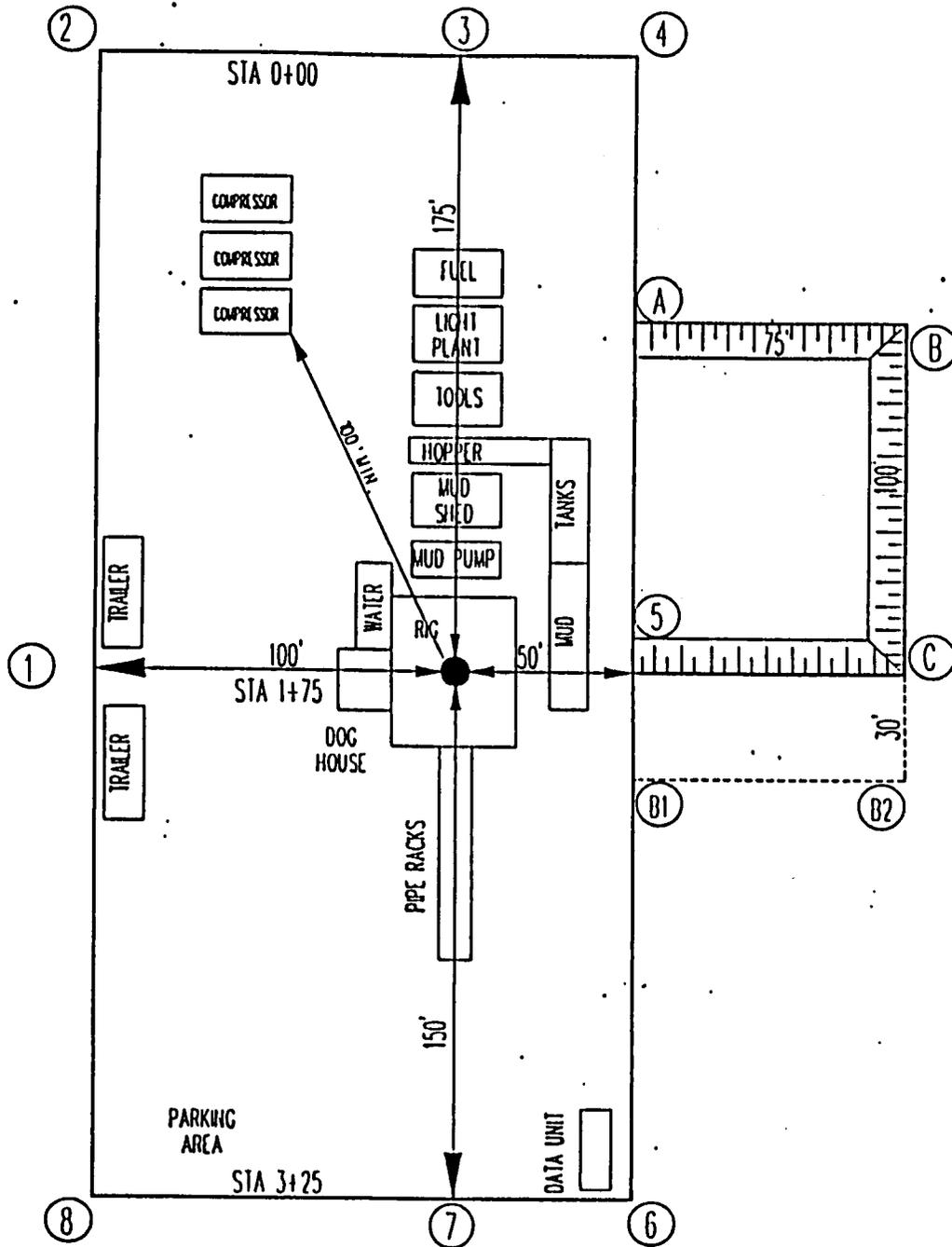
**EQUITABLE RESOURCES CO.**  
**BALCRON FEDERAL #12-20Y**  
**SECTION 20, T9S, R18E, S.L.B.&M.**  
**TOPO "A"**



**Tri Sta**  
Land Surveying  
(801) 78  
38 WEST 100 NORTH VERNAL, UT.



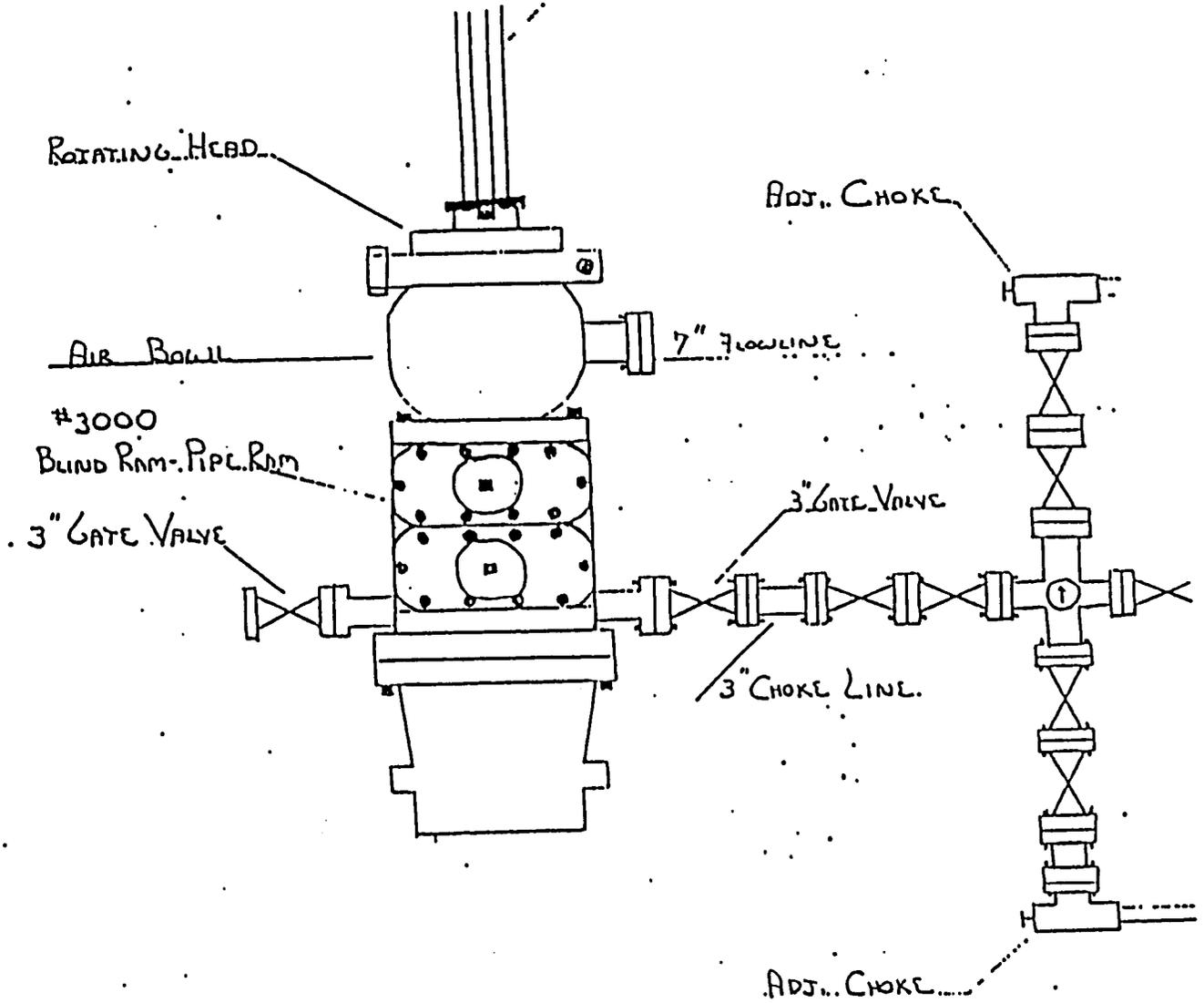
# EQUITABLE RESOURCES ENERGY CO. WELLSITE LAYOUT



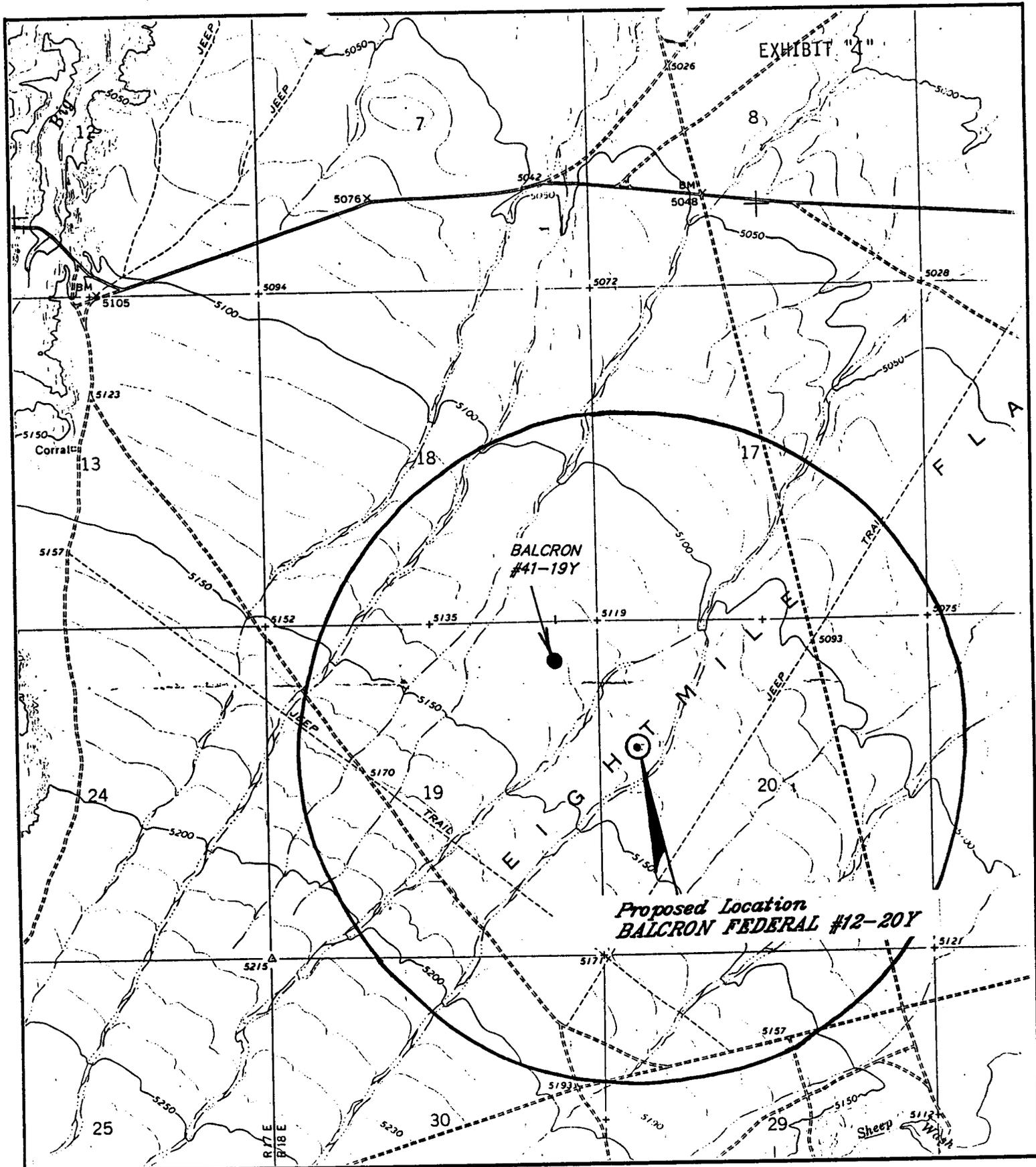
**TRI-STATE**  
LAND SURVEYING, INC.  
38 WEST 100 NORTH, VERMILION, UTAH 84078  
801-781-2501

UNION DRILLING RIG #17

Hex Kelly -

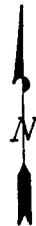


#3000 Stack



**EQUITABLE RESOURCES ENERGY CO.**

BALCRON FEDERAL #12-20Y  
 SECTION 20, T9S, R18E, S.L.B.&M.  
 TOPO "C"



SCALE: 1" = 2000'

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

Equitable Resources Energy Company  
 Balcron Federal 12-20Y  
 Proposed Production Facility Diagram

EXHIBIT "J"

Balcron Federal 12-20Y  
 SWNW Sec. 20, T9S, R18E  
 Uintah County, Utah  
 Federal Lease #U-64917  
 1980' FNL, 660' 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

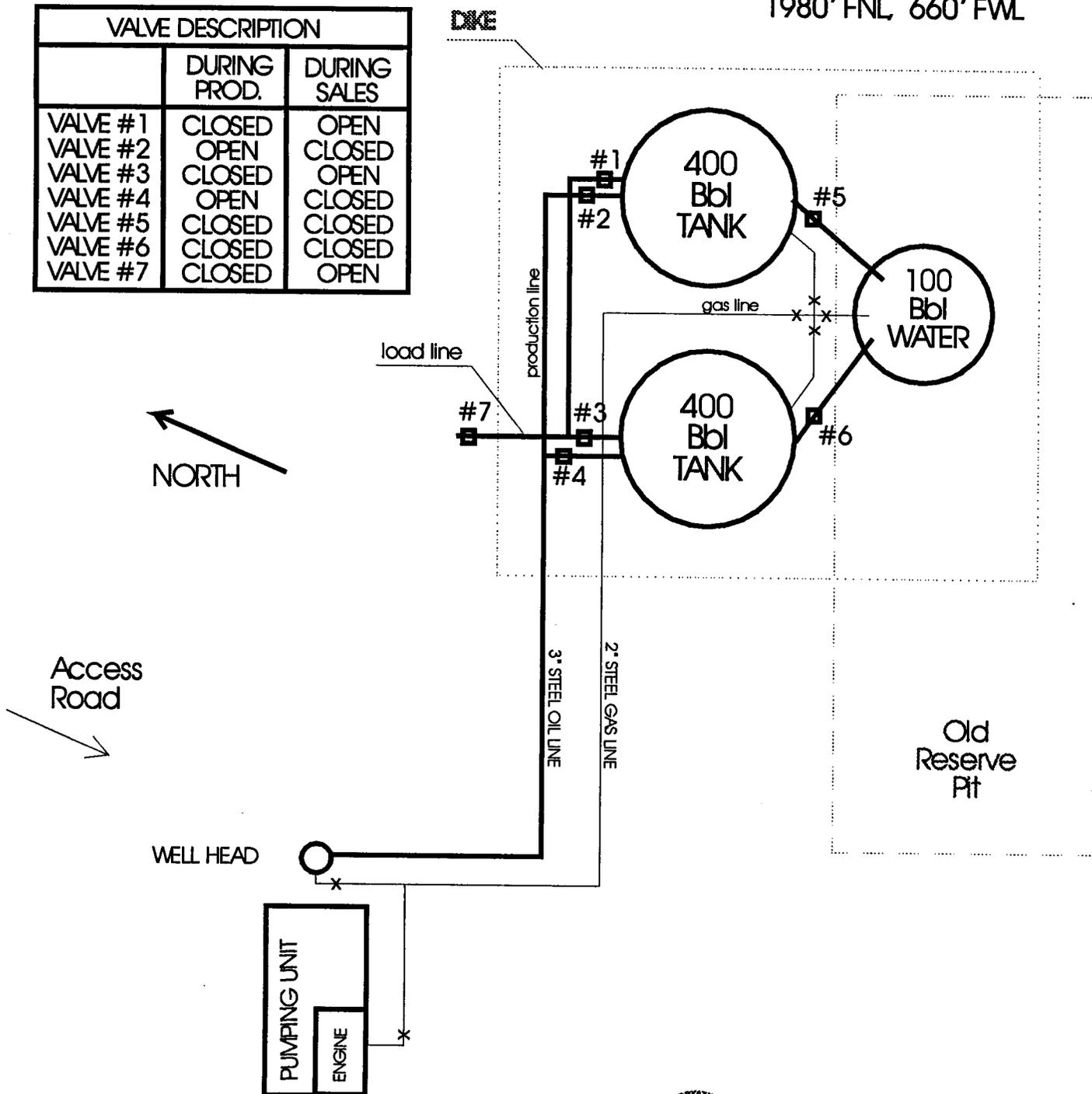


DIAGRAM NOT TO SCALE

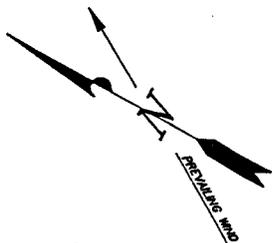


**EQUITABLE RESOURCES  
 ENERGY COMPANY**  
 BALCRON OIL DIVISION  
 1601 Lewis Avenue  
 P.O. Box 21017  
 Billings, MT 59104-1017  
 (406) 259-7860

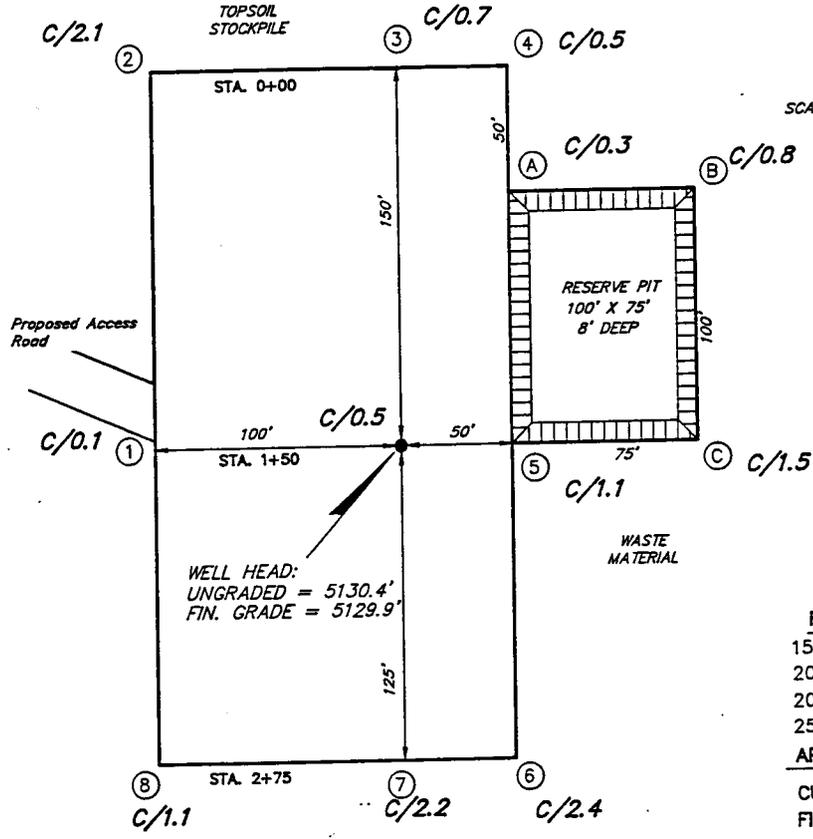
EXHIBIT "A"

# EQUITABLE RESOURCES ENERGY CO.

## BALCRON FEDERAL #12-20Y SECTION 20, T9S, R18E, S.L.B.&M.



SCALE: 1" = 50'

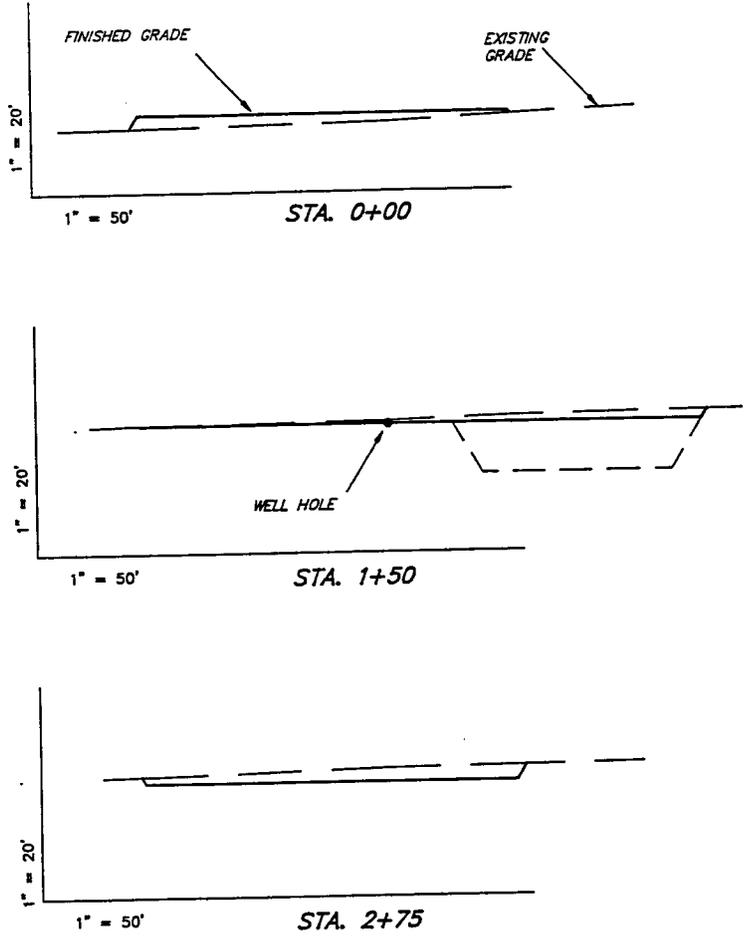


### REFERENCE POINTS

- 150' NORTHWEST 5129.5'
- 200' NORTHWEST 5129.7'
- 200' NORTHEAST 5128.2'
- 250' NORTHEAST 5128.1'

### APPROXIMATE YARDAGES

- CUT = 1230 Cu. Yds.
- FILL = 480 Cu. Yds.
- PIT = 1,940 Cu. Yds.
- 6" TOPSOIL = 900 Cu. Yds.



SURVEYED BY: G.S. R.H.
DRAWN BY: R.E.H.
DATE: 11-3-94
SCALE: 1" = 50'
FILE: 12-20Y

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

WORKSHEET  
APPLICATION FOR PERMIT TO DRILL

APD RECEIVED: 12/08/94

API NO. ASSIGNED: 43-047-32617

WELL NAME: BALCRON FEDERAL 12-20Y  
OPERATOR: EQUITABLE RESOURCES (N9890)

PROPOSED LOCATION:  
SWNW 20 - T09S - R18E  
SURFACE: 1980-FNL-0660-FWL  
BOTTOM: 1980-FNL-0660-FWL  
UINTAH COUNTY  
EIGHTMILE FLAT NORTH FIELD (590)

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

LEASE TYPE: FED  
LEASE NUMBER: U-64917

PROPOSED PRODUCING FORMATION: GRRV

RECEIVED AND/OR REVIEWED:

Y Plat  
Y Bond: Federal[] StateY Fee[]  
(Number 0576)  
N Potash (Y/N)  
N Oil shale (Y/N)  
Y Water permit  
(Number PRIVATE WELL)  
N RDCC Review (Y/N)  
(Date: \_\_\_\_\_)

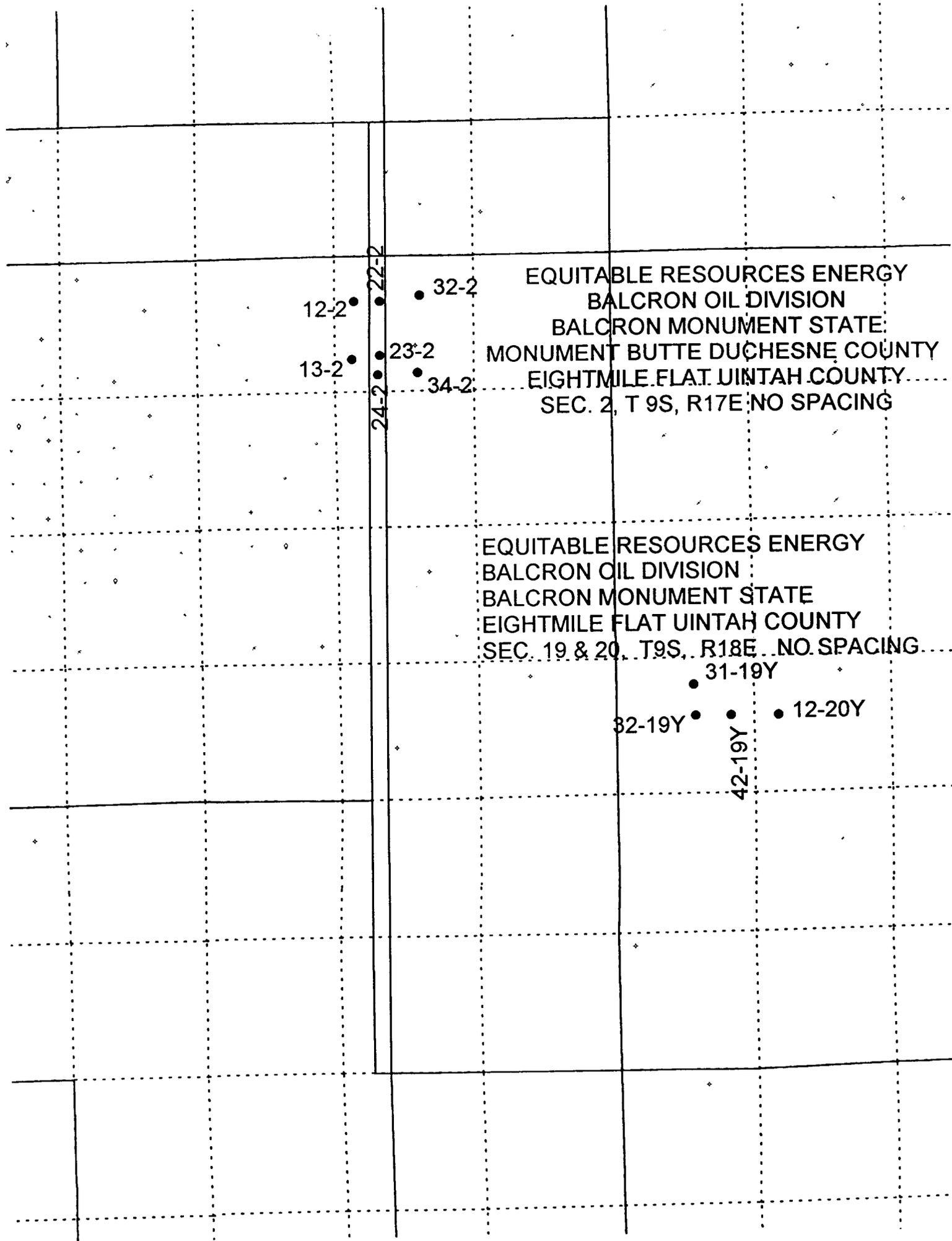
LOCATION AND SITING:

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

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

CONFIDENTIAL  
PERIOD  
EXPIRES  
ON 10-18-90

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



EQUITABLE RESOURCES ENERGY  
BALCRON OIL DIVISION  
BALCRON MONUMENT STATE  
MONUMENT BUTTE DUCHESNE COUNTY  
EIGHTMILE FLAT UINTAH COUNTY  
SEC. 2, T 9S, R17E NO SPACING

EQUITABLE RESOURCES ENERGY  
BALCRON OIL DIVISION  
BALCRON MONUMENT STATE  
EIGHTMILE FLAT UINTAH COUNTY  
SEC. 19 & 20, T9S, R18E NO SPACING

12-2 •  
13-2 •  
22-2 •  
23-2 •  
24-2 •  
32-2 •  
34-2 •

31-19Y •  
32-19Y •  
42-19Y •  
12-20Y •

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 12-20Y API Number: 43-047-32617

Section: 20 Township: 9S Range: 18E County: UINTAH Field: 6 MILE FLAT

Well Status: POW Well Type: Oil: X 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: X Hydraulic:      Submersible:      Flowing:     

**GAS EQUIPMENT: (NUMBER)**

Purchase Meter: 0 Sales Meter: 0

**TANKS:**

	NUMBER	SIZE	
Oil Storage Tank(s):	<u>3</u>	<u>400</u>	BBLs
Water Tank(s):	<u>    </u>	<u>    </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: OIL TANKS HAVE BURNERS. RESERVE PIT HAS BEEN RECLAIMED.

Inspector: DAVID W. HACKFORD Date: 6/7/95

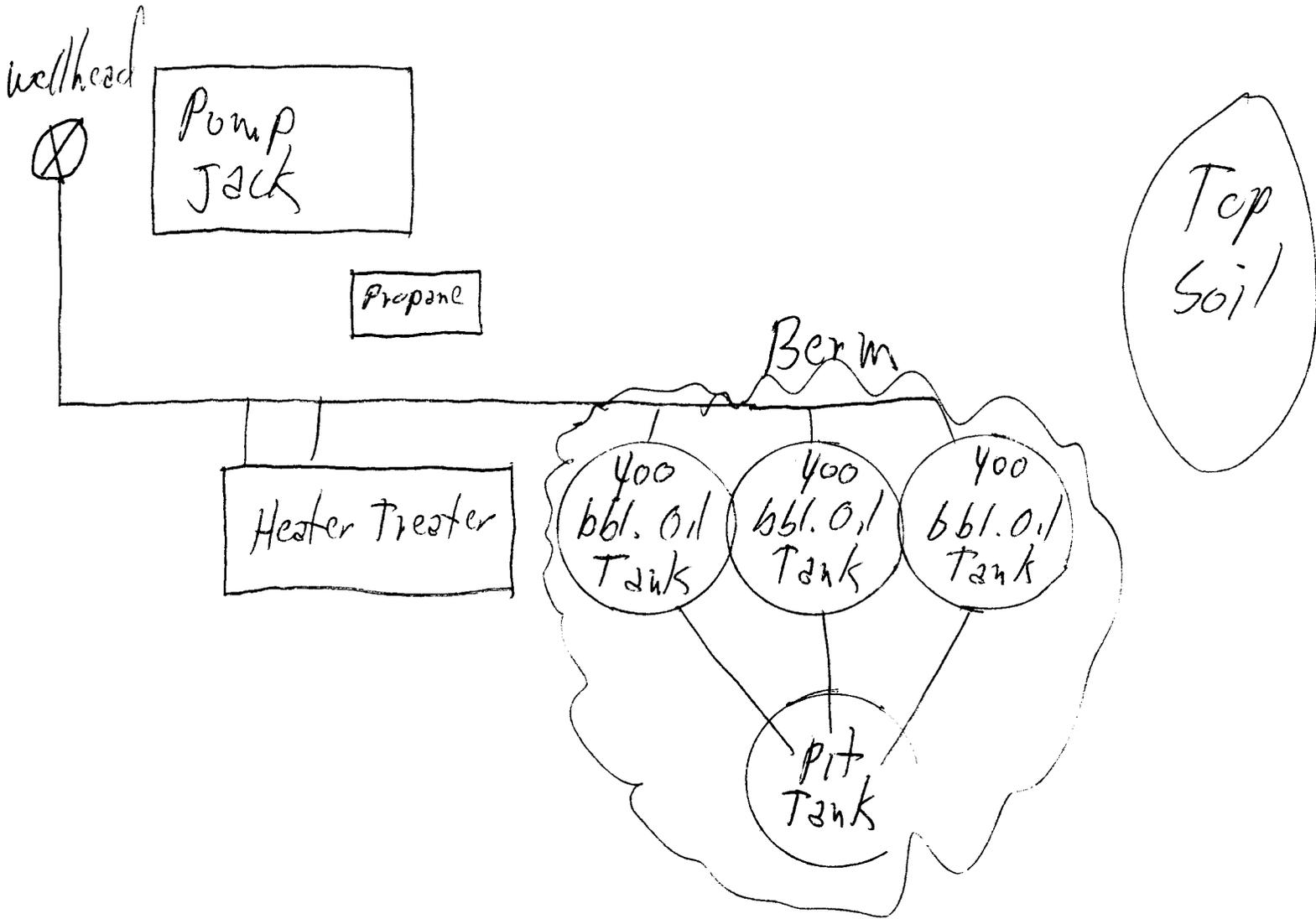
Equitable Resources

Bellevue Fed. 2-204

43-047-32617

↑  
North

/ Access /



STATE OF UTAH  
DIVISION OF OIL, GAS AND MINING

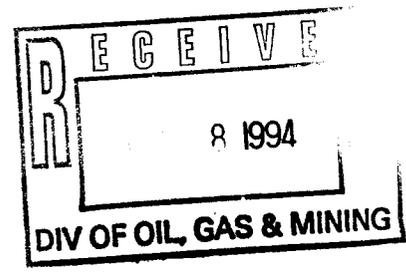
**CONFIDENTIAL**

<b>APPLICATION FOR PERMIT TO DRILL OR DEEPEN</b>		5. Lease Designation and Serial Number: Federal #U-64917
1A. Type of Work: DRILL <input checked="" type="checkbox"/> DEEPEN <input type="checkbox"/>		6. If Indian, Allottee or Tribe Name: n/a
B. Type of Well: OIL <input checked="" type="checkbox"/> GAS <input type="checkbox"/> OTHER: SINGLE ZONE <input type="checkbox"/> MULTIPLE ZONE <input type="checkbox"/>		7. Unit Agreement Name: n/a
2. Name of Operator: Equitable Resources Energy Company, Balcron Oil Division		8. Farm or Lease Name: Balcron Federal
3. Address and Telephone Number: P.O. Box 21017; Billings, MT 59104 (406) 259-7860		9. Well Number: #12-20Y
4. Location of Well (Footages) At Surface: SW NW Section 20, T9S, R18E 1980' FNL, 660' FWL At Proposed Producing Zone:		10. Field and Pool, or Wildcat: Eight Mile Flat/Green River
14. Distance in miles and direction from nearest town or post office: Approximately 17 miles southwest of Myton, Utah		11. Qtr/Qtr, Section, Township, Range, Meridian: SW NW 20, T9S, R18E
15. Distance to nearest property or lease line (feet):	16. Number of acres in lease:	12. County: Uintah
17. Number of acres assigned to this well:	13. State: UTAH	
18. Distance to nearest well, drilling, completed, or applied for, on this lease (feet):	19. Proposed Depth: 5,400'	20. Rotary or cable tools: Rotary
21. Elevations (show whether DF, FT, GR, etc.): GL 5130.36'		22. Approximate date work will start: 3/1/95

23. PROPOSED CASING AND CEMENTING PROGRAM				
SIZE OF HOLE	GRADE, SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
See EXHIBIT "D" Drilling Program/Casing Design				

DESCRIBE PROPOSED PROGRAM: If proposal is to deepen, 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.

Operator proposes to drill this well in accordance with the attached Federal Application for Permit to Drill.



24. Name & Signature: <u>Bobbie Schuman</u> Bobbie Schuman	Title: <u>Regulatory and Environmental Specialist</u>
API Number Assigned: <u>43-047-32617</u>	Approval: <u>[Signature]</u> DATE: <u>1/11/95</u> BY: <u>[Signature]</u> WELL SPACING: <u>649-3-2</u>

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

**RECEIVED**

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

Case Designation and Serial No.  
U-64917

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

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

8. Well Name and No.  
Balcron Federal #12-20Y

9. API Well No.  
43-047-32617

10. Field and Pool, or Exploratory Area  
8 Mile Flat/Green River

11. County or Parish, State  
Uintah 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.  
 P.O. Box 21017; Billings, MT 59104      (406) 259-7860

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)  
 SW NW Section 20, T9S, R18E  
 1980' FNL, 660' FWL

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>survey plat</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 a corrected survey plat (EXHIBIT "K") which is to replace the one submitted in the Application for Permit to Drill. The county name was incorrect on the original plat.

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

Signed *Bobbie Schuman* Title Regulatory and Environmental Specialist Date 12/2/94

(This space for Federal or State office use)

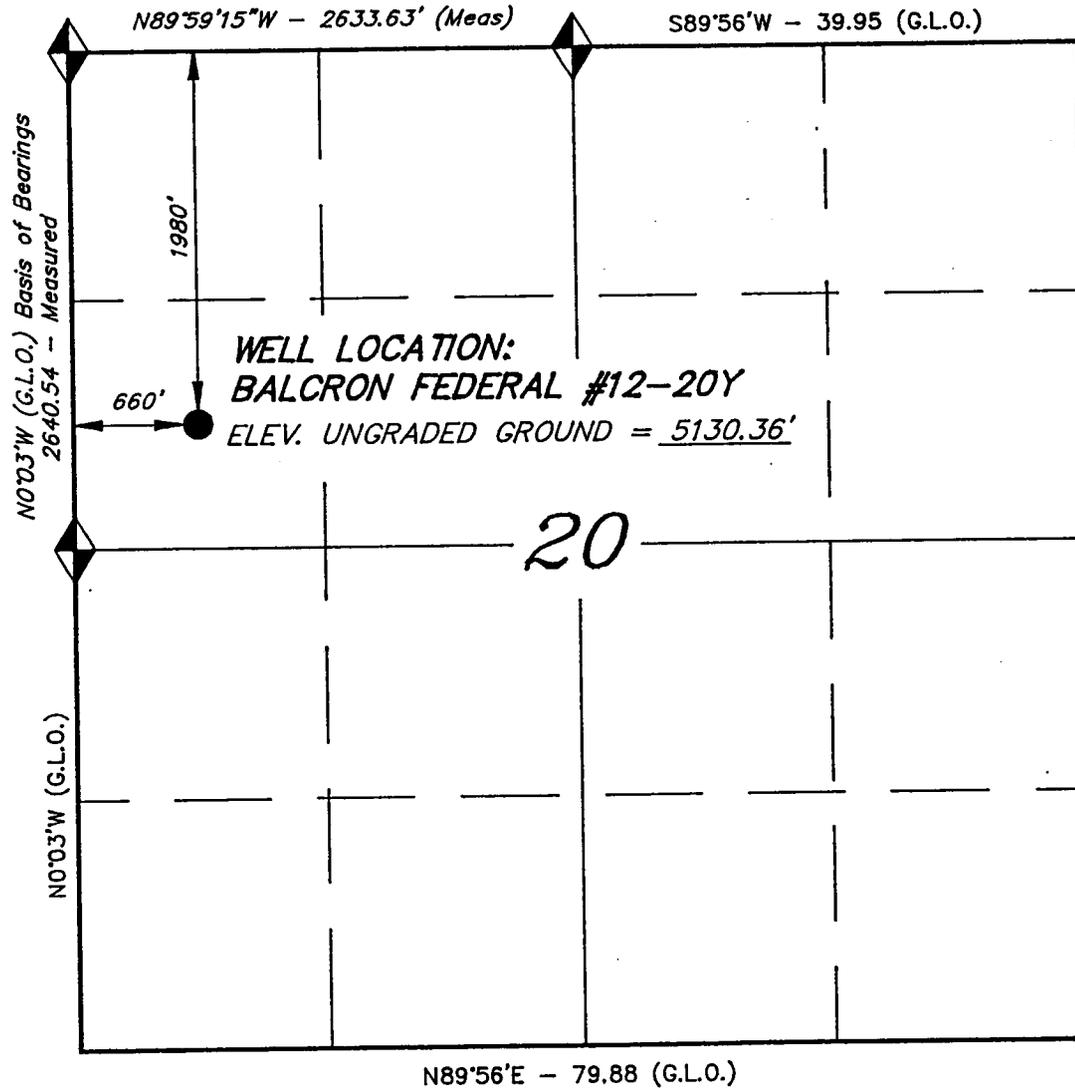
Approved by \_\_\_\_\_ Title \_\_\_\_\_ Date \_\_\_\_\_

Conditions of approval, if any:

EXHIBIT "K"

T9S, R18E, S.L.B.&M.

**EQUITABLE RESOURCES ENERGY CO.**



WELL LOCATION, BALCRON FEDERAL #12-20Y,  
LOCATED AS SHOWN IN THE SW 1/4 NW 1/4  
OF SECTION 20, T9S, R18E, S.L.B.&M.  
UINTAH COUNTY, UTAH.



THIS IS TO CERTIFY THAT THE ABOVE AND AT 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.

NO. 189377

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

 = SECTION CORNERS LOCATED  
 BASIS OF BEARINGS; G.L.O. DATED 1910  
 BASIS OF ELEV; U.S.G.S. 7-1/2 min QUAD (PARIETTE DRAW SW)

<b>TRI STATE LAND SURVEYING &amp; CONSULTING</b> 38 EAST 100 NORTH, VERNAL, UTAH 84078 (801) 781-2501	
SCALE: 1" = 1000'	SURVEYED BY: S.S. G.S.
DATE: 10-29-94	WEATHER: COOL
NOTES:	FILE 12-20Y

BALCRON OIL  
43-047-32617  
Balcron Federal #12-20Y

SE NW Section 20 , T9S, R18E, SLB&M

Uintah County, Utah

**CONFIDENTIAL**

PALEONTOLOGY REPORT

WELLPAD LOCATION AND ACCESS ROAD

BY

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

December 28, 1994

RESULTS OF PALEONTOLOGY SURVEY AT BALCRON FEDERAL #12-20Y, SW NW Section 20,  
T9S, R18E, SLB&M, UINTAH COUNTY, UTAH.

Description of Geology and Topography-

This well location is 12 miles south and 7 miles east of Myton, Utah. The road is .4 mile long and it and the wellpad are on flat bench sediments. These sediments are composed of sand and small rock fragments. No rock outcrops were noted during the survey.

All rock outcrops in the general 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 -

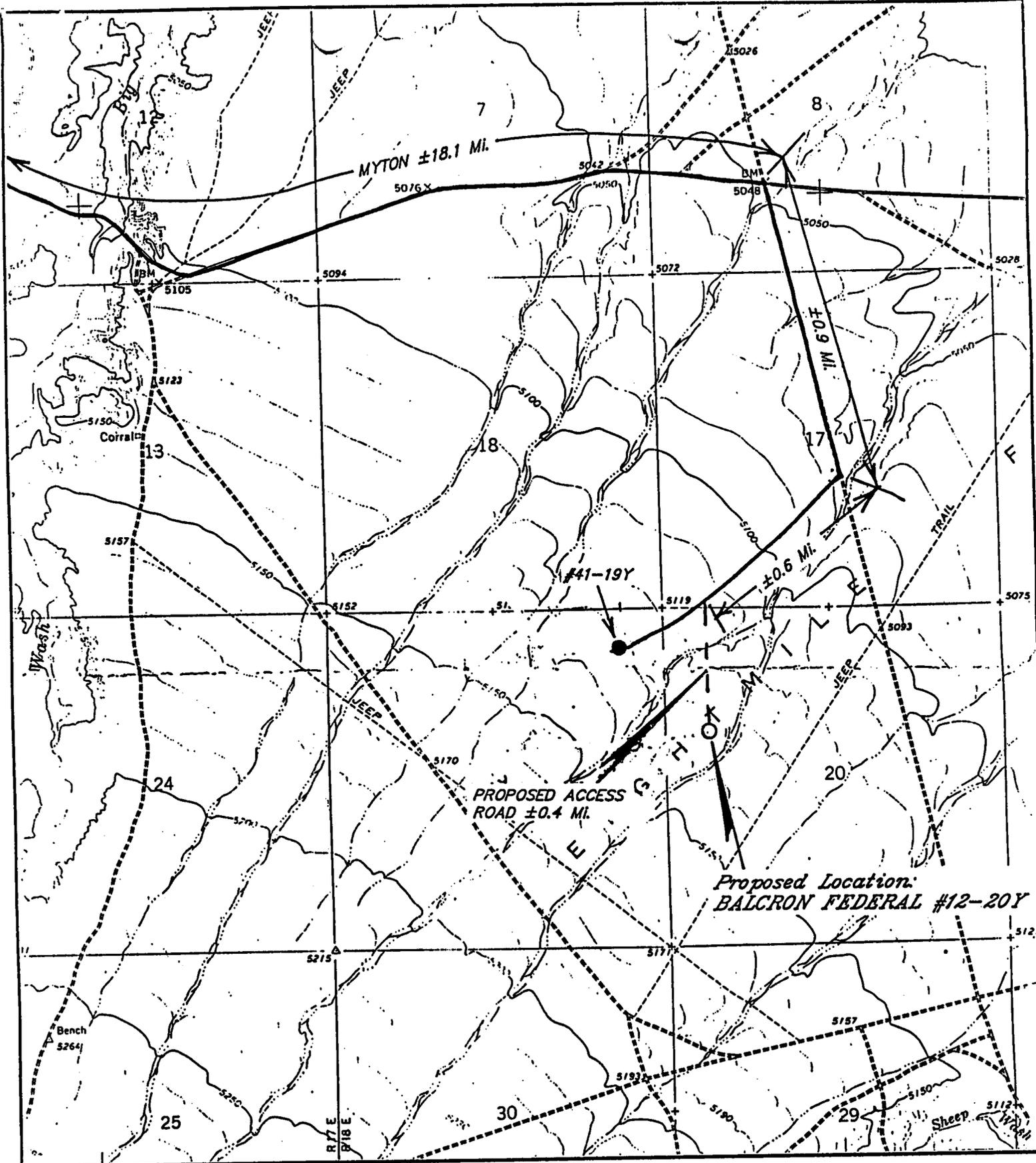
No fossils were found during the survey.

Recommendations-

No recommendations are made for this access road or wellpad.

Allen A. Hamblin  
Paleontologist

Date December 29, 1994



**EQUITABLE RESOURCES CO.**

BALCRON FEDERAL #12-20Y  
SECTION 20, T9S, R18E, S.L.B.&M.  
TOPO "B"



SCALE: 1" = 2000'

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

## ABSTRACT

An intensive cultural resource evaluation has been conducted for Balcron Oil Company of nine proposed well locations and access routes (Balcron Federal wells #12-20Y, 31-19Y, 32-19Y, 42-19Y; Balcron Monument State wells #13-2, #12-2, #22-2, #34-2 and #23-2). These evaluated locations are situated on Utah State and federally administered lands located in the Pariette Bench locality of Duchesne and Uintah Counties, Utah. This evaluation involved a total of 99.23 acres, of which 75 acres are associated with the well pads and an additional 24.23 acres are associated with seven access road rights-of-way. These evaluations were conducted by F.R. Hauck and Glade Hadden of AERC on December 6 and 12, 1994.

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

No newly identified cultural resource activity loci of either historic or prehistoric origin were discovered and recorded during the examinations.

Several isolated, non-diagnostic artifacts were noted during the investigations.

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

**CULTURAL RESOURCE EVALUATION  
OF 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-94-54937  
AERC Project 1460 (BLCR-94-10)

Utah State Project No.: UT-94-AF-746 b,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

December 30, 1994

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## GENERAL INFORMATION

On December 6 and 12, 1994, AERC archaeologists F.R. Hauck and Glade Hadden conducted an intensive cultural resource evaluation for Balcron Oil Company of Billings Montana. This examination involved nine proposed well locations (Balcron Federal Units 12-20Y, 31-19Y, 32-19Y and 42-19Y; Balcron Monument State Units 13-2, 12-2, 22-2, 34-2 and 23-2) and associated access roads. The project area is in the, Castle Peak Draw and Eight Mile Flat locality south east of Myton, Utah (see Map 1). A total of 99.23 acres was examined which include 55.75 acres associated with the Federal well pads and 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 43.48 acres are associated with the State well pads and access routes 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 Castle Peak Draw locality 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 7.5 minute topographic quad (see Maps).

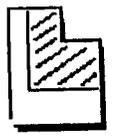
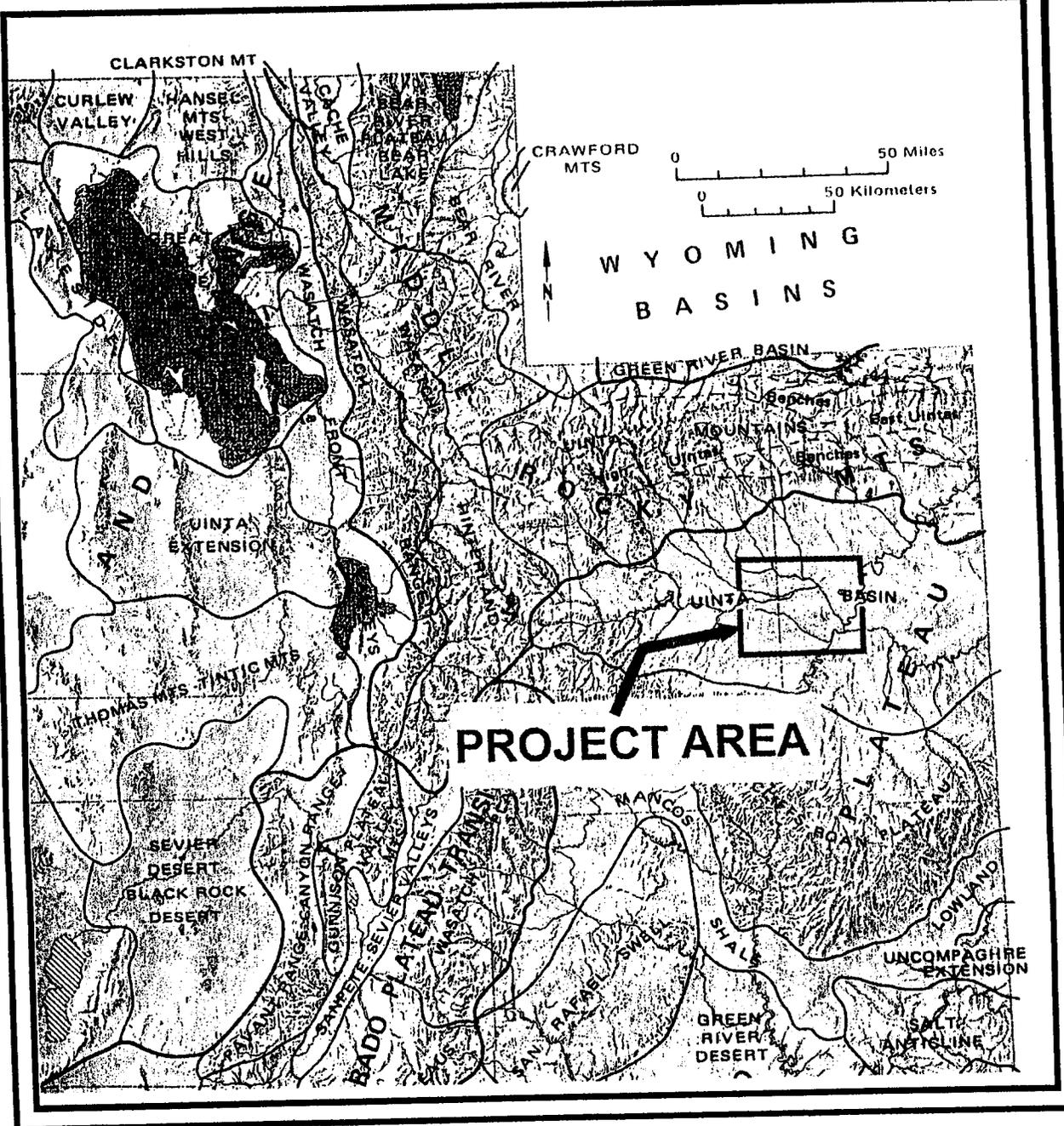
Balcron Federal #12-20Y is situated in the SW quarter of the NW quarter of Section 20, Township 9 South, Range 18 East SLBM, together with ca. 0.4 miles of access route (see Map 2).

Balcron Federal #31-19Y is situated in the NW quarter of the NE quarter of Section 19, Township 9 South, Range 18 East SLBM, together with ca. 0.3 miles of access route (see Map 2).

Balcron Federal #32-19Y is situated in the SW quarter of the NE quarter of Section 19, Township 9 South, Range 18 East SLBM, together with ca. 0.3 miles of access route (see Map 2).

**MAP 1: GENERAL BALCRON PROJECT  
LOCALITY IN DUCHESNE AND UINTAH  
COUNTIES OF NORTHWESTERN UTAH**

**PROJECT: BLCR-94-10**  
**SCALE: see below**  
**QUAD: UG & MS Map 43**  
**DATE: 12-30-94**



T. multiple  
R. multiple

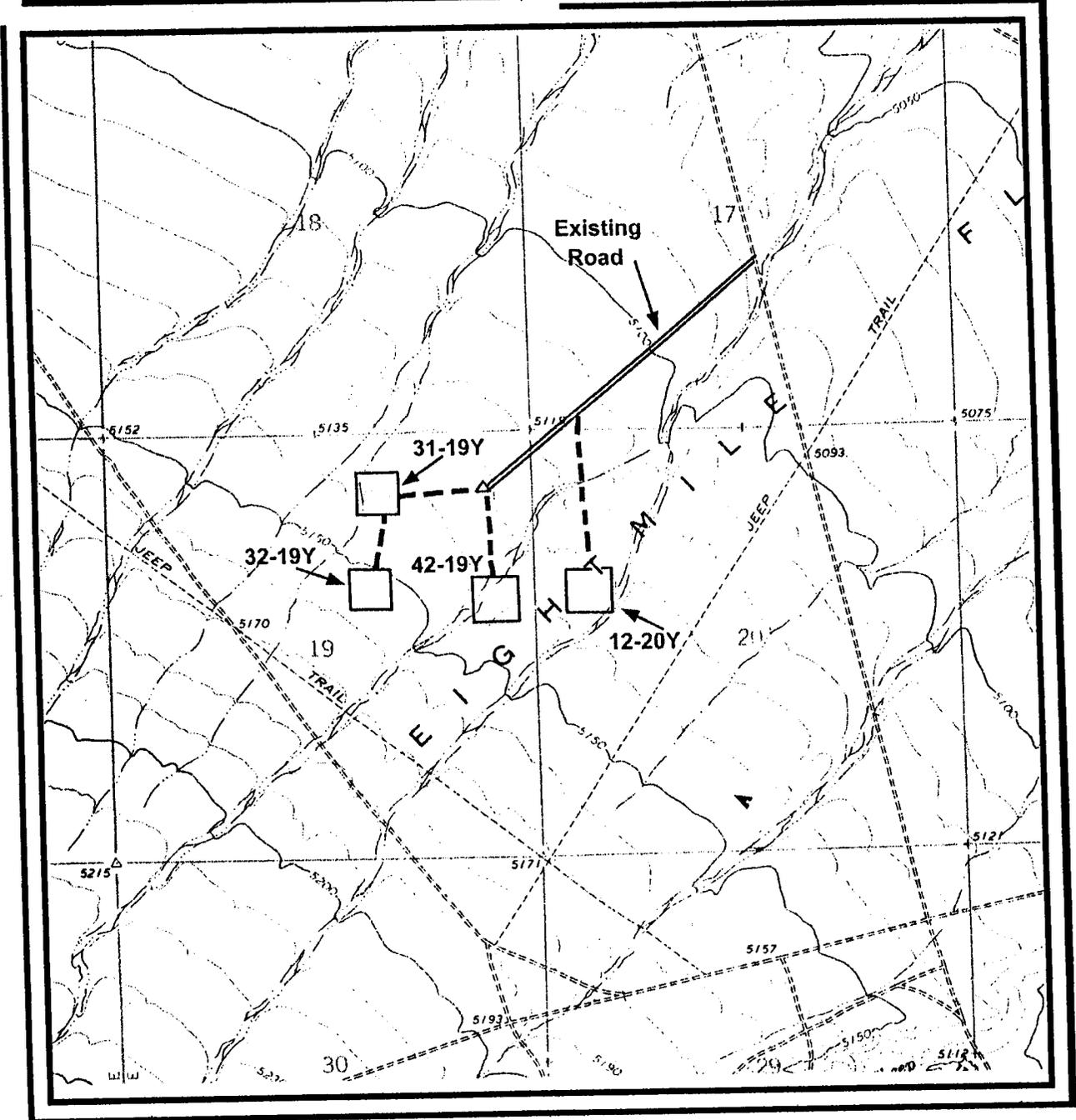
(After **PHYSIOGRAPHIC SUBDIVISIONS  
OF UTAH** by W.L. Stokes)

UTAH

Meridian: Salt Lake B & M

**MAP 2: CULTURAL RESOURCE SURVEY  
OF BALCRON UNITS 12-20Y, 31-19Y,  
32-19Y, & 42-19Y IN THE EIGHT MILE  
FLAT LOCALITY OF UINTAH COUNTY,  
UTAH**

**PROJECT: BLCR-94-10**  
**SCALE: 1:24,000**  
**QUAD: Pariette Draw SW, Utah**  
**DATE: 12-30-94**

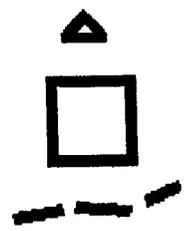


**LEGEND:**



**T. 9 South**  
**R. 18 East**  
**Meridian: Salt Lake B & M**

**Well Location**  
**Ten Acre Survey Plot**  
**Access Route**



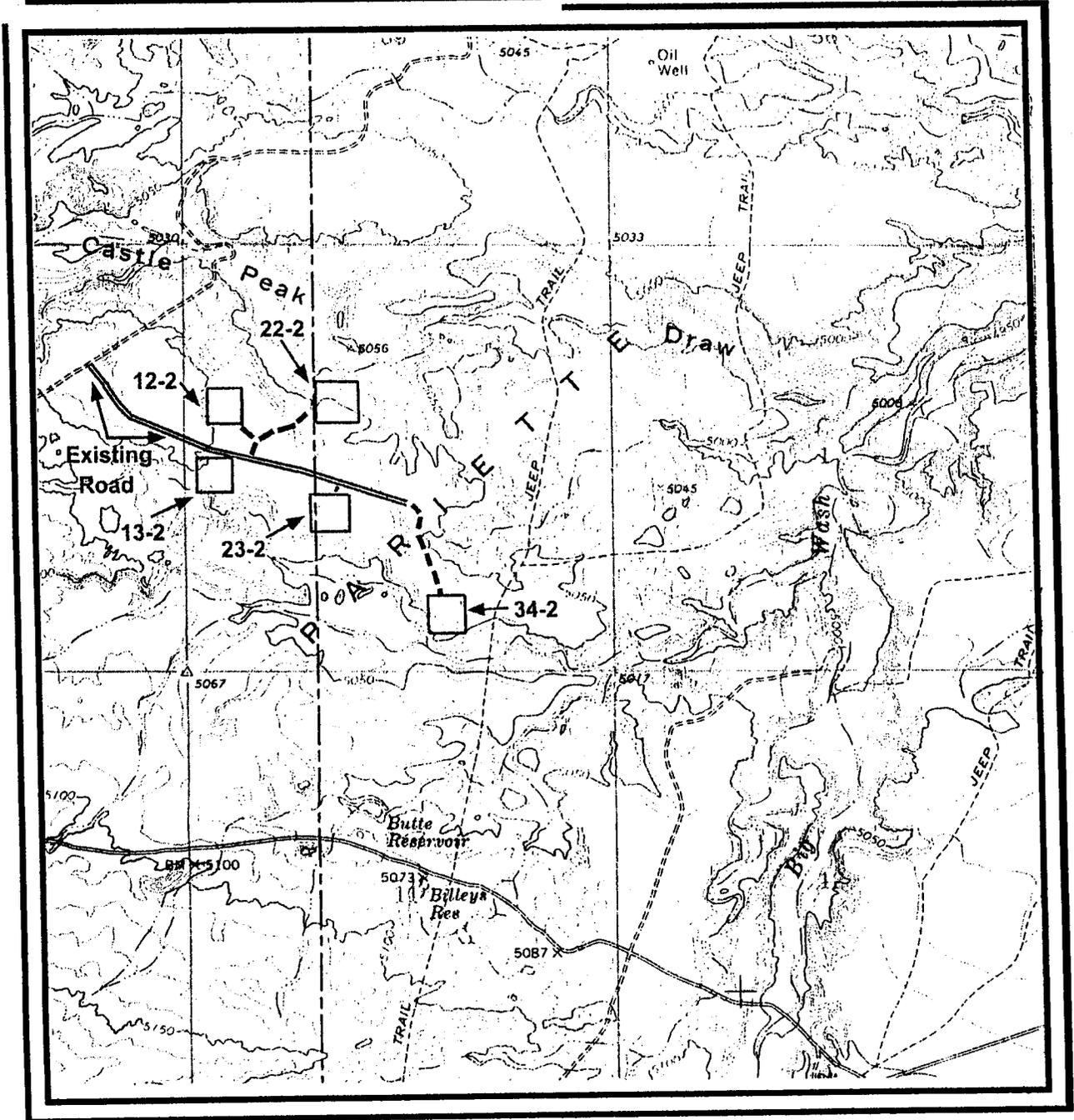
**MAP 3: CULTURAL RESOURCE SURVEY  
OF BALCRON UNITS 12-2, 13-2, 22-2,  
23-2, & 34-2 IN THE CASTLE PEAK  
DRAW LOCALITY OF DUCHESNE AND  
UINTAH COUNTIES, UTAH**

**PROJECT: BLCR-94-10**

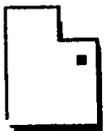
**SCALE: 1:24,000**

**QUAD: Pariette Draw SW, Utah**

**DATE: 12-30-94**



**LEGEND:**



**UTAH**

**T. 9 South**

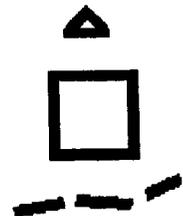
**R. 17 East**

**Meridian: Salt Lake B & M**

**Well Location**

**Survey Plot**

**Access Route**



Balcron Federal #42-19Y is situated in the SE quarter of the NE quarter of Section 19, Township 9 South, Range 18 East SLBM, together with ca. 0.3 miles of access route (see Map 2).

Balcron Monument State Unit # 13-2 is situated in the NW quarter of the SW quarter of Section 2, Township 9 South, Range 17 East SLBM (see Map 3).

Balcron Monument State Unit # 12-2 is situated in the SW quarter of the NW quarter of Section 2, Township 9 South, Range 17 East SLBM, together with .1 miles of access route (see Map 3).

Balcron Monument State Unit # 22-2 is situated in the SE quarter of the NW quarter of Section 2, Township 9 South, Range 17 East SLBM, together with .3 miles of access route (see Map 3).

Balcron Monument State Unit # 34-2 is situated in the SW quarter of the SE quarter of Section 2, Township 9 South, Range 17 East SLBM, together with .3 miles of access route (see Map 3).

Balcron Monument State Unit # 23-2 is situated in the NE quarter of the SW quarter of Section 2, 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 December 19, 1994. A similar search was conducted in the Vernal District Office of the BLM on December 12, 1994. 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).

### 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 four 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 archaeologists walking a series of 10 to 20 meter-wide transects across a 10 acre area associated with each ten acre well pad area on Federal lands, and with a seven acre well pad buffer zone on State lands. Access routes are evaluated by the archaeologists 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. 24.23 acres) was examined for the various proposed access roads, in addition to the 75 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

No prehistoric or historic cultural resource activity loci were observed and recorded during the archaeological evaluations.

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

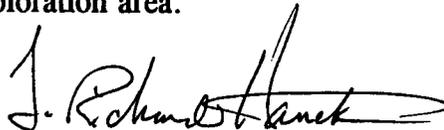
No diagnostic isolated artifacts were observed and recorded during the evaluation. Two non-diagnostic tools were noted in the area of Monument State well 23-2 and one on the access route into Monument State well 34-2. These tools were all simple choppers constructed by bifacially removing several flakes from one end of a hand-sized cobble. In all three cases, the tools were found near the break of hills at the emergence of drainages. The occurrence of these tools fits a previously noted pattern, and may be related to the ambush hunting and subsequent butchering of large game animals, possibly during the Archaic period. A detailed evaluation of the locality failed to yield any identifiable features or cultural contexts that would demonstrate the presence of an archaeological locus.

## CONCLUSION AND RECOMMENDATIONS

No known significant cultural resources will be adversely impacted during the development and operation of the 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. 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;
2. all personnel should refrain from collecting artifacts and from disturbing any significant cultural resources in the area; and
3. 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

## 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**

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- 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.
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- 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.

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.



**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)

January 11, 1995

Equitable Resources Energy Company  
P.O. Box 21017  
Billings, Montana 59104

Re: Balcron Federal #12-20Y Well, 1980' FNL, 660' FWL, SW NW, Sec. 20, T. 9 S.,  
R. 18 E., Uintah County, Utah

Gentlemen:

Pursuant to Utah Admin. R. 649-3-2, Location and Siting of Wells and Utah Admin. R. 649-3-4, Permitting of Wells to be Drilled, Deepened or Plugged-Back, approval to drill the referenced well is hereby granted.

In addition, the following specific actions are necessary to fully comply with this approval:

1. Compliance with the requirements of Utah Admin. R. 649-1 et seq., the Oil and Gas Conservation General Rules.
2. Notification to the Division within 24 hours after drilling operations commence.
3. Submittal of Entity Action Form, Form 6, within five working days following commencement of drilling operations and whenever a change in operations or interests necessitates an entity status change.
4. Submittal of the Report of Water Encountered During Drilling, Form 7.
5. Compliance with the requirements of Utah Admin. R. 649-3-20, Gas Flaring or Venting, if the well is completed for production.
6. Prompt notification prior to commencing operations, if necessary, to plug and abandon the well. Notify Frank R. Matthews, Petroleum Engineer, (Office) (801)538-5340, (Home) (801)476-8613, or K. Michael Hebertson, Reclamation Specialist, (Home) (801)269-9212.



Page 2  
Equitable Resources Energy Company  
Balcron Federal #12-20Y Well  
January 11, 1995

This approval shall expire one year after date of issuance unless substantial and continuous operation is underway or a request for an extension is made prior to the approval expiration date. The API number assigned to this well is 43-047-32617.

Sincerely,



R.J. Firth  
Associate Director

ldc  
Enclosures  
cc: Uintah County Assessor  
Bureau of Land Management, Vernal District Office  
WO11

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

**CONFIDENTIAL**

**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  
P.O. Box 21017; Billings, MT 59104

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.)\*  
At surface  
SW NW Section 20, T9S, R18E 1980' FNL, 660' FWL  
At proposed prod. zone

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE\*  
Approximately 17 miles southwest of Myton, Utah

15. DISTANCE FROM PROPOSED\* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drig. 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  
5,400'

20. ROTARY OR CABLE TOOLS  
Rotary

21. ELEVATIONS (Show whether DF, RT, GR, etc.)  
GL 5130.36'

22. APPROX. DATE WORK WILL START\*  
3/1/95

23. PROPOSED CASING AND CEMENTING PROGRAM

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

This well will be drilled 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.

JAN 17 1995

DEC 9 1994

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 geology and true vertical depths. Give blowout preventer program, if any.

24. SIGNED Bobbie Schuman TITLE Regulatory and Environmental Specialist DATE 12-7-94

(This space for Federal or State office use)

PERMIT NO. 43-047-32617

APPROVAL DATE

APPROVED [Signature] TITLE ASSISTANT DISTRICT MANAGER MINERALS

DATE JAN 12 1995

CONDITIONS OF APPROVAL, IF ANY:  
**NOTICE OF APPROVAL**

CONDITIONS OF APPROVAL ATTACHED TO OPERATOR'S COPY

UFO 80-5m-058

\*See Instructions On Reverse Side

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

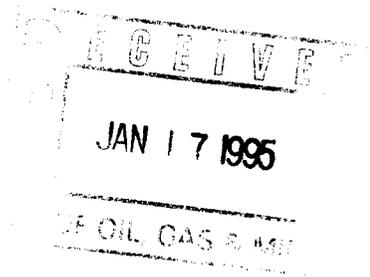
Company/Operator: Equitable Resources Energy Company

Well Name & Number: Balcron Federal 12-20Y

API Number: 43-047-32617

Lease Number: U-64917

Location: SWNW Sec. 20 T. 9S R. 18E



**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 base of the Usable Water zone identified at  $\pm$  945 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  $\pm$  745 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.

Gas meter runs for each well will be located within 500 feet of the wellhead. The gas flowline will be buried or anchored down from the wellhead to the meter and within 500 feet downstream of the meter run or any production facilities. Meter runs will be housed and/or fenced.

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 monthly for the first three months on new meter installations 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 PLAN OF OPERATION**  
Conditions of Approval (COAs)

**Methods for Handling Waste Disposal**

The reserve pit liner will be a minimum of 12 mil thickness and have sufficient bedding (straw or dirt) 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**

In addition to recontouring the reserve pit and that portion of the location not needed for production facilities and operation. These areas will also be reseeded and returned to a vegetated condition as determined by the Authorized Officer of the BLM >

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. Stockpiled topsoil will be spread over the surface, and the area revegetated to the satisfaction of the Authorized Officer of the BLM.

**Additional Surface Conditions of Approval**

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

The BLM Office shall be notified upon site completion prior to moving on the drilling rig.

If the proposed oil well is scheduled for development between March 15 and August 15, additional surveys for special status animal species will be required a minimum of 14 days prior to surface disturbance. Contact the Authorized Officer of the BLM for specific procedures.

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

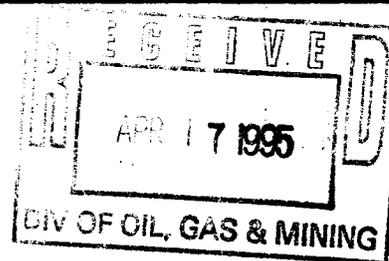
OPERATOR ACCT. NO. 11 9890

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	11758	43-047-32617	Balcron Federal #12-20Y	SW NW	20	9S	18E	Uintah	4-12-95	4-12-95
WELL 1 COMMENTS: Spud of a new well. <i>Entity added 4-18-95. See</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)



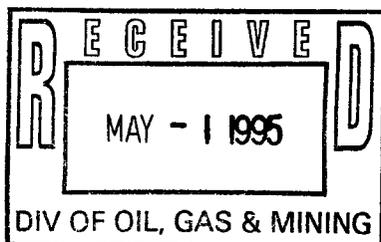
*Molly Conrad*  
 Signature  
 Operations Secretary 4-13-95  
 Title \_\_\_\_\_ Date  
 Phone No. (406) 259-7860

BALCRON OIL COMPANY

BALCRON FEDERAL #12-20Y

SW NW SECTION 20, T9S, R18E

UINTAH COUNTY, UTAH



Prepared by:

Roy L. Clement  
c/o Clement Consulting  
1907 Sligo Lane  
Billings, Montana 59106  
(406) 656-9514

Prepared for:

Dave Bickerstaff &  
Keven K. Reinschmidt  
c/o Balcron Oil Company  
Post Office Box 21017  
Billings, MT 59104  
(406) 259-7860

WELL DATA SUMMARY

OPERATOR: EREC - BALCRON OIL DIVISION

ADDRESS: Post Office Box 21017  
Billings, Montana 59104

WELL NAME: Balcron Federal #12-20Y

FIELD: Eight Mile Flat

LOCATION: 1980' FNL & 660' FWL  
SW NW SECTION 20, T9S, R18E

API#: 43-047-32617

COUNTY: Uintah

STATE: Utah

BASIN: Uinta

WELL TYPE: Development Well

BASIS OF PROSPECT: Oil Production @ Eight Mile & Monument Butte Fields

ELEVATION: GL: 5130'      SUB: 10'      KB: 5140'

SPUD DATE: April 12, 1995 @ 1600 hrs MDT

TOTAL DEPTH/DATE: 5400' on April 19, 1995

TOTAL DRILLING DAYS: 7                      TOTAL ROTATING HOURS: 134.25

STATUS OF WELL: Cased for Completion on April 20, 1995

CONTRACTOR: Union Drilling Company, Rig #17

TOOLPUSHER: Dave Gray

FIELD SUPERVISOR: Al Plunkett

MUD ENGINEER: None

MUD TYPE: Air/Foam from 0' to 3790'; KCL water from 3790' to TD

WELLSITE GEOLOGIST: Roy L. Clement

PROSPECT GEOLOGISTS: Keven K. Reinschmidt and Dave Bickerstaff  
of Balcron Oil Company

MUDLOGGERS: Bill Small and Stan Collins of Chief Well Logging

SAMPLING PROGRAM: 50' samples from 1100' to 3600'; 30' samples from  
3600' to 5400' (TD). All samples lagged and caught by

mud loggers. One dry set of samples sent to the state of Utah.

**HOLE SIZE:**

12 1/4" to 294'  
7 7/8" to TD

**CASING:**

8 5/8" surface casing set at 278'  
5 1/2" production casing to Total Depth

**DRILL STEM TEST:**

None

**CORE PROGRAM:**

None

**ELECTRIC LOGGING PROGRAM:**

- 1.) DLL//GR/CAL from 5384' - 0'
- 2.) DSN/SDL/GR/CAL from 5356' - 3100'

**LOG TOPS:**

Green River @ 1150'; Horsebench Sandstone @ 1789';  
Second Garden Gulch @ 3502'; Y-5 @ 4070'; Yellow Marker  
@ 4116'; Y-6 @ 4244'; Douglas Creek @ 4283'; R-2 @ 4358';  
Second Douglas Creek @ 4516'; Green Marker @ 4640';  
Upper G-3 @ 4661'; G-3 @ 4720'; Black Shale Facies @  
4918'; Carbonate Marker @ 5080'; B-1 @ 5110'; TD @ 5401'.

**LOGGING COMPANY:**  
**LOGGING ENGINEER:**

Halliburton  
Kurt Evatt

**CORRELATION WELL:**

- 1.) Balcron Oil  
BF #41-19Y  
Ne Ne Section 19, T9S, R18E

**DISTRIBUTION LIST:**

Balcron Oil Company  
Attn: Dave Bickerstaff & Keven K. Reinschmidt  
Post Office Box 21017  
Billings, MT 59104

Balcron Oil Company  
Attn: Dale Griffen  
P.O. Box 416  
Roosevelt, UT 84066

Yates Petroleum Corporation  
Attn: Mark Mauritsen  
105 South Fourth Street  
Artesia, NM 88210

Bureau of Land Management  
Attn: ed Forsman  
Vernal District Office  
170 South 500 East  
Vernal, UT 84078

State of Utah  
Division of Oil, Gas, and Mining  
355 W. North Temple  
3 Triad Center, Suite 350  
Salt Lake City, UT 84180

## GEOLOGIC EVALUATION

The Balcron Federal #12-20Y was a continuation of Balcron Oil's drilling program at Eight Mile Flat Field in the Uinta Basin. The field, which produces oil and gas from the Tertiary aged Green River Formation, is undergoing development on forty acre spacings. Production and recent completions in the immediate vicinity of the #12-20Y has focused primarily on the G-3 Sand unit.

Balcron Oil spudded the B.F #12-20Y at a location in Sw Nw of Section 20, T9S, R18E in Uintah County, Utah. A total depth of 5400' was achieved after seven days of drilling, at which point the B.F. #12-20Y was logged and cased for completion operations.

### Zones of Interest:

The Y-5 Sand was present at 4070' to 4090' with porosity ranging from 18-21% and slightly "dirty" gamma ray readings. This interval was penetrated with a 240 unit gas show and samples were comprised of unconsolidated sandstones with traces of dark brown oil staining.

An upper Y-6 Sand was encountered from 4172' to 4193'. Samples indicated a poorly consolidated sandstone barren of hydrocarbons and was drilled through with out any gas increases. Although porosity averages 19% in the upper Y-6, low resistivity readings in the 8 ohm range may indicated permeability to water. The lower Y-6 occurred at 4244' to 4262' with 16 to 19% porosity. A 240 unit gas increase was recorded from a poorly to fairly consolidated sandstone with traces of brown spotty oil staining.

The R-2 Sand was topped at 4358' with a total gas increase of 200 units. This interval proved to be 17' thick, consisting of poorly to unconsolidated sandstones with brown spotty oil staining and 18 to 21% porosity. A "dirty" gamma ray profile through the R-2 may indicate poor permeabilty.

Thin streaks of 14 to 17% porosity were present in the G-1 Sand interval at 4563' to 4579'. Slight gas increases were recorded from relatively tight silty sandstones.

The upper G-3 sand was present at 4662' to 4679', averaging 22% porosity with clean gamma readings across the lower 6'. A 200 unit gas show was recorded from poorly consolidated to unconsolidated sands with traces of brown oil stain. Samples also appeared slightly silty and dirty. The lower G-3 sand proved to be 26' thick with porosity ranging from 17 to 21% and had slightly "dirty" gamma ray readings with the exception of the bottom 4'. A 375 unit gas show was recorded from the lower G-3 and a slight scum of oil was noted on the reserve pit. Drill cuttings were comprised of very fine to fine grained sandstones

with brown uniform oil staining.

The B-1 sands were topped at 5110' with the upper 15' averaging 14%. A 440 unit gas increase was noted from silty to dirty sandstones with traces of brown to spotty oil stain. The lower B-1 was present from 5136' to 5153' with slightly cleaner gamma ray readings and averages 16% porosity. A 450 unit gas show was recorded from the lower B-1 from slightly silty sandstones with traces of brown spotty oil staining.

**Conclusions:**

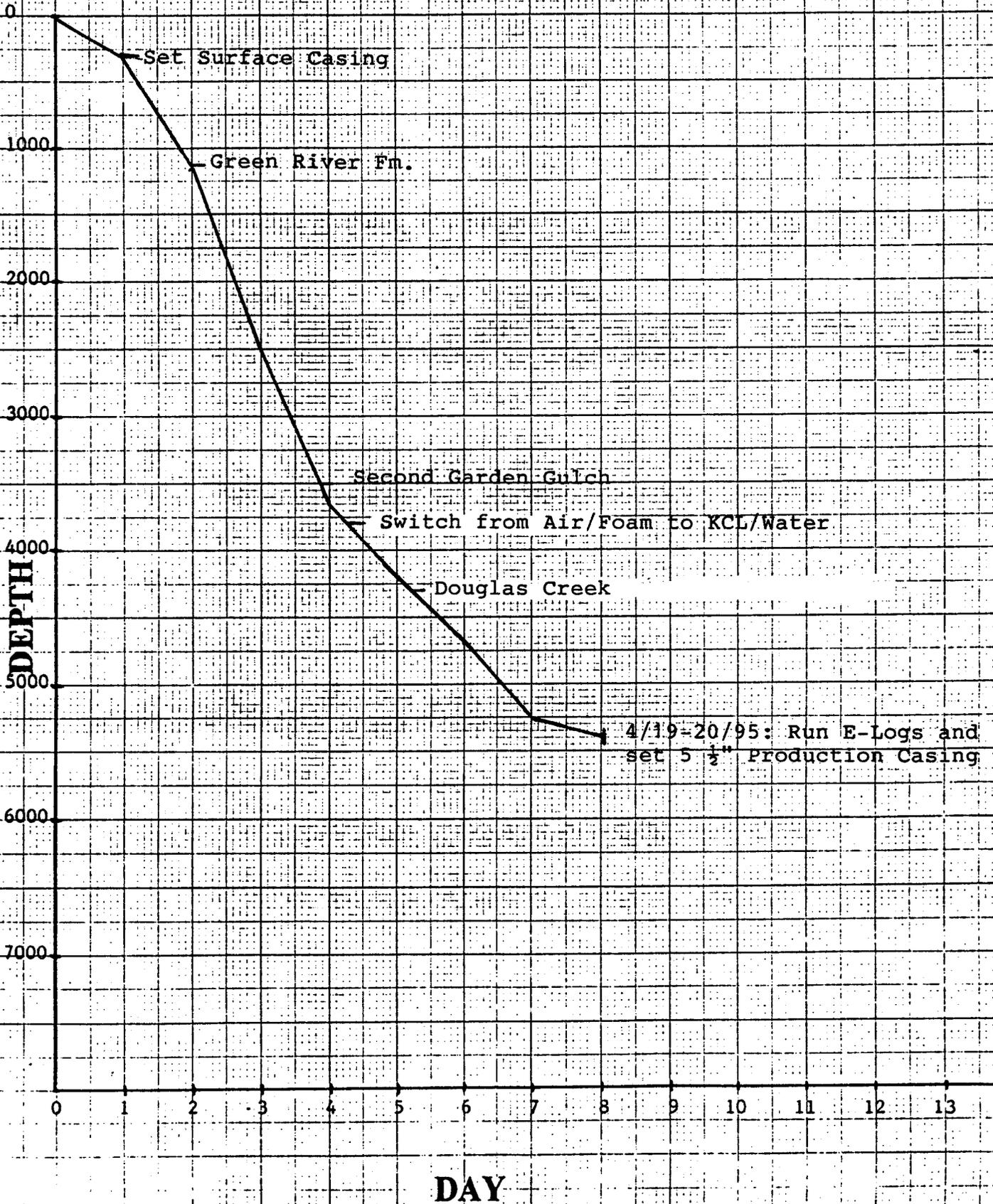
Based on log evaluations, sample examination and gas readings, the G-3 objective has the best potential for oil production at the Balcron Federal #12-20Y location. Additional pay is indicated in the Yellow, Red and Blue intervals.

Respectfully submitted,



Roy L. Clement  
Wellsite Geologist

# TIME vs DEPTH



46 1470

KEUFFEL & ESSER CO. MADE IN U.S.A.

DAILY ACTIVITY

<u>DAY</u>	<u>DATE</u>	<u>DEPTH</u>	<u>PROG</u>	<u>BIT</u>	<u>WOB</u>	<u>RPM</u>	<u>PP</u>	<u>WT*</u>	<u>VIS</u>	<u>WL</u>	<u>ACTIVITY</u>	<u>FORMATION</u>
0	4/12/95	0'	0'	1	10	20	200	Air/Foam			Rig up, Spud @ 1600 hours MDT	
1	4/13	294'	2941'	2	40	55	220	Air/Foam			Set Surface Casing	
2	4/14	1152'	858'	2	40	60	220	Air/Foam			Drill ahead	Green R.
3	4/15	2482'	1330'	2	40	60	250	Air/Foam			Drill ahead	Green R.
4	4/16	3624'	1142'	2	40	60	330	Air/Foam			Drill ahead	Green R.
5	4/17	4160'	536'	3	40	70	1000	8.5	--	n/c	Trip for bit	Yellow Z.
6	4/18	4700'	540'	3	40	70	1050	8.6	--	n/c	Drill ahead	Douglas C.
7	4/19	5255'	555'	3	40	70	1075	8.7	--	n/c	Drill to TD	Blue Zone
8	4/20	5400'	145'	3							---- Run E-Logs & set Production Casing ----	Blue Zone

\*Note: Drilled with air and foam from under surface to 3790' and switched to KCL/Water.

BIT RECORD

CONTRACTOR: UNION DRILLING, RIG #17

SPUD: 4/12/95 TOTAL DEPTH: 4/19/95 TOTAL ROTATING HOURS: 134.25

<u>BIT NO.</u>	<u>SIZE</u>	<u>TYPE/MAKE</u>	<u>JETS SIZE</u>	<u>SERIAL #</u>	<u>DEPTH OUT</u>	<u>FEET</u>	<u>HOURS</u>	<u>ACCUM HOURS</u>	<u>WOB</u>	<u>RPM</u>	<u>DEV</u>	<u>PP</u>	<u>T</u>	<u>B</u>	<u>G</u>
1	12 1/4	HUT FB	open	--	294'	294'	6.00	6.00	10	20	-	200	-	-	-
2	7 7/8	Security S88CF	24 24 24	649314	3790'	3496'	62.25	68.25	40	60	2.25 <sup>0</sup>	250	8	3	1/4
3	7 7/8	HTC ATJ-44	13 13 13	U67NT	5400'	1904'	66.00	134.25	40	70	-	1050	3	3	I

## DEVIATION SURVEYS

<u>DEPTH</u>	<u>DEVIATION</u>
1050'	1 1/4 <sup>0</sup>
1620'	1 1/2 <sup>0</sup>
2150'	2 <sup>0</sup>
3200'	2 3/4 <sup>0</sup>
3790'	2 1/4 <sup>0</sup>
4290'	2 1/4 <sup>0</sup>
4790'	1 3/4 <sup>0</sup>

FORMATION TOPS AND STRUCTURAL RELATIONSHIPS

SUBJECT WELL: Balcron Federal #12-20Y; SW NW Sec 20, T9S, R18E KB: 5140'  
OFFSET #1: BF #41-19Y; NE NE Sec 19, T9S, R18E KB: 5140'

<u>AGE and FORMATION</u>	<u>PROG</u>	<u>SAMPLE</u>	<u>E-LOG</u>	<u>DATUM</u>	<u>THICK</u>	<u>DIP TO OFFSET #1</u>
<b>TERTIARY</b>						
Uinta	Surface					
Green River	1119'	1125'	1150'	3990'	639'	+40'
Horsebench SS	1748'	1760'	1789'	3351'	1713'	+30'
2nd Garden Gulch	3495'	3510'	3502'	1638'	568'	+64'
Y-5 Sand	--	4072'	4070'	1070'	18'	Absent
Yellow Marker	4094'	4114'	4116'	1024'	128'	+49'
Y-6 Sand	--	4246'	4244'	896'	17'	Absent
Douglas Creek	4255'	4274'	4283'	857'	75'	+43'
R-2 Sand	--	4358'	4358'	782'	16'	+42
R-5 Sand	4439'	Absent	--	--	--	--
2nd Douglas Ck	4489'	4506'	4516'	624'	124'	+44'
Green Marker	4618'	4640'	4640'	500'	21'	+49'
Upper G-3 Sand	--	4664'	4661'	479'	17'	Absent
G-3 Sand	4692'	4726'	4720'	420'	24'	+43'
Black Shale F.	4867'	4902'	4918'	222'	162'	+20'
Carbonate Mkr.	5046'	5080'	5080'	60'	30'	+37'
B-1 Sand	5079'	5112'	5110'	30'	42'	+40'

REFERENCE WELL

BALCRON OIL COMPANY  
BF #41-19Y  
NE NE SEC 19, T9S, R18E  
KB: 5140'

<u>AGE and FORMATION</u>	<u>DEPTH</u>	<u>DATUM</u>	<u>THICK</u>
<b>TERTIARY</b>			
Uinta	Surface		
Green River	1190'	3950'	629'
Horsebench SS	1819'	3321'	1747'
2nd Garden Gulch	3566'	1574'	599'
Yellow Marker	4165'	975'	161'
Douglas Creek	4326'	814'	74'
R-2 Sand	4400'	740'	13'
R-5 Sand	4496'	644'	7'
2nd Douglas Creek	4560'	580'	129'
Green Marker	4689'	451'	74'
G-3 Sand	4763'	377'	38'
Black Shale Facies	4763'	202'	179'
Carbonate Marker	5117'	23'	33'
B-1 Sand	5150'	- 10'	30'

## LITHOLOGY

**NOTE:** All samples were lagged and caught by mud loggers. 50' samples were taken from 1100' to 3600' with 30' sample caught from 3600' to total depth. Additional timely samples were caught through all potential show zones and drilling breaks. Sample quality was poor to fair while drilling with the air/foam mud system. Descriptions begin at 1100' in the Uinta Formation.

1100' - 1125' Sandstone: light gray to graybrown, fine to medium grained, sub angular, poor sorting, fair consolidation and calcareous cemented in part

### Sample Top: Green River Formation @ 1125'

1125' - 1250' Shale: light brown to orangebrown, soft to firm, platy to blocky, dolomitic to marly, trace Pyrite and Dolomite: tan to cream, microcrystalline, soft, chalky, argillaceous

1250' - 1350' Sandstone: clear, light gray, very fine to fine grained, sub angular, fair sorting, unconsolidated, interbedded with Shale: brown to orangebrown, soft, platy, dolomitic

1350' - 1450' Shale: light brown to graybrown, orangebrown in part, firm, platy to blocky, calcareous to dolomitic, trace Pyrite and white to cream Calcite

1450' - 1620' Shale: light brown, tan to orangebrown, soft to firm, blocky to sub platy, calcareous to marly, silty in part, occasional interbeds of Sandstone: clear, very fine to fine grained, occasional medium grains, sub angular, poorly sorted, predominantly unconsolidated

1620' - 1760' Shale: light brown to light graybrown, orange to orangebrown, firm, blocky to sub platy, dolomitic to calcareous, trace Pyrite

### Sample Top: Horsebench Sandstone @ 1760'

1760' - 1850' Shale: light to medium brown, graybrown,

orangebrown, firm, blocky to platy, calcareous to dolomitic, silty in part, occasional interbeds of very fine grained Sandstone

1850' - 2000' Shale: light to medium brown, gray to graybrown in part, firm, blocky to sub platy, calcareous to dolomitic, marly in part, trace Pyrite and Calcite

2000' - 2090' Sandstone: light gray, clear, very fine to fine grained with occasional coarse grains, poor sorting, sub angular to sub rounded, predominantly unconsolidated, occasionally calcite cemented, micaceous, interbeds of Shale: as above

2090' - 2210' Shale: gray to graybrown, brown in part, soft, blocky to platy in part, calcareous to dolomitic, abundant Pyrite, silty in part

2210' - 2350' Shale: medium to dark brown, orangebrown, soft to firm, blocky to sub platy, calcareous to marly and grading to Limestone in part: cream to tan, microcrystalline, soft, chalky, argillaceous

2350' - 2550' Shale: medium to dark brown, graybrown in part, firm, blocky to sub platy, calcareous to marly, trace Pyrite, carbonaceous in part, trace tan to cream Limestone

2550' - 2600' Shale: light to medium brown, dark brown to graybrown in part, firm, blocky to platy, slightly calcareous, trace Pyrite, petroliferous in part, no fluorescence, occasional slow yellowwhite streaming to diffuse cut

2600' - 2650' Sandstone: light to medium gray, very fine to fine grained, sub angular to sub rounded, fair sorting, fair consolidation and calcareous cemented, silty to micaceous, trace Pyrite

2650' - 2695' Sandstone: clear, salt and peppered, fine to medium grained, sub angular, poorly

sorted, predominantly  
unconsolidated, micaceous to  
pyritic

2695' - 2800' Shale: light brown, light gray to light  
graybrown, firm, platy to blocky,  
calcareous to dolomitic, trace  
Pyrite, dark brown and  
petroliferous in part

2800' - 2890' Shale: light to medium gray, graybrown,  
firm, platy to blocky, calcareous,  
grading to siltstone in part

2890' - 3000' Shale: light brown to graybrown, soft to  
firm, blocky to platy, trace  
Pyrite, silty in part, calcareous  
to marly and grading to Limestone:  
tan to cream, microcrystalline,  
soft to firm, chalky to earthy,  
argillaceous

3000' - 3115' Limestone: cream to tan microcrystalline,  
firm, micritic to chalky, dolomitic  
to argillaceous and grading to  
Shale, abundant carbonaceous  
material

3115' - 3200' Siltstone: light to medium gray, firm to  
slightly hard, calcareous, grading  
to very fine grained Sandstone

3200' - 3280' Sandstone: clear to light brown, salt and  
peppered in part, very fine to fine  
grained, occasional medium grained,  
sub angular, poorly sorted,  
predominantly unconsolidated,  
bituminous to micaceous, silty in  
part, dull yellow fluorescence,  
slow yellowgreen diffuse to halo  
cut, slight scum of oil on pits

3280' - 3340' Siltstone: light to medium gray, graybrown,  
firm to slightly hard, calcareous,  
grading to very fine to fine  
grained Sandstone

3340' - 3425' ShALE: brown to graybrown, tan in part,  
firm, platy to blocky, silty in  
part, trace Pyrite, calcareous to  
marly and grading to Limestone: tan  
to cream, fragmental with  
occasional Ostracod fossils

3425' - 3510' Sandstone: clear to light gray, fine to medium grained, sub angular, poorly sorted, unconsolidated, micaceous to pyritic, grading to light gray Siltstone

Sample Top: Second Garden Gulch @ 3510'

3510' - 3545' Limestone: cream to buff, microcrystalline, soft, chalky to earthy, slightly argillaceous

3545' - 3630' Sandstone: clear to light gray, very fine to medium grained, sub rounded to sub angular, very poorly sorted, predominantly unconsolidated, grading to Siltstone in part

Note: 30' samples beginning @ 3600'.

3630' - 3690' Shale: light gray, graygreen to green in part, soft, blocky to platy, calcareous to marly, grading to Siltstone in part

3690' - 3790' Siltstone: light to medium gray, firm, calcareous, grading to Sandstone: light gray, salt and peppered, clear, very fine to medium grained, sub angular to sub rounded, poorly sorted, unconsolidated to poorly consolidated, calcareous cement in part, abundant Pyrite

Note: Switch from air/foam to KCL/Water at 3790' and trip for bit.

3790' - 3850' Shale: light to medium gray, graybrown, firm, blocky to platy, calcareous to silty

3850' - 3892' Sandstone: clear to gray, very fine to fine grained, sub angular to sub rounded, fair sorting, predominantly unconsolidated, grading to gray Siltstone

3892' - 4000' Shale: light to medium gray, graybrown to brown, soft to firm, platy to blocky, calcareous to marly and grading to Limestone in part, trace Pyrite, silty in part

4000' - 4072' Shale: light to medium brown, graybrown,

soft, platy, calcareous, silty and grading to Siltstone

Sample Top: Y-5 Sand @ 4072'

4072' - 4088' Sandstone: white to clear, light brown in part, very fine to fine grained, sub angular, fairly sorted, predominantly unconsolidated, trace dark brown spotty oil stain, moderate yellow fluorescence, yellowwhite streaming cut

4088' - 4114' Siltstone: light to medium gray, graybrown, firm, calcareous

Sample Top: Yellow Marker @ 4114'

4114' - 4172' Limestone: cream to buff, tan, crypto to microcrystalline, firm, dense to chalky, argillaceous and grading to Shale: gray to graybrown, firm, blocky to platy, calcareous to silty, trace Pyrite

4172' - 4192' Sandstone: clear to light graywhite, salt and peppered in part, very fine to fine grained, sub angular, fairly sorted, poorly consolidated, slightly calcareous, micaceous to pyritic, very poor visual porosity, no show

4192' - 4246' Siltstone: light to medium gray, graybrown, firm to slightly hard, calcareous, grading to Sandstone in part, trace Pyrite

Sample Top: Y-6 Sand @ 4246'

4246' - 4262' Sandstone: clear, graybrown to light brown in part, very fine to fine grained, angular to sub angular, fair sorting, poor to fair consolidation, slightly calcareous, poor intergranular porosity, trace brown oil stain and dull yellow fluorescence, moderate yellowwhite streaming cut

4262' - 4274' Siltstone: light to medium gray, graybrown, firm, calcareous

Sample Top: Douglas Creek @ 4274'

4274' - 4292' Limestone: light brown, cream, microcrystalline, firm, chalky to earthy, argillaceous and grading to Shale

4292' - 4358' Siltstone: light to medium gray, graywhite, firm, calcareous, grading to very fine grained Sandstone

Sample Top: R-2 Sand @ 4358'

4358' - 4374' Sandstone: clear to light brown in part, very fine to medium grained, sub angular, poorly sorted, poorly consolidated to unconsolidated, slightly calcareous, poor intergranular porosity, brown spotty oil stain, moderate yellow to yellowgreen fluorescence, yellowgreen streaming cut

4374' - 4440' Siltstone: light to medium gray, firm, calcareous, interbedded with Shale: gray to graybrown, firm, blocky to platy, calcareous, abundant Pyrite

4440' - 4506' Shale: gray to graybrown, brown in part, blocky to sub platy, calcareous to silty and grading to Siltstone in part, trace Pyrite and Sandstone: graywhite to gray, very fine to fine grained, sub angular, fairly sorted, poorly consolidated, calcareous cement in part, silty to pyritic

Sample Top: Second Douglas Creek @ 4506'

4506' - 4570' Shale: gray to graybrown, light brown in part, firm, blocky to platy, silty, calcareous to marly and grading to Limestone: tan to cream, microcrystalline, soft, chalky to earthy, argillaceous

4570' - 4600' Siltstone: light to medium gray, firm to slightly hard, calcareous, grading to Sandstone in part

4600' - 4640' Shale: brown to graybrown, soft to firm, blocky to platy, calcareous to carbonaceous

Sample Top: Green Marker @ 4640'

4640' - 4664' Shale: as above, marly and grading to Limestone: light brown to cream, microcrystalline, soft, chalky, argillaceous

Sample Top: Upper G-3 Sand @ 4664'

4664' - 4678' Sandstone: light gray to graybrown, brown in part, very fine to fine grained, sub angular, fairly sorted, poorly consolidated to unconsolidated in part, silty and grading to Siltstone, trace brown oil stain and dull yellow fluorescence, moderate yellowwhite streaming cut

4678' - 4726' Siltstone: light to medium gray, graybrown, firm, calcareous

Sample Top: G-3 Sand @ 4726'

4726' - 4744' Sandstone: light brown to clear, very fine to fine grained, sub angular, fair sorting, poorly consolidated to unconsolidated in part, slightly calcareous in part, poor intergranular porosity, brown uniform oil stain and slightly scum of oil on pits, moderate yellow to gold fluorescence, immediate yellowwhite streaming cut

4744' - 4800' Siltstone: light to medium gray, firm, calcareous, grading to Shale: gray to graybrown, brown in part, firm, platy to blocky, calcareous to silty, trace Pyrite

4800' - 4860' Shale: gray to graybrown, brown in part, soft to firm, blocky to platy in part, very calcareous to marly and grading to Limestone: light to medium brown, microcrystalline, soft, chalky to earthy, shaly

4860' - 4902' Shale: light to medium gray, graybrown in part, blocky to platy, calcareous to carbonaceous in part, silty

Sample Top: Black Shale Facies @ 4902'

4902' - 4956' Shale: medium to dark brown, dark graybrown, firm, brittle in part, platy to fissile in part,

calcareous to slightly marly,  
carbonaceous to petroliferous in  
part, no fluorescence, occasional  
slow yellowwhite diffuse cut

4956' - 4980' Shale: light to dark gray, graybrown in  
part, firm, blocky to platy,  
calcareous, trace Pyrite

4980' - 5080' Shale: medium to dark brown, dark  
graybrown to black, light gray and  
silty in part, firm to brittle,  
platy to blocky, calcareous,  
carbonaceous to petroliferous, no  
fluorescence, occasional slow  
yellowwhite diffuse cut

Sample Top: Carbonate Marker @ 5080'

5080' - 5112' Limestone: light brown to graybrown,  
microcrystalline, firm, chalky to  
micritic, argillaceous and grading  
to Shale: light to medium gray,  
firm, blocky, calcareous, silty,  
abundant Pyrite

Sample Top: B-1 Sand @ 5112'

5112' - 5152' Sandstone: light gray to graywhite, clear and  
light brown in part, very fine to  
medium grained, sub angular, poorly  
sorted, poorly consolidated to  
unconsolidated in part, slightly  
calcareous, very silty in part,  
very poor visual porosity, trace  
brown spotty oil stain and dull  
gold to yellow fluorescence,  
moderate yellowwhite streaming to  
diffuse cut

5152' - 5250' Siltstone: light to medium gray, graywhite,  
firm, calcareous, grading to very  
fine grained Sandstone in part

5250' - 5300' Siltstone: light to medium gray, firm to  
slightly hard, calcareous

5300' - 5400' Shale: light to medium gray, graybrown to  
brown in part, firm, platy to  
blocky, calcareous to silty, trace  
Pyrite

Note: Driller's total depth at 5400'. Circulate and  
condition hole for logging.

LOGGING REPORT

Logging Company: Halliburton    Engineer: Kurt Evatt    Date: 4/19/95

Witnessed by: Roy Clement and Al Plunkett

Driller's TD Depth:        5400'                      Logger's TD Depth:        5401'

Driller's Casing Depth:    278'                      Logger's Casing Depth:    278'

Elevation:                GL: 5130'        Sub: 10'        KB: 5140'

Mud Conditions:        Wt: 8.5        WL: no control  
                                  BHT: 140° F

Hole Conditions:        Good

Logging Time:            Time Arrived: 1400 hrs    First Tool in Hole: 1600 hrs  
                                  Last Tool Out: 2000 hrs    Time of Departure: 2200 hrs

Electric Logging Program:        1.) Dual Laterlog with Gamma Ray & Caliper from 5384' to 0'; Spectral Density Dual Spaced Neutron Gamma Ray Log and Caliper from 5356' to 3100' (tools were stacked, one logging run was made).

Log Tops:        Green River Formation @ 1150'; Horsebench Sandstone @ 1789'; Second Garden Gulch @ 3502'; Y-5 Sand @ 4070'; Yellow Marker @ 4116'; Y-6 Sand @ 4244'; Douglas Creek @ 4283'; R-2 @ 4358'; Second Douglas Creek @ 4516'; Green Marker @ 4640'; Upper G-3 Sand @ 4661'; G-3 @ 4720'; Black Shale Facies @ 4918'; Carbonate Marker @ 5080'; B-1 @ 5110'; Total Depth @ 5401'.

Zones of Interest:    Y-5 @ 4070' to 4090': 20' with 18-21% porosity, slightly 'dirty' gamma ray readings

                                  Y-6 @ 4172' to 4193': 21' averaging 19% porosity, low resistivity readings in the 8 ohm range may indicate permeability to water. 4244' to 4262': 18' with 16-19% porosity

                                  R-2 @ 4358' to 4375': 17' with 18-21% porosity; 'dirty' gamma ray profile may indicate poor permeabilty

                                  G-1 @ 4563' to 4579': thin streaks of 14-17% porosity

                                  Upper G-3 @ 4662' to 4679': 17' with 21-23% porosity, clean gamma ray profile across lower 6'.

                                  G-3 @ 4720' to 4746': 26' with 17-21% porosity; slightly dirty gamma ray readings through this zone with the exception of the lower 4'.

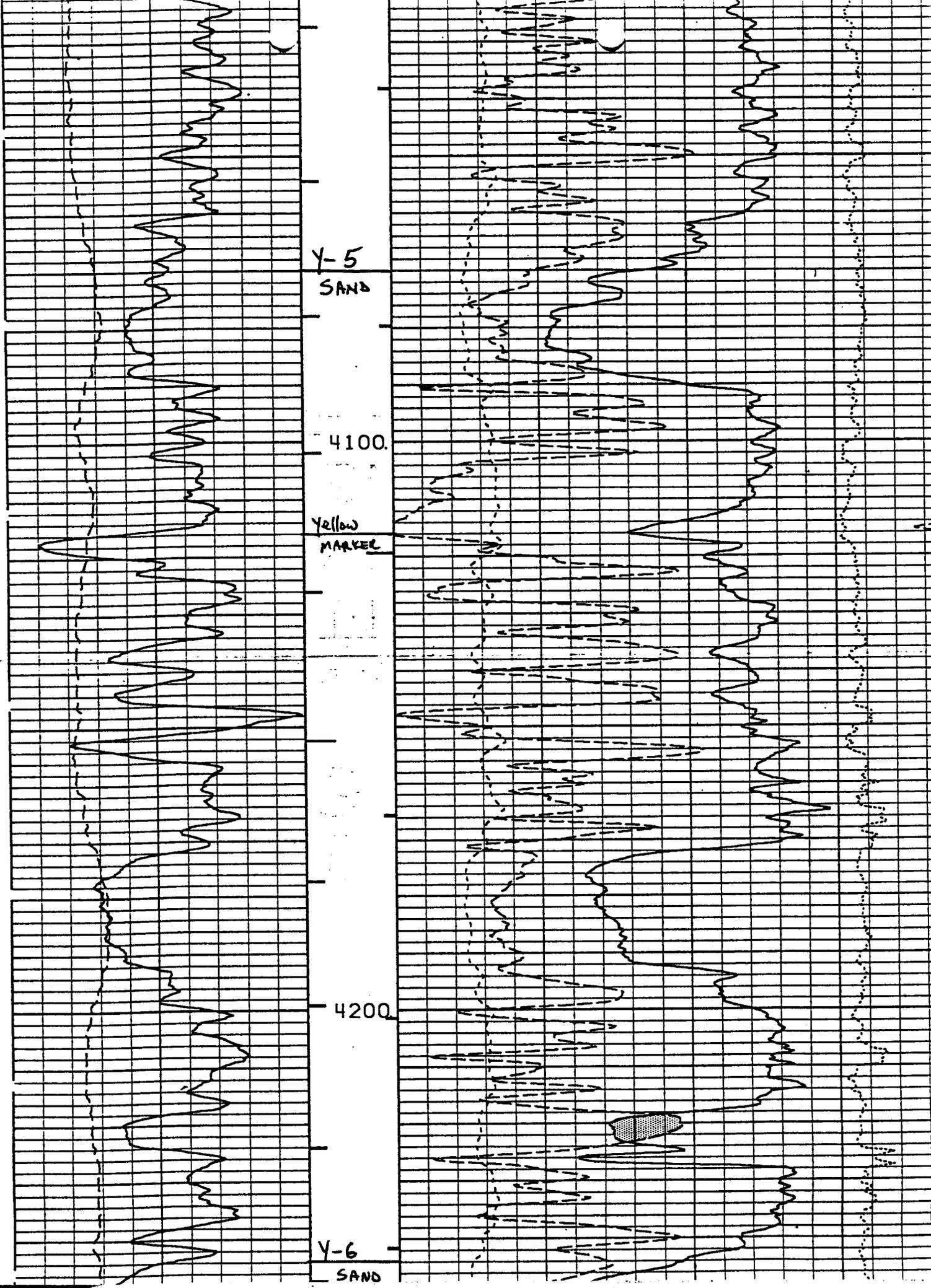
B-1 @ 5110' to 5125': 15' averaging 14% porosity, "dirty".  
5136' to 5153': 17' averaging 16% porosity, slightly "cleaner"  
than upper B-1.

**Note:** The following pages contain log excerpts over zones of interest.



SPECTRAL DENSITY  
DUAL SPACED NEUTRON

COMPANY BALCRON OIL WELL BALCRON FEDERAL 12-2 FIELD MONUMENT BUTTE COUNTY DUCHESNE STATE UT	COMPANY BALCRON OIL	
	WELL BALCRON FEDERAL 12-20V	
	FIELD MONUMENT BUTTE	
	COUNTY DUCHESNE API NO NA LOCATION SW/4 OF NW/4 1980 FNL AND 660 FHL	STATE UT OTHER SERVICES DLL
SECT 20 TWP 9S RGE 18E		
PERMANENT DATUM @ ELEV. 5130 LOG MEASURED FROM KB OR 10 FT. ABOVE PERM DATUM DRILLING MEASURED FROM KB		ELEV.: K.B. 5140 D.F. 5139 G.L. 5130
DATE	04/19/95	TIGHT HOLE
RUN NO.	ONE	
DEPTH-DRILLER	5400	
DEPTH-LOGGER	5401	
BTH. LOG INTER	5356	
TOP LOG INTER	3100	
CASING DRILLER	8.625#278	
CASING-LOGGER	278	
BIT SIZE	7.875	
TYPE FLUID IN HOLE	KCL	
DENS. : VISC.	8.5 : NC	FIELD PRINT
PH : FLUID LOSS	NC : NC	
SOURCE OF SAMPLE	FLOWLINE	
RM # MEAS. TEMP.	0.72 #59 F	
RMF # MEAS. TEMP.	NC #NC	
RMC # MEAS. TEMP.	NC #NC	
SOURCE RMF:RMC	NC : NC	
RM #BHT	0.32 #140 F	
TIME SINCE CIRC.	5 HOURS	
TIME ON BOTTOM	16:53 04/19	
MAX. REC TEMP.	140 F@TD	
EQUIP. : LOCATION	52546:VERNL	
RECORDED BY	K. EVATT	
WITNESSED BY	A. PLUNKETT R. CLEMENT	



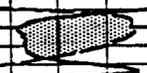
Y-5  
SAND

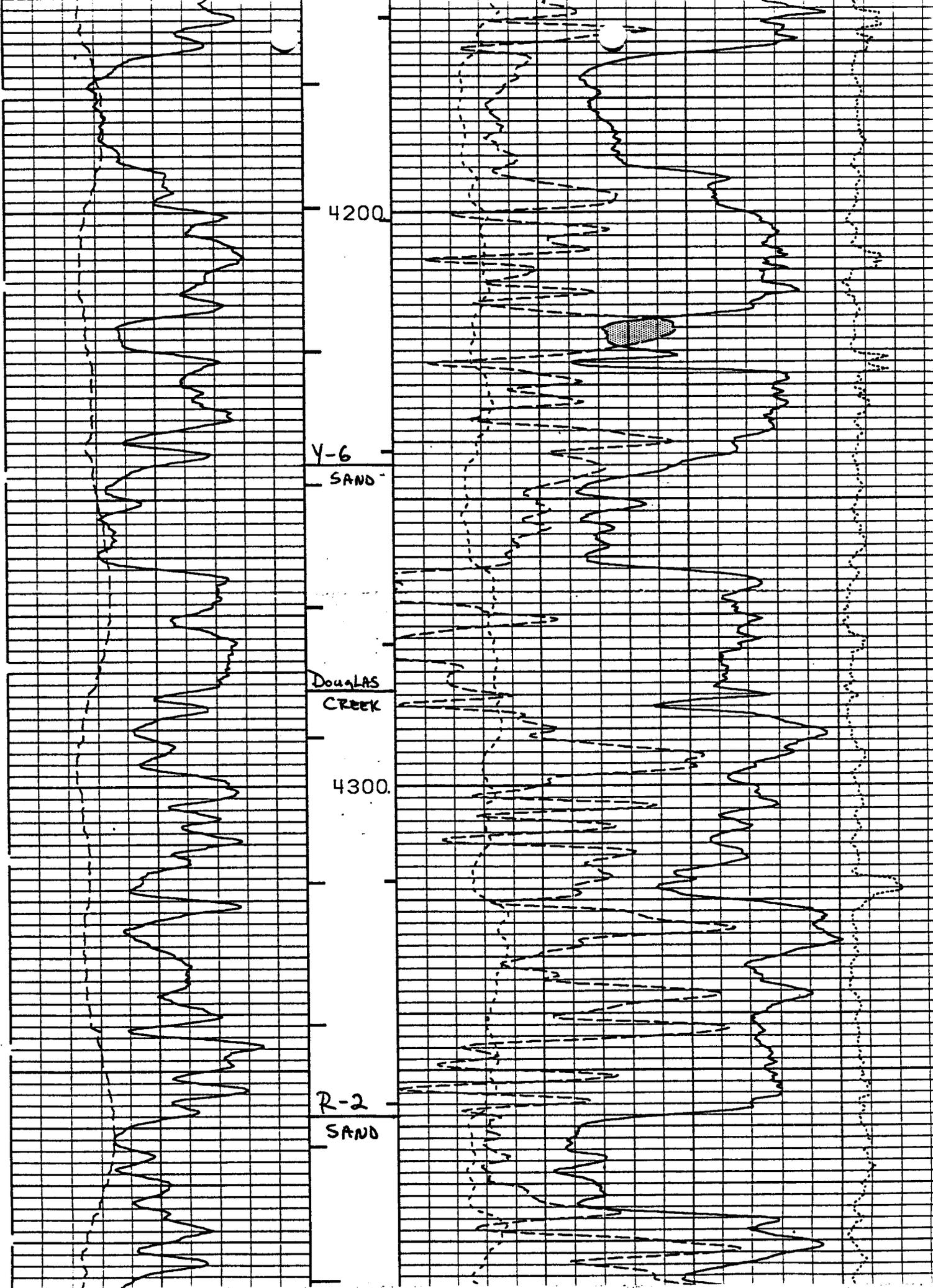
4100.

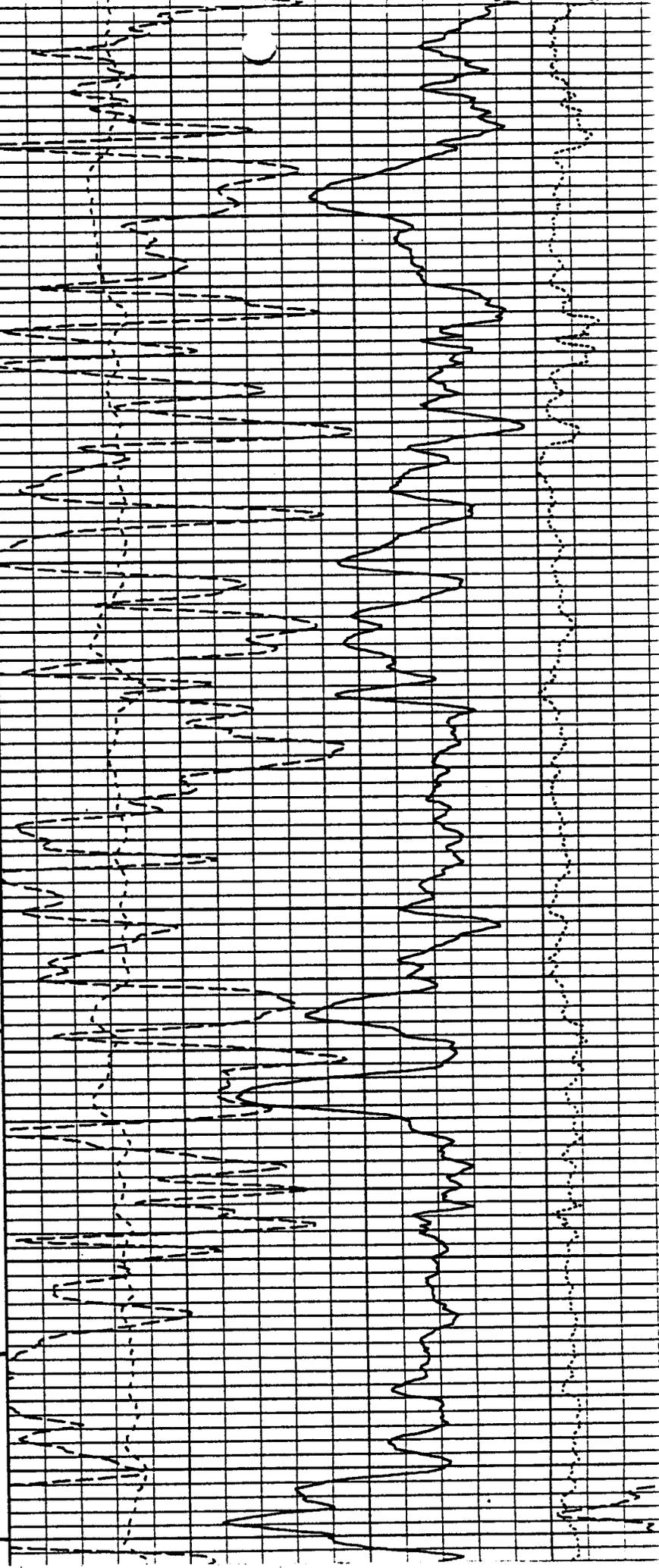
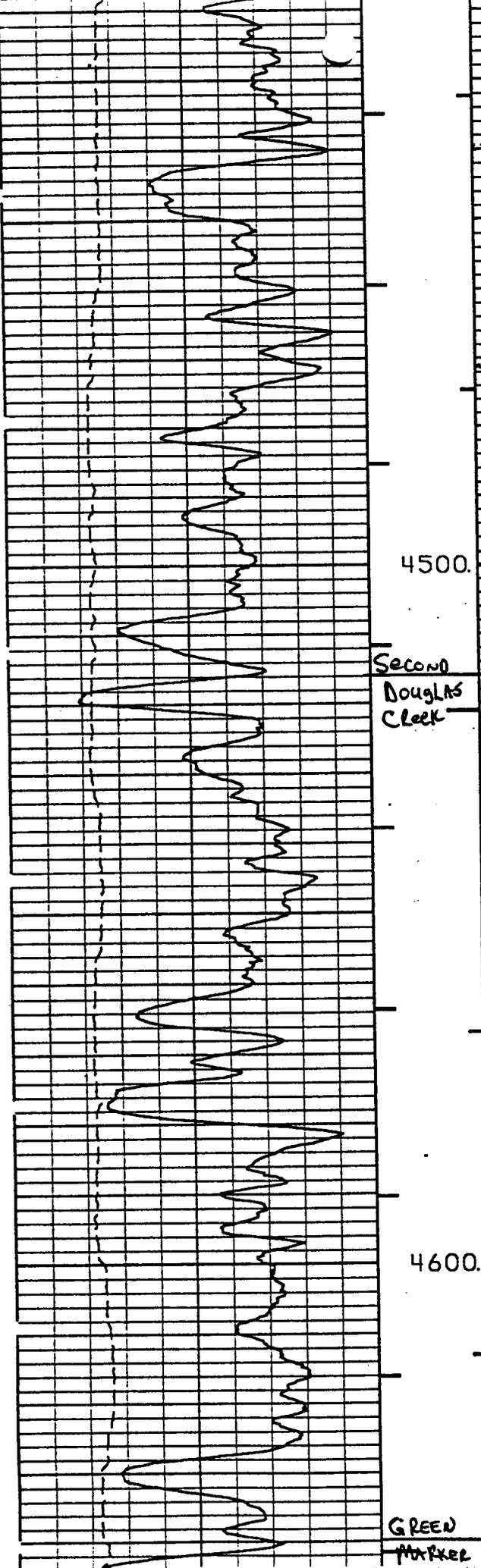
Yellow  
MARKER

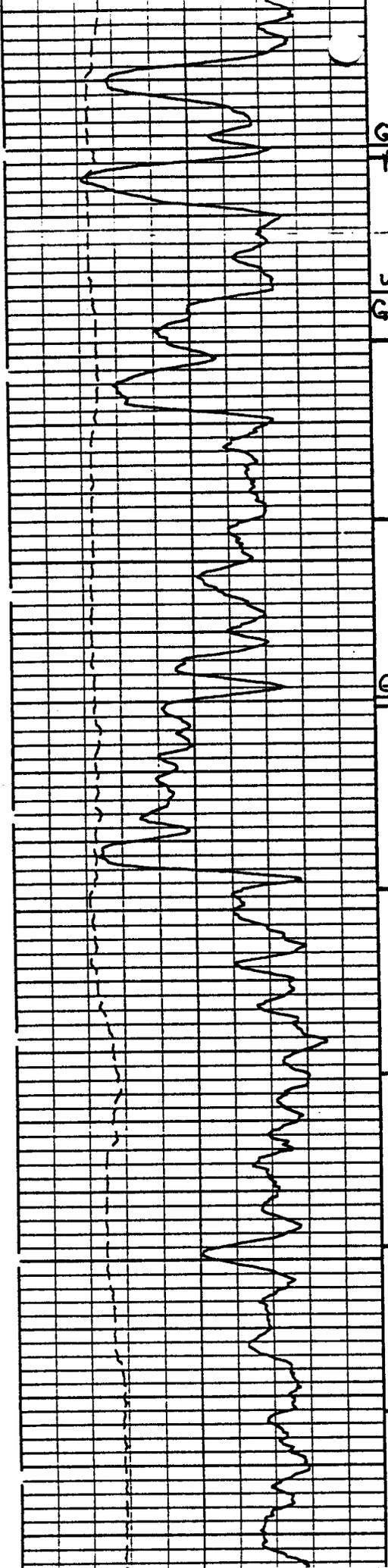
4200.

Y-6  
SAND









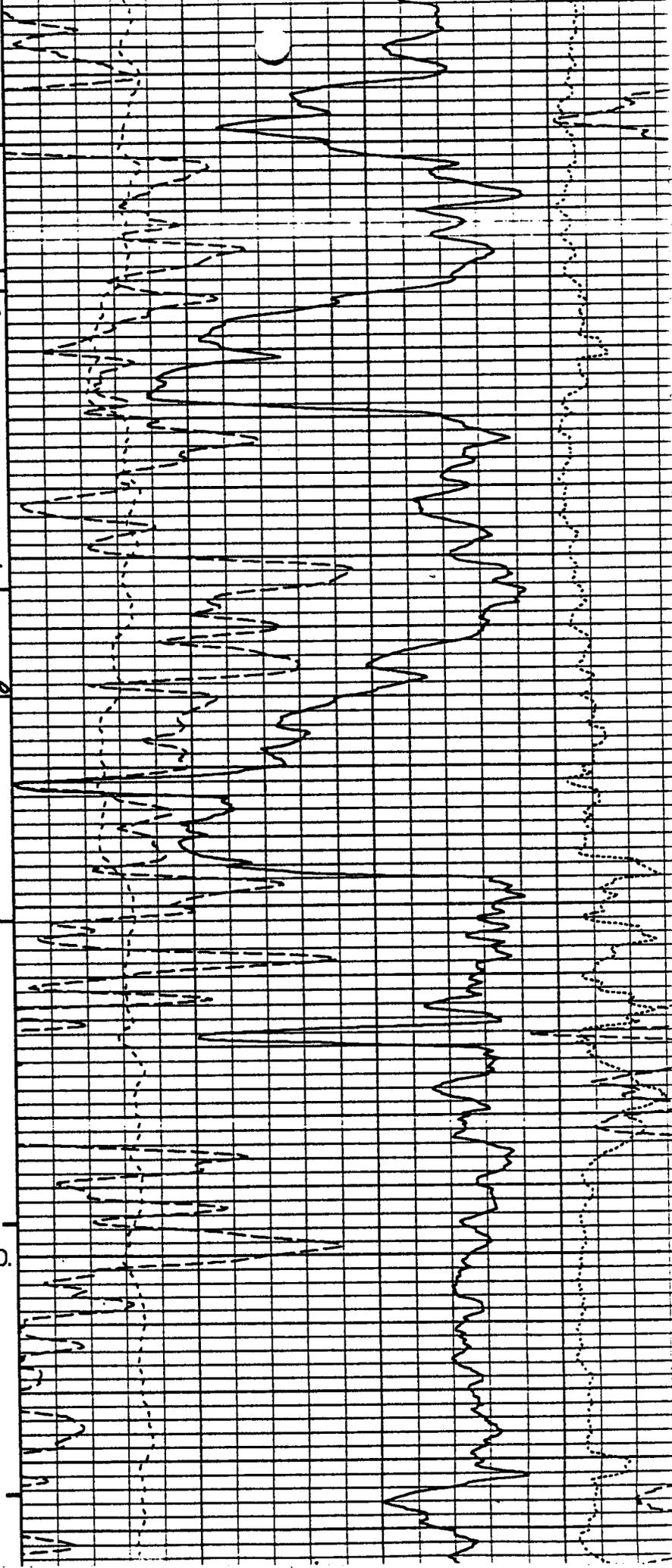
GREEN  
MARKER

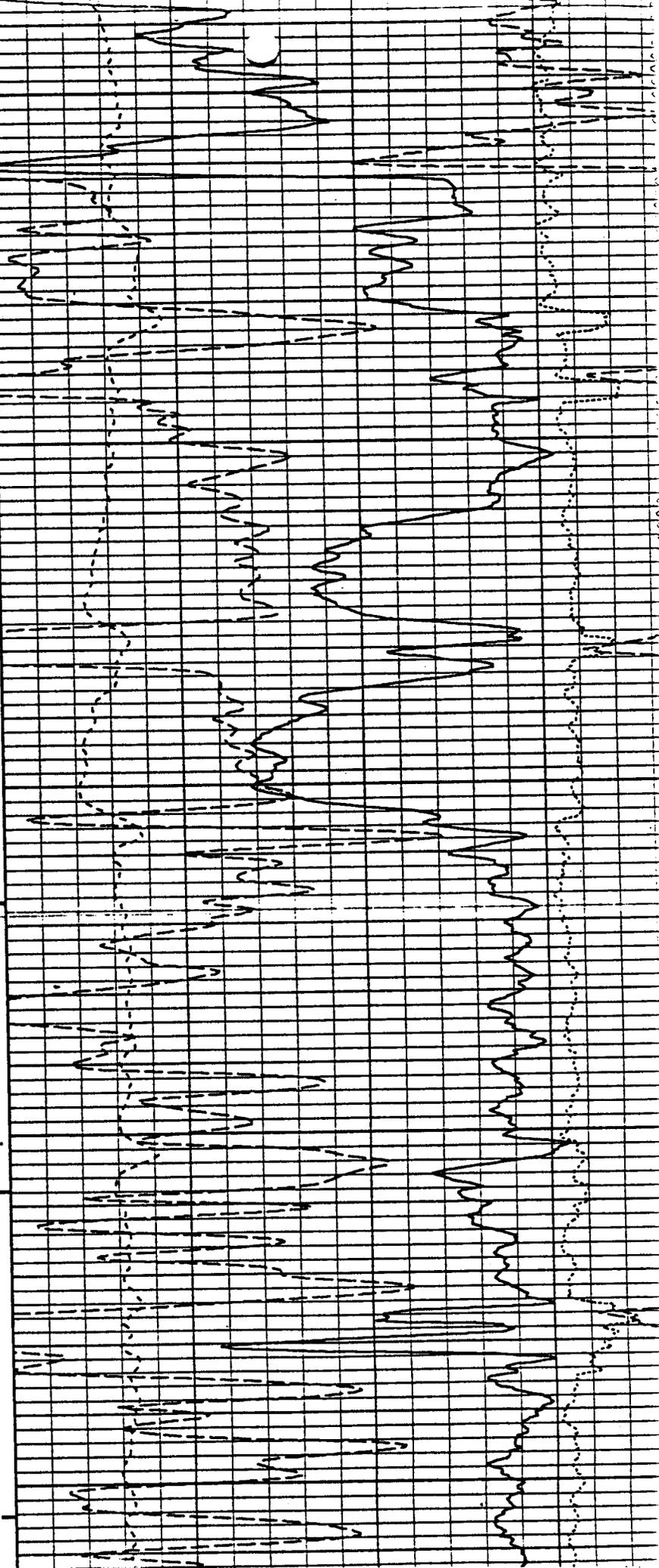
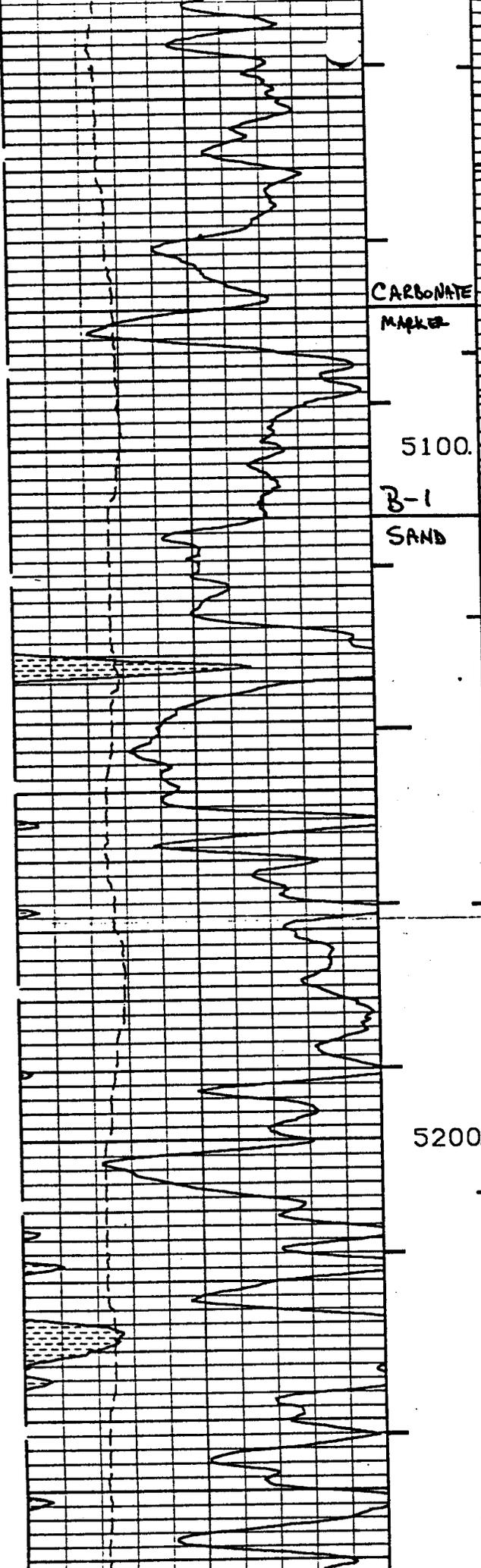
UPPER  
G-3 SAND

4700.

G-3 SAND

4800.







**EQUITABLE RESOURCES  
ENERGY COMPANY**

**BALCRON OIL DIVISION**

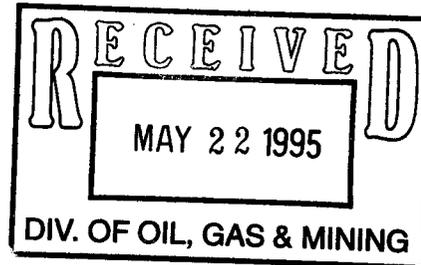
1601 Lewis Avenue  
Billings, MT 59102

**CONFIDENTIAL**

Office: (406) 259-7860

FAX: (406) 245-1365

FAX: (406) 245-1361



**April 24, 1995**

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

**Gentlemen:**

**RE: Balcron Federal #12-20Y  
SW NW Section 20, T9S, R18E  
Uintah County, Utah**

**47-047-32617**

**This letter will serve as notice that first production on the subject well was on 5-18-95 at 2:15 p.m.**

**Please feel free to contact me if you need any additional information.**

**Sincerely,**

**Molly Conrad  
Operations Secretary**

**/mc**

**cc: State of Utah, Division of Oil, Gas, & Mining  
Lou Ann Carlson  
Dawn Schindler  
Bobbie Schuman**

**CONFIDENTIAL**

047-32616

**BALCRON FEDERAL #12-19Y**

Operator: EREC/Balcron

BOD WI: 50%

Location: SE NE Section 19, T9S, R18E

---TIGHT HOLE---

Uintah County, Utah

Prospect: Eight Mile Flat

4-17-95

Present operation: Completion

RU Schlumberger to run CBL. Top of cement at 1630' KB.  
 Perf. 4724'-26', 4728'-37, 4769'-71', 4773'-75 w/4 SPF.  
 RD Schlumberger. TIH w/RPB, retrieving tool, 2-3/8" x 4'  
 sub, HD pkr, 2-3/8" x 2-7/8" crossover, 2-7/8" SN, and  
 154 jts 2-7/8" tubing. Set Bp at 4807' KB, set pkr at  
 4681' KB. RU BJ Service (Western) to break down 4724'-  
 4775' KB. See attached treatment report. TOOH w/tubing,  
 packer, and retrieving tool. RU Western to frac 4724'-  
 75'. Start forced closure flowback, .5 bbl per minute.  
 SDFN.

DC: \$53,971

CC: \$220,210

**BALCRON FEDERAL #12-20Y**

Operator: EREC/Balcron

BOD WI: 50%

Location: SW NW Section 20, T9S, R18E

---TIGHT HOLE---

Uintah County, Utah

Field: Eight Mile Flat

4/18/95

Present operation: Drilling

Depth: 4715' (542')

Formation: Green zone

Drill, survey, clean rig.

MW: 8.4, Ph 10

DC: \$8,123

CC: \$86,406



# EQUITABLE RESOURCES ENERGY COMPANY

BALCRON OIL DIVISION

1601 Lewis Avenue  
PO Box 21017  
Billings, MT 59104-1017  
(406) 259-7860

# CONFIDENTIAL

## TREATMENT REPORT

DATE OF TREATMENT: 4-17-95

Well Name BALCRON FED. 42-19Y Sec. 19 TWN. 9 S RNG. 18 E

Field EIGHT MILE FLAT County WINTAH State UT.

Formation: GREEN RIVER

Perforations: 4724-26, 4728-37, 4769-71, 4773-75

Treatment Type: KCL BREAK DOWN Total Number of Holes: 60

Treatment Company: BJ SERVICES (WESTERN) SAND CHARACTERISTICS

VOLUME		FLUID	CONC.			SIZE	SAND VOLUME	
SLURRY BBLs	CLEAN GAL		# / GAL	BPM	PSI		CALC.	ACTUAL
		/				1	#	#
			1	#	#			
			1	#	#			
			1	#	#			
			1	#	#			
			1	#	#			
			1	#	#			
			1	#	#			
			1	#	#			
			1	#	#			

TOTAL FLUID PUMPED: \_\_\_\_\_ gal. \_\_\_\_\_ % Acid Fluid  
2940 gal. 2% KCL WATER

TOTAL SAND VOLUME: \_\_\_\_\_ lbs. \_\_\_\_\_ sand  
\_\_\_\_\_ lbs. \_\_\_\_\_ sand  
\_\_\_\_\_ lbs. \_\_\_\_\_ sand

Flushed well with \_\_\_\_\_ gal. of \_\_\_\_\_  
125 ball sealers were pumped. Was ball action seen? \_\_\_\_\_

Barrels of Load to Recover 70 BLTR.

Avg. Treating Pressure = 4000 psi, max = 5000 psi, min = 2520 psi.

Avg. Treating Rate = 6.5 bpm, max = 6.5 bpm, min = 6.5 bpm.

ISIP = 1300 psi, 5 min. = \_\_\_\_\_ psi, 10 min. = \_\_\_\_\_ psi, 15 min. = \_\_\_\_\_ psi.

Well will be shut in for 0 hours before bringing back fluid.

REMARKS: PUMP 4 BALLS PER BBL.  
INITIAL BREAK AT 1.5 BPM AT 2350 PSI, BACK TO 6.5 BPM AT 2520 PSI, SURGE BALLS  
REF, PUMP FOR RATE, 7.2 BPM AT 2760 PSI Wellsite Supervisor: Dale Griffin



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

**TREATMENT REPORT**

DATE OF TREATMENT: 4-17-95

Well Name BALCRON FED. 42-19Y Sec. 19 TWN. 9S RNG. 17E  
 Field EIGHT MILE FLAT County UINTAH State UT  
 Formation: GREEN RIVER  
 Perforations: 4724-26, 4728-31, 4769-71, 4773-75

Treatment Type: SAND FRAC Total Number of Holes: 60  
 Treatment Company: BJ SERVICES (WESTERN) SAND CHARACTERISTICS

VOLUME		FLUID	CONC.			SIZE	SAND VOLUME		
SLURRY BBL	CLEAN GAL		#/GAL	BPM	PSI		CALC.	ACTUAL	
79	3300	2% KCL WATER (PAD)	0	34.6	2400	—	—	#	#
39	1500	"	2	34.5	2470	16/30	3000	#	#
141	5000	"	4	34.0	2320	16/30	20000	#	#
117	4000	"	5	33.4	2330	16/30	20000	#	#
151	5000	"	6	33.1	2290	16/30	30000	#	#
86 78	2500	"	7	33.0	2150	16/30	17500	#	#
112	4722	" (FLUSH)	0	34.1	2470	—	—	#	#
						1		#	#
						1		#	#
						1		#	#

TOTAL FLUID PUMPED: 26376 gal. 2% Acid  
26376 gal. 2% KCL WATER Fluid  
 TOTAL SAND VOLUME: 92,260 lbs. 16130 sand  
1 lbs. sand  
1 lbs. sand

Flushed well with 4722 gal. of 2% KCL WATER  
 ball sealers were pumped. Was ball action seen?                     

Barrels of Load to Recover 628 BLTR.

Avg. Treating Pressure = 2300 psi, max = 2500 psi, min. = 2150 psi.

Avg. Treating Rate = 33.9 bpm, max = 34.6 bpm, min. = 33.0 bpm.

ISIP = 2100 psi, 5 min. = 1740 psi, 10 min. = 1640 psi, 15 min. = 1520 psi.

Well will be shut in for 0 hours before bringing back fluid. 30 MW. = 1380 PSI

REMARKS: 5 BBL. TO LOAD HOLE.

START FOR CLOSURE FLOW BACK

FRAC. GRADIENT .89 Wellsite Supervisor: Dale Griffin

**CONFIDENTIAL**

DIVISION OF OIL, GAS AND MINING

SPUDDING INFORMATION

Name of Company: EQUITABLE RESOURCES

Well Name: BALCRON FEDERAL 12-20Y

Api No. 43-047-32617

Section 20 Township 9S Range 18E County UINTAH

Drilling Contractor UNION

Rig # 17

SPUDDED: Date 4/12/95

Time \_\_\_\_\_

How ROTARY

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

Reported by D. HACKFORD-DOGM

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

Date: 4/11/95 Signed: JLT

**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: 1980' FNL & 660' FWL  
 TD: SW NW Section 20, T9S, R18E

5. Lease Designation and Serial No.  
 U-64917

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

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

8. Well Name and No.  
 Balcron Federal #12-20Y

9. API Well No.  
 43-047-32617

10. Field and Pool, or Exploratory Area  
 Eight Mile Flat/Green River

11. County or Parish, State  
 Uintah 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 Site Security Diagram
	<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.

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

Signed Bobbie Schuman Title Regulatory and Environmental Specialist Date 6-19-95  
 (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 12-20Y  
 Production Facility Diagram

Balcron Federal 12-20Y  
 SW NW Sec. 20, T9S, R18E  
 Uintah County, Utah  
 Federal Lease #U-64917  
 1980' FNL, 660' 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

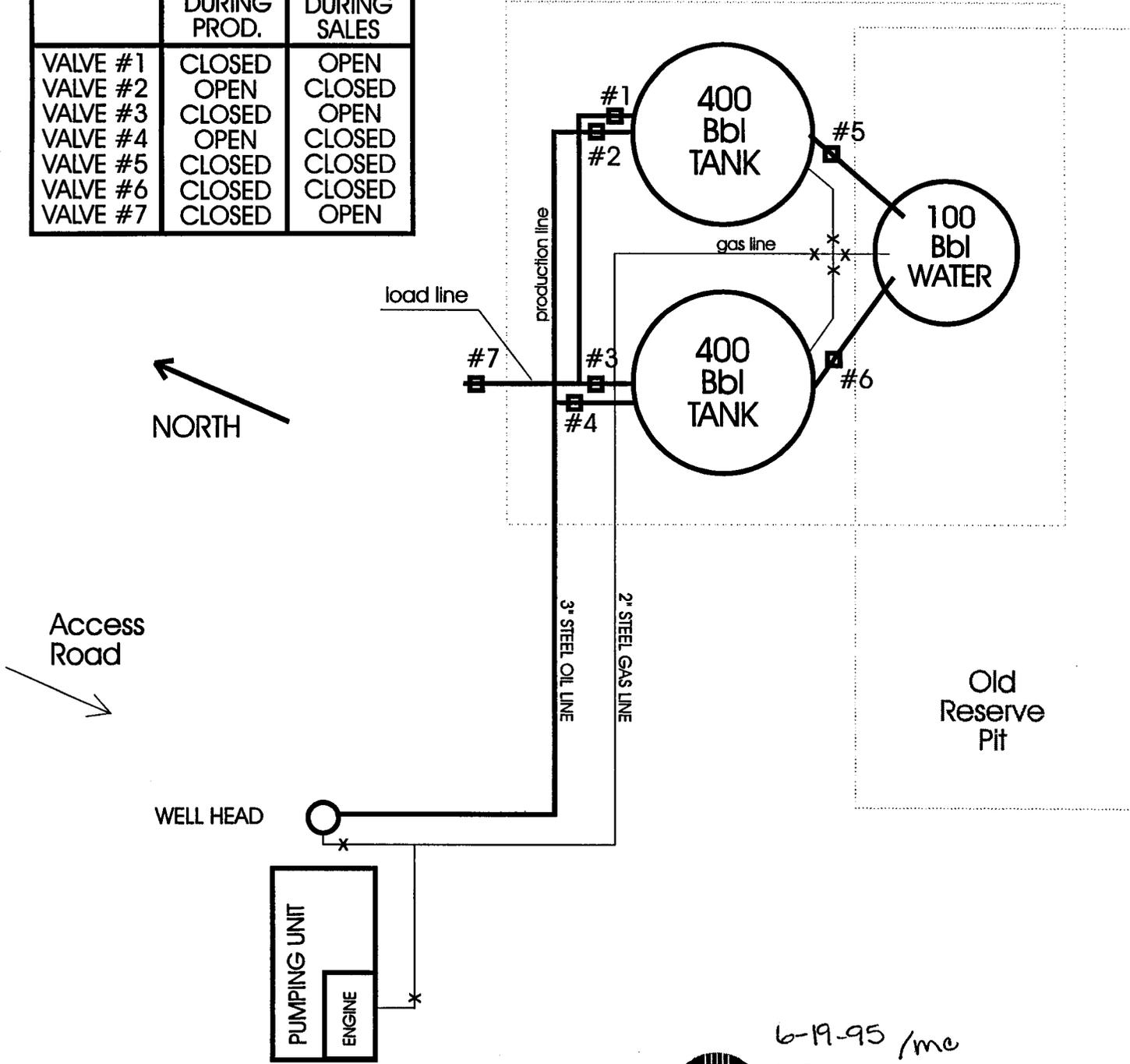


DIAGRAM NOT TO SCALE

6-19-95 /mc  
  
**EQUITABLE RESOURCES ENERGY COMPANY**  
 BALCRON OIL DIVISION  
 1601 Lewis Avenue  
 P.O. Box 21017  
 Billings, MT 59104-1017  
 (406) 259-7860

**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.  
 P.O. Box 21017; Billings, MT 59104 (406) 258-7860

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)  
 SURFACE: SW NW Section 20, T9S, R18E  
 TD: 1980' FNL & 660' FWL

5. Lease Designation and Serial No.  
**U-64917**

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

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

8. Well Name and No.  
 Balcron Federal #12-20Y

9. API Well No.  
 43-047-32617

10. Field and Pool, or Exploratory Area  
 Eight Mile Flat/Green River

11. County or Parish, State  
 Uintah County, Utah

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

TYPE OF SUBMISSION	TYPE OF ACTION
<input checked="" type="checkbox"/> Notice of intent	<input type="checkbox"/> Abandonment
<input 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 Bobbie Schuman Title Regulatory and Environmental Specialist Date 6-19-95  
 (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**

1. Well name and number: Balcron Federal #12-20Y

API number: 43-047-32617

2. Well Location: QQ SW NW Section 20 Township 9S Range 18E County Uintah

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

Address: Drawer 40  
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		
800	2900	10 to 15 gallons per minute	Not tested

6. Formation tops: See Geological Report submitted separately.

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

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: 6-19-95  
Regulatory and  
Title: Environmental Specialist

Name & Signature: Bobbie Schuman, Bobbie Schuman

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

SUBMIT IN DUPLICATE

(See 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  DEEPEN  PLUG BACK  DIFF. RENVR.  Other

2. NAME OF OPERATOR  
Equitable Resources Energy Company, Palcron 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 1980' ENL & 660' FWL  
At top prod. interval reported below  
At total depth

5. LEASE DESIGNATION AND SERIAL NO.  
U-64917

6. IF INDIAN, ALLOTTEE OR TRIBE NAME  
n/a

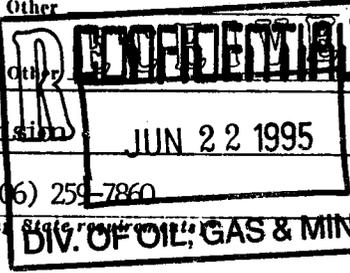
7. UNIT AGREEMENT NAME  
n/a

8. FARM OR LEASE NAME  
Palcron Federal

9. WELL NO.  
#12-20Y

10. FIELD AND POOL, OR WILDCAT  
8 Mile Flat/Green River

11. SEC., T., R., M., OR BLOCK AND SURVEY OR AREA  
SW NW Section 20, T9S, R18E



14. PERMIT NO. 43-047-32617 DATE ISSUED 1-11-95

15. DATE SPUNDED 4-12-95 16. DATE T.D. REACHED 4-20-95 17. DATE COMPL. (Ready to prod.) 5-18-95 18. ELEVATIONS (DF, RKB, RT, OR, ETC.)\* 5130.36' GL 19. ELEV. CASINGHEAD n/a

20. TOTAL DEPTH, MD & TVD 5,400' 21. PLUG, BACK T.D., MD & TVD 5332.86' 22. IF MULTIPLE COMPL., HOW MANY\* n/a 23. INTERVALS DRILLED BY → Surf - TD 24. PRODUCING INTERVAL(S), OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD)\* 5114' - 5152' Green River 25. WAS DIRECTIONAL SURVEY MADE No

26. TYPE ELECTRIC AND OTHER LOGS RUN SOL/DSN DLL CBL DRILLING LOG MUD LOG 5-1-95 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#	278.75' KB	12-1/4"	160 sxs Class "G" w/additives	None
5-1/2"	15.5#	5377.14' KB	7-7/8"	340 sxs Super "G" w/additives 202 sxs 50/50 FCZ w/additives	None

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"	5220.51' KB	n/a

31. PERFORATION RECORD (Interval, size and number)

5114' - 5124' (2 SPF)  
5137' - 5152' (2 SPF)

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

DEPTH INTERVAL (MD)	AMOUNT AND KIND OF MATERIAL USED
5114' - 5152'	Break down w/2,742 gallons 2% KCL wtr. Frac w/41,380# 20/40 mesh sand & 65,120# 16/30 mesh sand w/27,132 gallons 2% KCL gelled wtr.

33. PRODUCTION

DATE FIRST PRODUCTION 5-18-95 PRODUCTION METHOD (Flowing, gas lift, pumping—size and type of pump) 1-1/2" Insert Pump WELL STATUS (Producing or shut-in) Producing

DATE OF TEST	HOURS TESTED	CHOKE SIZE	PROD'N. FOR TEST PERIOD	OIL—BBL.	GAS—MCF.	WATER—BBL.	GAS-OIL RATIO
6-11-95	24	n/a	→	28.6l	N.M.	7	N.M.

FLOW TUBING PRESS.	CASING PRESSURE	CALCULATED 24-HOUR RATE	OIL—BBL.	GAS—MCF.	WATER—BBL.	OIL GRAVITY-API (CORR.)
n/a	n/a	→	28.6l	N.M.	7	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 Bobbie Schuman TITLE Regulatory and Environmental Specialist DATE 6-19-95

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

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

38. GEOLOGIC MARKERS

FORMATION	TOP	BOTTOM	DESCRIPTION, CONTENTS, ETC.	NAME	TOP	
					MEAS. DEPTH	TRUE VERT. DEPTH
			No DST's run.	Uinta Green River Horsebench SS 2nd Garden Gulch Y-5 Sand Yellow Marker Y-6 Sand Douglas Creek R-2 Sand 2nd. Touglass Creek Green Marker Upper G-3 Sand G-3 Sand Black Shale F. Carbonate Marker B-1 Sand	Surface 1150' 1789' 3502' 4070' 4116' 4244' 4283' 4358' 4516' 4640' 4661' 4720' 4918' 5080' 5110'	1150' 1789' 3502' 4070' 4116' 4244' 4283' 4358' 4516' 4640' 4661' 4720' 4918' 5080' 5110'

DAILY OPERATING REPORTBALCRON FEDERAL #12-20Y

Location: SW NW Section 20, T9S, R18E

Uintah County, Utah

---TIGHT HOLE---

1980' FNL &amp; 660' FWL

PTD: 5,400' Formation: Green River

Eight Mile Flat Field

Elevations: 5130.36' GL, 10' KB

Contractor: Union Drilling #17

Operator: Balcron/EREC

Spud: 4-12-95 @ 3 p.m.

Casing: 8-5/8", 24#, J-55 @ 278.75' KB

5-1/2", 15.5#, J-55 @ 5377.14'

Tubing: 2-7/8", 6.5#, J-55 @ 5220.51' KB

4-7/9-95 Build location. Install pit liner & build fence.  
 DC: \$11,247 CC: \$11,247

41-3-95 TD: 290' (290') Day 1  
 Formation: Uintah  
 MW air & mist  
 Present Operation: NU BOP  
 MIRU, drill rat hole, set conductor pipe, NU air head. Drill 12-1/4"  
 hole, TOH & run 8-5/8" csg as follows:

Guide shoe	.60'
1 jt 8-5/8", 24#, shoe jt	45.00'
Insert float	-----
5 jt 8-5/8", 24#, J-55	<u>223.15'</u>
	268.75'
Landing jt	<u>10.00'</u>
Set csg @	278.75'

Cmt by Western w/160 sxs Class "G" & 2% CCL & 1/4#/sx Cello-Seal. 4  
 bbls cmt back to pit. Plug down 12:00 midnight. WOC NU. Spud well @ 3  
 p.m. 4-12-95.  
 DC: \$11,743 CC: \$22,990

4-14-95 TD: 1,186' (896') Day 2  
 Formation: Green River  
 MW air & mist  
 Present Operation: Drilling  
 NU BOP, test BOP & manifold to 2000# - OK. Test surface pipe to 1500# -  
 OK. TIH, drill cmt, survey & drill ahead.  
 DC: \$14,166 CC: \$37,156

DAILY OPERATING REPORT

BALCRON FEDERAL #12-20Y

Location: SW NW Section 20, T9S, R18E  
Uintah County, Utah

---TIGHT HOLE---

4-15-95 TD: 2,530' (1,344') dAy 3  
Formation: Green River  
MW air & mist  
Present Operation: Drilling  
Drill, cut drilling line, drill & survey.  
DC: \$17,657 CC: \$54,813

4-16-95 TD: 3,651' (1,121') Day 4  
Formation: 2nd Garden Gulch  
MW 8.4 VIS 26 pH 10.1  
Present Operation: Drilling  
Drill, survey, & clean on rig. Started making wtr around 800'. PU more  
wtr around 2900'. BGG 150 units, CG 400 to 500 units.  
DC: \$15,034 CC: \$69,847

4-17-95 TD: 4,173' (522') Day 5  
Formation: Yellow Zone  
MW 8.4 VIS 26 pH 10.2  
Present Operation: Drilling  
Drill, load hole w/fluid, trip for bit. Drill & survey. Oil & gas show  
in yellow marker. BGG 100 to 125 units. CG 1000 to 1100 units, & TG  
2200 units.  
DC: \$8,436 CC: \$78,283

4-20-95 TD: 5,400' (130') Day 8  
Formation: Blue Zone  
MW 8.4 VIS 26 pH 10  
Present Operation: Running 5-1/2" csg.  
Drill, survey, circ for logs, TOOH & log well. TIH, LD drill pipe &  
collars, change pipe rams & test BOP to 2000# - OK. RU casers &  
starting running 5-1/2" csg.  
DC: \$15.061 CC: \$110,110

DAILY OPERATING REPORT

BALCRON FEDERAL #12-20Y

Location: SW NW Section 20, T9S, R18E  
Uintah County, Utah

---TIGHT HOLE---

4-21-95 TD: 5,400' (0') Day 9  
Formation: Green River  
Present Operation: RDMO.  
Run 5-1/2" csg as follow:  
Guide Shoe .60'  
1 jt j5-1/2", 15.5# shoe jt 42.68'  
Float Collar -----  
127 jts 5-1/2", 15.5#, J-55 5323.86'  
5368.14'  
Landing jt 9.00'  
5-1/2" csg landed @ 5377.14'  
PBSD @ 5332.86'  
Cmt by Western w/340 sxs Super "G" w/47#/sx "G", 20#/sx POZA, 17#/sx  
CSE, 3% slat, 2% gel, 2#/sx HighSeal#2 & 1/4#/sx CelloSeal. Tail w/202  
sxs 50/50 POZ & 2% gel & 1/4#/sx CelloSeal & 2#/sx HighSeal. Plug down  
@ 9:30 a.m. Set slips, ND BOP, clean mud tank & work on rig. Will move  
on Balcron Federal #41-36Y on Monday 4-24-95. Release rig @ 1:30 p.m.  
4-20-95.  
DC: \$49,964 CC: \$160,074

5-3-95 Completion  
Dress up location, seet rig anchors, set tanks & pump. MIRU Cannon Well  
Service Rig #2. NU 5M well head, NU BOP. Tally in hole w/90 jts 2-7/8"  
tbg & csg scraper.  
DC: \$1,059 CC: \$161,133

5-4-95 Completion  
Continue in hole w/bit & scraper. Tag PBSD @ 5341' KB. Circ hole clean  
w/122 bbls 2% KCL wtr. TOOH w/tbg & tools. RU Schlumberger & run CBL  
fromPBSD to 640' KB. Perf 5114'-24' & 5137'-52' (2 SPF). TOC @ 759'  
KB. SWIFN.  
DC: \$5,151 CC: \$166,284



DAILY OPERATING REPORT

BALCRON FEDERAL #12-20Y

Location: SW NW Section 20, T9S, R18E

Uintah County, Utah

---TIGHT HOLE---

5-9-95

Completion

BP @ 5170' KB. FL 700'. Flush tbg w/2 BW. Made 5 swab runs, recovered 21 BO & 6 BW (80% oil). FL @ 1200' on last run. Release packer, tag sand @ 5161' KB, circ down to BP @ 5170' KB. Release BP, TOOH w/tbg, packer, & BP. TIH w/tbg production string:

	LENGTH	DEPTH KB
1 - jt 2-7/8" 6.5#, J-55 tbg	28.29'	5220.51'
1 - perf sub 2-7/8" x 4'	4.20	5192.22'
1 - SN	1.10'	5188.02'
3 - jts 2-7/8" J-55 6.5# tbg`	88.56'	5186.92'
1 - tbg anchor 2-1/2 x 5-1/2	2.35'	5098.36'
164 - jts 2-7/8" J-55 6.5#	5086.01'	5096.01'
KB	10.00'	

ND BOP, ND 5M well head, NU 3M well head. Set tbg anchor w/12" tension.

TIH w/rod production string as follows:

1 - BHP 2-1/2" x 1-1/2" x 16' RWAC w/ pa plunger  
206 - 3/4" x 25' rods  
1 - 3/4" x 2' Pony  
1 - 1-1/4" x 22' Polish Rod

SWI & RDMO.

DC: \$1,866

CC: \$184,497

5-18-95

Start well pumping @ 2:15 p.m. 4.5 SPM, 85" stroke. Jim Walker will be pumping.



**EQUITABLE RESOURCES  
ENERGY COMPANY**

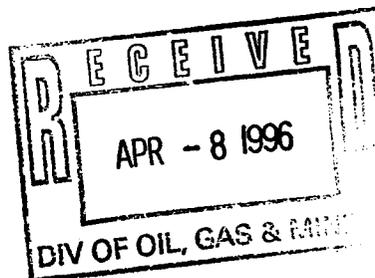
**BALCRON OIL DIVISION**

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.

1. Type of Well: OIL <input type="checkbox"/> GAS <input type="checkbox"/> OTHER: See attached listing	5. Lease Designation and Serial Number: See attached listing
2. Name of Operator: Equitable Resources Energy Company, Balcron Oil Division	6. If Indian, Allottee or Tribe Name: n/a
3. Address and Telephone Number: 1601 Lewis Avenue Avenue; Billings, MT 59102 (406) 259-7860	7. Unit Agreement Name: See attached listing
4. Location of Well Footages: See attached listing	8. Well Name and Number: See attached listing
OO, Sec., T., R., M.:	9. API Well Number: See attached listing
	10. Field and Pool, or Wildcat: See attached listing
	County: See attached list
	State: UTAH

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

NOTICE OF INTENT (Submit in Duplicate)	SUBSEQUENT REPORT (Submit Original Form Only)
<input type="checkbox"/> Abandon <input type="checkbox"/> Repair Casing <input type="checkbox"/> Change of Plans <input type="checkbox"/> Convert to Injection <input type="checkbox"/> Fracture Treat or Acidize <input type="checkbox"/> Multiple Completion <input type="checkbox"/> Other _____	<input type="checkbox"/> Abandon <input type="checkbox"/> Repair Casing <input type="checkbox"/> Change of Plans <input type="checkbox"/> Convert to Injection <input type="checkbox"/> Fracture Treat or Acidize <input checked="" type="checkbox"/> Other <u>Operator name change</u>
<input type="checkbox"/> New Construction <input type="checkbox"/> Pull or Alter Casing <input type="checkbox"/> Recomplete <input type="checkbox"/> Reperforate <input type="checkbox"/> Vent or Flare <input type="checkbox"/> Water Shut-Off	<input type="checkbox"/> New Construction <input type="checkbox"/> Pull or Alter Casing <input type="checkbox"/> Reperforate <input type="checkbox"/> Vent or Flare <input type="checkbox"/> Water Shut-Off
Approximate date work will start _____	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-LEA 7-SJ	<input checked="" type="checkbox"/>
2-DTS 8-FILE	<input checked="" type="checkbox"/>
3-VLD (GIT) 22A	<input checked="" type="checkbox"/>
4-RJE	<input checked="" type="checkbox"/>
5-LEA	<input checked="" type="checkbox"/>
6-FIM	<input checked="" type="checkbox"/>

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 <u>(406) 259-7860</u>
account no. <u>N9890</u>

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

Name: <u>**SEE ATTACHED**</u>	API: <u>047-32617</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**

- Yec 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.
- Yec 5. Changes have been entered in the Oil and Gas Information System (Wang/IBM) ~~for each well listed above.~~ (4-10-96)
- Yec 6. Cardex file has been updated for each well listed above. (4-11-96)
- Yec 7. Well file labels have been updated for each well listed above. (4-11-96)
- Yec 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)
- Yec 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) Sebeco Ins. Co. (Bond Riders 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.
- 4/22/96
- DTS 2. Copies of documents have been sent to State Lands for changes involving State leases.  
Sent to Ed Bonner - Trust Lands

**FILMING**

- 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**

9/6/04/0 BLM/BIA "Formal approval not necessary"

**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:

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

UTAH ACCOUNT NUMBER: N9890

REPORT PERIOD (MONTH/YEAR): 3 / 96

AMENDED REPORT  (Highlight Changes)

Well Name API Number      Entity      Location	Producing Zone	Well Status	Days Oper	Production Volumes		
				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: \_\_\_\_\_

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

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

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

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

UTAH - ALL

Balcron Coyote Fed. #42-6X	Coyote Basin	SE NE	6	8S	25E	Uintah	UT	OSI	Green River	U-017439-B	43-047-32346	1987' FNL, 682' FEL	Vernal	Coyote Basin
Balcron Coyote Fed. #44-6	Coyote Basin	SE SE	6	8S	25E	Uintah	UT	PND	Green River	U-017439B	43-047-32421	560' FSL, 760' FEL	Vernal	Coyote Basin
Balcron Federal #12-20Y	8 Mile Flat N.	SW NW	20	9S	18E	Uintah	UT	Oil	Green River	U-64917	43-047-32617	1980' FNL, 660' FWL	Vernal	
Balcron Federal #12-22Y	8 Mile Flat N.	SW NW	22	8S	17E	Duchesne	UT	Oil	Green River	U-66191	43-013-31476	2105' FNL, 660' FWL	Vernal/Priv.sfc.	
Balcron Federal #21-13Y	Monument Butte	NE NW	13	9S	16E	Duchesne	UT	Oil	Green River	U-64805	43-013-31400	703' FNL, 1831' FWL	Vernal	
Balcron Federal #21-25Y	Monument Butte	NE NW	25	9S	16E	Duchesne	UT	Oil	Green River	U-64380	43-013-31994	500' FNL, 1980' FWL	Vernal	
Balcron Federal #21-9Y	Monument Butte	NE NW	9	9S	16E	Duchesne	UT	Oil	Green River	U-65207	43-013-31396	476' FNL, 2051' FWL	Vernal	
Balcron Federal #22-10Y	Monument Butte	SE NW	10	9S	17E	Duchesne	UT	Oil	Green River	U-65210	43-013-31395	1980' FNL, 1980' FWL	Vernal	
Balcron Federal #24-3Y	Monument Butte	SE SW	3	9S	17E	Duchesne	UT	Oil	Green River	U-64381	43-013-31397	562' FSL, 1887' FWL	Vernal	
Balcron Federal #31-14Y	Undesignated	NW NE	14	9S	19E	Uintah	UT	PND	WASATCH	U-66193		500' FNL, 2740' FWL	Vernal/Priv.sfc.	
Balcron Federal #31-19Y	8 Mile Flat N.	NW NE	19	9S	18E	Duchesne	UT	Oil	Green River	U-65635	43-047-32614	660' FNL, 1880' FEL	Vernal	
Balcron Federal #31-5Y	8 Mile Flat N.	NW NE	5	9S	18E	Uintah	UT	Oil	Green River	U-65970	43-047-32503	660' FNL, 1980' FEL	Vernal	
Balcron Federal #32-19Y	8 Mile Flat N.	SW NE	19	9S	18E	Uintah	UT	Oil	Green River	U-65635	43-047-32615	1980' FNL, 1980' FEL	Vernal	
Balcron Federal #41-19Y	Monument Butte	NE NE	19	9S	17E	Duchesne	UT	Oil	Green River	U-65967	43-047-32504	660' FSL, 660' FEL	Vernal	
Balcron Federal #41-21Y	Monument Butte	NE NE	21	9S	16E	Duchesne	UT	Oil	Green River	U-64379	43-013-31382	970' FNL, 894' FEL	Vernal	
Balcron Federal #42-19Y	8 Mile Flat N.	SE NE	19	9S	18E	Uintah	UT	Oil	Green River	U-65635	43-047-32616	2100' FNL, 500' FEL	Vernal	
Balcron Federal #44-14Y	Monument Butte	SE SE	14	9S	17E	Uintah	UT	Oil	Green River	U-64806	43-047-32438	1008' FSL, 832' FEL	Vernal	
Balcron Federal #44-4Y	8 Mile Flat N.	SE SE	4	9S	17E	Duchesne	UT	Oil	Green River	U-65635	43-013-31452	660' FNL, 660' FEL	Vernal	
Balcron Monument Fed. #11-10-9-17Y		NW NW	10	9S	17E	Duchesne	UT	PND	Green River				Vernal	
Balcron Monument Fed. #11-20-9-18Y	Monument Butte	NW NW	20	9S	18E	Uintah	UT	OIL	Green River	U-64917	43-047-32712	500' FNL, 500' FWL	Vernal	
Balcron Monument Fed. #11-22-8-17Y	Monument Butte	NW NW	22	8S	17E	Duchesne	UT	OIL	Green River	U-66191	43-013-31539	635' FNL, 658' FWL	Vernal	
Balcron Monument Fed. #11-25	Monument Butte	NW NW	25	8S	17E	Uintah	UT	Oil	Green River	U-67845	43-047-32455	739' FNL, 648' FWL	Vernal	
Balcron Monument Fed. #11-6	Monument Butte	NW NW	6	9S	17E	Duchesne	UT	WW	Green River	U-020252-A	43-013-31362	804' FNL, 696' FWL	Vernal	Jonah
Balcron Monument Fed. #11-7J	Monument Butte	NW NW	7	9S	17E	Duchesne	UT	COMPL-WW	Green River	U-44426	43-013-31492	681' FNL, 447' FWL	Vernal	Jonah
Balcron Monument Fed. #12-10-9-17Y	Monument Butte	SW NW	10	9S	17E	Duchesne	UT	COMPL	Green River	U-65210	43-013-31536	1994' FNL, 618' FWL	Vernal	Jonah
Balcron Monument Fed. #12-11J	Monument Butte	SW NW	11	9S	16E	Duchesne	UT	WW	Green River	U-096550	43-013-31417	2128' FNL, 689' FWL	Vernal	Jonah
Balcron Monument Fed. #12-12J	Monument Butte	SW NW	12	9S	16E	Duchesne	UT	WW	Green River	U-096550	43-013-31410	739' FNL, 648' FWL	Vernal	Jonah
Balcron Monument Fed. #12-14J	Monument Butte	SW NW	14	9S	16E	Duchesne	UT	PND	Green River	U-096547	43-013-31488	2004' FNL, 658' FWL	Vernal	Jonah
Balcron Monument Fed. #12-17	Monument Butte	SW NW	17	9S	17E	Duchesne	UT	Oil	Green River	UTU-72106	43-013-31431	1980' FNL, 660' FWL	Vernal	Beluga
Balcron Monument Fed. #12-25	Undesignated	SW NW	25	8S	17E	Uintah	UT	Oil	Green River	U-67845	43-047-32526	1486' FNL, 875.7' FWL	Vernal	
Balcron Monument Fed. #12-7J	Monument Butte	SW NW	7	9S	17E	Duchesne	UT	Oil	Green River	U-44426	43-013-31493	1965' FNL, 620' FWL	Vernal	Jonah
Balcron Monument Fed. #13-11J	Monument Butte	NW SW	11	9S	16E	Duchesne	UT	Oil	Green River	U-096547	43-013-15790	1819' FSL, 658' FWL	Vernal	Jonah
Balcron Monument Fed. #13-5	Monument Butte	NW SW	5	9S	17E	Duchesne	UT	WW	Green River	U-020252	43-013-31370	1980' FSL, 660' FWL	Vernal	Jonah
Balcron Monument Fed. #13-8	Monument Butte	NW SW	8	9S	17E	Duchesne	UT	Oil	Green River	UTU-74108	43-013-31382	2080' FSL, 694' FWL	Vernal	Beluga
Balcron Monument Fed. #14-11	Monument Butte	SW SW	11	9S	16E	Duchesne	UT	WW	Green River	U-096547	43-013-31374	1048' FSL, 446' FWL	Vernal	Jonah

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

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

5. Lease Designation and Serial No.  
U-64917

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

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

8. Well Name and No.  
Balcron Federal #12-20Y

9. API Well No.  
43-047- 32617

10. Field and Pool, or Exploratory Area  
8 Mi. Flat N./Grn River

11. County or Parish, State  
Uintah 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

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)  
SW NW Sec. 20 - T9S - R18E  
1980' FNL, 660' FWL

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

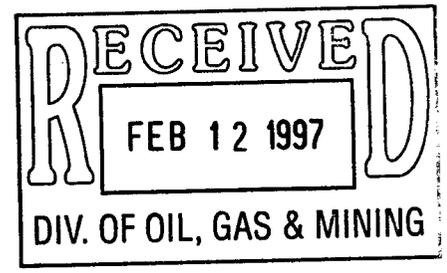
TYPE OF SUBMISSION	TYPE OF ACTION
<input type="checkbox"/> Notice of Intent	<input type="checkbox"/> Abandonment
<input checked="" type="checkbox"/> Subsequent Report	<input type="checkbox"/> Recompletion
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Plugging Back
	<input type="checkbox"/> Casing Repair
	<input type="checkbox"/> Altering Casing
	<input checked="" type="checkbox"/> Other <u>site facility 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 a copy of the revised site facility diagram for this well.

ORIGINAL: Bureau of Land Management (Vernal, UT)  
COPY: Utah Division of Oil, Gas and Mining



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

Signed Robbie Schuman Title Regulatory and Environmental Specialist Date February 10, 1997

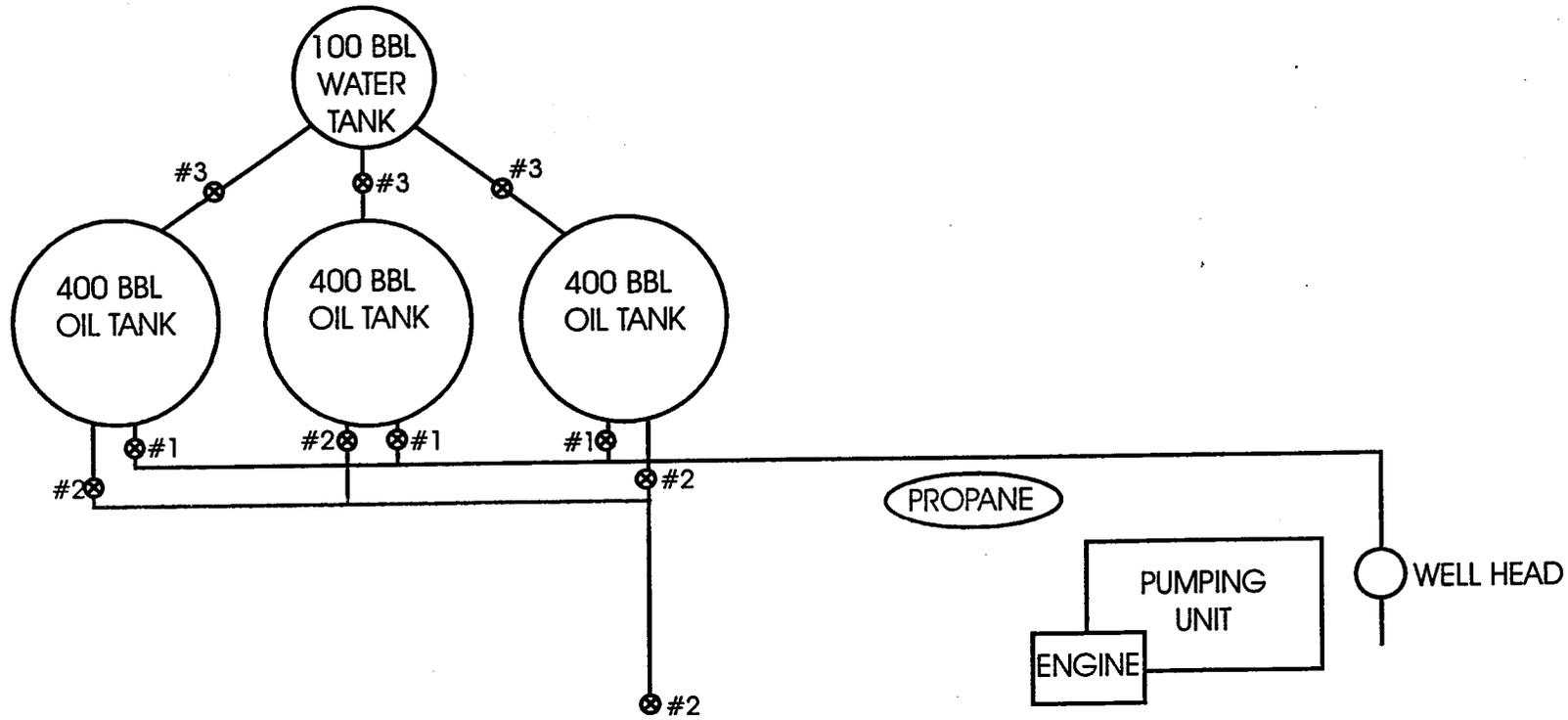
(This space for Federal or State office use)

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

Conditions of approval, if any:

EQUITABLE RESOURCES ENERGY COMPANY  
 BALCRON FEDERAL 12-20Y  
 PRODUCTION FACILITY DIAGRAM

BALCRON FEDERAL 12-20Y  
 SW NW SEC. 20, T9S, R18E  
 Uintah County, Utah  
 FEDERAL LEASE #U-64917



VALVE DESCRIPTION		
	DURING PROD.	DURING SALES
VALVE #1	OPEN	CLOSED
VALVE #2	CLOSED	OPEN
VALVE #3	CLOSED	CLOSED



DIAGRAM NOT TO SCALE



PLAN LOCATED AT:

**EQUITABLE RESOURCES  
 ENERGY COMPANY**  
 WESTERN REGION

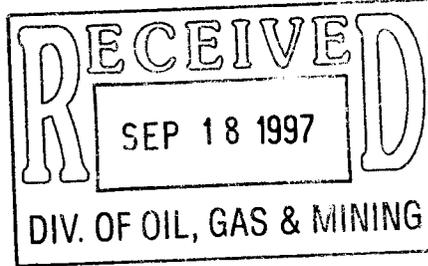
1601 Lewis Avenue  
 Billings, MT 59102  
 (406) 253-7160

DECEMBER 13, 1996



**ERI**

**Equitable Resources Energy Company**  
**Western Region**  
1601 Lewis Avenue  
Billings, MT 59102



43-047-32617

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

September 3, 1997

Mr. Raymond Arnold  
Bureau of Land Management  
Vernal Field Office  
170 South 500 East  
Vernal, Utah 84078-2799

Dear Mr. Arnold:

RE: Eight Mile Flat /All Wells  
Sections 19 and 20, T9S, R18E  
Uintah County, Utah  
Vented Gas Volume Calculations

In accordance with your request the gas volumes vented since start up of the Eight Mile Flat wells have been recalculated using the following criteria:

- 1) At start up of the Eight Mile Flat wells it was necessary to supplement fuel gas with propane. Therefore the vented gas to oil ratio was assumed to be zero for the first 30 days of production.
- 2) The vented gas to oil ratio from the first GOR test is applied back to the date of 30 day production due to the lack of better data.
- 3) The vented GOR is assumed to increase or decrease linearly between additional GOR tests.

Please refer to the individual daily production spreadsheets for each well and the summary of gas vented for the wells in the Eight Mile Flat Field. If there are any further questions please contact me at our Billings, Montana office (406-259-7860).

Respectfully,

John Zellitti  
District Production Engineer

Attachments

cc: Utah Division of Oil, Gas and Mining



**EQUITABLE RESOURCES**  
**ENERGY COMPANY**  
**WESTERN REGION**

**Summary Of Gas Vented**

**Eight Mile Flat Field**  
Sections 19 & 20, T9S, R18E  
Uintah County, Utah

Well Name	Date Of First Production	Average Vented GOR (MSCF/STB)	Cum. Oil Production (STBO)	Calculated Gas Vented From Start Up Of Well (MSCF)
Balcron Federal #41-19Y	8/23/94	5.1363	33,114	46,784
Balcron Federal #31-19Y	4/21/95	2.2055	12,638	14,237
Balcron Federal #42-19Y	4/29/95	3.3734	19,865	36,135
Balcron Federal #12-20Y	5/18/95	2.4710	22,114	27,110
Monument Federal #32-19Y	6/19/95	0.3339	5,566	2,320
Balcron Federal #11-20Y	11/24/95	5.1764	15,068	70,226
Balcron Federal #22-20Y	12/7/95	0.0000	1,180	0
Monument Federal #43-19Y	4/30/96	3.1657	5,004	10,872
Total Gas Vented			114,549	207,684

The gas to oil ratio is calculated using the volume of gas vented and the 30 day average oil production for the day that the gas test was performed ( I.e This is a vented GOR and does not include gas used on lease).

The vented GOR is assumed to be zero for the first 30 days of production due to propane usage to suppliment fuel gas. The vented GOR of the first gas test is applied back to the date of 30 day production and is then assumed to increase or decrease linearly between gas tests.



**EQUITABLE RESOURCES  
ENERGY COMPANY**  
WESTERN REGION

**Summary Of Gas Tests**

**Eight Mile Flat Field**  
Sections 19 & 20, T9S, R18E  
Uintah County, Utah

Well Name	Date Of First Production	Date Of Gas Test	Orifice (Inches)	Casing Pressure (Psig)	Vented Gas (MSCFPD)	30 Day Average Oil Production (STBOPD)	Vented GOR (MSCF/STB)	
Balcron Federal #41-19Y	8/23/94	9/21/95	1/4	15	39	36.98	1.0546	
		12/23/96	1/8	72	37	9.18	4.0305	
		2/27/97	1/8	80	41	4.91	8.3503	
		3/22/97	1/4	19	46	6.47	7.1097	
								Average GOR:
Balcron Federal #31-19Y	4/21/95	9/20/95	1/8	35	21	21.43	0.9799	
		2/20/97	1/8	30	19	7.93	2.3960	
		3/22/97	1/8	35	21	6.48	3.2407	
								Average GOR:
Balcron Federal #42-19Y	4/29/95	9/19/95	1/4	45	80	47.32	1.6906	
		11/26/96	1/8	73	37	13.43	2.7550	
		2/19/97	1/4	25	55	10.82	5.0832	
		3/22/97	1/4	13	36	9.08	3.9648	
								Average GOR:
Balcron Federal #12-20Y	5/18/95	9/21/95	1/4	16	41	62.86	0.6522	
		11/20/96	1/8	72	37	15.79	2.3433	
		2/19/97	1/8	87	43	12.65	3.3992	
		3/21/97	1/8	82	41	11.75	3.4894	
								Average GOR:
Monument Federal #32-19Y	6/14/95	9/20/95	1/8	0	0	11.91	0.0000	
		11/27/96	1/8	8	8	5.99	1.3356	
		2/20/97	1/8	0	0	4.61	0.0000	
		3/23/97	1/8	0	0	3.55	0.0000	
								Average GOR:
Balcron Federal #11-20Y	11/24/95	11/20/96	1/8	50	90	16.94	5.3129	
		2/19/97	1/4	38	73	15.24	4.7900	
		3/21/97	1/4	36	70	12.90	5.4264	
								Average GOR:
Balcron Federal #22-20Y	12/7/95	Well is not venting gas, uses gas from the #12-22Y for fuel.						
Monument Federal #43-19Y	4/30/96	11/21/96	1/8	63	33	11.74	2.8109	
		2/20/97	1/4	12	24	8.88	2.7027	
		3/23/97	1/4	9	29	7.28	3.9835	
								Average GOR:

The gas to oil ratio is calculated using the volume of gas vented and the 30 day average oil production for the day that the gas test was performed ( i.e This is a vented GOR and does not include gas used on lease).  
The GOR is assumed to increase or decrease linearly between gas tests.



**EQUITABLE RESOURCES  
ENERGY COMPANY**  
WESTERN REGION

**Payout Calculations**

**Eight Mile Flat Field  
Gas Gathering System**

Total estimated cost of gas gathering system from Eight Mile Flat wells to EREC's Monument Butte Gas Plant = \$215,765.00

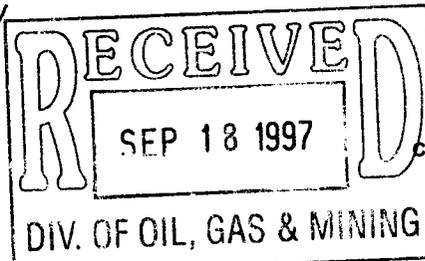
$$\begin{aligned}
 \text{Payout} &= \frac{\text{Project Cost}}{(\text{Gas Volume})(\text{Sales Price})(\text{NRI}) - \text{Operating Costs}} = \frac{\$215,765.00}{(\text{Gas Volume})(\$1.50/\text{mscf})(0.825) - \$0.50/\text{mscf}} \\
 &= \frac{\$215,765.00}{\text{Gas Volume}((\$1.50/\text{mscf})(0.825) - \$0.50/\text{mscf})} = \frac{\$215,765.00}{(\text{Gas Volume})(\$0.7375/\text{mscf})} \\
 &= \frac{\$292,562.70 \text{ (mscf)}}{\text{Gas Volume (mscfpd)}}
 \end{aligned}$$

Gas Volume (mscfpd)	Payout (Days)	Payout (Years)
25	11703	32.06
50	5851	16.03
75	3901	10.69
100	2926	8.02
125	2341	6.41
150	1950	5.34
175	1672	4.58
200	1463	4.01
225	1300	3.56
250	1170	3.21
275	1064	2.91
300	975	2.67
325	900	2.47
350	836	2.29
375	780	2.14
400	731	2.00



**EQUITABLE RESOURCES  
ENERGY COMPANY**  
WESTERN REGION

Daily Production History



Balcron Federal #12-20Y  
SW NW Sec.20, T9S, R18E  
Uintah County, Utah

Calculation Of Vented Gas

Date	OIL PROD	WATER PROD	OIL 30 DAY AVG	CUM-OIL PROD	COMMENTS	Vented GOR (MSCF/STBO)	Gas Vented Using GOR (MSCFPD)	Cum. Gas Vented (MSCF)
05/18/95					Start Well			
05/19/95	0.00	69.07		0				
05/20/95	0.00	67.40		0				
05/21/95	38.99	55.08		39		0.000000	0	0
05/22/95	65.08	20.00		104		0.000000	0	0
05/23/95	65.00	15.00		169		0.000000	0	0
05/24/95	53.37	20.00		222		0.000000	0	0
05/25/95	59.50	23.33		282		0.000000	0	0
05/26/95	80.23			362		0.000000	0	0
05/27/95	75.02			437		0.000000	0	0
05/28/95	35.02	29.99		472		0.000000	0	0
05/29/95	41.68	15.00		514		0.000000	0	0
05/30/95	19.97	23.32		534		0.000000	0	0
05/31/95	33.32	6.66		567		0.000000	0	0
06/01/95	31.65	8.34		599		0.000000	0	0
06/02/95	46.85			646		0.000000	0	0
06/03/95	28.38			674		0.000000	0	0
06/04/95	30.71			705		0.000000	0	0
06/05/95	29.98			735		0.000000	0	0
06/06/95	20.00			755		0.000000	0	0
06/07/95	25.00	13.33		780		0.000000	0	0
06/08/95	21.66	11.67		801		0.000000	0	0
06/09/95	25.51	3.33		827		0.000000	0	0
06/10/95	52.54			879		0.000000	0	0
06/11/95	18.32	6.66		898		0.000000	0	0
06/12/95	23.32	5.00		921		0.000000	0	0
06/13/95	13.32	8.33		934		0.000000	0	0
06/14/95	10.83	14.99		945		0.000000	0	0
06/15/95	19.99	4.99		965		0.000000	0	0
06/16/95	25.83			991		0.000000	0	0
06/17/95	23.33			1014		0.000000	0	0
06/18/95	0.00	6.67		1014		0.000000	0	0
06/19/95	20.00		34.48	1034		0.000000	0	0
06/20/95	23.34		33.96	1058	30 day production	0.000000	0	0
06/21/95	13.34	6.66	32.23	1071	Assume Gas Venting Starts.	0.652200	9	9
06/22/95	19.99		30.73	1091		0.652200	13	22
06/23/95	19.99		29.62	1111		0.652200	13	35
06/24/95	15.00		28.14	1126		0.652200	10	45
06/25/95	18.32		26.07	1144		0.652200	12	57
06/26/95	6.66		23.80	1151		0.652200	4	61
06/27/95	0.00		22.63	1151		0.652200	0	61
06/28/95	33.33	10.00	22.35	1184		0.652200	22	83
06/29/95	21.67	1.66	22.41	1206		0.652200	14	97
06/30/95	19.99		21.96	1226		0.652200	13	110
07/01/95	19.99		21.57	1246		0.652200	13	123
07/02/95	21.65		20.73	1268		0.652200	14	137
07/03/95	23.30		20.56	1291		0.652200	15	152
07/04/95	15.01		20.04	1306		0.652200	10	162
07/05/95	16.65	1.67	19.60	1323		0.652200	11	173
07/06/95	16.66		19.48	1339		0.652200	11	184
07/07/95	19.99		19.32	1359		0.652200	13	197
07/08/95	19.99		19.26	1379		0.652200	13	210
07/09/95	11.67	6.66	18.80	1391		0.652200	8	217
07/10/95	0.00	19.97	17.05	1391		0.652200	0	217
07/11/95	15.84		16.97	1407		0.652200	10	228
07/12/95	19.98		16.86	1427		0.652200	13	241
07/13/95	21.66		17.13	1448		0.652200	14	255
07/14/95	12.06		17.17	1460		0.652200	8	263
07/15/95	11.66		16.90	1472		0.652200	8	270
07/16/95	10.00		16.37	1482		0.652200	7	277
07/17/95	3.34		15.70	1485		0.652200	2	279
07/18/95	0.00		15.70	1485	Recompletion	0.652200	0	279

Date	OIL PROD	WATER PROD	OIL 30 DAY AVG	CUM. OIL PROD	COMMENTS	Vented GOR (MSCF/STBO)	Gas Vented Using GOR (MSCFPD)	Cum. Gas Vented (MSCF)
07/19/95	0.00		15.04	1485		0.652200	0	279
07/20/95	0.00		14.26	1485	60 day production	0.652200	0	279
07/21/95	48.34		15.42	1534		0.652200	32	310
07/22/95	0.00	56.67	14.76	1534		0.652200	0	310
07/23/95	0.00	50.00	14.09	1534		0.652200	0	310
07/24/95	33.33	50.01	14.70	1567		0.652200	22	332
07/25/95	60.01	33.32	16.09	1627		0.652200	39	371
07/26/95	61.64	19.99	17.93	1689		0.652200	40	412
07/27/95	93.75		21.05	1783		0.652200	61	473
07/28/95	56.63	33.31	21.83	1839		0.652200	37	510
07/29/95	58.29	10.00	23.05	1897		0.652200	38	548
07/30/95	79.97	11.66	25.05	1977		0.652200	52	600
07/31/95	111.64	9.99	28.10	2089		0.652200	73	673
08/01/95	71.15	11.67	29.75	2160		0.652200	46	719
08/02/95	86.63		31.86	2247		0.652200	57	776
08/03/95	96.63		34.58	2343		0.652200	63	839
08/04/95	83.75	13.33	36.82	2427		0.652200	55	893
08/05/95	11.70		36.66	2439		0.652200	8	901
08/06/95	83.30	8.33	38.77	2522		0.652200	54	955
08/07/95	91.12	9.99	41.14	2613		0.652200	59	1015
08/08/95	69.95		43.08	2683		0.652200	46	1060
08/09/95	83.29	11.66	45.86	2767		0.652200	54	1115
08/10/95	53.31		47.10	2820		0.652200	35	1149
08/11/95	92.07		49.51	2912		0.652200	60	1209
08/12/95	66.65	20.00	51.01	2979		0.652200	43	1253
08/13/95	84.96		53.44	3064		0.652200	55	1308
08/14/95	86.68		55.94	3150		0.652200	57	1365
08/15/95	54.98	6.67	57.44	3205		0.652200	36	1401
08/16/95	89.61		60.31	3295		0.652200	58	1459
08/17/95	71.19	10.00	62.69	3366		0.652200	46	1505
08/18/95	86.62	6.67	65.57	3453	90 day production	0.652200	56	1562
08/19/95	98.30		68.85	3551		0.652200	64	1626
08/20/95	81.66		69.96	3633		0.652200	53	1679
08/21/95	59.97	14.99	71.96	3693		0.652200	39	1718
08/22/95	9.64		72.28	3702		0.652200	6	1725
08/23/95	81.61		73.89	3784		0.652200	53	1778
08/24/95	84.59		74.71	3868		0.652200	55	1833
08/25/95	61.66	13.33	74.71	3930		0.652200	40	1873
08/26/95	81.72		74.31	4012		0.652200	53	1927
08/27/95	69.96	13.33	74.75	4082		0.652200	46	1972
08/28/95	66.64		75.03	4148		0.652200	43	2016
08/29/95	76.64	11.66	74.92	4225		0.652200	50	2066
08/30/95	83.28		73.98	4308		0.652200	54	2120
08/31/95	90.38	8.33	74.62	4399		0.652200	59	2179
09/01/95	76.68	13.33	74.28	4475		0.652200	50	2229
09/02/95	71.64	5.00	73.45	4547		0.652200	47	2276
09/03/95	58.36		72.61	4605		0.652200	38	2314
09/04/95	22.12		72.95	4628		0.652200	14	2328
09/05/95	38.69		71.47	4666		0.652200	25	2353
09/06/95	3.34		68.54	4670		0.652200	2	2356
09/07/95	0.00		66.21	4670		0.652200	0	2356
09/08/95	84.99		66.26	4755		0.652200	55	2411
09/09/95	46.64	31.64	66.04	4801		0.652200	30	2441
09/10/95	49.18		64.61	4850		0.652200	32	2474
09/11/95	99.98		65.72	4950		0.652200	65	2539
09/12/95	72.92		65.32	5023		0.652200	48	2586
09/13/95	64.97		64.60	5088		0.652200	42	2629
09/14/95	112.08		66.50	5200	r-60.00	0.652200	73	2702
09/15/95	0.00		63.52	5200		0.652200	0	2702
09/16/95	64.99		63.31	5265		0.652200	42	2744
09/17/95	73.28		62.86	5339		0.652200	48	2792
09/18/95	51.63	1.67	61.31	5390		0.652200	34	2826
09/19/95	68.35		60.86	5459		0.652200	45	2870
09/20/95	37.91		60.13	5496		0.652200	25	2895
09/21/95	91.65		62.86	5588	Gas Tested @ 41 MSCFPD	0.652200	60	2955
09/22/95	59.96		62.14	5648	GOR @ 0.6522 MSCFG/STBO	0.656170	39	2994
09/23/95	50.05		60.99	5698		0.660139	33	3027
09/24/95	51.64	6.66	60.66	5750		0.664109	34	3061
09/25/95	73.31		60.38	5823		0.668079	49	3110
09/26/95	62.05		60.11	5885		0.672049	42	3152
09/27/95	59.96		59.89	5945		0.676018	41	3193
09/28/95	48.31	19.99	58.94	5993		0.679988	33	3225
09/29/95	70.05		58.50	6063		0.683958	48	3273
09/30/95	86.22		58.37	6150		0.687927	59	3333
10/01/95	68.29		58.09	6218		0.691897	47	3380

Date	OIL PROD	WATER PROD	OIL 30 DAY AVG	CUM. OIL PROD	COMMENTS	Vented GOR (MSCF/STBO)	Gas Vented Using GOR (MSCFPD)	Cum. Gas Vented (MSCF)
10/02/95	79.97	18.33	58.36	6298		0.695867	56	3436
10/03/95	74.98		58.92	6373		0.699837	52	3488
10/04/95	76.66		60.74	6450		0.703806	54	3542
10/05/95	71.67		61.83	6521		0.707776	51	3593
10/06/95	49.57	19.32	63.38	6571		0.711746	35	3628
10/07/95	56.22		65.25	6627		0.715715	40	3668
10/08/95	71.61		64.80	6699		0.719685	52	3720
10/09/95	76.64	11.66	65.80	6775		0.723655	55	3775
10/10/95	63.31		66.27	6839		0.727625	46	3821
10/11/95	16.66		63.50	6855		0.731594	12	3834
10/12/95	62.49		63.15	6918		0.735564	46	3879
10/13/95	67.89		63.25	6986		0.739534	50	3930
10/14/95	15.46		60.03	7001		0.743504	11	3941
10/15/95	58.30		61.97	7059		0.747473	44	3985
10/16/95	19.99		60.47	7079		0.751443	15	4000
10/17/95	15.00		58.53	7094		0.755413	11	4011
10/18/95	11.67		57.19	7106		0.759382	9	4020
10/19/95	41.67	11.67	56.31	7148		0.763352	32	4052
10/20/95	59.68	29.93	57.03	7207		0.767322	46	4098
10/21/95	49.92	10.00	55.64	7257		0.771292	39	4136
10/22/95	39.98	4.99	54.97	7297		0.775261	31	4167
10/23/95	76.65		55.86	7374		0.779231	60	4227
10/24/95	70.78		56.50	7445		0.783201	55	4282
10/25/95	59.97		56.05	7505		0.787170	47	4329
10/26/95	39.98	15.00	55.32	7545		0.791140	32	4361
10/27/95	60.79	11.66	55.35	7605		0.795110	48	4409
10/28/95	70.00		56.07	7675		0.799080	56	4465
10/29/95	56.68		55.62	7732		0.803049	46	4511
10/30/95	52.90	9.99	54.51	7785		0.807019	43	4554
10/31/95	53.31	8.33	54.01	7838		0.810989	43	4597
11/01/95	51.30		53.06	7890		0.814958	42	4639
11/02/95	46.66		52.11	7936		0.818928	38	4677
11/03/95	79.95		52.22	8016		0.822898	66	4743
11/04/95	38.31	23.32	51.11	8055		0.826868	32	4774
11/05/95	72.05		51.86	8127		0.830837	60	4834
11/06/95	29.57		50.97	8156		0.834807	25	4859
11/07/95	59.98		50.58	8216		0.838777	50	4909
11/08/95	63.34		50.14	8280		0.842746	53	4962
11/09/95	43.33		49.48	8323		0.846716	37	4999
11/10/95	8.33	33.32	49.20	8331		0.850686	7	5006
11/11/95	66.64	5.00	49.34	8398		0.854656	57	5063
11/12/95	79.56		49.73	8477		0.858625	68	5132
11/13/95	81.66		51.93	8559		0.862595	70	5202
11/14/95	64.97	3.33	52.15	8624		0.866565	56	5258
11/15/95	57.96		53.42	8682		0.870535	50	5309
11/16/95	78.27		55.53	8760		0.874504	68	5377
11/17/95	73.32		57.58	8834		0.878474	64	5442
11/18/95	62.48	6.66	58.28	8896		0.882444	55	5497
11/19/95	82.87		59.05	8979		0.886413	73	5570
11/20/95	63.34		59.50	9042		0.890383	56	5627
11/21/95	73.33		60.61	9116		0.894353	66	5692
11/22/95	61.31	6.66	60.10	9177		0.898323	55	5747
11/23/95	54.20		59.55	9231		0.902292	49	5796
11/24/95	66.64		59.77	9298		0.906262	60	5857
11/25/95	63.33		60.55	9361		0.910232	58	5914
11/26/95	38.32	18.33	59.80	9399		0.914201	35	5949
11/27/95	61.63	8.33	59.52	9461		0.918171	57	6006
11/28/95	45.90	20.01	59.16	9507		0.922141	42	6048
11/29/95	41.66		58.78	9549		0.926111	39	6087
11/30/95	73.28		59.45	9622		0.930080	68	6155
12/01/95	46.64		59.29	9668		0.934050	44	6198
12/02/95	45.40	14.99	59.25	9714		0.938020	43	6241
12/03/95	60.83		58.62	9775		0.941989	57	6298
12/04/95	68.32		59.62	9843		0.945959	65	6363
12/05/95	58.34		59.16	9901		0.949929	55	6418
12/06/95	58.32		60.12	9960		0.953899	56	6474
12/07/95	0.00		58.12	9960	r-58.33	0.957868	0	6474
12/08/95	31.66	23.32	57.06	9991	r-1.68	0.961838	30	6504
12/09/95	55.45		57.47	10047		0.965808	54	6558
12/10/95	71.64		59.58	10118		0.969777	69	6627
12/11/95	64.99		59.52	10183		0.973747	63	6691
12/12/95	46.65	14.99	58.42	10230		0.977717	46	6736
12/13/95	54.96	8.33	57.53	10285		0.981687	54	6790
12/14/95	65.47		57.55	10351		0.985656	65	6855
12/15/95	56.64		57.51	10407		0.989626	56	6911

Date	OIL PROD	WATER PROD	OIL 30 DAY AVG	CUM. OIL PROD	COMMENTS	Vented GOR (MSCF/STBO)	Gas Vented Using GOR (MSCFPD)	Cum. Gas Vented (MSCF)
12/16/95	59.96		56.90	10467		0.993596	60	6970
12/17/95	35.71	24.26	55.64	10503		0.997565	36	7006
12/18/95	54.25		55.37	10557		1.001535	54	7060
12/19/95	50.38	13.33	54.29	10607		1.005505	51	7111
12/20/95	58.31	5.00	54.12	10666		1.009475	59	7170
12/21/95	62.10		53.74	10728		1.013444	63	7233
12/22/95	51.67	3.33	53.42	10780		1.017414	53	7285
12/23/95	56.64		53.50	10836		1.021384	58	7343
12/24/95	58.34	5.00	53.23	10895		1.025354	60	7403
12/25/95	64.98		53.28	10960		1.029323	67	7470
12/26/95	64.96	4.99	54.17	11024		1.033293	67	7537
12/27/95	73.29		54.56	11098		1.037263	76	7613
12/28/95	42.07		54.43	11140		1.041232	44	7657
12/29/95	68.32	16.66	55.32	11208		1.045202	71	7728
12/30/95	53.34		54.65	11261		1.049172	56	7784
12/31/95	25.00	6.66	53.93	11286		1.053142	26	7811
01/01/96	11.66		52.81	11298		1.057111	12	7823
01/02/96	20.00		51.45	11318		1.061081	21	7844
01/03/96	6.66		49.39	11325		1.065051	7	7851
01/04/96	26.66		48.34	11351		1.069020	29	7880
01/05/96	69.95		48.72	11421		1.072990	75	7955
01/06/96	44.15	14.99	50.20	11466		1.076960	48	8002
01/07/96	54.98	6.66	50.97	11521		1.080930	59	8062
01/08/96	44.55		50.61	11565		1.084899	48	8110
01/09/96	55.01	13.33	50.06	11620		1.088869	60	8170
01/10/96	41.67	5.00	49.28	11662		1.092839	46	8216
01/11/96	42.07		49.13	11704		1.096808	46	8262
01/12/96	46.65		48.85	11750		1.100778	51	8313
01/13/96	4.17	15.00	46.80	11755	r-59.97	1.104748	5	8318
01/14/96	60.41		46.93	11815		1.108718	67	8385
01/15/96	53.32	5.00	46.71	11868		1.112687	59	8444
01/16/96	61.63		47.57	11930		1.116657	69	8513
01/17/96	62.07	5.83	47.83	11992		1.120627	70	8582
01/18/96	54.14		47.96	12046		1.124596	61	8643
01/19/96	56.62	8.33	47.90	12103		1.128566	64	8707
01/20/96	76.63		48.39	12179		1.132536	87	8794
01/21/96	43.32		48.11	12223		1.136506	49	8843
01/22/96	66.62	16.66	48.44	12289		1.140475	76	8919
01/23/96	64.99		48.66	12354		1.144445	74	8994
01/24/96	48.34	6.67	48.11	12403		1.148415	56	9049
01/25/96	58.32		47.89	12461		1.152385	67	9116
01/26/96	34.99	16.66	46.61	12496		1.156354	40	9157
01/27/96	80.00		47.87	12576		1.160324	93	9250
01/28/96	43.30		47.04	12619		1.164294	50	9300
01/29/96	73.29		47.71	12693		1.168263	86	9386
01/30/96	32.07	10.00	47.94	12725		1.172233	38	9423
01/31/96	46.65		49.11	12771		1.176203	55	9478
02/01/96	57.92	10.00	50.37	12829	r-46.67	1.180173	68	9546
02/02/96	0.00		50.15	12829	r-13.33	1.184142	0	9546
02/03/96	23.34		50.04	12853		1.188112	28	9574
02/04/96	38.34	11.66	48.99	12891		1.192082	46	9620
02/05/96	46.65		49.07	12938		1.196051	56	9676
02/06/96	46.65		48.79	12984		1.200021	56	9732
02/07/96	58.31	3.34	49.25	13043		1.203991	70	9802
02/08/96	49.97		49.08	13093		1.207961	60	9862
02/09/96	49.97	8.33	49.36	13143		1.211930	61	9923
02/10/96	63.72		50.08	13206		1.215900	77	10000
02/11/96	57.48		50.44	13264		1.219870	70	10070
02/12/96	41.66		51.69	13305		1.223839	51	10121
02/13/96	45.00	5.00	51.18	13350		1.227809	55	10177
02/14/96	56.64		51.29	13407		1.231779	70	10246
02/15/96	46.63		50.79	13454		1.235749	58	10304
02/16/96	49.97	14.99	50.38	13504		1.239718	62	10366
02/17/96	46.65		50.13	13550		1.243688	58	10424
02/18/96	45.01		49.75	13595		1.247658	56	10480
02/19/96	41.67	1.67	48.58	13637		1.251627	52	10532
02/20/96	43.32		48.58	13680		1.255597	54	10587
02/21/96	44.98		47.86	13725		1.259567	57	10643
02/22/96	45.82	13.32	47.22	13771		1.263537	58	10701
02/23/96	41.64		47.00	13813		1.267506	53	10754
02/24/96	54.13		46.86	13867		1.271476	69	10823
02/25/96	21.65	10.00	46.41	13888		1.275446	28	10850
02/26/96	41.65		45.14	13930		1.279415	53	10904
02/27/96	28.32	13.33	44.64	13958		1.283385	36	10940
02/28/96	49.18		43.83	14008		1.287355	63	11003

Date	OIL PROD	WATER PROD	OIL 30 DAY AVG	CUM. OIL PROD	COMMENTS	Vented GOR (MSCF/STBO)	Gas Vented Using GOR (MSCFPD)	Cum. Gas Vented (MSCF)
02/29/96	43.31		44.21	14051		1.291325	56	11059
03/01/96	41.67		44.04	14093		1.295294	54	11113
03/02/96	43.34		43.56	14136		1.299264	56	11170
03/03/96	26.67	8.34	44.44	14163		1.303234	35	11204
03/04/96	41.66		45.06	14204		1.307204	54	11259
03/05/96	43.31		45.22	14248		1.311173	57	11316
03/06/96	0.00	13.32	43.67	14248	r-31.24	1.315143	0	11316
03/07/96	16.25		42.65	14264	r-28.75	1.319113	21	11337
03/08/96	33.32	3.33	41.82	14297		1.323082	44	11381
03/09/96	45.00		41.65	14342		1.327052	60	11441
03/10/96	38.31		41.27	14380		1.331022	51	11492
03/11/96	41.63		40.53	14422		1.334992	56	11547
03/12/96	42.13	6.66	40.02	14464		1.338961	56	11604
03/13/96	43.32		40.07	14508		1.342931	58	11662
03/14/96	44.14		40.04	14552		1.346901	59	11721
03/15/96	38.31	8.33	39.43	14590		1.350870	52	11773
03/16/96	53.30		39.66	14643		1.354840	72	11845
03/17/96	36.65		39.21	14680		1.358810	50	11895
03/18/96	23.33	16.66	38.43	14703		1.362780	32	11927
03/19/96	45.03		38.43	14748		1.366749	62	11989
03/20/96	44.97		38.54	14793		1.370719	62	12050
03/21/96	35.00		38.27	14828		1.374689	48	12098
03/22/96	40.00		38.10	14868		1.378658	55	12153
03/23/96	21.67	10.00	37.30	14890		1.382628	30	12183
03/24/96	40.83		37.27	14931		1.386598	57	12240
03/25/96	34.99		36.63	14966		1.390568	49	12289
03/26/96	31.65		36.96	14997		1.394537	44	12333
03/27/96	35.82	10.00	36.77	15033		1.398507	50	12383
03/28/96	30.00		36.83	15063		1.402477	42	12425
03/29/96	31.66		36.24	15095		1.406446	45	12469
03/30/96	31.66	5.00	35.85	15127		1.410416	45	12514
03/31/96	37.07		35.70	15164		1.414386	52	12567
04/01/96	36.65		35.48	15200		1.418356	52	12619
04/02/96	0.00		34.59	15200	r-43.31	1.422325	0	12619
04/03/96	11.66		33.59	15212	r-16.66	1.426295	17	12635
04/04/96	24.56	13.33	32.96	15237		1.430265	35	12670
04/05/96	31.65	4.99	34.02	15268		1.434235	45	12716
04/06/96	34.98		34.64	15303		1.438204	50	12766
04/07/96	35.00		34.70	15338		1.442174	50	12816
04/08/96	35.00		34.37	15373		1.446144	51	12867
04/09/96	31.67	5.00	34.14	15405		1.450113	46	12913
04/10/96	33.34		33.87	15438		1.454083	48	12962
04/11/96	39.98		33.80	15478		1.458053	58	13020
04/12/96	23.32	11.67	33.13	15501		1.462023	34	13054
04/13/96	39.63		32.98	15541		1.465992	58	13112
04/14/96	36.66		32.92	15578		1.469962	54	13166
04/15/96	29.99		32.15	15608		1.473932	44	13210
04/16/96	36.64		32.15	15644		1.477901	54	13264
04/17/96	33.31	6.67	32.48	15678		1.481871	49	13314
04/18/96	31.65		32.03	15709		1.485841	47	13361
04/19/96	38.32		31.81	15748		1.489811	57	13418
04/20/96	29.98		31.64	15778		1.493780	45	13463
04/21/96	21.66	14.99	31.03	15799		1.497750	32	13495
04/22/96	34.99		31.48	15834		1.501720	53	13547
04/23/96	31.67		31.17	15866		1.505689	48	13595
04/24/96	32.08		31.08	15898		1.509659	48	13644
04/25/96	25.00	6.66	30.85	15923		1.513629	38	13681
04/26/96	31.65		30.71	15955		1.517599	48	13729
04/27/96	31.64		30.77	15986		1.521568	48	13778
04/28/96	18.32	13.33	30.32	16005		1.525538	28	13806
04/29/96	33.31		30.38	16038		1.529508	51	13857
04/30/96	29.98		30.14	16068		1.533477	46	13902
05/01/96	33.33		30.03	16101		1.537447	51	13954
05/02/96	31.67		31.09	16133		1.541417	49	14003
05/03/96	18.33		31.31	16151		1.545387	28	14031
05/04/96	30.01		31.49	16181		1.549356	46	14077
05/05/96	16.67	10.00	30.99	16198		1.553326	26	14103
05/06/96	33.32		30.94	16231		1.557296	52	14155
05/07/96	31.66		30.83	16263		1.561265	49	14205
05/08/96	13.33	11.66	30.10	16276		1.565235	21	14225
05/09/96	34.19		30.19	16310		1.569205	54	14279
05/10/96	31.66		30.13	16342		1.573175	50	14329
05/11/96	31.66		29.85	16374		1.577144	50	14379
05/12/96	33.31		30.19	16407		1.581114	53	14432
05/13/96	0.00		28.87	16407		1.585084	0	14432

Date	OIL PROD	WATER PROD	OIL 30 DAY AVG	CUM. OIL PROD	COMMENTS	Vented GOR (MSCF/STBO)	Gas Vented Using GOR (MSCFPD)	Cum. Gas Vented (MSCF)
05/14/96	14.99	8.33	28.14	16422		1.589054	24	14455
05/15/96	31.64		28.20	16454		1.593023	50	14506
05/16/96	39.98		28.31	16494		1.596993	64	14570
05/17/96	29.99		28.20	16524		1.600963	48	14618
05/18/96	19.99	10.00	27.81	16544		1.604932	32	14650
05/19/96	28.32	5.00	27.48	16572		1.608902	46	14695
05/20/96	30.82		27.51	16603		1.612872	50	14745
05/21/96	33.32		27.89	16636		1.616842	54	14799
05/22/96	31.66		27.78	16668		1.620811	51	14850
05/23/96	32.49		27.81	16700		1.624781	53	14903
05/24/96	31.66		27.80	16732		1.628751	52	14954
05/25/96	36.67	6.66	28.19	16769		1.632720	60	15014
05/26/96	33.31		28.24	16802		1.636690	55	15069
05/27/96	34.98		28.35	16837		1.640660	57	15126
05/28/96	4.99	16.66	27.91	16842		1.644630	8	15134
05/29/96	31.66		27.85	16874		1.648599	52	15187
05/30/96	29.99		27.85	16904		1.652569	50	15236
05/31/96	28.31		27.69	16932		1.656539	47	15283
06/01/96	28.32		27.57	16960		1.660508	47	15330
06/02/96	19.98	6.67	27.63	16980		1.664478	33	15363
06/03/96	30.82		27.66	17011		1.668448	51	15415
06/04/96	0.00		27.10	17011	R-44.97	1.672418	0	15415
06/05/96	18.32		26.60	17029	R-14.99	1.676387	31	15446
06/06/96	16.66	16.66	26.10	17046		1.680357	28	15474
06/07/96	32.50		26.74	17078		1.684327	55	15528
06/08/96	31.66		26.66	17110		1.688296	53	15582
06/09/96	34.17		26.74	17144		1.692266	58	15640
06/10/96	23.32	6.67	26.46	17168		1.696236	40	15679
06/11/96	10.00	3.33	25.68	17178		1.700206	17	15696
06/12/96	39.99		27.02	17218		1.704175	68	15764
06/13/96	39.14		27.82	17257		1.708145	67	15831
06/14/96	29.98	5.00	27.77	17287		1.712115	51	15882
06/15/96	28.31		27.38	17315		1.716085	49	15931
06/16/96	19.99	8.33	27.04	17335		1.720054	34	15965
06/17/96	28.74		27.34	17364		1.724024	50	16015
06/18/96	28.32		27.34	17392		1.727994	49	16064
06/19/96	28.33		27.25	17420		1.731963	49	16113
06/20/96	30.41		27.16	17451		1.735933	53	16166
06/21/96	26.67		26.99	17477		1.739903	46	16212
06/22/96	13.33	13.32	26.35	17491		1.743873	23	16235
06/23/96	31.25		26.34	17522		1.747842	55	16290
06/24/96	24.99		25.95	17547		1.751812	44	16334
06/25/96	27.48		25.75	17575		1.755782	48	16382
06/26/96	28.31		25.53	17603		1.759751	50	16432
06/27/96	19.90	6.66	26.03	17623		1.763721	35	16467
06/28/96	19.99	6.66	25.64	17643		1.767691	35	16502
06/29/96	27.90		25.57	17671		1.771661	49	16552
06/30/96	28.32		25.57	17699		1.775630	50	16602
07/01/96	25.00		25.46	17724		1.779600	44	16647
07/02/96	0.00		24.79	17724		1.783570	0	16647
07/03/96	0.00		23.77	17724	r-53.31	1.787539	0	16647
07/04/96	52.49		25.52	17776	r-6.67	1.791509	94	16741
07/05/96	29.99	6.67	25.90	17806		1.795479	54	16794
07/06/96	20.00	8.33	26.02	17826		1.799449	36	16830
07/07/96	32.50		26.02	17859		1.803418	59	16889
07/08/96	36.65		26.18	17896		1.807388	66	16955
07/09/96	21.66		25.77	17917		1.811358	39	16994
07/10/96	24.98		25.82	17942		1.815327	45	17040
07/11/96	18.32	8.33	26.10	17961		1.819297	33	17073
07/12/96	26.65		25.65	17987		1.823267	49	17122
07/13/96	24.99		25.18	18012		1.827237	46	17167
07/14/96	18.32	8.33	24.79	18030		1.831206	34	17201
07/15/96	27.52		24.77	18058		1.835176	51	17251
07/16/96	29.98		25.10	18088		1.839146	55	17307
07/17/96	19.90		24.81	18108		1.843115	37	17343
07/18/96	24.99		24.69	18133		1.847085	46	17389
07/19/96	25.01		24.58	18158		1.851055	46	17436
07/20/96	70.00		25.90	18228	drain treated trans. oil to prod	1.855025	130	17566
07/21/96	10.01	11.66	25.35	18238		1.858994	19	17584
07/22/96	18.32	8.33	25.51	18256		1.862964	34	17618
07/23/96	27.08		25.38	18283		1.866934	51	17669
07/24/96	24.99		25.38	18308		1.870904	47	17716
07/25/96	25.00		25.29	18333		1.874873	47	17762
07/26/96	28.33		25.29	18362		1.878843	53	17816
07/27/96	19.99	3.34	25.30	18382		1.882813	38	17853

Date	OIL PROD	WATER PROD	OIL 30 DAY AVG	CUM. OIL PROD	COMMENTS	Vented GOR (MSCF/STBO)	Gas Vented Using GOR (MSCFPD)	Cum. Gas Vented (MSCF)
07/28/96	28.33		25.57	18410		1.886782	53	17907
07/29/96	8.33	15.00	24.92	18418		1.890752	16	17923
07/30/96	24.15		24.78	18442		1.894722	46	17968
07/31/96	26.65		24.84	18469		1.898692	51	18019
08/01/96	26.67		25.73	18496		1.902661	51	18070
08/02/96	21.67		26.45	18517		1.906631	41	18111
08/03/96	30.42		25.71	18548		1.910601	58	18169
08/04/96	15.00	10.00	25.21	18563		1.914570	29	18198
08/05/96	21.67		25.27	18585		1.918540	42	18239
08/06/96	11.67	9.99	24.58	18596		1.922510	22	18262
08/07/96	23.33		24.13	18620		1.926480	45	18307
08/08/96	24.99		24.24	18644		1.930449	48	18355
08/09/96	23.32		24.19	18668		1.934419	45	18400
08/10/96	23.32		24.35	18691		1.938389	45	18445
08/11/96	18.32	5.00	24.08	18709		1.942358	36	18481
08/12/96	24.98		24.08	18734		1.946328	49	18530
08/13/96	9.99	13.33	23.80	18744		1.950298	19	18549
08/14/96	24.15		23.69	18769		1.954268	47	18596
08/15/96	18.32		23.30	18787		1.958237	36	18632
08/16/96	0.00		22.63	18787	r-56.63	1.962207	0	18632
08/17/96	35.00		22.97	18822	r-3.33	1.966177	69	18701
08/18/96	33.33		23.24	18855		1.970146	66	18767
08/19/96	10.00	10.01	21.24	18865		1.974116	20	18786
08/20/96	25.01		21.74	18890		1.978086	49	18836
08/21/96	20.00	10.00	21.80	18910		1.982056	40	18875
08/22/96	20.01		21.56	18930		1.986025	40	18915
08/23/96	25.83		21.59	18956		1.989995	51	18967
08/24/96	28.33		21.70	18984		1.993965	56	19023
08/25/96	15.00		21.26	18999		1.997935	30	19053
08/26/96	21.65		21.31	19021		2.001904	43	19096
08/27/96	23.32		21.15	19044		2.005874	47	19143
08/28/96	23.31		21.65	19068		2.009844	47	19190
08/29/96	10.00	9.99	21.18	19078		2.013813	20	19210
08/30/96	23.32		21.06	19101		2.017783	47	19257
08/31/96	21.65		20.90	19123		2.021753	44	19301
09/01/96	10.00	11.66	20.51	19133		2.025723	20	19321
09/02/96	21.65		20.22	19154		2.029692	44	19365
09/03/96	21.66		20.44	19176		2.033662	44	19409
09/04/96	23.33		20.49	19199		2.037632	48	19457
09/05/96	21.66		20.83	19221		2.041601	44	19501
09/06/96	22.91		20.81	19244		2.045571	47	19548
09/07/96	15.00	5.00	20.48	19259		2.049541	31	19579
09/08/96	24.99		20.53	19284		2.053511	51	19630
09/09/96	20.00		20.42	19304		2.057480	41	19671
09/10/96	8.33	15.00	20.09	19312		2.061450	17	19688
09/11/96	21.23		19.97	19333		2.065420	44	19732
09/12/96	18.33		20.24	19352		2.069389	38	19770
09/13/96	23.32		20.22	19375		2.073359	48	19818
09/14/96	18.34		20.22	19393		2.077329	38	19856
09/15/96	21.67		20.94	19415		2.081299	45	19902
09/16/96	23.33		20.55	19438		2.085268	49	19950
09/17/96	15.43	6.67	19.95	19454		2.089238	32	19982
09/18/96	21.67		20.34	19476	Hot oiled 60.01 bbls	2.093208	45	20028
09/19/96	0.00		19.51	19476	r-43.34	2.097177	0	20028
09/20/96	16.66	16.66	19.40	19492	r-16.67	2.101147	35	20063
09/21/96	26.24		19.61	19518		2.105117	55	20118
09/22/96	23.33		19.52	19542		2.109087	49	20167
09/23/96	24.99		19.41	19567		2.113056	53	20220
09/24/96	18.32		19.52	19585		2.117026	39	20259
09/25/96	20.40		19.48	19605		2.120996	43	20302
09/26/96	19.99		19.37	19625		2.124965	42	20345
09/27/96	19.99		19.26	19645		2.128935	43	20387
09/28/96	1.66	16.66	18.98	19647		2.132905	4	20391
09/29/96	19.99	5.00	18.87	19667		2.136875	43	20433
09/30/96	15.82		18.67	19683		2.140844	34	20467
10/01/96	21.66		19.06	19705		2.144814	46	20514
10/02/96	14.99		18.84	19720		2.148784	32	20546
10/03/96	18.32		18.73	19738		2.152754	39	20585
10/04/96	23.75		18.74	19762		2.156723	51	20637
10/05/96	18.33		18.63	19780		2.160693	40	20676
10/06/96	13.33	8.33	18.31	19793		2.164663	29	20705
10/07/96	18.33		18.42	19812		2.168632	40	20745
10/08/96	18.33		18.20	19830		2.172602	40	20785
10/09/96	5.00	13.33	17.70	19835		2.176572	11	20795
10/10/96	18.74		18.05	19854		2.180542	41	20836

Date	OIL PROD	WATER PROD	OIL 30 DAY AVG	CUM. OIL PROD	COMMENTS	Vented GOR (MSCF/STBO)	Gas Vented Using GOR (MSCFPD)	Cum. Gas Vented (MSCF)
10/11/96	21.65		18.06	19875		2.184511	47	20884
10/12/96	21.65		18.17	19897		2.188481	47	20931
10/13/96	20.01		18.06	19917		2.192451	44	20975
10/14/96	20.41		18.13	19937		2.196420	45	21020
10/15/96	21.67		18.13	19959		2.200390	48	21067
10/16/96	15.00		17.86	19974		2.204360	33	21100
10/17/96	10.01	5.00	17.67	19984		2.208330	22	21123
10/18/96	15.00		17.45	19999	Hot oiled 60.01 bbls	2.212299	33	21156
10/19/96			17.45	19999	r-56.67	2.216269	0	21156
10/20/96	21.67	16.66	17.62	20021	r-3.34	2.220239	48	21204
10/21/96	25.41		17.59	20046		2.224208	57	21260
10/22/96	24.99		17.65	20071		2.228178	56	21316
10/23/96	21.65		17.54	20093		2.232148	48	21364
10/24/96	20.82		17.62	20114		2.236118	47	21411
10/25/96	8.33	4.99	17.22	20122		2.240087	19	21430
10/26/96	23.31		17.33	20145		2.244057	52	21482
10/27/96	16.66		17.22	20162		2.248027	37	21519
10/28/96	9.99	8.32	17.49	20172		2.251996	22	21542
10/29/96	19.99		17.49	20192		2.255966	45	21587
10/30/96	20.00		17.63	20212		2.259936	45	21632
10/31/96	13.32		17.36	20225		2.263906	30	21662
11/01/96	18.33		17.47	20244		2.267875	42	21704
11/02/96	6.66	13.33	17.08	20250		2.271845	15	21719
11/03/96	17.91		16.88	20268		2.275815	41	21760
11/04/96	16.66		16.83	20285		2.279785	38	21798
11/05/96	14.99		16.88	20300		2.283754	34	21832
11/06/96	18.33		16.88	20318		2.287724	42	21874
11/07/96	18.33		16.88	20336		2.291694	42	21916
11/08/96	18.33		17.33	20355		2.295663	42	21958
11/09/96	0.00		16.70	20355		2.299633	0	21958
11/10/96	26.66		16.87	20381		2.303603	61	22019
11/11/96	18.33		16.76	20400		2.307573	42	22062
11/12/96	15.00		16.59	20415		2.311542	35	22096
11/13/96	18.33		16.52	20433		2.315512	42	22139
11/14/96	18.33		16.41	20451		2.319482	43	22181
11/15/96	18.32		16.52	20470	Hot oiled 59.98 bbls	2.323451	43	22224
11/16/96	0.00		16.19	20470	r-31.67	2.327421	0	22224
11/17/96	21.66		16.41	20491	r-28.31	2.331391	50	22274
11/18/96	21.66		17.13	20513		2.335361	51	22325
11/19/96	0.00	23.32	16.41	20513		2.339330	0	22325
11/20/96	6.66		15.79	20520	Gas Tested @ 37 MSCFPD	2.343300	16	22341
11/21/96	14.99		15.45	20535	GOR @ 2.3433 MSCFG/STBO	2.354903	35	22376
11/22/96	15.82		15.26	20551		2.366507	37	22413
11/23/96	18.32		15.17	20569		2.378110	44	22457
11/24/96	21.66		15.62	20590		2.389713	52	22509
11/25/96	13.33		15.29	20604		2.401316	32	22541
11/26/96	15.01		15.23	20619		2.412920	36	22577
11/27/96	15.00		15.40	20634		2.424523	36	22613
11/28/96	15.00		15.23	20649		2.436126	37	22650
11/29/96	16.67		15.12	20666		2.447730	41	22691
11/30/96	15.00		15.18	20681		2.459333	37	22728
12/01/96	15.00		15.07	20696		2.470936	37	22765
12/02/96	16.66		15.40	20712		2.482540	41	22806
12/03/96	5.00		14.97	20717		2.494143	12	22818
12/04/96	8.33	11.66	14.69	20725		2.505746	21	22839
12/05/96	18.33		14.80	20744		2.517349	46	22885
12/06/96	14.99		14.69	20759		2.528953	38	22923
12/07/96	11.66		14.47	20770		2.540556	30	22953
12/08/96	0.00		13.86	20770		2.552159	0	22953
12/09/96	10.00	16.66	14.19	20780		2.563763	26	22979
12/10/96	19.59		13.96	20800		2.575366	50	23029
12/11/96	20.00		14.01	20820	Hot oiled 55.07 bbls	2.586969	52	23081
12/12/96	10.00		13.84	20830	r-55.07	2.598573	26	23107
12/13/96	26.66		14.12	20857		2.610176	70	23176
12/14/96	16.66		14.07	20873		2.621779	44	23220
12/15/96	23.32		14.23	20897		2.633382	61	23281
12/16/96	16.66		14.79	20913		2.644986	44	23326
12/17/96	24.56		14.88	20938		2.656589	65	23391
12/18/96	16.66		14.72	20955		2.668192	44	23435
12/19/96	14.99		15.22	20970		2.679796	40	23475
12/20/96	13.32		15.44	20983		2.691399	36	23511
12/21/96	18.33		15.55	21001		2.703002	50	23561
12/22/96	0.00	18.32	15.02	21001		2.714605	0	23561
12/23/96	14.99		14.91	21016		2.726209	41	23602
12/24/96	15.00		14.69	21031		2.737812	41	23643

Date	OIL PROD	WATER PROD	OIL 30 DAY AVG	CUM. OIL PROD	COMMENTS	Vented GOR (MSCF/STBO)	Gas Vented Using GOR (MSCFPD)	Cum. Gas Vented (MSCF)
12/25/96	15.00		14.75	21046		2.749415	41	23684
12/26/96	5.00	9.99	14.41	21051		2.761019	14	23698
12/27/96	13.33		14.36	21065		2.772622	37	23735
12/28/96	13.33		14.30	21078		2.784225	37	23772
12/29/96	17.08		14.32	21095		2.795829	48	23820
12/30/96	15.00		14.32	21110		2.807432	42	23862
12/31/96	13.33		14.26	21123		2.819035	38	23899
01/01/97	18.33		14.32	21142		2.830638	52	23951
01/02/97	13.33		14.59	21155		2.842242	38	23989
01/03/97	15.00		14.82	21170		2.853845	43	24032
01/04/97	11.66		14.59	21182		2.865448	33	24065
01/05/97	5.00	9.99	14.26	21187		2.877052	14	24080
01/06/97	14.99		14.37	21202		2.888655	43	24123
01/07/97	14.99		14.87	21217		2.900258	43	24166
01/08/97	16.66		15.09	21233		2.911862	49	24215
01/09/97	3.33	8.33	14.55	21237		2.923465	10	24225
01/10/97	6.66	6.66	14.11	21243		2.935068	20	24244
01/11/97	12.50		14.19	21256		2.946671	37	24281
01/12/97	16.65		13.86	21272		2.958275	49	24330
01/13/97	10.00		13.63	21282		2.969878	30	24360
01/14/97	8.33		13.13	21291	down spark plug	2.981481	25	24385
01/15/97	13.32		13.02	21304	Hot oiled 59.97	2.993085	40	24425
01/16/97	0.00		12.20	21304	r-58.30	3.004688	0	24425
01/17/97	0.00		11.65	21304	r-1.67	3.016291	0	24425
01/18/97	0.00		11.15	21304	trace flowing overnight	3.027895	0	24425
01/19/97	36.64		11.93	21341		3.039498	111	24536
01/20/97	23.32		12.09	21364		3.051101	71	24607
01/21/97	13.32		12.54	21377		3.062704	41	24648
01/22/97	18.33		12.65	21396		3.074308	56	24704
01/23/97	1.67	16.66	12.20	21397		3.085911	5	24710
01/24/97	13.32		12.15	21411		3.097514	41	24751
01/25/97	15.00		12.48	21426		3.109118	47	24797
01/26/97	16.66		12.59	21442		3.120721	52	24849
01/27/97	3.33	11.66	12.26	21446		3.132324	10	24860
01/28/97	15.83		12.22	21461		3.143927	50	24910
01/29/97	13.33		12.16	21475		3.155531	42	24952
01/30/97	16.66		12.27	21491		3.167134	53	25004
01/31/97	16.67		12.22	21508		3.178737	53	25057
02/01/97	11.66		12.16	21520		3.190341	37	25095
02/02/97	19.16		12.30	21539		3.201944	61	25156
02/03/97	13.33		12.36	21552		3.213547	43	25199
02/04/97	20.00		12.86	21572		3.225151	65	25263
02/05/97	8.33		12.63	21581		3.236754	27	25290
02/06/97	11.67		12.52	21592		3.248357	38	25328
02/07/97	9.99		12.30	21602		3.259960	33	25361
02/08/97	11.66		12.58	21614		3.271564	38	25399
02/09/97	5.00	16.65	12.52	21619		3.283167	16	25415
02/10/97	9.99		12.44	21629		3.294770	33	25448
02/11/97	11.66	5.00	12.27	21641		3.306374	39	25487
02/12/97	17.90		12.54	21658	R-14.99 H2O	3.317977	59	25546
02/13/97	11.66		12.65	21670	R-14.99 H2O	3.329580	39	25585
02/14/97	10.00		12.54	21680	R-4.99 H2O	3.341184	33	25618
02/15/97	11.66		12.93	21692		3.352787	39	25658
02/16/97	16.65		13.48	21708		3.364390	56	25714
02/17/97	11.67		13.87	21720		3.375993	39	25753
02/18/97	11.67		13.04	21732		3.387597	40	25792
02/19/97	11.67		12.65	21743	Gas Tested @ 43 MSCFPD	3.399200	40	25832
02/20/97	6.67		12.43	21750	GOR @ 3.3992 MSCFG/STBO	3.402207	23	25855
02/21/97	15.00		12.32	21765	R-6.67 H2O	3.405213	51	25906
02/22/97	11.67		12.65	21777		3.408220	40	25946
02/23/97	13.33		12.65	21790		3.411227	45	25991
02/24/97	15.00		12.65	21805		3.414233	51	26042
02/25/97	10.01		12.43	21815		3.417240	34	26077
02/26/97	8.33		12.59	21823	R-6.66 H2O	3.420247	28	26105
02/27/97	8.33		12.34	21832		3.423253	29	26134
02/28/97	14.99		12.40	21847		3.426260	51	26185
03/01/97	16.66		12.40	21863		3.429267	57	26242
03/02/97	16.66		12.40	21880		3.432273	57	26299
03/03/97	0.00		12.01	21880		3.435280	0	26299
03/04/97	8.33	11.67	11.65	21888		3.438287	29	26328
03/05/97	16.25		11.75	21905		3.441293	56	26384
03/06/97	15.00		11.58	21920		3.444300	52	26435
03/07/97	13.33		11.75	21933		3.447307	46	26481
03/08/97	11.67		11.75	21945		3.450313	40	26522
03/09/97	14.58		11.90	21959		3.453320	50	26572

Date	OIL PROD	WATER PROD	OIL 30 DAY AVG	CUM. OIL PROD	COMMENTS	Vented GOR (MSCF/STBO)	Gas Vented Using GOR (MSCFPD)	Cum. Gas Vented (MSCF)
03/10/97	14.99		12.01	21974		3.456327	52	26624
03/11/97	13.33		12.29	21988		3.459333	46	26670
03/12/97	8.32		12.23	21996		3.462340	29	26699
03/13/97	11.66		12.23	22008		3.465347	40	26739
03/14/97	11.66		12.03	22019		3.468353	40	26780
03/15/97	13.33		12.08	22033		3.471360	46	26826
03/16/97	9.99		12.08	22043		3.474367	35	26861
03/17/97	11.66		12.08	22054		3.477373	41	26901
03/18/97	8.33		11.80	22063		3.480380	29	26930
03/19/97	11.66		11.80	22074		3.483387	41	26971
03/20/97	11.65		11.80	22086		3.486393	41	27011
03/21/97	10.00		11.75	22096	Gas Tested @ 41 MSCFPD	3.489400	35	27046
03/22/97	10.00		11.86	22106	GOR @ 3.4894 MSCFG/STBO	3.489400	35	27081
03/23/97	0.00	8.33	11.36	22106		3.489400	0	27081
03/24/97	8.33		11.25	22114		3.489400	29	27110
03/25/97								
03/26/97								
03/27/97								
03/28/97								
03/29/97								
03/30/97								
03/31/97								

Note: The gas to oil ratio is calculated using the volume of gas vented and the 30 day average oil production for the day that the gas test was performed ( i.e This is a vented GOR and does not include gas used on lease).  
The vented GOR is assumed to be zero for the first 30 days of production due to propane usage to suppliment fuel gas.  
The vented GOR of the first gas test is applied back to the date of 30 day production and is then assumed to increase or decrease linearly between gas tests.

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**

RECEIVED

OCT 13 1997

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

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.

RECEIVED  
OCT 10 1997

1997

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

Signed

*Chris A. Potter*

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

Title

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.

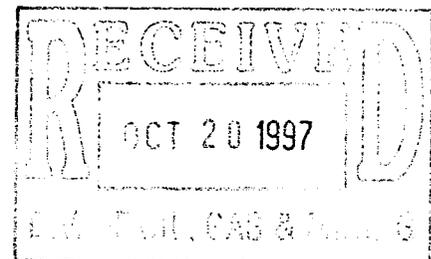
If you should have questions regarding this matter, please do not hesitate to contact me at the number listed below.

Sincerely,

INLAND PRODUCTION COMPANY

  
Patsy Barreau

/pb  
encls.





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.



# United States Department of the Interior

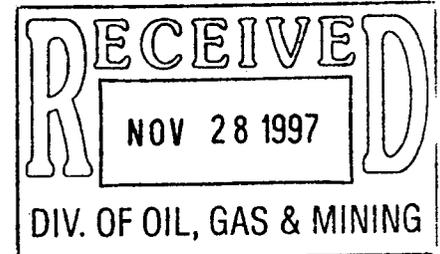
## BUREAU OF LAND MANAGEMENT

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

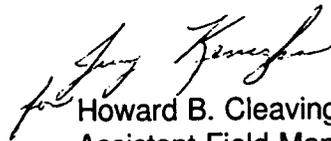
*43-047-32617*  
Re: Well No. Mon. Fed. 12-20-9-18Y  
SWNW, Sec. 20, T9S, R18E  
Lease U-64917  
Duchesne County, Utah

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
AMERADA GUINAND #1	SWNW 7 8S 25E	UINTAH	UT	COYOTE BASIN	43-047-20245-00	UTU016271V	UTU72085A
✓ COYOTE BASIN #1-12	NESE 128S 24E	UINTAH	UT	COYOTE BASIN	43-047-20221-00	UTU58226	UTU72085A
COYOTE BASIN #32-6	6 8S 25E	UINTA	UT	COYOTE BASIN	43-047-31835-00	UTU020309D	UTU72085A
COYOTE BASIN #42-6X	SENE 6 8S 25E	UINTA	UT	COYOTE BASIN	43-047-32346-00	UTU017439B	UTU72085A
✓ COYOTE BASIN FED. #13-7	NWSW 7 8S 25E	UINTAH	UT	COYOTE BASIN	43-047-32255-00	UTU41377	UTU72085A
✓ COYOTE BASIN FEDERAL #12-13	SWNW 138S 24E	UINTA	UT	COYOTE BASIN	43-047-31266-00		UTU72085A
✓ COYOTE BASIN FEDERAL #13-5	NWSW 5 8S 25E	UINTAH	UT	COYOTE BASIN	43-047-32261-00	UTU063597A	UTU72085A
✓ COYOTE BASIN FEDERAL #13-13	NWSW 138S 24E	UINTAH	UT	COYOTE BASIN	43-047-32196-00	UTU67208	UTU72085A
✓ COYOTE BASIN FEDERAL #21-7	NENW 7 8S 25E	UINTAH	UT	COYOTE BASIN	43-047-31673-00	UTU41377	UTU72085A
✓ COYOTE BASIN FEDERAL #22-7	SENE 7 9S 25E	UINTAH	UT	COYOTE BASIN	43-047-32256-00	UTU41377	UTU72085A
✓ COYOTE BASIN FEDERAL #33-5	NWSE 5 8S 25E	UINTAH	UT	COYOTE BASIN	43-047-32257-00	UTU063597A	UTU72085A
✓ COYOTE BASIN FEDERAL #43-12	NESE 128S 24E	UINTA	UT	COYOTE BASIN	43-047-30943-00	UTU038797	UTU72085A
✓ COYOTE FEDERAL #12-5	SWNW 5 8S 25E	UNITAH	UT	COYOTE BASIN	43-047-32253-00	UTU063597A	UTU72085A
✓ COYOTE FEDERAL #21-5	NENW 5 8S 25E	UINTAH	UT	COYOTE BASIN	43-047-32260-00	UTU063597A	UTU72085A
✓ COYOTE FEDERAL #31-7	NWNE 7 8S 25E	UINTAH	UT	COYOTE BASIN	43-047-32254-00	UTU020309D	UTU72085A
EAST RED WASH #2-5	NWNW 5 8S 25E	UINTA	UT	COYOTE BASIN	43-047-20252-00	UTU063597A	UTU72085A
✓ EAST RED WASH FED. #1-12	SWNE 128S 24E	UINTA	UT	COYOTE BASIN	43-047-20207-00	UTU038797	UTU72085A
EAST RED WASH FED. #4-6	SWSE 6 8S 25E	UINTAH	UT	COYOTE BASIN	43-047-20261-00	UTU020309D	UTU72085A
✓ EAST RED WASH FEDERA #1-13	NENW 138S 24E	UINTA	UT	COYOTE BASIN	43-047-20222-00	UTU018073	UTU72085A
✓ EAST RED WASH FEDERA #1-5	SENE 5 8S 25E	UINTA	UT	COYOTE BASIN	43-047-20174-00	UTU063597A	UTU72085A
✓ EAST RED WASH FEDERA #1-6	NESE 6 8S 25E	UINTA	UT	COYOTE BASIN	43-047-20208-00	UTU017439B	UTU72085A
✓ FEDERAL #14-4	SWSW 4 8S 25E	UINTAH	UT	COYOTE BASIN	43-047-15678-00	UTU41376	UTU72085A
✓ TXO FEDERAL #2	SENE 5 8S 25E	UINTAH	UT	COYOTE BASIN	43-047-31567-00	UTU41376	UTU72085A
✓ TXO FEDERAL #1	SWNE 5 8S 25E	UINTAH	UT	COYOTE BASIN	43-047-31406-00	UTU41376	UTU72085A
✓ BALCRON FEDERAL #12-20Y	SWNW 209S 18E	UINTAH	UT	EIGHT MILE FLAT (8)	43-047-32617-00	UTU64917	
✓ BALCRON FEDERAL #31-19Y	NWNE 199S 18E	UINTAH	UT	EIGHT MILE FLAT (8)	43-047-32614-00	UTU65635	
BALCRON FEDERAL #32-19Y	SW NE 199S 18E	UINTAH	UT	EIGHT MILE FLAT (8)	43-047-32615-00	UTU65635	
✓ BALCRON FEDERAL #42-19Y	SENE 199S 18E	UINTAH	UT	EIGHT MILE FLAT (8)	43-047-32616-00	UTU65635	
✓ BALCRON FEDERAL #31-5Y	NWNE 5 9S 18E	UINTAH	UT	EIGHT MILE FLAT (U)	43-047-32503-00	UTU65970	
✓ BALCRON FEDERAL #11-22Y	NW NW 228S 17E	DUCHESNE	UT	MONUMENT BUTTE (22)	43-013-31539-00	UTU66191	
✓ BALCRON FEDERAL #12-22Y	SWNW 228S 17E	DUCHESNE	UT	MONUMENT BUTTE (22)	43-013-31476-00	UTU66191	
✓ BALCRON FEDERAL #22-22Y	SE NW 228S 17E	DUCHESNE	UT	MONUMENT BUTTE (22)	43-013-31538-00	UTU76240	
✓ FEDERAL #1-26	NENW 268S 17E	UINTAH	UT	MONUMENT BUTTE (22)	43-047-31953-00	UTU76240	
✓ MONUMENT FEDERAL #13-22Y	NW SW 228S 17E	DUCHESNE	UT	MONUMENT BUTTE (22)	43-013-31583-00	UTU76240	
✓ MONUMENT FEDERAL #23-22-8-17	NESW 228S 17E	DUCHESNE	UT	MONUMENT BUTTE (22)	43-013-31702-00	UTU76240	
✓ MONUMENT FEDERAL ##31-22	NW NE 228S 17E	DUCHESNE	UT	MONUMENT BUTTE (22)	43-013-31587-00	UTU76240	
✓ MONUMENT FEDERAL #32-22-8-17	SW NE 228S 17E	DUCHESNE	UT	MONUMENT BUTTE (22)	43-013-31586-00	UTU76240	
✓ MONUMENT FEDERAL #33-22-8-17	NWSE 228S 17E	DUCHESNE	UT	MONUMENT BUTTE (22)	43-013-31588-00	UTU76240	
✓ BALCRON FEDERAL #11-20Y	NW NW 209S 18E	UINTAH	UT	MONUMENT BUTTE (8)	43-047-32712-00	UTU64917	

**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-JEC ✓	6-VPC ✓
2-GEH ✓	7-KAS ✓
3-DTB ✓	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>43-047-32617</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**

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)*
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)*
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: \_\_\_\_\_
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.
5. Changes have been entered in the Oil and Gas Information System (3270) for each well listed above. *(12-2-97)*
6. Cardex file has been updated for each well listed above. *(12-3-97)*
7. Well file labels have been updated for each well listed above. *(12-3-97)*
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)*
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.



# 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,

Molly Conrad  
Agent for Equitable Resources  
Energy Company

/mc

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

**ENTITY REVIEW**

- Jec 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  
Jec 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 2. (r649-2-10) The former operator of any fee lease wells listed above has been contacted and informed by letter dated 12/5/97 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**

991202 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-64917**

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

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

8. Well Name and No.  
**BALCRON FEDERAL 12-20Y**

9. API Well No.  
**43-047-32617**

10. Field and Pool, or Exploratory Area  
**8 MILE FLAT NORTH**

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)  
**1980 FNL 0660 FWL      SW/NW Section 20, T09S R18E**

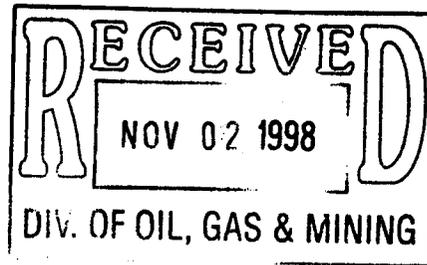
12. **CHECK APPROPRIATE BOX(S) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA**

TYPE OF SUBMISSION	TYPE OF ACTION
<input type="checkbox"/> Notice of Intent <input checked="" type="checkbox"/> Subsequent Report <input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Abandonment <input type="checkbox"/> Recompletion <input type="checkbox"/> Plugging Back <input type="checkbox"/> Casing Repair <input type="checkbox"/> Altering Casing <input checked="" type="checkbox"/> Other <u>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 *Rebbie 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

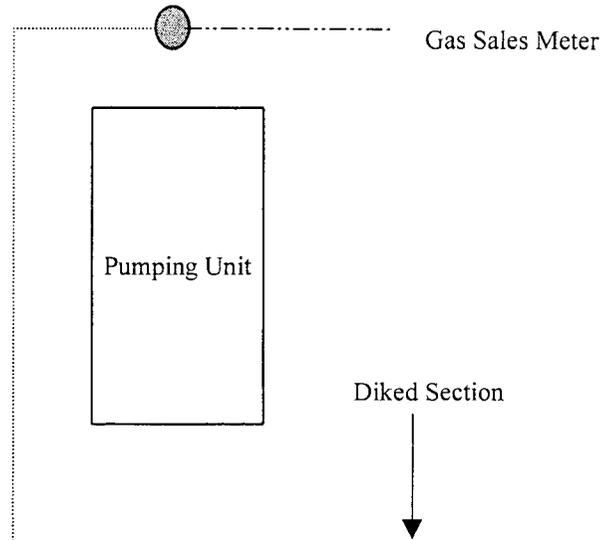
Federal 12-20Y

SW/NW Sec. 20, T9S, 18E

Uintah County

May 12, 1998

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



**Production Phase:**

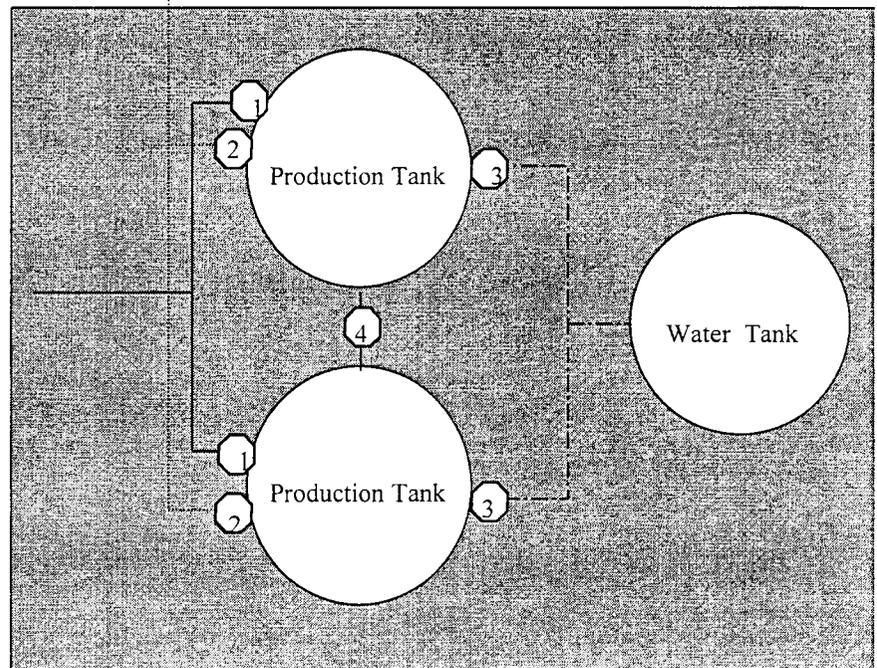
- 1) Valves 1 and 3 sealed closed
- 2) Valves 2 and 4 sealed open

**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	- · - · -





## 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		



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

<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-64917
<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>6. IF INDIAN, ALLOTTEE OR TRIBE NAME:</b>  <b>7. UNIT or CA AGREEMENT NAME:</b>
<b>1. TYPE OF WELL</b> Oil Well	<b>8. WELL NAME and NUMBER:</b> BALCRON FED 12-20Y
<b>2. NAME OF OPERATOR:</b> NEWFIELD PRODUCTION COMPANY	<b>9. API NUMBER:</b> 43047326170000
<b>3. ADDRESS OF OPERATOR:</b> 1001 17th Street, Suite 2000 , Denver, CO, 80202	<b>PHONE NUMBER:</b> 303 382-4443 Ext
<b>4. LOCATION OF WELL</b> <b>FOOTAGES AT SURFACE:</b> 1980 FNL 0660 FWL <b>QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:</b> Qtr/Qtr: SWNW Section: 20 Township: 09.0S Range: 18.0E Meridian: S	<b>9. FIELD and POOL or WILDCAT:</b> 8 MILE FLAT NORTH  <b>COUNTY:</b> UINTAH  <b>STATE:</b> UTAH

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

TYPE OF SUBMISSION	TYPE OF ACTION		
<input checked="" type="checkbox"/> <b>NOTICE OF INTENT</b> Approximate date work will start: 11/30/2009  <input type="checkbox"/> <b>SUBSEQUENT REPORT</b> Date of Work Completion:  <input type="checkbox"/> <b>SPUD REPORT</b> Date of Spud:  <input type="checkbox"/> <b>DRILLING REPORT</b> Report Date:	<input type="checkbox"/> ACIDIZE <input type="checkbox"/> CHANGE TO PREVIOUS PLANS <input type="checkbox"/> CHANGE WELL STATUS <input type="checkbox"/> DEEPEN <input type="checkbox"/> OPERATOR CHANGE <input type="checkbox"/> PRODUCTION START OR RESUME <input type="checkbox"/> REPERFORATE CURRENT FORMATION <input type="checkbox"/> TUBING REPAIR <input type="checkbox"/> WATER SHUTOFF <input type="checkbox"/> WILDCAT WELL DETERMINATION	<input type="checkbox"/> ALTER CASING <input type="checkbox"/> CHANGE TUBING <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS <input type="checkbox"/> FRACTURE TREAT <input type="checkbox"/> PLUG AND ABANDON <input type="checkbox"/> RECLAMATION OF WELL SITE <input type="checkbox"/> SIDETRACK TO REPAIR WELL <input type="checkbox"/> VENT OR FLARE <input type="checkbox"/> SI TA STATUS EXTENSION <input type="checkbox"/> OTHER	<input type="checkbox"/> CASING REPAIR <input type="checkbox"/> CHANGE WELL NAME <input type="checkbox"/> CONVERT WELL TYPE <input type="checkbox"/> NEW CONSTRUCTION <input type="checkbox"/> PLUG BACK <input checked="" type="checkbox"/> RECOMPLETE DIFFERENT FORMATION <input type="checkbox"/> TEMPORARY ABANDON <input type="checkbox"/> WATER DISPOSAL <input type="checkbox"/> APD EXTENSION OTHER: _____

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

Operator proposes to recomplete the subject well. This well has been identified to have pay behind pipe. We plan on opening the C, D2 & D1 sands by perforating and then hydraulically fracturing them. Refer to the attached recompletion procedure. Please contact Newfield Engineer Tom Walker at 303-383-4114 or Paul Weddle at 303-383-4117 for procedure questions.

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

Date: October 29, 2009

By: *Derek Duff*

<b>NAME (PLEASE PRINT)</b> Susan Linder	<b>PHONE NUMBER</b> 303 382-4443	<b>TITLE</b> Operations Tech
<b>SIGNATURE</b> N/A		<b>DATE</b> 10/23/2009

# Newfield Production Company

Federal 12-20Y-9-18

Procedure for: OAP D2, D1 & Csand. Tubing fracs

Well Status: See attached Wellbore Diagram

AFE #

Engineer: Paul Weddle [pweddle@newfield.com](mailto:pweddle@newfield.com)  
mobile 720-233-1280  
office 303-383-4117

## PROCEDURE

- 1 Blow down tbg. MIRU SU. Seat pump and pressure test tubing to 3,000 psi. POH, LD, and visually inspect rods and pump. ND wellhead. Strip-on and NU BOP. GIH and tag fill. Clean out to PBTD as necessary. TOOH visually inspecting 2-7/8" production tbg. Report any scale on production string (interval, depth, type) on morning report and verbally to Engineer
- 2 RU wireline unit. Make 4-3/4" gauge ring run to +/- **5,280**  
Only Run B&S if required. RIH and perforate the following interval w/ 4SPF 120deg phasing:

<b>C</b>	<b>4443-4448</b>	3spf	120deg phasing
<b>D2</b>	<b>4371-4374</b>	3spf	120deg phasing
<b>D2</b>	<b>4360-4369</b>	3spf	120deg phasing
<b>D1</b>	<b>4314-4319</b>	3spf	120deg phasing
- 3 PU tandem RBP/PKR and TIH on 2-7/8" N80 8RD EUE workstring. Breakdown all new perforations with 5-10 bbls fresh water while TIH (skip to next step if only 1 treatment zone)  
Set RBP @ +/- **4,500** and test to 4,000psi. PUH with packer to +/- **4,410**
- 4 RU frac equip. Frac the **C** down tubing w/**10,000**# 20/40sand at 15 BPM with max sand concentration of **5**ppg per BJ recommendation.
- 5 Flowback well immediately @ 3-4 BPM until dead.
- 6 Release Packer and RBP. RUH and:  
Set RBP @ +/- **4,420** and test to 4,000psi. PUH with packer to +/- **4,330**
- 7 RU frac equip. Frac the **D2** down tubing w/**75,000**# 20/40sand at 15 BPM with max sand concentration of 6ppg per BJ recommendation.
- 8 Flowback well immediately @ 3-4 BPM until dead.
- 9 Release Packer and RBP. RUH and:  
Set RBP @ +/- **4,340** and test to 4,000psi. PUH with packer to +/- **4,265**
- 10 RU frac equip. Frac the **D1** down tubing w/**10,000**# 20/40sand at 15 BPM with max sand concentration of **5**ppg per BJ recommendation.
- 11 Flowback well immediately @ 3-4 BPM until dead.
- 12 Release Packer and RBP. POOH laying down workstring, packer, and RBP.
- 13 **Run tubing as pulled.** RU swab equipment and swab well until returns are clean of sand. GIH tag fill and clean out as necessary.
- 14 Place SN @ ± 5150 and set TAC at ±5086' with 15,000 lbs overpull. ND BOP's. NU wellhead.
- 15 PU and RIH with a 2-1/2" x 1-3/4" x 24' RHAC pump, 6 x 1-1/2" weight rods, 48 x 3/4" guided rods, 50 x 3/4" slick rods, 101 x 7/8" guided rods, Space out with pony rods as necessary.
- 16 PWOP and track results for one month.

# Balcron Federal 12-20Y-9-18

Spud Date: 4/12/95  
 Put on Production: 5/18/95  
 GL: 5130' KB: 5140'

Initial Production: 29 BOPD,  
 NM MCFD, 7 BWPD

## P & A Wellbore Diagram

### SURFACE CASING

CSG SIZE: 8-5/8"  
 GRADE: J-55  
 WEIGHT: 24#  
 LENGTH: 6 jts. (268.75')  
 DEPTH LANDED: 278.75' KB  
 HOLE SIZE: 12-1/4"  
 CEMENT DATA: 160 sxs Class "G" cement. Est. 4 bbl to pit.

### PRODUCTION CASING

CSG SIZE: 5-1/2"  
 GRADE: J-55  
 WEIGHT: 15.5#  
 LENGTH: 128 jts. (5368.14')  
 DEPTH LANDED: 5377.14' KB  
 HOLE SIZE: 7-7/8"  
 CEMENT DATA: 350 sxs Super "G" & 202 sxs 50/50 POZ.  
 CEMENT TOP AT: 795' per CBL

### TUBING

SIZE/GRADE/WT: 2-7/8" / J-55  
 NO. OF JOINTS: 158 jts (5075.97')  
 TUBING ANCHOR: 5085.97  
 NO. OF JOINTS: 2 jts (62.95')  
 SEATING NIPPLE: 2-7/8" (1.10')  
 SN LANDED AT: 5150.18  
 NO. OF JOINTS: 1 jt. 31.20  
 TOTAL STRING LENGTH: EOT @ 5151.73'

### SUCKER RODS

POLISHED ROD: 1-1/2" x 22'  
 SUCKER RODS: 3/4" x 2', 2-3/4" x 6', 3/4" -8" pony rods, 101-3/4" x 25' guided rods, 50-3/4" x 25' slick rods, 48-3/4" x 25' guided rods, 6- 1 1/2" weight rods.  
 PUMP SIZE: 2-1/2" x 1-1/2" x 12" x 15" RHAC  
 STROKE LENGTH: 88  
 PUMP SPEED, SPM: 4

### FRAC JOB

5/05/95 5114'-5152' **Frac zone as follows:**  
 41,380# 20/40 sand + 65,120# 16/30 sand in 646 bbls 2% KCl fluid. Treated @ avg press of 2350 psi w/avg rate of 32 BPM. ISIP 1900 psi. Calc. flush: 5114 gal. Actual flush: 5040 gal.

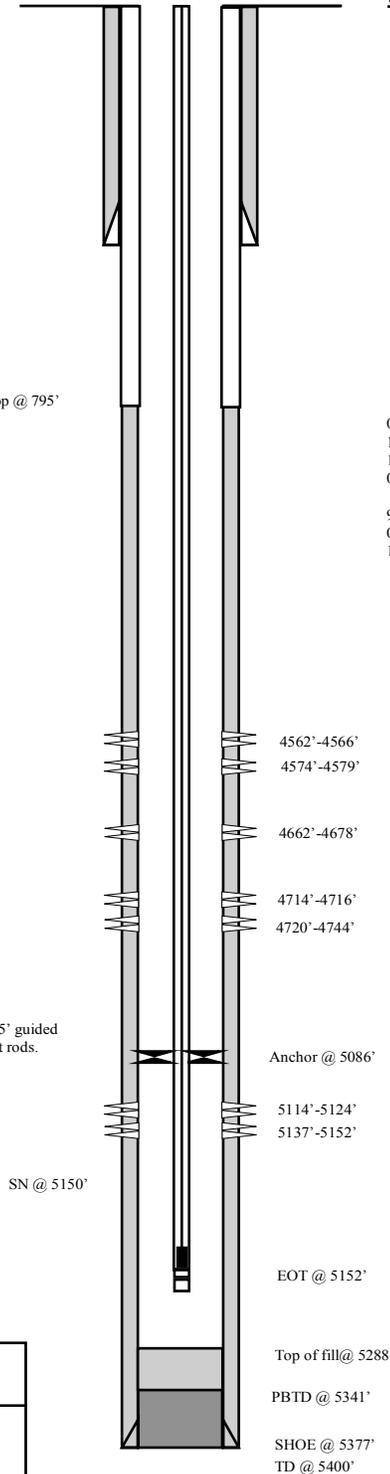
7/19/95 4662'-4744' **Frac zone as follows:**  
 205,290# 16/30 sand in 1109 bbls 2% KCl fluid. Treated @ avg press of 1800 psi w/avg rate of 39.5 BPM. ISIP 1800 psi. Calc. flush: 4662 gal. Actual flush: 4660 gal.

10/17/03 4562'-4579' **Frac B1 sands as follows:**  
 49,971# 20/40 sand in 411 bbls. Viking I-25 fluid. Treated @ avg. press of 2120 psi w/ avg rate of 24.4 BPM. ISIP 1780 psi. Calc. Flush: 4560 gal. Actual flush: 4351 gal.  
 \*Called flush f/blender—included 2.5 bbls. pump and line volume.

04/07/99 **Tubing leak:** Update rod and tubing detail.  
 11/30/04 **Hole in tubing:** Update rod and tubing detail.  
 11/08/05 **Hole in tubing:** Update rod and tubing detail  
 03/08/07 **Parted Rods:** Updated rod and tubing detail.

9/5/07 Tubing Leak. Updated rod & tubing detail.  
 07/10/08 Tubing Leak. No new details to update  
 1/17/09 Tubing Leak. Updated r & t details.

Cement top @ 795'



### PERFORATION RECORD

Date	Depth Range	Tool Joint	Holes
5/04/95	5137'-5152'	2 JSPF	30 holes
5/04/95	5114'-5124'	2 JSPF	20 holes
7/21/95	4720'-4744'	1 JSPF	24 holes
7/21/95	4714'-4716'	1 JSPF	02 holes
7/21/95	4662'-4678'	1 JSPF	16 holes
10/17/03	4562'-4566'	4 JSPF	16 holes
10/17/03	4574'-4579'	4 JSPF	20 holes

**NEWFIELD**

**Balcron Federal 12-20Y-9-18**

1980' FNL & 660' FWL

SWNW Section 20-T9S-R18E

Uintah Co, Utah

API #43-047-32617; Lease #UTU64917

DF 4/3/09

**RECEIVED** October 23, 2009