



**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

April 4, 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 these wells be held tight for the maximum period allowed by Federal and State regulations.

Sincerely,

*Bobbie Schuman*

Bobbie Schuman  
Regulatory and Environmental Specialist

APR 6 1994

/hs

Enclosure

cc: Utah Division of Oil, Gas and Mining

Balcron Federal #44-4Y  
SE SE Section 4, T9S, R17E  
660' FSL, 660' FEL  
Duchesne County, Utah  
Monument Butte Field  
FLS #U-65967  
PTD: 5,950'  
GL: 5201.5'

Balcron Federal #44-33Y  
SE SE Section 33, T8S, R18E  
778.4' FSL, 623.7' FEL  
Uintah County, Utah  
Eight Mile Flat North Field  
FLS #U-65969  
PTD: 6,000'  
GL: 4850.7'

Balcron Federal #31-5Y  
NW NE Section 5, T9S, R18E  
660' FNL, 1980' FEL  
Uintah County, Utah  
Eight Mile Flat North Field  
FLS #U-65970  
PTD: 5,950'  
GL: 4867.1'

Balcron Federal #41-19Y  
NE NE Section 19, T9S, R18E  
660' FNL, 660' FEL  
Uintah County, Utah  
Eight Mile Flat North Field  
FLS #U-65635 (EXPIRES 8/1/94)  
PTD: 5,550'  
GL 5129.9'

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

SUBMIT IN TRIPPLICATE\*  
(Other instructions on reverse side)

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

**CONFIDENTIAL**

LEASE DESIGNATION AND SERIAL NO.

U-65970

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: NW NE Section 5, T9S, R18E 660' FNL, 1980' FEL  
At proposed prod. zone

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.  
# 31-5Y

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

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA  
Sec. 5, T9S, R18E

12. COUNTY OR PARISH 13. STATE  
Uintah UTAH

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE\*  
From Myton, Utah, approximately 16 miles southwest

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  
5,950'

20. ROTARY OR CABLE TOOLS  
Rotary

21. ELEVATIONS (Show whether DF, RT, GR, etc.)  
GL 4867.1'

22. APPROX. DATE WORK WILL START\*  
May 1, 1994

23. PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
See attached				

See attached for listing for EXHIBITS.

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

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

24. SIGNED Bobbie Schuman TITLE Regulatory and Environmental Specialist DATE March 31, 1994  
Bobbie Schuman

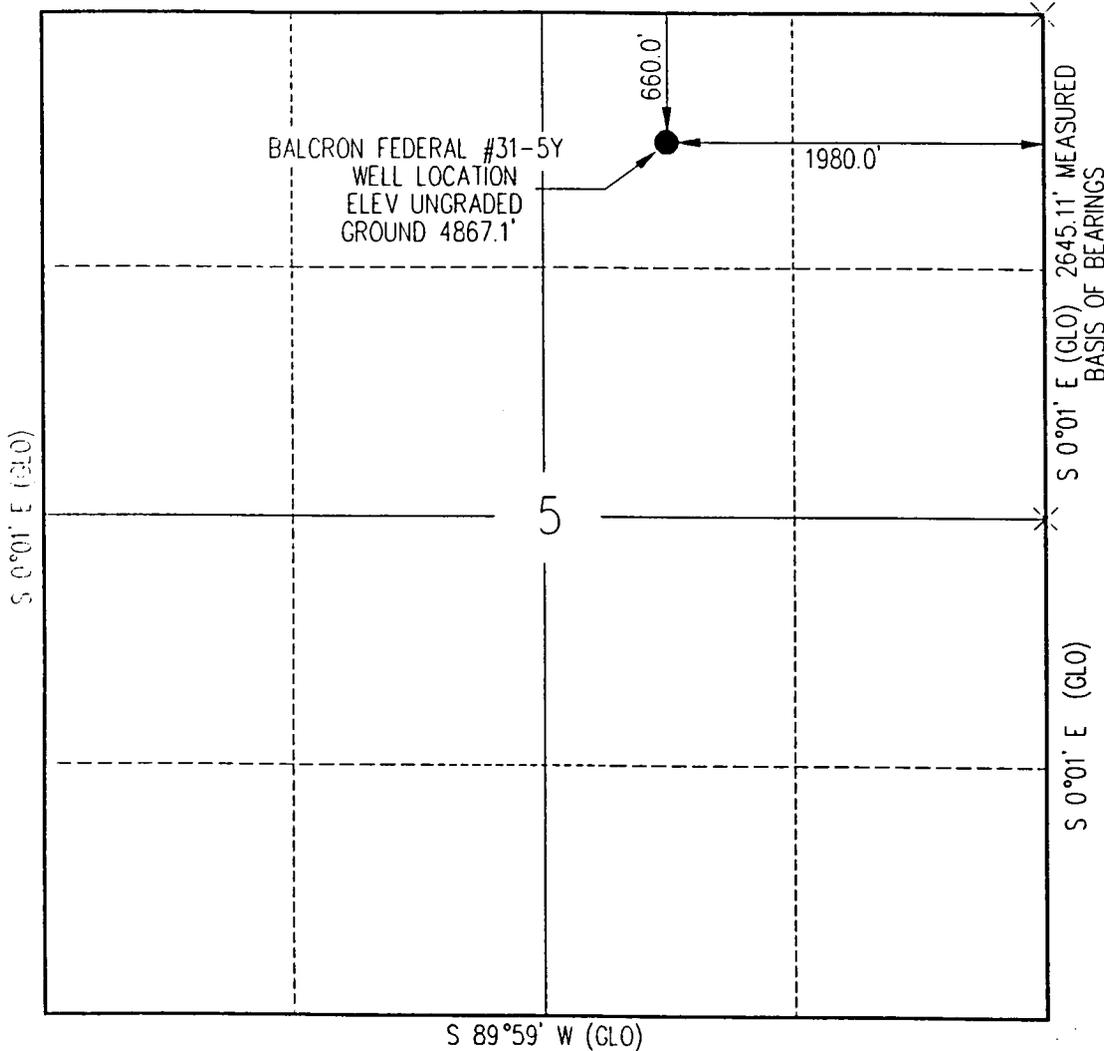
(This space for Federal or State office use)  
APPROVED BY THE STATE OF UTAH DIVISION OF OIL, GAS, AND MINING  
APPROVAL DATE: 6/14/94  
APPROVED BY: [Signature] TITLE: SPACING: K649-2-3

\*See Instructions On Reverse Side

EXHIBIT "F"

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

N 89°59' E (GLO)

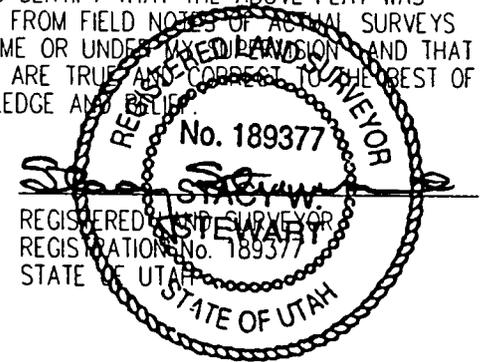


EQUITABLE RESOURCES ENERGY CO.

WELL LOCATION, BALCRON FEDERAL #31-5Y, LOCATED AS SHOWN IN THE NW 1/4 NE 1/4 OF SECTION 5, T9S, R18E, S.L.B. & M, UTAH COUNTY, UTAH.



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



X = SECTION CORNERS LOCATED \*  
BASIS OF BEARINGS; G.L.O. PLAT 1911  
BASIS OF ELEV; U.S.G.S. 7-1/2 min QUAD (PARIETTE DRAW SW)

WEATHER: STORMY & COLD
DATE: 2/18/94
SCALE: 1" = 1000'
SURVEYED BY: SS CB
FILE: 31-5Y



# **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

EXHIBITS FOR "Y" WELLS:

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

3/31/94/rs

EQUITABLE RESOURCES ENERGY COMPANY  
Balcron Oil Division  
Balcron Federal #31-5Y  
NW NE Section 5-T9S-R18E  
Duchesne County, Utah

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

1. ESTIMATED IMPORTANT GEOLOGICAL MARKERS:

See Geologic Prognosis (EXHIBIT "C")

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

See Geologic Prognosis (EXHIBIT "C")

3. OPERATOR'S MINIMUM SPECIFICATIONS FOR PRESSURE CONTROL:

- a. EXHIBIT "H" is a schematic of the BOP equipment and choke manifold. A 2M system will be used. The BOPE will be installed after setting 8-5/8" casing at 260'. The blind rams and pipe rams will be tested to 1500 psi. Pipe rams will be operationally checked each 24-hour period and blind rams each time pipe is pulled out of the hole.
- b. The BOPE will be tested to 1500 psi when initially installed, whenever any seal subject to test pressure is broken, and following related repairs. The pipe and blind rams will be activated at least weekly and on every trip the pipe and blind rams will be activated.
- c. An accumulator of sufficient capacity to open the hydraulically-controlled choke valve lines (if so equipped), close all rams, and retain a minimum of 200 psi above precharge on the closing manifold without the use of the closing unit pumps will be installed during the drilling of this well.
- d. An upper kelly cock will be used during the drilling of this well.
- e. Visual mud monitoring equipment will be used to detect volume changes indicating loss or gain in circulating fluid volume.
- f. Sufficient quantities of mud materials will be maintained or readily accessible for the purpose of assuring well control.

4. PROPOSED CASING AND CEMENTING PROGRAM:

- a. Surface casing will be set in the Uinta formation to approximately 260' and cemented to surface.
- b. All potentially productive hydrocarbon zones will be isolated.
- c. Casing designs are based on factors of burst: 1.25, 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.

**Multi-Point Surface Use and Operations Plan**

EQUITABLE RESOURCES ENERGY COMPANY  
BALCRON OIL DIVISION  
BALCRON FEDERAL #31-5Y  
NW NE SECTION 5, T9S, R18E  
UINTAH COUNTY, UTAH

**1. Existing Roads: Refer to Maps "A" & "B" (shown in RED)**

- A. The proposed well site is staked and four reference stakes are present. 175' & 200' West.
- B. The Monument Federal #31-5Y is located 16 miles Southwest of Myton Utah in the NW1/4 NE1/4 Section 5, T9S, R18E, SLB&M, Uintah County, Utah. To reach the 31-5Y, proceed West from Myton, Utah along U.S. Highway 40 for 1.6 miles to the junction of this highway and Sand Wash road; Proceed South along the Sand Wash road approximately 16.1 miles to a road intersection, turn left and continue 1.7 miles to proposed access road sign. Follow flags 2200 feet to location.
- C. Access roads - refer to Maps "A" and "B".
- D. Access roads within a one-mile radius - refer to map "B".
- E. The existing roads will be maintained in the same or better condition as existed prior to the commencement of operations and said maintenance will continue until final abandonment and reclamation of the well location.

**2. Planned Access Roads: Refer to Map "B"**

Approximately 2200 feet of new road construction will be required for access to the proposed well location.

- A. Width - maximum 30-foot overall right-of-way with an 18-foot road running surface, crowned & ditched and/or sloped and dipped.

- B. Construction standard - the access road will be constructed so as to 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 will be constructed to meet the standards of the anticipated traffic flow and all-weather requirements. Construction will include ditching, draining, crowning, and capping or sloping and dipping the roadbed as necessary to provide a well constructed and safe road. Prior to construction/upgrading, the roadway shall be cleared of any snow cover and allowed to dry completely. Traveling off of the thirty (30) foot right-of-way will not be allowed.

Road drainage crossings shall be of the typical dry creek drainage crossing type. Crossing shall be designed so they will not cause siltation or the 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 shall not be allowed during muddy conditions.

Should mud holes develop, they shall be filled in and detours around them avoided.

- C. Maximum grade - Less than 10%
- D. Turnouts - no turnouts will be required on this access road.
- E. Drainage design - the access road will be crowned and ditched or sloped and dipped, and water turnouts installed as necessary to provide for proper drainage along the access road route.
- F. Culverts, cuts and fills - no culverts will be required. There are no major cuts and/or fills on/along the proposed access road route.
- G. Surface materials - all construction materials will be native material taken from onsite.
- H. Gates, cattleguards or fence cuts - none required.
- I. Road maintenance - during both the drilling and production phase of operations, the road surface and shoulders will be kept in a safe and useable condition and

will be maintained in accordance with the original construction standards. All drainage ditches and culverts will be kept clear and free-flowing, and will also be maintained in accordance with the original construction standards. The access road right-of-way will be kept free of trash during operations.

- J. The proposed access road has been centerline flagged.
- K. If a right-of-way is required please consider this APD the application for said right-of-way.

**3. Location of Existing Wells Within a One-Mile Radius:**

Please Refer to Map "C"

- A. Water wells - none known.
- B. Abandoned wells - see Map "C"
- C. Temporarily abandoned wells - none known.
- D. Disposal wells - none known.
- E. Drilling wells - none known.
- F. Producing wells - see Map "C".
- G. Shut-in wells - none known.
- H. Injection wells - none known.
- I. Monitoring wells - none known.

**4. Location of Existing and/or Proposed Facilities Owned by Equitable Resources Energy Company Within a One-Mile Radius:**

A. Existing

- 1. Tank batteries - see Map "C".
- 2. Production facilities - see Map "C".
- 3. Oil gathering lines - none.
- 4. Gas gathering lines - see Map "C".

B. New Facilities Contemplated

- 1. All production facilities will be located on the disturbed portion of the well pad and at a minimum of twenty-five (25) feet from the toe of the backslope or toe of the fill slope.
- 2. The production facilities will consist primarily of a pumping unit, Two tanks and an emergency pit. A diagram showing the proposed production facility layout is included in this APD. The tank battery will be located approximately 100' south of location along the proposed access road on a higher point of ground to get them out of the floodplain.

3. Production facilities will be accommodated on the existing well pad. Construction materials required for installation of the production facilities will be obtained from the site; any additional materials required will be purchased from a local supplier having a permitted (private) source of materials within the area.

A dike will be constructed completely around those production facilities which contain fluids (i.e. production tanks, produced water tanks and/or heater treater). These dikes will be constructed of compacted subsoil, be impervious, hold 100% of the capacity of the largest tank, and be independent of the back cut.

4. All permanent (onsite for six months or longer) above the ground structures constructed or installed including pumping units) will be painted Desert Brown. All production facilities will be painted within six (6) months of installation. Facilities required to comply with Occupational Health and Safety Act Rules and Regulations will be excluded from this painting requirement.

C. The production (emergency) pit will be 12'x12' and will be fenced. Said fence will be maintained in good condition.

D. During drilling and subsequent operations, all equipment and vehicles will be confined to the access road right-of-way and any additional areas as specified in the approved Application for Permit to Drill.

E. Reclamation of disturbed areas no longer needed for operation will be accomplished by grading, leveling and seeding as recommended by the Bureau of Land Management.

For Pipeline:

F. Any proposed pipelines will be submitted to the authorized officer Via Sundry Notice for approval of subsequent operations.

G. Equitable Resources Energy Company shall be responsible for road maintenance from the beginning to completion of operations.

## 5. Location and Type of Water Supply

- A. Water to be used for the drilling of these wells will be hauled by truck over the roads described in item #1 and item #2, from a well owned by Owen Dale Anderson of Vernal Utah or from a spring owned by Joe Shields of Myton Utah. Source will be determined by sundry notice closer to the beginning of drilling operations.
- B. No water well will be drilled on this location.

**6. Source of Construction Materials**

- A. No construction materials are needed for drilling operations. In the event of production, the small amount of gravel needed for facilities will be hauled in by truck from a local gravel pit over existing access roads to the area. No special access other than for drilling operations and pipeline construction is needed.
- B. All access roads crossing Federal land are described under item #2, and shown on Map #A.

All construction material for these location sites and access roads shall be borrowed material accumulated during the construction of the location sites and access roads. No additional construction material from other sources is anticipated at this time, if in the future it is required the appropriate actions will be taken to acquire it from private sources.

- C. All surface disturbance area is on B.L.M. lands.
- D. There are no trees on this location.

**7. Methods of Handling Waste Materials:**

- A. Cuttings - the cuttings will be deposited in the reserve pit.
- B. Drilling fluids - including salts and chemicals will be contained in the reserve pit. Upon termination of drilling and completion operations, the liquid contents of the reserve pit will be removed and disposed of at an approved waste disposal facility within one hundred twenty (120) days after termination of drilling and completion activities.

In the event adverse weather conditions prevent removal of the fluids from the reserve pit within this time period, an extension may be granted by the Authorized Officer upon receipt of a written request from Equitable Resources Energy Company.

The reserve pit will be constructed so as not to leak, break, or allow discharge. The reserve pit will be lined with a 12 mil plastic reinforced liner.

- C. Produced fluids - liquid hydrocarbons produced during completion operations will be placed in test tanks on the location. Produced waste water will be confined to a lined pit (reserve pit) or storage tank for a period not to exceed ninety (90) days after initial production. During the ninety (90) day period, in accordance with Onshore Order #7, an application for approval of a permanent disposal method and location, along with the required water analysis, shall be submitted for the Authorized Officer's approval. Failure to file an application within the time frame allowed will be considered an incidence of noncompliance.

Any spills of oil, gas, salt water or other noxious fluids will be immediately cleaned up and removed to an approved disposal site.

- D. Sewage - self-contained, chemical toilets will be provided for human waste disposal. Upon completion of operations, or as needed, the toilet holding tanks will be pumped and the contents thereof disposed of in the nearest, approved, sewage disposal facility.
- E. Garbage and other waste material - garbage, trash and other waste materials will be collected in a portable, self-contained and fully-enclosed trash cage during drilling and completion operations. Upon completion of operations (or as needed) the accumulated trash will be disposed of at an authorized sanitary landfill. No trash will be burned on location or placed in the reserve pit.
- F. Immediately after removal of the drilling rig, all debris and other waste materials not contained in the trash cage will be cleaned up and removed from the well location. No adverse materials will be left on the location. Any open pits will be fenced during the drilling operation and the fencing will be maintained until such time as the pits are backfilled.
- G. The reserve and/or production pit will be constructed on the existing location and will not be located in natural drainages where a flood hazard exists or surface runoff will destroy or damage the pit walls. All pits will be constructed so as not to leak, break, or allow the discharge of liquids therefrom.

## **8. Ancillary Facilities:**

None anticipated.

**9. Wellsite Layout:**

- A. Plat #1 shows the drill site layout as staked. Cross sections have been drafted to visualize the planned cuts and fills across the location. An average minimum of six (6) inches of topsoil will be stripped from the location (including areas of cut, fill, and/or subsoil storage) and stockpiled for future reclamation of the well site. Refer to Figure #1 for the location of the topsoil and subsoil stockpiles. The reserve pit will be on the South side of location. The flare pit will be located downwind of the prevailing wind direction on the Southeast near corner #4. Access will be from the North near corner #6.
- B. Plat #2 is a diagram showing the rig layout. No permanent living facilities are planned. There may be as many as three (3) trailers on location during drilling operation.
- C. A completion rig will be moved onto location for completion operations after drilling operations have been completed and the drilling rig has been moved off location.
- D. A diagram showing the proposed production facility layout is included in this APD.
- E. The reserve pit will be constructed so as to be capable of holding 12,000 bbls. of fluid.

The reserve pit will be lined with a 12 mil plastic liner, it will be torn and perforated after the pit dries and before backfilling of the reserve pit.

- F. Prior to the commencement of drilling operations, the reserve pit will be fenced on three (3) sides using 39-inch net wire with one strand of barbed wire on top of the net wire. The net wire will be no more than two inches above the ground. the barbed wire will be three inches above the net wire. total height of the fence will be at least 42-inches.
  - 1. Corner posts shall be cemented and/or braced in such a manner to keep the fence tight at all times.
  - 2. Standard steel, wood, or pipe posts shall be used between the corner braces. The maximum distance between any two (2) posts shall be no greater than sixteen (16) feet.

3. All wire shall be stretched, by using a stretching device, before it is attached to the corner posts.

The fourth side of the reserve pit will be fenced immediately upon removal of the drilling rig and the fencing will be maintained until the pit is backfilled.

- G. Any hydrocarbons on the pit will be removed from the pit as soon as possible after completion operations are completed.

#### **10. Plans for Reclamation of the Surface:**

The B.L.M. will be contacted prior to commencement of any reclamation operations.

##### **A. Production**

1. Immediately upon well completion, the well location and surrounding area(s) will be cleared of all debris, materials, trash and junk not required for production.
2. Immediately upon well completion, any hydrocarbons on the pit shall be removed in accordance with 43 CFR 3162.7-1.
3. The plastic pit liner shall be torn and perforated before backfilling of the reserve pit.
4. Before any dirt work to restore the location takes place, the reserve pit will be completely dry and all cans, barrels, pipe, etc. will be removed.

Other waste and spoil materials will be disposed of immediately upon completion of drilling and workover activities.

5. The reserve pit and that portion of the location and access road not needed for production facilities/operations will be reclaimed within one hundred twenty (120) days from the date of well completion, weather permitting.
6. If the well is a producer, Equitable Resources Energy Company will, upgrade and maintain access roads as necessary to prevent soil erosion, and accommodate year round traffic. Reshape areas unnecessary to operations, distribute topsoil, disk and seed all disturbed areas outside the work area according to the recommended seed mixture. Perennial vegetation must be established. Additional work shall be required in case

of seeding failures, etc.

If the well is abandoned/dry hole, Equitable Resources Energy Company will, restore the access road and location to approximately the original contours. During reclamation of the site, push the fill material into cuts and up over the backslope. Leave no depressions that will trap water or form ponds. Distribute topsoil evenly over the location, and seed according to the above seed mixture. The access road and location shall be ripped or disked prior to seeding. Perennial vegetation must be established. Additional work shall be required in case of seeding failures, etc.

Seedbed will be prepared by disking, following the natural contours. Seed will be drilled on contours at a depth no greater than one-half inch (1/2"). In areas that cannot be drilled, seed will be broadcast at double the seeding rate and harrowed into soil. Certified seed will be used whenever available.

Fall seeding will be completed after September 15 and prior to prolonged ground frost. Spring seeding, to be effective, will be completed after the frost has left the ground and prior to May 15th.

7. Upon completion of backfilling, leveling and recontouring, the stockpiled topsoil will be evenly spread over the reclaimed area(s). Prior to reseeding, all disturbed surfaces will be scarified and left with a rough surface. No depressions will be left that would trap water and form ponds. All disturbed surfaces will be reseeded with the seed mixture stipulated by the B.L.M.

Seed will be drilled on the contour to a approximate depth of one-half (1/2) inch. All seeding will be conducted after September 15 and prior to ground frost. Spring seeding will be done after the frost leaves the ground and no later than May 15. If the seeding is unsuccessful, Equitable Resources may be required to make subsequent seedings.

#### B. Dry Hole/Abandoned Location

1. On lands administered by the Bureau of Land Management, abandoned well sites, roads, or other disturbed areas will be restored to near their original condition. This procedure will include:

(c) ensuring revegetation of the disturbed areas to the specifications of the Bureau of Land Management at the time of abandonment.

2. All disturbed surfaces will be recontoured to the approximate natural contours and reseeded according to BLM specifications. Reclamation of the well pad and access road will be performed as soon as practical after final abandonment and reseeded operations will be performed in the fall or spring following completion of reclamation operations.

#### **11. Surface Ownership:**

The well site and proposed access road are situated on surface lands administered by

Bureau of Land Management  
Vernal District Office  
Vernal, Utah

#### **12. Other Information:**

- A. Topographic and geologic features of the area (reference Topographic Map #A) are:

The proposed drill site is located in the Monument Butte oil field, which lies in a large basin formed by the Uinta Mountains to the North and the Bookcliff Mountains to the South. The site is located approximately 15 miles Northwest of the Green River, which is the major drainage for this area, and approximately 13 miles Southwest of Myton Utah.

This basin floor is interlaced with numerous canyons and ridges formed by the non-perennial streams of the area. The sides of these canyons are steep and ledges formed in sandstone, conglomerate deposits and shale are common in this area.

The geologic structures that are visible in the area are of the Uinta formation (Eocene Epoch) tertiary period and the cobblestone and younger alluvial deposits from the Quaternary period.

The soils in the semi-arid area of the Williams Fork Formation (Upper Cretaceous) and Wasatch Formation (Eocene) consist of light brownish gray clay (OL) to sand soil (SM-ML) type with poorly graded gravels.

Outcrops of sandstone ledges, conglomerate deposits and shale are common in this area.

The topsoils in the area range from a sandy clay (SM-ML) type soil to a clayey (OL) soil.

The majority of the numerous washes and draws in the area are of a non-perennial nature flowing during the early spring run-off and heavy rain storms of long duration which are rare as the normal annual rainfall in the area is only 8".

The flora of the area includes sagebrush, mountain mahogany, serviceberry, rabbit brush, greasewood, four-wing saltbush, Gambel scrub oak, willow, tamarack, shadscale, Spanish bayonet, indian rice grass, cheatgrass, wheatgrass, curly grass, crested wheatgrass, sweet clover, gum weed, foxtail, mustard, Canadian thistle, Russian thistle, Kochia, sunflowers and cacti.

The fauna of the area includes cattle, horses, elk, deer, coyotes, rabbits, rodents, lizards, bull snakes, rattle snakes, water snakes and horned toads. Birds of the area are ground sparrows, bluejays, bluebirds, magpies, ravens, raptors, morning doves, swallows, nighthawks, hummingbirds, and chukar.

- B. The surface ownership is Federal. The surface use is grazing and petroleum production.
- C.
  1. The closest live water is the Green River which is approximately 15 miles Southwest of the proposed site.
  2. There are no occupied dwellings in the immediate area
  3. An archaeological report will be forwarded upon completion.
  4. There are no reported restrictions or reservations noted on the oil and gas lease.
  5. No silt catchment dam will be constructed for 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, Drilling Engineer      Home: (406) 248-3864

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

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 Balcron Oil, a division of Equitable Resources Energy Company, and its contractors and subcontractors in conformity with this plan and the terms and conditions under which it is approved. This statement is subject to the provisions of 18 U.S.C. 1001 for the filing of a false statement.

March 31, 1994  
Date

Bobbie Schuman  
Bobbie Schuman  
Regulatory and Environmental  
Specialist  
Equitable Resources Energy  
Company, BALCRON OIL DIVISION

3/30/94  
/rs



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

DRILLING PROGRAM

WELL NAME: Balcron Federal #31-5Y PROSPECT/FIELD: Monument Butte Area  
 LOCATION: NW NE Sec. 5 Twn. 9S Rge. 18E  
 COUNTY: Uintah STATE: Utah

TOTAL DEPTH: 5950

HOLE SIZE INTERVAL

12 1/4" 0 to 260'  
 7 7/8" 260 to T.D.

CASING	INTERVAL		CASING		
	FROM	TO	SIZE	WEIGHT	GRADE
STRING TYPE					
Surface Casing	0	260	8 5/8"	24 #/Ft	J-55
Production Casing	0	T.D.	5 1/2"	15.50#/Ft	J-55

(All Casing will be new, ST&C)

CEMENT PROGRAM

Surface 150 sacks 75% Class "G" 25% Poz 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.

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.

depending on the drilling contractor either:  
 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.  
 b.) Drilling will be done using 2% KCl water and gel.

COMMENTS

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



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



UNION DRILLING RIG #17

Hex Kelly

ROTATING HEAD

ADJ. CHOKE

AIR BOWL

7" FLOWLINE

#3000  
BLIND RM. PIPE RM

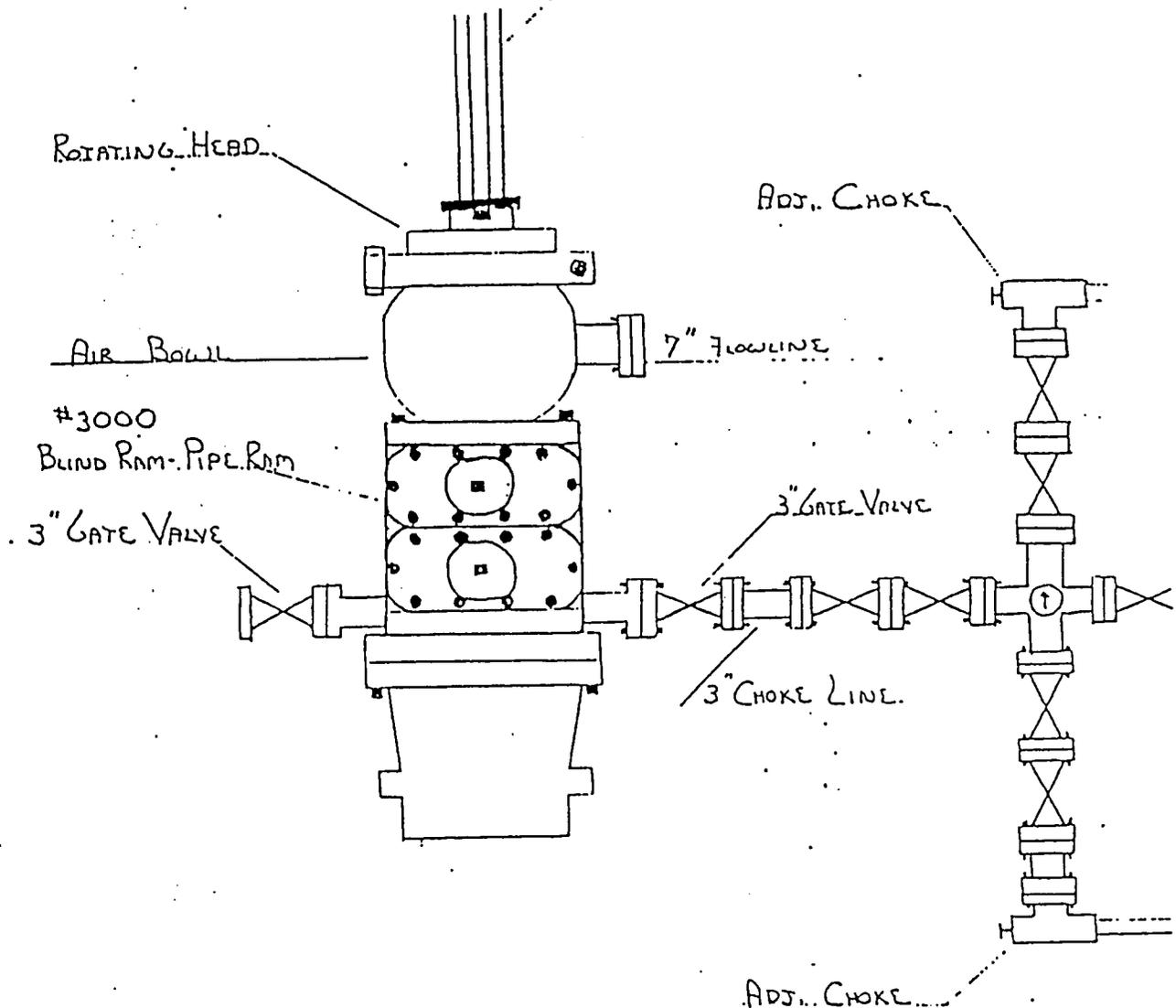
3" GATE VALVE

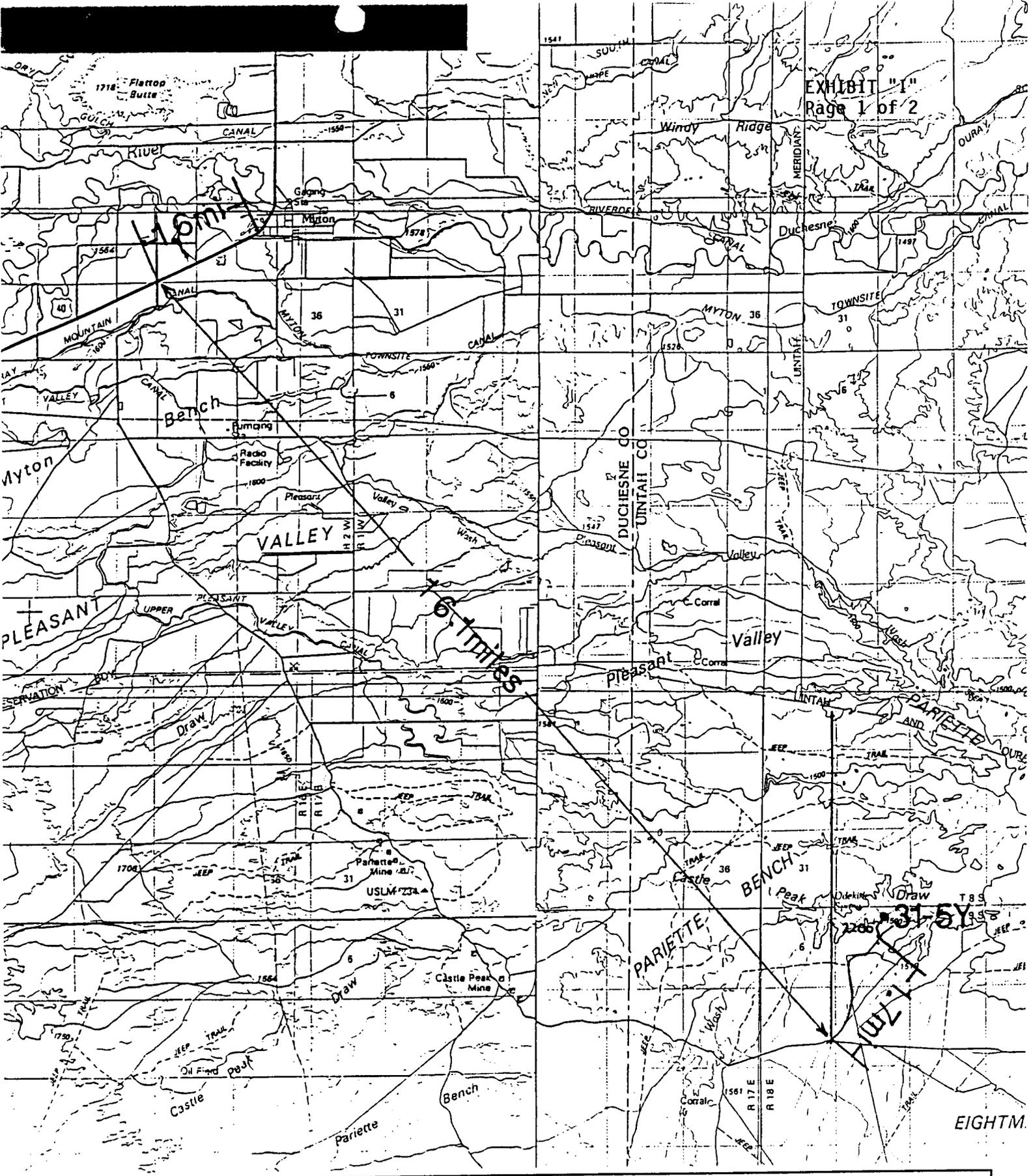
3" GATE VALVE

3" CHOKE LINE

ADJ. CHOKE

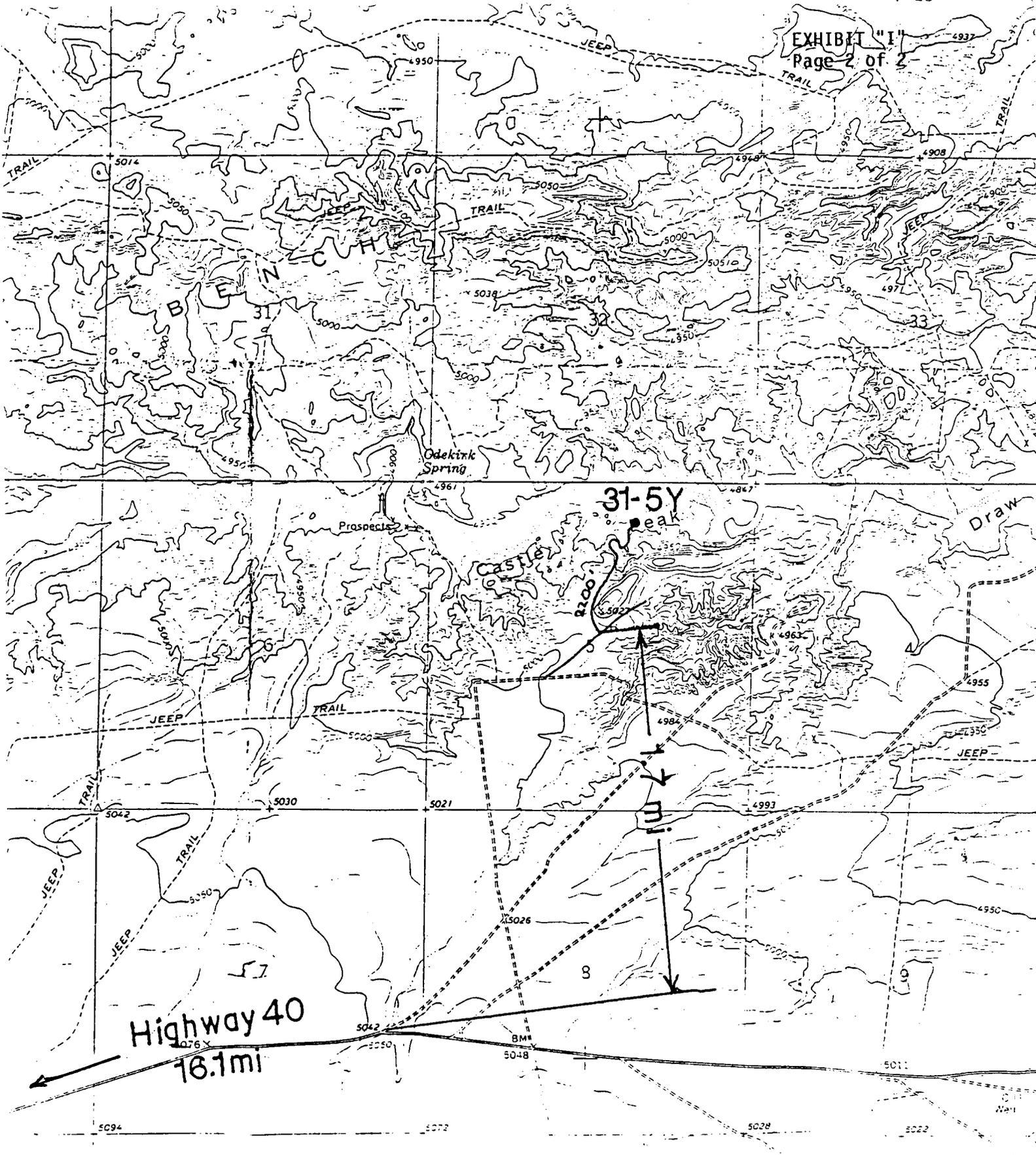
#3000 STACK





EQUITABLE RESOURCES ENERGY CO.  
 FEDERAL #31-5Y  
 MAP "A"

TRI-STATE  
 LAND SURVEYING, INC.  
 35 WEST 130 NORTH, VERNAL, UTAH 84055  
 801-781-2501

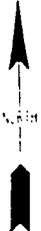


Highway 40  
16.1 mi

31-5Y  
Peak

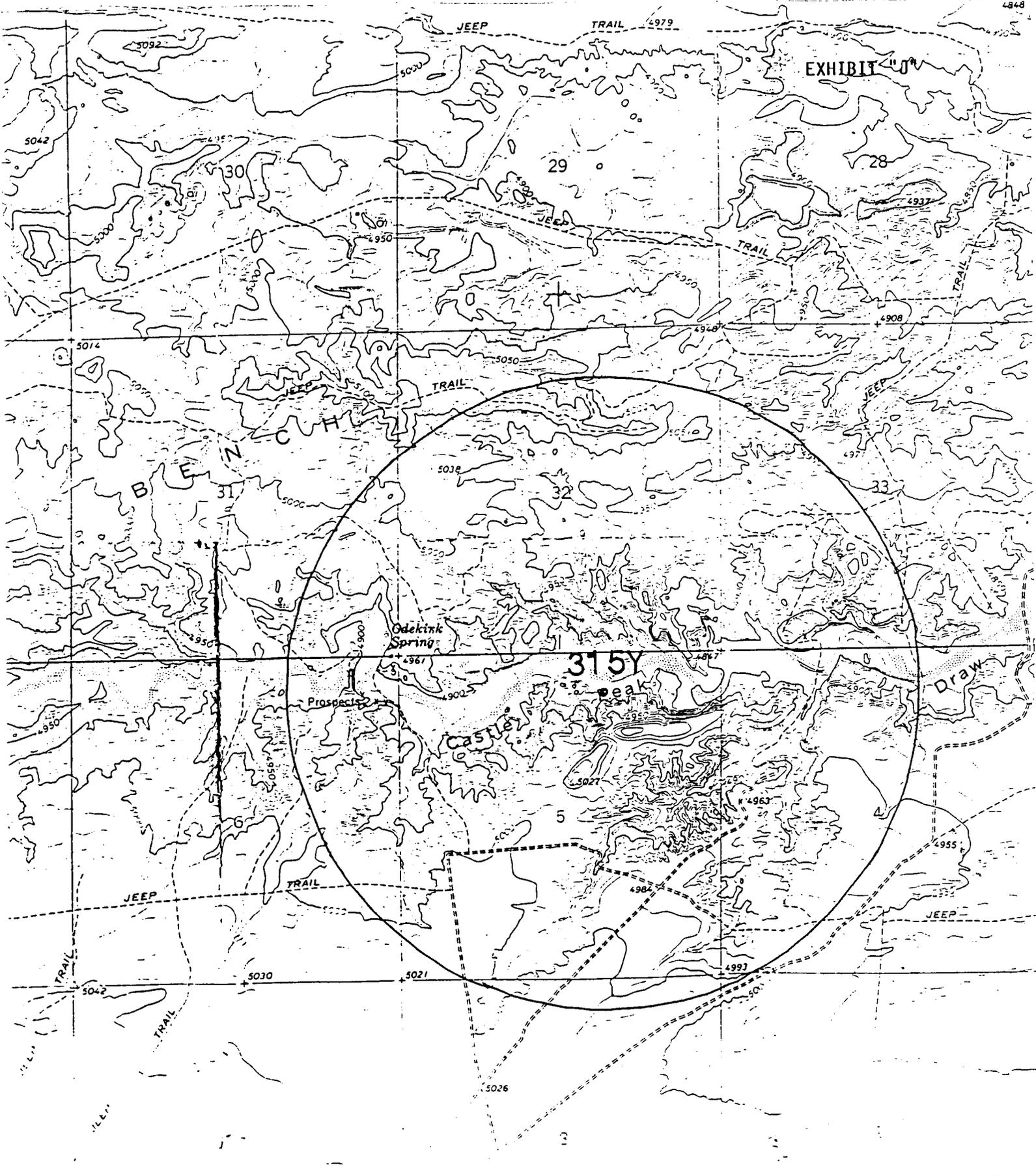
Castle  
Peak

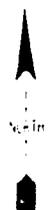
1.1 mi



EQUITABLE RESOURCES ENERGY CO.  
FEDERAL #31-51  
MAP "B"







North

**EQUITABLE RESOURCES ENERGY CO.**  
 FEDERAL #31-5Y  
 MAP "O"

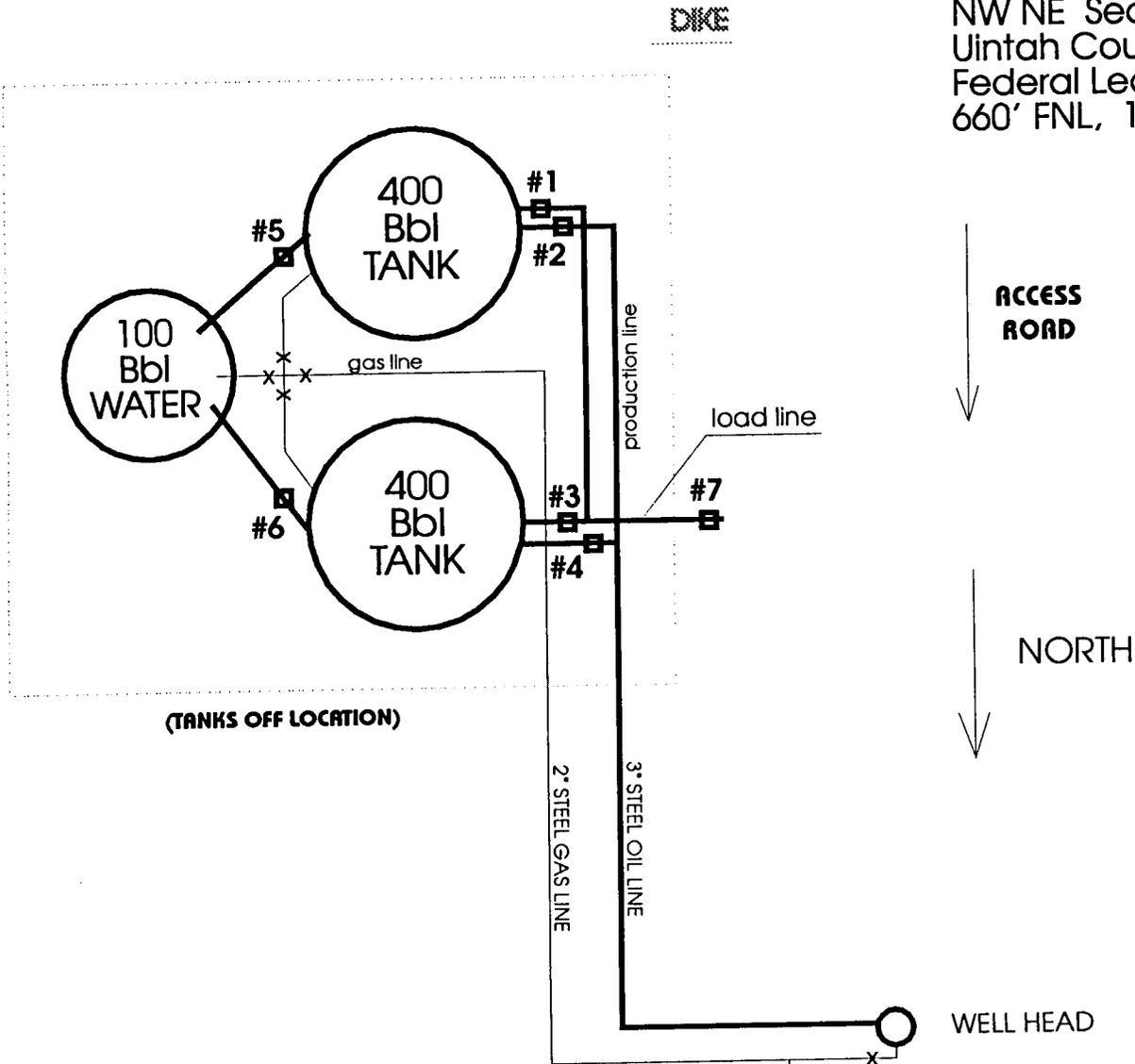


**TRI-STATE**  
 LAND SURVEYING, INC.  
 22 ALST. RD. WORTH, MISSOURI 65076  
 801-781-2501

Equitable Resources Energy Company  
 Balcron Federal 31-5Y  
 Proposed Production Facility Diagram

EXHIBIT "K"

Balcron Federal 31-5Y  
 NW NE Sec. 5, T9S, R18E  
 Uintah County, Utah  
 Federal Lease #U-65970  
 660' FNL, 1980' FEL



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

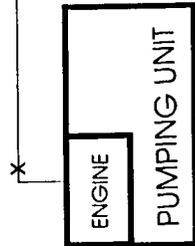


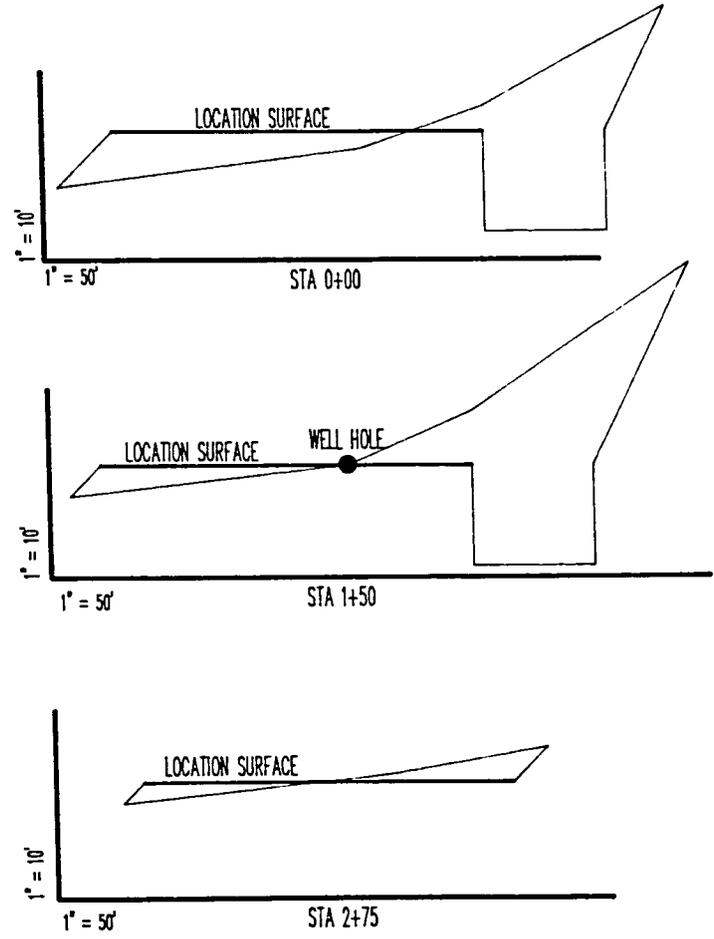
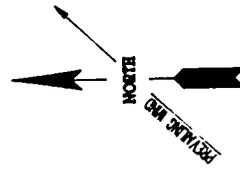
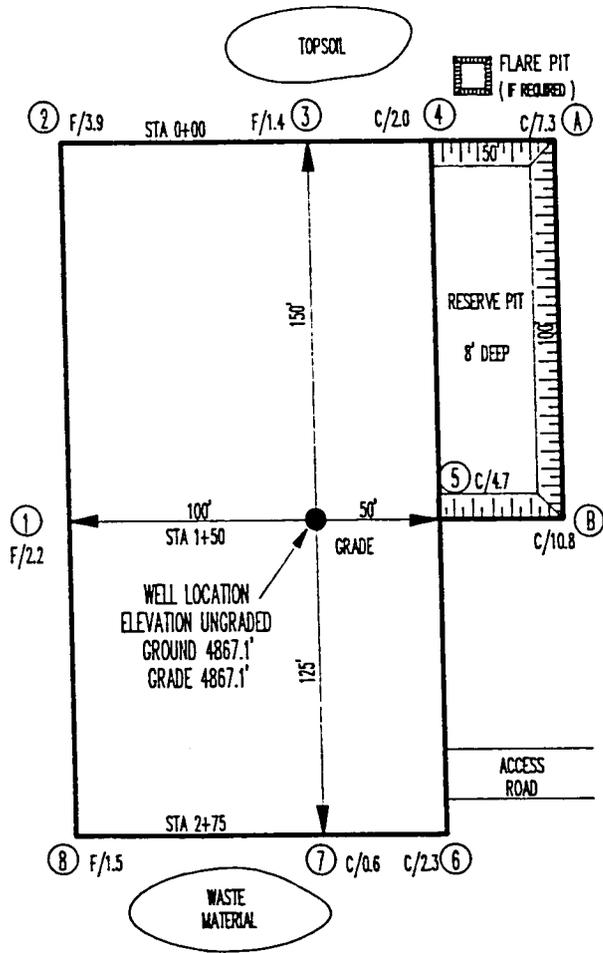
DIAGRAM NOT TO SCALE



**EQUITABLE RESOURCES ENERGY COMPANY**  
 BALCRON OIL DIVISION

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

**EQUITABLE RESOURCES ENERGY CO.**  
BALCRON FEDERAL #31-5Y



**REFERENCE POINTS**  
175.0' WEST 4866.5'  
200.0' WEST 4866.7'

**APPROXIMATE YARDAGE**  
C/T = 2507 Cu Yds  
FLL = 1462 Cu Yds  
PIT = 2222.0 Cu Yds

NOTE: CANNOT BALANCE DIRT WITHOUT PUTTING RIG ON FILL

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

WORKSHEET  
APPLICATION FOR PERMIT TO DRILL

APD RECEIVED: 04/06/94

API NO. ASSIGNED: 43-047-32503

WELL NAME: BALCRON FEDERAL #31-5Y  
OPERATOR: BALCRON OIL (N9890)

PROPOSED LOCATION:  
NWNE 05 - T09S - R18E  
SURFACE: 0660-FNL-1980-FEL  
BOTTOM: 0660-FNL-1980-FEL  
UINTAH COUNTY  
EIGHT MILE FLAT NORTH FIELD (590)

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

LEASE TYPE: FED  
LEASE NUMBER: U-65970

RECEIVED AND/OR REVIEWED:

Y Plat  
Y Bond: Federal [] State [] Fee [  
(Number 5547188)

N Potash (Y/N)  
N Oil shale (Y/N)  
Y Water permit  
(Number JOE SHIELDS)

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  
EXPIRED  
04-21-96

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

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

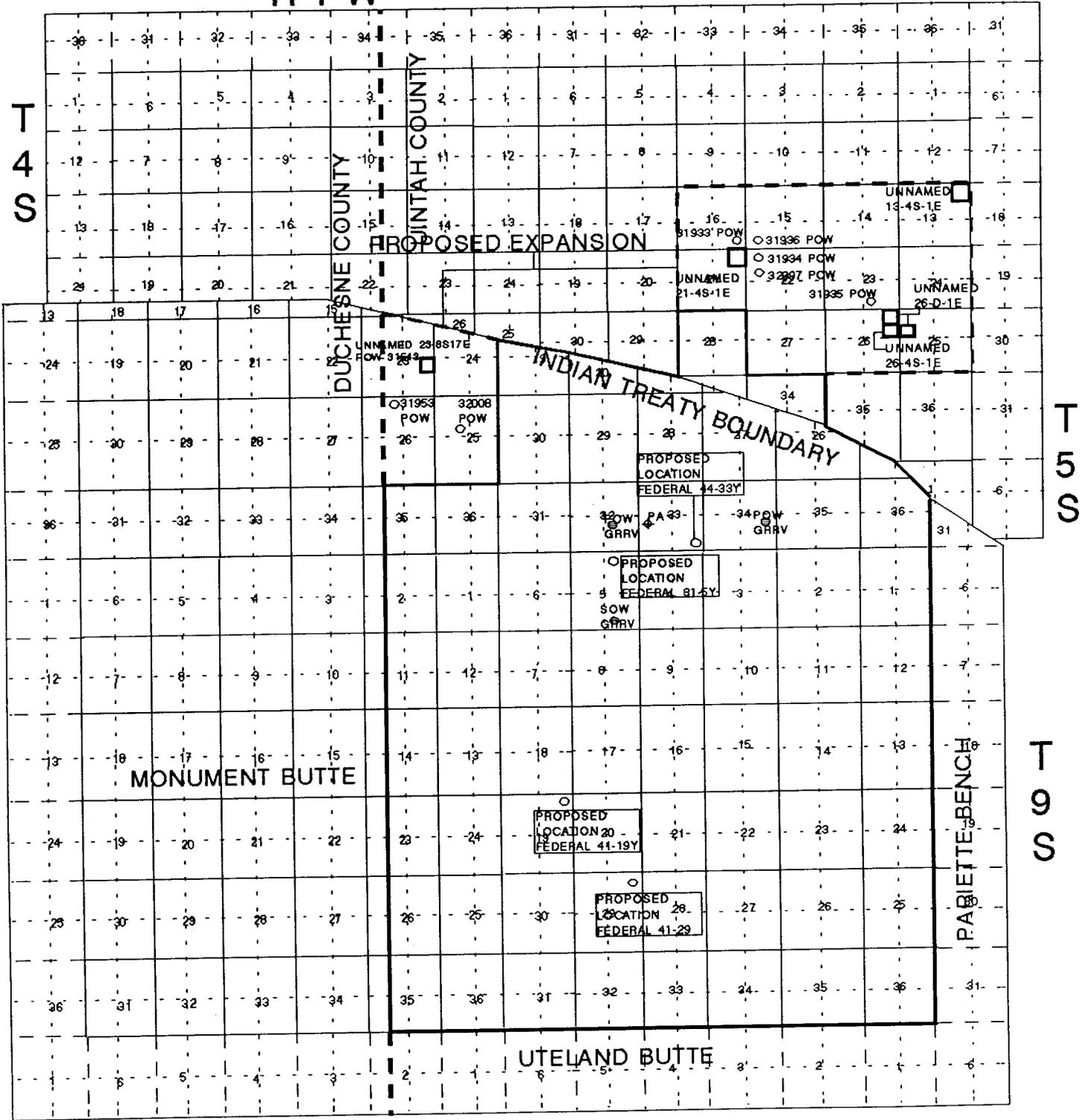
\_\_\_\_\_

\_\_\_\_\_

# EIGHT MILE FLAT NORTH

R 1 W

R 1 E



R 17 E

R 18 E

UINTAH COUNTY

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

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

Well Name: BALCRON FED. #31-5Y API Number: 43-047-32503

Section: 5 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): 1 Heated Separator(s):      VRU:     

Heater Treater(s):     

**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): 2 400 W/BURNERS BBLs

Water Tank(s): 1 100 BBLs

Power Water Tank:           BBLs

Condensate Tank(s):           BBLs

Propane Tank:     

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

Qtr/Qtr:      Section:      Township:      Range:     

**REMARKS: ALL EQUIPMENT EXCEPT GAS OPERATED PUMPJACK AND LINE HEATER IS LOCATED APPROX. 1,000 FEET SOUTH OF LOCATION. CASINGHEAD GAS TIED TO RESIDUE GAS LINE.**

Inspector: DAVID W. HACKFORD Date: 12/9/94

Equitable Resource

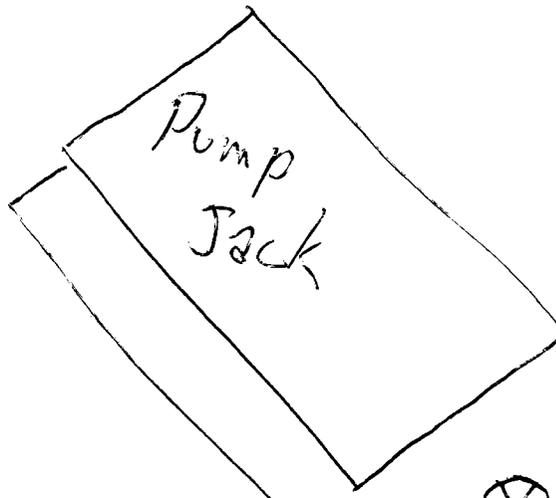
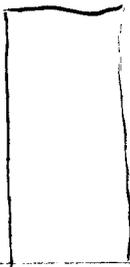
43-047-32503

Balcon Fed. #31-54

Access

↑  
North

Line Heater



wellhead

Emulsion line runs approx. 1000' south  
to production tanks.

Topsoil

STATE OF UTAH  
DIVISION OF OIL, GAS AND MINING

**CONFIDENTIAL**

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK		Designation and Serial No. Federal # U-65970
Type of Work DRILL <input checked="" type="checkbox"/> DEEPEN <input type="checkbox"/> PLUG BACK <input type="checkbox"/>	6. If Indian, Allotted or Tribe Name n/a	
Type of Well Oil Well <input checked="" type="checkbox"/> Gas Well <input type="checkbox"/> Other <input type="checkbox"/>	7. Unit Agreement Name n/a	
Name of Operator Equitable Resources Energy Company, Balcron Oil Division	8. Farm or Lease Name Balcron Federal	
Address of Operator P.O. Box 21017; Billings, MT 59104	9. Well No. #31-5Y	
Location of Well (Report location clearly and in accordance with any State requirements.) At surface NW NE Sec. 5, T9S, R18E 660' FNL, 1980' FEL	10. Field and Pool, or Wildcat 8 Mile Flat North/Green River	
At proposed prod. zone	11. 00, Sec., T., R., M., or Bk., and Survey or Area NW NE 5, T9S, R18E	
Distance in miles and direction from nearest town or post office* From Myton, Utah, approximately 16 miles southwest.	12. County or Parish Uintah	13. State UTAH
Distance from proposed location to nearest property or lease line, ft. (Also to nearest dirk. line, if any)	16. No. of acres in lease	17. No. of acres assigned to this well
Distance from proposed location to nearest well, drilling, completed, or applied for, on this lease, ft.	19. Proposed depth 5,950'	20. Rotary or cable tools Rotary
Elevations (Show whether DF, RT, GR, etc.) GL4867.1'	22. Approx. date work will start* May 1, 1994	
PROPOSED CASING AND CEMENTING PROGRAM		
Size of Hole	Size of Casing	Weight per Foot
Setting Depth		Quantity of Cement
See attached.		

Operator plans to drill this well in accordance with the attached Federal APD.

APR 6 1994

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.

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

Signed: Bobbie Schuman Title: Regulatory and Environmental Specialist APPROVED: March 31, 1994

(This space for use by State office use)

API NO. 43-047-32503 Approval Date: 6/14/94

Approved by: [Signature] Title: [Signature] DATE: 6/14/94

Conditions of approval, if any: WELL SPACING: R649-3-2

43047-32503



**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

April 18, 1994

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

Gentlemen:

Enclosed are the Cultural Resource Evaluations for the wells on  
the enclosed list.

Sincerely,

*Bobbie Schuman*

Bobbie Schuman  
Regulatory and Environmental Specialist

/hs

Enclosures

cc: Utah Division of Oil, Gas and Mining

RECEIVED  
APR 21 1994  
FEDERAL BUREAU OF INVESTIGATION

MONUMENT BUTTE DRILLING PROGRAM

1

TWELFTH BATCH

---

---

Balcron Federal #44-4Y  
SE SE Section 4, T9S, R17E  
660' FSL, 660' FEL  
Duchesne County, Utah  
Monument Butte Field  
FLS #U-65967  
PTD: 5,950'  
GL: 5201.5'

Balcron Federal #44-33Y  
SE SE Section 33, T8S, R18E  
778.4' FSL, 623.7' FEL  
Uintah County, Utah  
Eight Mile Flat North Field  
FLS #U-65969  
PTD: 6,000'  
GL: 4850.7'

Balcron Federal #31-5Y *43-047-32503*  
NW NE Section 5, T9S, R18E  
660' FNL, 1980' FEL  
Uintah County, Utah  
Eight Mile Flat North Field  
FLS #U-65970  
PTD: 5,950'  
GL: 4867.1'

Balcron Federal #41-19Y  
NE NE Section 19, T9S, R18E  
660' FNL, 660' FEL  
Uintah County, Utah  
Eight Mile Flat North Field  
FLS #U-65635 (EXPIRES 8/1/94)  
PTD: 5,550'  
GL 5129.9'

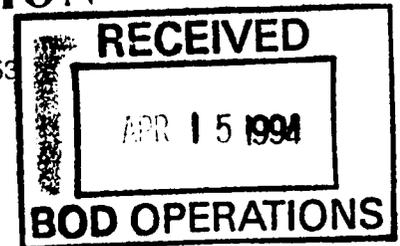
/rs



# ARCHEOLOGICAL - ENVIRONMENTAL RESEARCH CORPORATION

P. O. Box 853 Bountiful, Utah 84011-0853  
Tel: (801) 292-7061, 292-9668

April 8, 1994



*Subject:* **CULTURAL RESOURCE EVALUATION OF FOUR  
PROPOSED WELL LOCATIONS IN THE MONUMENT  
BUTTES LOCALITY OF DUCHESNE COUNTY, UTAH**

*Project:* **Balcron Oil -- 1993 Development  
Units 44-4Y, 44-33Y, 31-5Y, & 41-19Y**

*Project No.:* **BLCR-94-2**

*Permit No.:* **Dept. of Interior -- UT-94-54937**

*State Project No:* **UT-94-AF-167b**

*To:* **Ms. Bobbie Schuman, Balcron Oil Division, P.O. Box 21017, Billings, Montana  
59104**

**Mr. David Little, District Manager, Bureau of Land Management, 170 South 500  
East, Vernal, Utah 84078**

*Info:* **Antiquities Section, Division of State History, 300 Rio Grande, Salt Lake City,  
Utah 84101**

**CULTURAL RESOURCE EVALUATION  
OF FOUR PROPOSED WELL LOCATIONS  
IN THE CASTLE PEAK DRAW  
AND EIGHTMILE FLAT  
LOCALITIES OF DUCHESNE & UINTA  
COUNTIES, UTAH**

Report Prepared for Balcron Oil Company

Dept. of Interior Permit No.: UT-94-54937  
AERC Project 1427 (BLCR-94-2)

Utah State Project No.: UT-94-AF-167b

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

## ABSTRACT

An intensive cultural resource evaluation has been conducted for Balcron Oil Company of four proposed wells and associated access route situated on federally administered lands located in the Castle Peak Draw and Eightmile Flat localities of Duchesne and Uintah Counties, Utah. This evaluation involved a total of 33.14 acres, of which 20 acres are associated with the various well pads and an additional 13.14 acres associated with two access road rights-of-way. These evaluations were conducted by F.R. Hauck, Glade Hadden and Walter Lenington of AERC on April 7, 1993.

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.

No isolated artifacts were noted and recorded during the investigations.

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

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## GENERAL INFORMATION

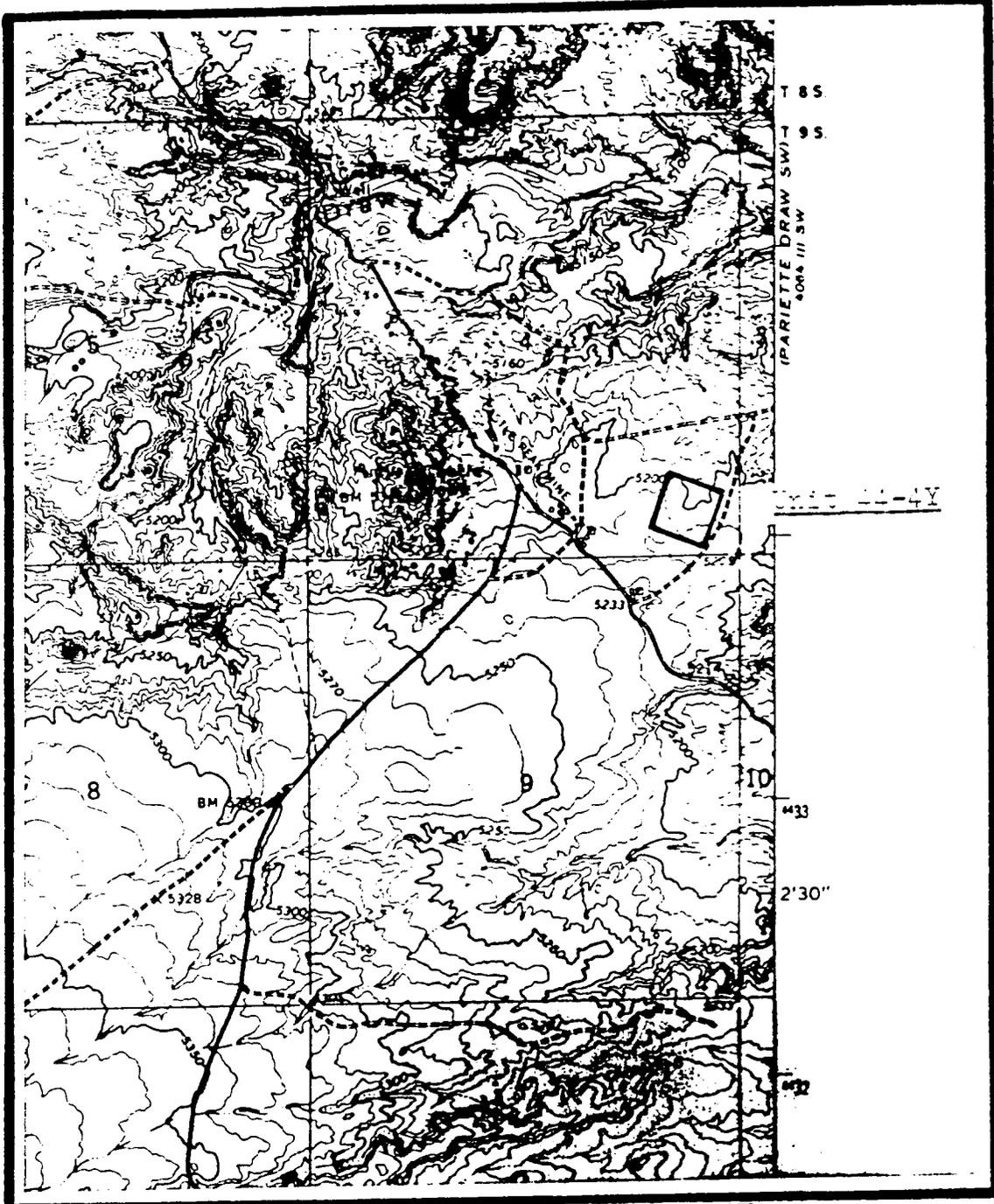
On April 7, 1994, AERC archaeologists F.R. Hauck, Glade Hadden and Walter Lenington conducted an intensive cultural resource evaluation for Balcron Oil Company of Billings, Montana. This examination involved the four proposed well locations and associated access roads in the Castle Peak Draw and Eightmile Flat areas south of Myton, Utah. Some 33.14 acres were examined which include 200 acres associated with two of the well pads and an additional 13.14 acres associated with two access routes into the locations. Unit 41-19Y includes a .8 mile access route for 9.7 acres and unit 31-5Y includes ca. 1500 feet of access road for 3.44 acres. The remaining two wells, 44-33Y and 44-4Y have been surveyed under earlier archaeological evaluations which have been reported separately (Hauck 1982, 1984). This project is situated in the Castle Peak Draw and Eightmile Flat localities of Duchesne and Uintah Counties, Utah. The entire project area is situated on federal lands administered by the Vernal District of the Bureau of Land Management, Diamond Mountain Resource Area, Vernal, Utah.

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 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 and Eightmile Flat localities of Duchesne and Uintah Counties, Utah. It is situated on the Pariette Draw SW and Myton SE 7.5 minute topographic quads. The proposed drilling locations are as follows: Unit 44-4Y is located in the SE-SE quarter of Section 4, Township 9 South, Range 17 East (See Map 1); Unit 41-19Y is located in the NE-NE quarter of Section 19, Township 9 South, Range 18 East along with a 4224 foot-long access route leading to the location from the NW-SE quarter of Section 17 (See Map 2); Unit 44-33Y is located in the SE-SE quarter of Section 33, Township 8 South, Range 18 East (See Map 3); Unit 31-5Y is located in the NW-NE quarter of Section 5, Township 9 South, Range 18 East along with a 1500 foot-long access route leading to the location from the SW-NE quarter of Section 5 (See Map 3).



T. 9 South  
 R. 17 East  
 Meridian: SL  
 Quad: Myton SE

**MAP 1**  
 Cultural Resource Survey  
 of a Proposed Well Location  
 in the Castle Peak Draw  
 Locality of Duchesne Co.

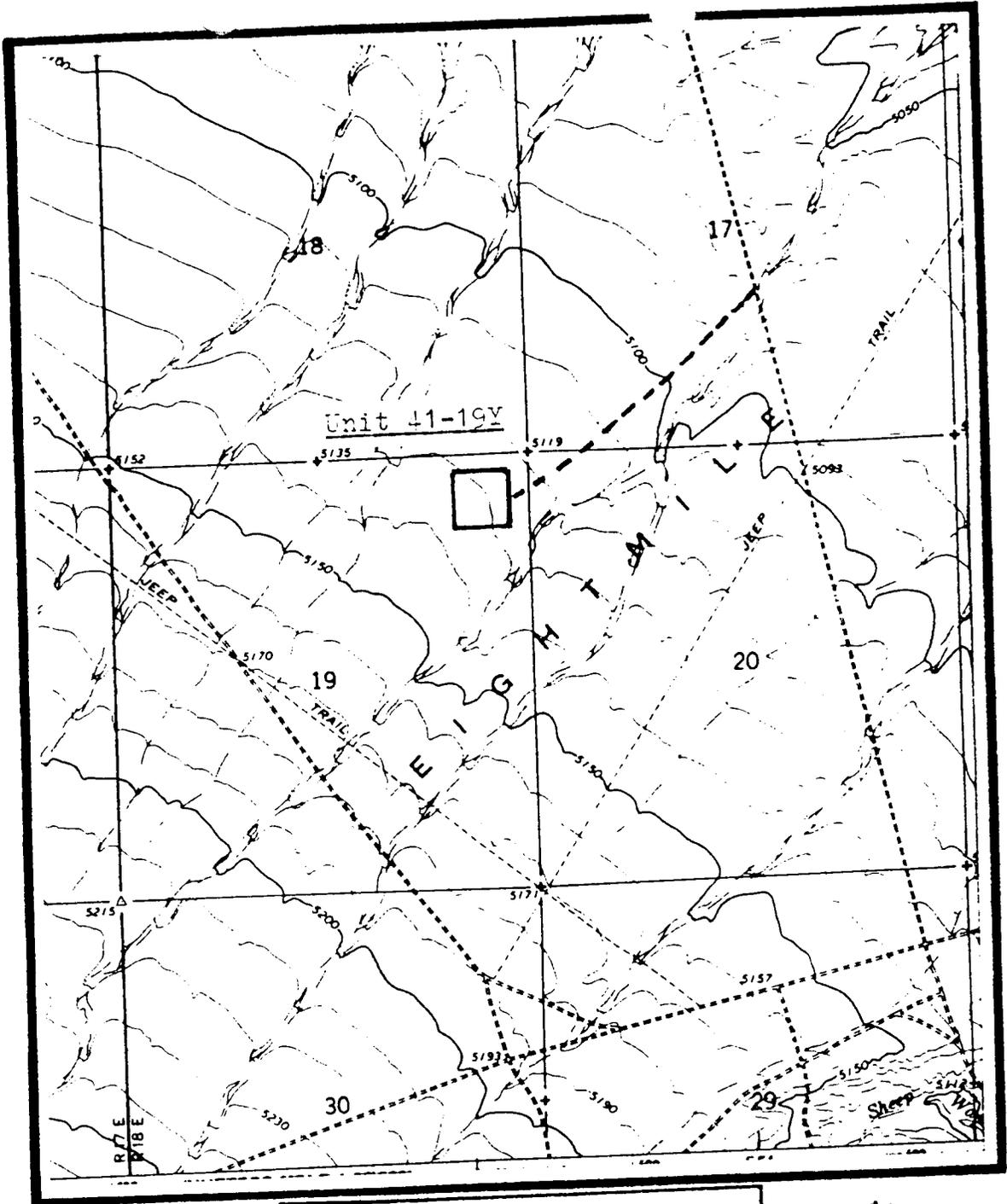
**Legend:**  
 10 Acre Survey Area (formerly Cotton Federal Co. 44-4 a Diamond Shamrock location in 1982)



**Project:** BLCR-94-2  
**Series:** Uinta Basin  
**Date:** 4-8-94  
**Scale:** 1:25,000



AERK



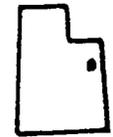
T. 9 South  
 R. 18 East  
 Meridian: 5E  
 Quad: Pariette  
 Draw SW,

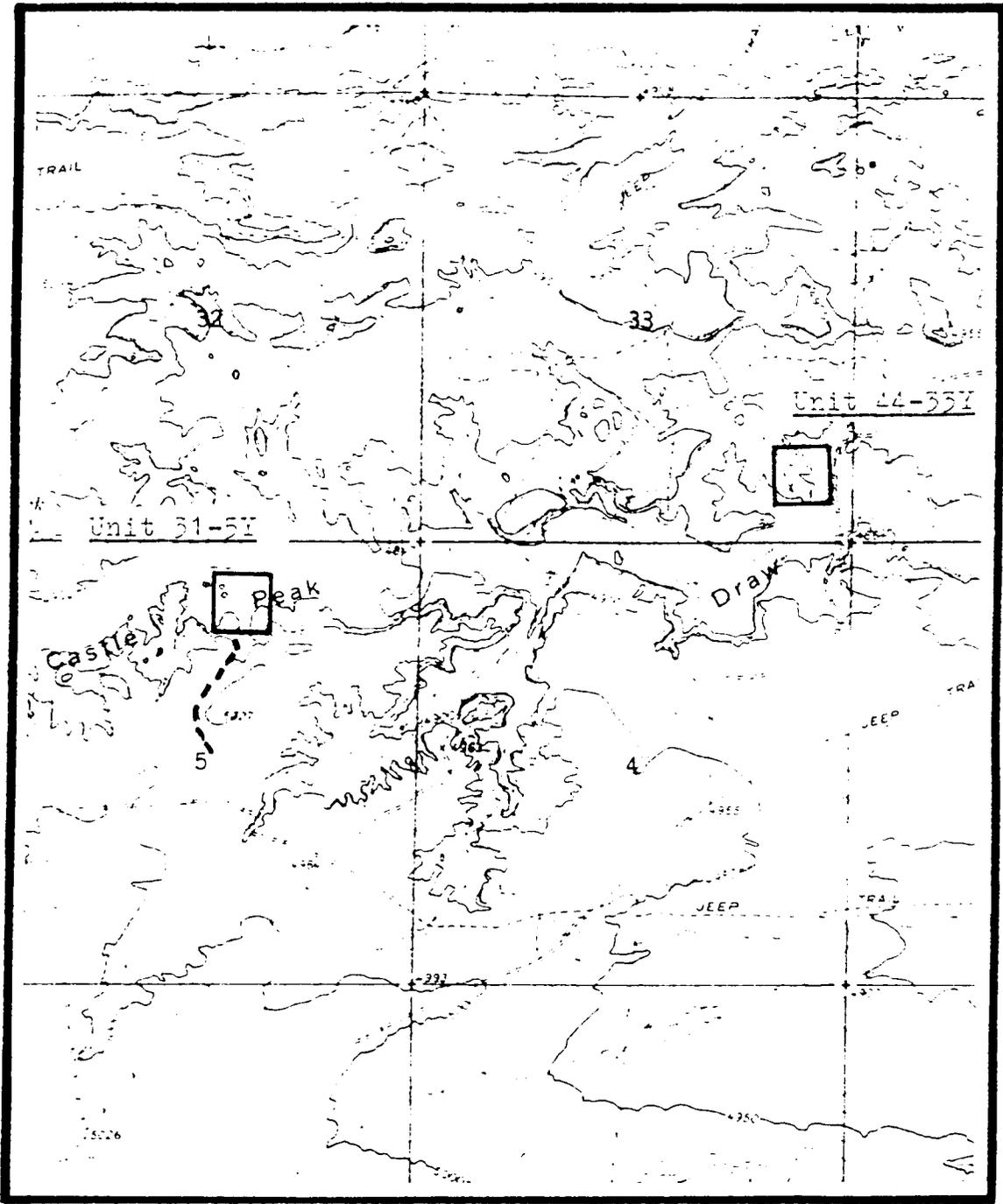
**MAP 2**  
 Cultural Resource Survey  
 of a Proposed Well Location  
 in the Eightmile Flat  
 Locality of Uintah Co.

**Legend:**  
 10 Acre Survey Area   
 Access Route 



**Project:** BLCR-94-2  
**Series:** Uinta Basin  
**Date:** 4-8-94  
**Scale:** 1:24000





T. 8 South  
 R. 18 East  
 Meridian: SL  
 Quad: Pariette  
 Draw SW,

**MAP 3**  
 Cultural Resource Survey  
 of two Proposed Well  
 Locations in the Castle  
 Peak Draw Locality

**Legend:**  
 10 Acre Survey Area   
 Access Route 



**Project:** Scale: 1:24000  
**Series:** BLCR-94-2  
 Uinta Basin  
**Date:** 4-8-94



## Environmental Description

The project area is within the 4800 to 5200 foot elevation zone above sea level. Open rangeland terrain and eroded Eocene lakebed surfaces are associated with the project area.

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 April 5, 1994. A similar search was conducted in the Vernal District Office of the BLM on April 7, 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 locality. Many of these prehistoric resources were identified and recorded by AERC during the Mapco River Bend survey (Norman and Hauck 1980). Other sites have been located and recorded by AERC and other archaeological consultants during oil and gas exploration inventories.

## 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 archaeologist walking a series of 10 to 20 meter-wide transects across a 10 acre area associated with each well pad area. In addition, a .8 mile-long access route and a 1500 foot-long access route were surveyed by the archaeologists walking a pair of 15 meter-wide transects on each side of the flagged access route right of way. Thus, a 30 meter-wide or 100 foot-wide corridor (ca. 13.14 acres) was examined for the total 5724 foot-long proposed access roads, in addition to the twenty acres inventoried on two of the well pads. The remaining two well pads (Units 44-4Y and 44-33Y) had been inventoried under previous AERC surveys (Hauck 1982, 1984).

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.

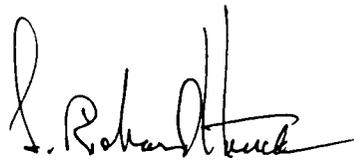
No diagnostic isolated artifacts were observed and recorded during the evaluation.

## CONCLUSION AND RECOMMENDATIONS

No known significant cultural resources will be adversely impacted during the development and operation of Balcron Units 44-4Y, 44-33Y, 31-5Y and 41-19Y as evaluated during this and previous AERC projects (see Hauck 1982, 1984).

AERC recommends that a cultural resource clearance be granted to Balcron Oil Company relative to the development of these proposed drilling locations 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

Hadden, Glade V and F. R. Hauck

- 1993a Cultural Resource Evaluation of Seven Proposed Well Locations in the Monument Buttes Locality of Duchesne County, Utah. Report prepared for Balcron Oil Company, BLCR-93-4, Archaeological-Environmental Research Corporation, Bountiful.
- 1993b Cultural Resource Evaluation of Four Proposed Well Locations in the Monument Buttes Locality of Duchesne County, Utah. Report prepared for Balcron Oil Company, BLCR-93-5, Archaeological-Environmental Research Corporation, Bountiful.
- 1993c Cultural Resource Evaluation of Eight Proposed Well Locations in the Monument Buttes Locality of Duchesne County, Utah. Report prepared for Balcron Oil Company, BLCR-93-9, Archaeological-Environmental Research Corporation, Bountiful.
- 1993d Cultural Resource Evaluation of Four Proposed Well Locations in the Monument Buttes and Pleasant Valley Localities of Duchesne and Uintah Counties, Utah. Report prepared for Balcron Oil Company, BLCR-93-10, Archaeological-Environmental Research Corporation, Bountiful.
- 1993e Cultural Resource Evaluation of Seven Proposed Wells in the Monument Buttes and Pleasant Valley Localities of Duchesne and Uintah Counties, Utah. Report prepared for Balcron Oil Company, BLCR-93-11, Archaeological-Environmental Research Corporation, Bountiful.

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.

- 1984 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, Archeological-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.

Norman, V. Garth and F.R. Hauck

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

Report Acceptable Yes \_\_\_ No \_\_\_

Mitigation Acceptable Yes \_\_\_ No \_\_\_  
 Comments: \_\_\_\_\_

Summary Report of  
 Inspection for Cultural Resources

FOUR PROPOSED WELL LOCATIONS  
 MONUMENT BUTTES LOCALITY

1. Report Title . . . . .

Balcron Oil Company (BLCR-94-2)

2. Development Company \_\_\_\_\_

3. Report Date . . . 4 8 1994 . . . . . 4. Antiquities Permit No. UT-94-54937

5. Responsible Institution . . . . . A E R C B L C R 9 4 - 2 Duchesne & Uintah County

6. Fieldwork 9 S 1 7 E 0 4  
 Location: TWN . . . . . RNG . . . . . Section. . . | . . . | . . . | . . . |  
 7. Resource 8 S 1 8 E 3 3  
 Area TWN . . . . . RNG . . . . . Section. . . | . . . | . . . | . . . |  
 .SM. 9 S 1 8 E 0 5 1 9  
 TWN . . . . . RNG . . . . . Section. . . | . . . | . . . | . . . |

8. Description of Examination Procedures: The archeologists, F.R. Hauck, G.V. Hadden and Walter Lenington intensively examined the two proposed well locations (31-5Y & 41-19Y) and their access routes by walking a 10 to 15 meter-wide transects within the 10 acre plots and flanking the access routes. Units 44-4Y and 44-33Y have been previously been evaluated by AERC (cf., Hauck 1982 and Hauck 1984 in primary report).

9. Linear Miles Surveyed . . . . . 1 3 . 1 4 I  
 and/or  
 Definable Acres Surveyed . . . . . R = Reconnaissance  
 and/or I = Intensive  
 Legally Undefinable 2 0 S = Statistical Sample  
 Acres Surveyed . . . . .

10. Inventory Type . . . . .

11. Description of Findings:  
 No archaeological sites  
 were identified and recorded during  
 this survey.

12. Number Sites Found .0. . . . .  
 (No sites = 0)

13. Collection: .N.  
 (Y = Yes, N = No)

14. Actual/Potential National Register Properties Affected:  
 The National Register of Historic Places (NRHP) has been consulted and no registered properties will be affected by the proposed development.

15. Literature Search, Location/ Date: Utah SHPO 4-5-94 Vernal BLM 4-7-94

16. Conclusion/ Recommendations:

AERC recommends that a cultural resource clearance be granted to Balcron Oil Company for these proposed developments based on the following stipulations:  
 (see reverse)

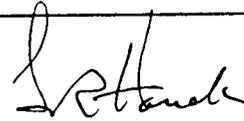
1. All vehicular traffic, personnel movement, construction and restoration operations should be confined to the existing roadways and/or evaluated corridor.

2. All personnel should refrain from collecting artifacts and from disturbing any significant cultural resources in the area.

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.

---

17. Signature of Administrator & Field Supervisor  
Administrator:



Field  
Supervisor:



UT 8100-3 (2/85)

BALCRON OIL

Balcron Federal #31-5Y

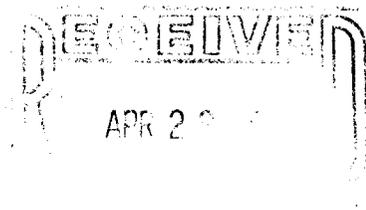
NW NE Section 5, T9S, R18E, SLB&M

Uintah County, Utah

43-047-32503

PALEONTOLOGY REPORT

WELLPAD LOCATION AND ACCESS ROAD



BY

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

April 11, 1994

RESULTS OF PALEONTOLOGY SURVEY AT BALCRON FEDERAL #31-5Y, NW NE Section 5,  
T9S, R18E, SLB&M, UINTAH COUNTY, UTAH.

Description of Geology and Topography-

This well location is 9 miles south and 8 miles east of Myton, Utah. The proposed access road runs north and northeast 2200 feet dropping off the bench into Castle Peak Draw. The drop in elevation from the bench to the draw bottom is about 125 feet. The general area is a badlands area with interbedded sandstones and mudstones of the Uinta Formation. These rocks probably represent fluvial (stream) deposits.

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

Paleontological material found -

Two spots of turtle shell fragments were found weathering out of the brown mudstone point. This mudstone layer is about 1/3 the way down the steeper part of the slope.

Recommendations-

The staked road alignment by-passed both of these turtle shell spots. None of the fossil material found will be directly impacted by construction.

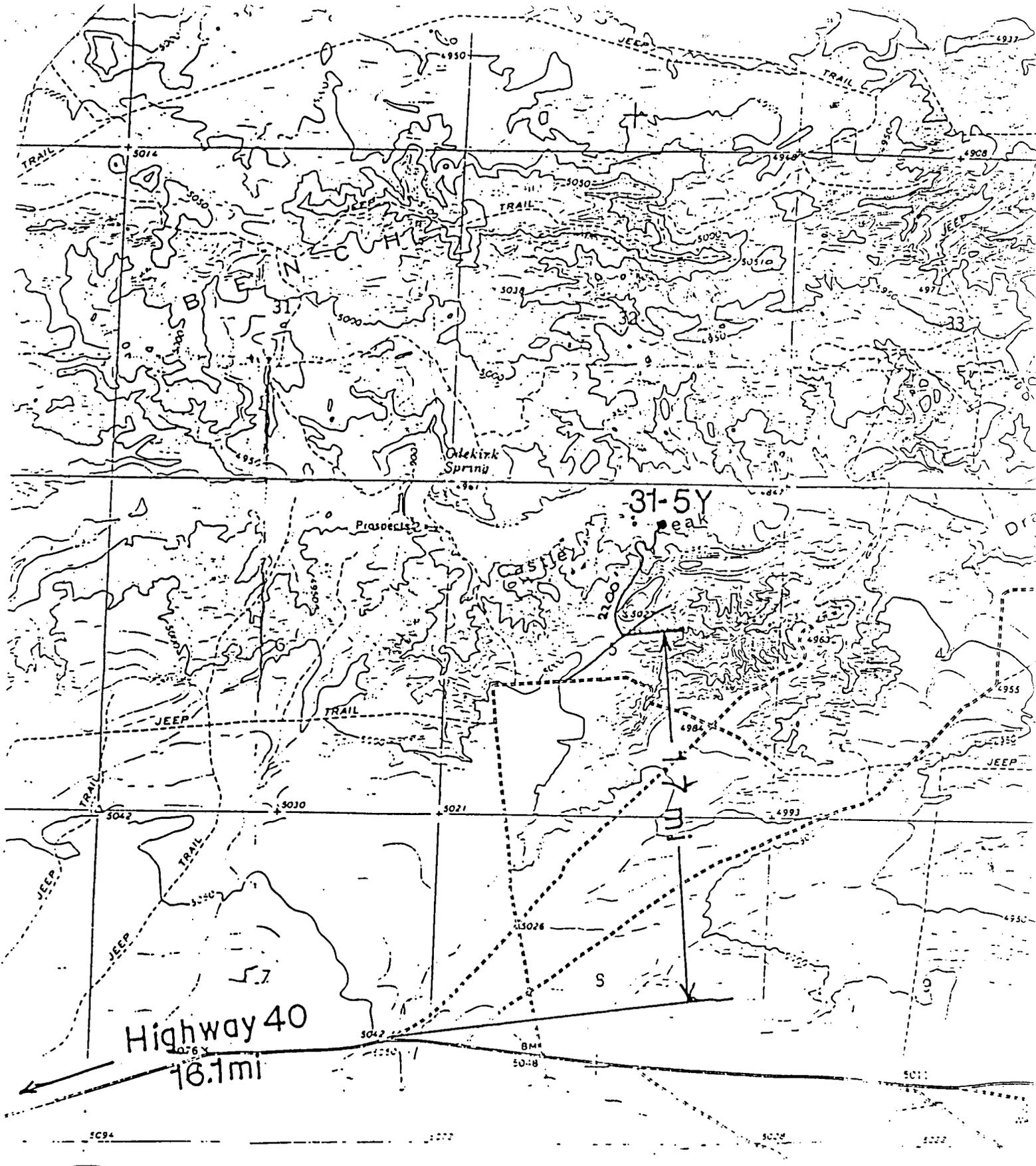
No recommendations for paleontology are made for this road or location. However, there is always some potential for encountering fossils when working in the Uinta Formation. If important looking bone material is encountered, a paleontologist should be called to evaluate it.

*Alfred A. Hamblin*  
Paleontologist

Date *April 13, 1994*

<b>PALEONTOLOGY LOCALITY</b> Data Sheet		Page 1 of 1 plus map												
		State Local. No. 42 UN V												
		Agency No.												
		Temp. No BALCRON FEDERAL #31-5Y												
1. Type of locality				Plant		Vertebrate		X		Trace		Other _____		
2. Formation: UINTA				Horizon: "B"				Geologic Age: Late Eocene						
<b>3. Description of Geology and Topography:</b> The proposed access road runs north and northeast 2200 feet dropping off the bench into Castle Peak Draw. The drop in elevation from the bench to the draw bottom is about 125 feet. The general area is a badlands area with interbedded sandstones and mudstones of the Uinta Formation. These rocks probably represent fluvial (stream) deposits.  All rock outcrops in the area are of the Upper Eocene Uinta Formation, known for its fossil vertebrate fauna of mammals, turtles, crocodilians, and occasional fish remains and plant impressions.														
4. Location of Outcrop: 9 miles south and 8 mile east of Myton, Utah.														
5. Map Ref.		USGS Quad		Pariette Draw SW, UT			Scale		7.5 Min		Edition		1964	
SW1/4		of		NW1/4		of		NE1/4		of Sectn		5 T 9 S R 17E Meridn SLB		
6. State: UTAH				County: UINTAH COUNTY				BLM/FS District: VERNAL- DIAMOND MT.						
7. Specimens Collected and Field Accession No. NONE														
8. Repository:														
<b>9. Specimens Observed and Disposition:</b> Two spots of turtle shell fragments were found weathering out of the brown mudstone point. This mudstone layer is about 1/3 the way down the steeper part of the slope.														
10.Owner:														
Private		State		BLM		X		US FS		NPS		IND MIL OTHR		
<b>11.Recommendations for Further Work or Mitigation:</b> None of the fossil material found will be directly impacted by construction. No recommendations for paleontology are made for this road or location. However, there is always some potential for encountering fossils when working in the Uinta Formation. If important looking bone materials encountered, a paleontologist should be called to evaluate it.														
12.Type of Map Made by Recorder:														
13.Disposition of Photo Negatives:														
<b>14.Published References:</b> Hamblin, A. H., 1992, Paleontology Report on the Monument Butte EA Study Area, for Mariah Associates, Larimie, Wyoming.														
15.Remarks:														
16.Sensitivity:		Critical		Significant		Important		X		Insignificant				
17.Recorded by: Alden Hamblin, Paleontologist								Date: April 4, 1994						







**EQUITABLE RESOURCES ENERGY CO.**  
 CENTRAL DIVISION  
 MINNAPOLIS



**TRI-STATE  
 LAND SURVEYING, INC.**  
 SINCE 1916  
 501-731-2501



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)

June 14, 1994

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

Re: Balcron Federal #31-5Y Well, 660' FNL, 1980' FEL, NW NE, Sec. 5, T. 9 S., R. 18 E., Uintah County, Utah

Gentlemen:

Pursuant to Utah Code Ann. § 40-6-18, (1953, as amended), Utah Admin. R. 649-2-3, Application of Rules to Unit Agreements and 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. 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 #31-5Y Well  
June 14, 1994

6. Compliance with the requirements of Utah Admin. R. 649-3-20, Gas Flaring or Venting, if the well is completed for production.

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 43-047-32503.

Sincerely,



R.J. Firth  
Associate Director

ldc  
Enclosures  
cc: Uintah County Assessor  
Bureau of Land Management, Vernal District Office  
WOI1



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)

June 14, 1994

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

Re: Amended Approval of the Application for Permit to Drill  
Balcron Federal #31-5Y Well, 660' FNL, 1980' FEL, NW NE, Sec. 5, 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. 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.

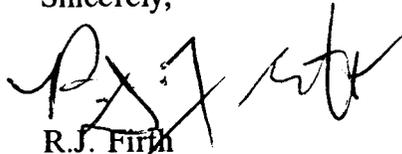


Page 2  
Equitable Resources Energy Company  
Balcron Federal #31-5Y Well  
June 14, 1994

6. Compliance with the requirements of Utah Admin. R. 649-3-20, Gas Flaring or Venting, if the well is completed for production.

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 43-047-32503.

Sincerely,

A handwritten signature in black ink, appearing to read 'R.J. Firsh', written over a printed name.

R.J. Firsh  
Associate Director

ldc  
Enclosures  
cc: Uintah County Assessor  
Bureau of Land Management, Vernal District Office  
WOI1

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

SUBMIT IN TRIPLICATE\*  
(Other instructions on reverse side)

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

**CONFIDENTIAL**

LEASE DESIGNATION AND SERIAL NO.

U-65970

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.

# 31-5Y

10. FIELD AND POOL, OR WILDCAT

8 Mile Flat North/Grn. River

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

Sec. 5, T9S, R18E

12. COUNTY OR PARISH 13. STATE

Uintah

UTAH

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. TYPE OF WORK

DRILL

DEEPEN

PLUG BACK

b. TYPE OF WELL

OIL WELL

GAS WELL

OTHER

SINGLE ZONE

MULTIPLE ZONE

2. NAME OF OPERATOR

Equitable Resources Energy Company, Balcron Oil Division

3. ADDRESS OF OPERATOR

P.O. Box 21017; Billings, MT 59104

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

NW NE Section 5, T9S, R18E 660' FNL, 1980' FEL  
At proposed prod. zone

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

From Myton, Utah, approximately 16 miles southwest

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

18. NO. OF ACRES IN LEASE

17. NO. OF ACRES ASSIGNED TO THIS WELL

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

19. PROPOSED DEPTH

20. ROTARY OR CABLE TOOLS

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

GL 4867.1'

5.950'

Rotary

22. APPROX. DATE WORK WILL START\*

May 1, 1994

23. PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
See attached				

See attached for listing for EXHIBITS.

RECEIVED  
APR 24 1994

AUG - 3 1994

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

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

24. SIGNED Bobbie Schuman TITLE Regulatory and Environmental Specialist DATE March 31, 1994  
(This space for Federal or State office use)

PERMIT NO. 43-047-32503 APPROVAL DATE JUL 18 1994  
APPROVED BY [Signature] TITLE ASSISTANT DISTRICT MANAGER MINERALS DATE JUL 18 1994  
CONDITIONS OF APPROVAL, IF ANY:

**NOTICE OF APPROVAL**

CONDITIONS OF APPROVAL ATTACHED TO OPERATOR'S COPY

UT080-4m-083

\*See Instructions On Reverse Side



CONDITIONS OF APPROVAL FOR NOTICE TO DRILL

Company Equitable Resources Energy Company Well No. Balcron Federal 31-5Y

Location NWNE Section 05, T9S, R18E Lease No. U - 65970

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

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

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

A. DRILLING PROGRAM

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

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

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

2. Pressure Control Equipment

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

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

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

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

3. Casing Program and Auxiliary Equipment

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

As a minimum, the usable water and oil shale resources shall be isolated and/or protected by having a cement top for the production casing at least 200 ft. above the top of the Mahogany oil shale, identified at  $\pm 2,875$  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  $\pm 2,675$  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 3162.7-2, 3162.7-3, and 3162.7-4 shall be submitted to the appropriate District Office within thirty (30) 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 3162.7-4.

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 onlease 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:

Ed Forsman (801) 789-7077  
Petroleum Engineer

Wayne P. Bankert (801) 789-4170  
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, spend 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 have sufficient bedding (straw or dirt) to cover 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.

Additional Surface Conditions of Approval

Three (3) silt catchment basins are required to be developed in the area to mitigate increased sediment yields caused by the development of the access road into the well location. The location of these basins will be designated by the authorized officer (A.O.).

To prevent excess erosion along the access road, when the grade of road exceeds 5 percent, water turn outs will be placed at close intervals as determined by the A.O.

To protect the flood plain, if the well is a producer, production will be a closed system with no pits. Top soil will not be stored on the East side of the location as illustrated in the Surface Use Plan, but will be moved to the South near the location of the tank battery and out of the extended area of the Castle Peak flood plain as designated by the A.O.

Also to protect the location from the effects of flooding a rip-rapped dike will be placed West of the well pad. Heavy native rock rubble must be used to reinforce and stabilize the dike as shown by the A.O.

If paleontologic or archeologic resources are found or uncovered during ground disturbing activities, Balcron will suspend all operations that would further disturb such materials and immediately contact the BLM Authorized Officer. Workers for Balcron or their contractors will not collect any paleontologic or archeologic materials.

A complete copy of the approved APD and ROW grant, if applicable, shall be on location during construction of the location and drilling activities.

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.



**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

August 11, 1994

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

*BALCRON Federal 31-S Y*  
*Sec 5 T 95 R 18E*  
*42-047-32503*

Gentlemen:

Enclosed is a sundry notice reporting an intended change in the cement program for the production casing (long-string) on the wells on the enclosed list. The wells have been broken down by three categories:

- wells on which we have approved APDs but have not yet drilled
- wells on which we do not yet have approved APDS but APDs have been submitted
- wells on which we have approved State APDs but not yet approved Federal APDs

Please consider this change in cement program as a part of our APDs.

Sincerely,

*Bobbie Schuman*

Bobbie Schuman  
Regulatory and Environmental Specialist

/hs

Enclosures

cc: Utah Division of Oil, Gas and Mining  
Al Plunkett

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

5. Lease Designation and Serial No.

See attached listing

6. If Indian, Allottee or Tribe Name

n/a

SUBMIT IN TRIPLICATE

1. Type of Well

Oil Well  Gas Well  Other

7. If Unit or CA, Agreement Designation

See attached listing

2. Name of Operator

Equitable Resources Energy Company, Balcron Oil Division

8. Well Name and No.

See attached listing

3. Address and Telephone No.

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

9. API Well No.

See attached listing

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

See attached listing

10. Field and Pool, or Exploratory Area

See attached listing\*

11. County or Parish, State

See attached listing

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

TYPE OF SUBMISSION

TYPE OF ACTION

Notice of Intent  
 Subsequent Report  
 Final Abandonment Notice

Abandonment  
 Recompletion  
 Plugging Back  
 Casing Repair  
 Altering Casing  
 Other change in cement program

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

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

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

\*Formation (pool): Green River

Production cement program on wells on the attached listing will be changed as follows:

250 sacks Western Super "G" consisting of 47 #/sack "G", 20 #/sack Poz A, 17 #/sack CSE, 3% salt, 2% gel and 2 #/sack Hi-seal 2. (Yield = 2.76 Cu.Ft./Sk, Weight = 11.08 PPG). Tailed with 300 sacks 50-50 Poz with 2% Gel, 1/4 #/sack Cello-seal and 2 #/sack Hi-seal. (Yield = 1.24 Cu.Ft./Sk, Weight = 14.30 PPG).

a.) Actual cement volumes will be determined using caliper log.

b.) Cement top will be at approximate depth as specified in the Conditions of Approval in the Application for Permit to Drill.

The cement program is being changed to improve cement bond quality and improve compressive strength in the lead slurry.

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

Signed Bobbie Schuman

Regulatory and  
Title Environmental Specialist

Date 8-10-94

(This space for Federal or State office use)

Approved by \_\_\_\_\_  
Conditions of approval, if any:

Title \_\_\_\_\_

Date \_\_\_\_\_

Have approved APDs but not yet drilled (continued)

## Balcron Federal #31-5Y

NW NE Section 5, T9S, R18E  
660' FNL, 1980' FEL  
Uintah County, Utah  
Eight Mile Flat North Field  
FLS #U-65970  
API #43-047-32503

## Balcron Monument Federal #31-1J

NW NE Section 1, T9S, R16E  
Duchesne County, Utah  
660' FNL, 1980' FEL  
FLS #U-33992  
Monument Butte Field  
Jonah Unit  
API #43-013-31413

## Balcron Monument Federal #32-1J

SW NE Section 1, T9S, R16E  
Duchesne County, Utah  
2143' FNL, 1987' FEL  
FLS #U-33992  
Monument Butte Field  
Jonah Unit  
API #43-013-31414

## Balcron Monument Federal #11-12J

NW NW Section 12, T9S, R16E  
Duchesne County, Utah  
660' FNL, 660' FWL  
FLS #U-096550  
Monument Butte Field  
Jonah Unit  
API #43-013-31418

## Balcron Monument Federal #34-12J

SW SE Section 12, T9S, R16E  
Duchesne County, Utah  
796.4' FSL, 2175.5' FEL  
FLS #U-035521  
Monument Butte Field  
Jonah Unit  
API #43-013-31420

CONFIDENTIAL

DIVISION OF OIL, GAS AND MINING

SPUDDING INFORMATION

NAME OF COMPANY: EQUITABLE RESOURCES

WELL NAME: BALCRON FEDERAL 31-5Y

API NO. 43-047-32503

Section 5 Township 9S Range 18E County UINTAH

Drilling Contractor UNION

Rig # 17

SPUDDED: Date 10/10/94

Time \_\_\_\_\_

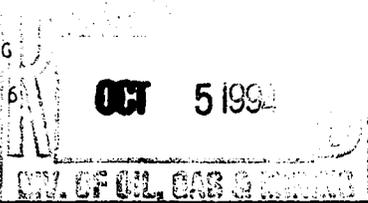
How ROTARY

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

Reported by D. HACKFORD-DOGM

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

Date 10/17/94 SIGNED JLT



OPERATOR Equitable Resources Energy Company  
Balcron Oil Division  
ADDRESS P.O. Box 21017  
Billings, MT 59104  
(406) 259-7860

OPERATOR ACCT. NO. N 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	11679	43-013-31452	Balcron Federal #44-4Y	SE SE	4	9S	17E	Duchesne	9-30-94	9-30-94
WELL 1 COMMENTS: <i>Entity added 10-11-94. Lec</i> Spud of a new well.											
A	99999	11680	43-047-32503	Balcron Federal #31-5Y	NW NE	5	9S	18E	Uintah	9-30-94	9-30-94
WELL 2 COMMENTS: <i>Entity added 10-11-94. Lec</i> Spud of a new well.											
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)

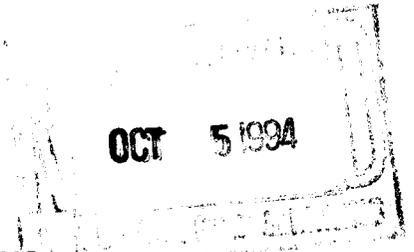
NOTE: Use COMMENT section to explain why each Action Code was selected.

DATE: 10-3-94

*Bobbie Schuman*  
Signature  
Regulatory and Environmental Specialist  
Title  
Date  
Phone No. (406) 259-7860

10-13-94

Form 3160-5 UNITED STATES  
(June 1990) 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-65970**

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

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

8. Well Name and No.  
**Balcon Federal #31-5Y**

9. API Well No.  
**43-047-32503**

10. Field and Pool, or Exploratory Area  
**8 Mile Flat North/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**

**CONFIDENTIAL**

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)  
SURFACE: NW NE Section 5, T9S, R18E  
TD: 660' FNL, 1980' FEL

**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>Report of Spud</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.)\*

This well was spud on 9-30-94 at 3:30 p.m. by Leon Ross Air Drilling.

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

Signed Bobbie Schuman Title Regulatory and Environmental Specialist Date 10-4-94

(This space for Federal or State office use)

Approved by \_\_\_\_\_ Title \_\_\_\_\_ Date \_\_\_\_\_  
Conditions of approval, if any:

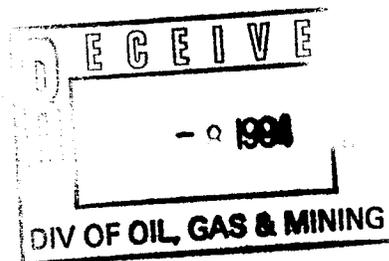
Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

**\*See Instruction on Reverse Side**

# WELL REPORT

**8 MILE FLAT NORTH  
Balcron Oil 31-5Y Federal  
660' FNL, 1980' FEL, Sec. 5, T9S-R18E  
Uintah County, Utah**

**CONFIDENTIAL**



By

***DENNIS REHRIG & ASSOCIATES, INC.***

Oil & Gas Consulting

4924 Rimrock Road  
Billings, Montana 59106

(406) 656-4785

CONFIDENTIAL

**WELLSITE GEOLOGIST'S REPORT**

**8 MILE FLAT NORTH  
Balcron Oil 31-5Y Federal  
660' FNL, 1980' FEL, Sec. 5, T9S-R18E  
Uintah County, Utah**

***DENNIS REHRIG & ASSOCIATES, INC.***

Oil & Gas Consulting

4924 Rimrock Road  
Billings, Montana 59106

(406) 656-4785

**DENNIS C. REHRIG & ASSOCIATES, INC.**  
Oil & Gas Exploration

4924 RIMROCK ROAD • BILLINGS, MONTANA 59106 • (406) 656-4785

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**8 MILE FLAT NORTH**  
**Balcron Oil 31-5Y Federal**  
**660' FNL, 1980' FEL, Sec. 5, T9S-R18E**  
**Uintah County, Utah**

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11	Reference Well Formation Tops
12	Significant Gas and Sample Shows
13	Sample Descriptions
Insert	Geologic Well Log

By:

DENNIS C. REHRIG

Consulting Geologist

For:

**DENNIS C. REHRIG & ASSOCIATES, INC.**

**Balcron Oil 31-5Y Federal  
660' FNL, 1980' FEL, Sec. 5, T9S-R18E  
Uintah County, Utah**

**GENERAL REVIEW**

The Balcron Oil 31-5Y Federal (NW $\frac{1}{4}$ NE $\frac{1}{4}$  S-5, T9S-R18E, Uintah County, Utah) was drilled as a field extension development well in the 8 Mile Flat North Field.

This well was supported by subsurface offset well control and drilled primarily for identification of anticipated Douglas Creek and Carbonate Marker oil sands.

The surface hole was air drilled and surface casing was set prior to moving Union Drilling Co. Rig No. 17 on location and spudding through surface casing on October 9, 1994. A two-man mud logging unit and wellsite geologist were on site from 1300' to total depth. The Green River and Douglas Creek formations were penetrated at 1462' and 4685' making them respectively 71' high and 70' high structurally to the offset Natural Gas Corporation of California 33-32D 8 Mile Flat (NW $\frac{1}{4}$ SE $\frac{1}{4}$  S-32, T8S-R18E) control well.

This well was drilled to 5950' Driller & 5960' Logger.

Subsequent to log review the operator elected to run 5 $\frac{1}{2}$ " production casing to total depth.

The rotary was released 10/18/94.

Respectfully submitted,



DENNIS C. REHRIG

**Balcron Oil 31-5Y Federal  
660' FNL, 1980' FEL, Sec. 5, T9S-R18E  
Uintah County, Utah**

**WELL DATA**

**OPERATOR:** Balcron Oil

**LEASE & WELL NO.:** Federal 31-5Y

**LOCATION:** 660' FNL, 1980' FEL, Sec. 5, T9S-R18E

**PROSPECT/FIELD:** 8 Mile Flat North Field

**COUNTY:** Uintah

**STATE:** Utah

**BASIN:** Uintah

**WELL TYPE:** Development - Field Extension

**BASIS FOR PROSPECT:** Subsurface well control

**ELEVATIONS:** G.L. 4867' (Graded), K.B. 4877'

**SPUD DATE:** 3:15 a.m. (MDT) 10/9/94 ((Rotary)

**OUT FROM UNDER  
SURFACE CASING:** 3:15 a.m. (MDT) 10/9/94  
(Rotary, surface casing previously set).

**DRILLING COMPLETED:** 11:45 p.m. (MDT) 10/16/94

**LOGGING COMPLETED:** 4:30 p.m. (MDT) 10/17/94

**RIG RELEASE:** 1:15 p.m. (MDT) 10/18/94

**TOTAL DAYS SPUD  
THROUGH LOGGING:** 9 days

**TOTAL DEPTH:** 5,950' (Driller) 5,960' (Logger)

TOTAL DRILLING DAYS: 8 days (Surface casing previously set)

HOLE SIZE & CASING:

<u>Hole Size</u>	<u>Casing Size</u>
12¼" Surface to 268'	8⅝" surface
7⅞" 268' to T.D.	to 268' K.B.
	5½" Production Casing
	to 5941' K.B.

WELL STATUS: Cased for completion attempt in Douglas Creek.

PENETRATION: 66' from top of Uteland Butte LS

COMPANY DRILLING CONSULTANT: Al Plunkett

DRILLING CONTRACTOR: Union Drilling Co.

RIG NO.: 17

TOOLPUSHER: Dave Gray

RIG SPECIFICATIONS: Draw Works – Cabot–Franks, powered by one D–343 Diesel Cat.  
Derrick – Cabot–Franks, 97' mast.

BLOW OUT PREVENTER: Make: Cameron. Type: 10" X 5000 lbs.  
Drill Pipe: Size: 4½" OD, 2¼" ID, Thread: XH.  
BHA: Length 557', 20 jts–6" DC.  
Tool joints: 6¼" OD, Type – XH.

PUMPS: No. 1 – Gardner–Denver FXN, 14" Stroke, 5½" Liner.

MUD COMPANY: Anchor Fluids, Inc.  
Operator bought products and drilling contractor mixed as needed.

MUD PROGRAM: Air/Foam – 268' to 3946'.  
KCl/water– 3946' to Total Depth

ELECTRIC OPEN–HOLE LOGGING PROGRAM: Halliburton Logging Services, Inc.  
Engineer: Elwood Vogel  
Witnessed by: Dennis Rehrig and Al Plunkett  
Dual Laterolog w/Gamma Ray, Caliper & Tension Curve (268'–5943').  
  
Spectral Density/Dual Spaced Neutron w/Gamma Ray, Caliper & Tension Curve (3700'–5955').

LOST CIRCULATION ZONE  
OR DRILLING PROBLEMS:

Had black oil come into hole from 3850'-3946' while drilling on air, created some contamination problem thereafter. Had drill pipe twist off joint above drill collars while drilling at 4488'.

WELLSITE GEOLOGIST:

Dennis C. Rehrig

SAMPLING PROGRAM:

50' Samples from 1,300'-3,946'.  
20' Samples from 3,946'-Total Depth.  
Except when got drilling break or gas show caught extra sample(s).

SAMPLE QUALITY:

Generally fair-good, if otherwise, was noted in report.

SAMPLE DISPOSITION:

Utah Geological Survey - Salt Lake City, Utah

MUD LOGGING EQUIPMENT:

Monaco Services, Inc. - two-man unit operated by Pete Waldon, Dudley Deardorff and Mark Hoffman.

CORE PROGRAM:

None.

DRILL STEM TEST:

None.

SURFACE CASING:

8-5/8" - Surface to 268' K.B. 6 Jts, Maverick 24 wt., J-55. Surface hole drilled and casing set by small air-impact rig. Details of casing and cement not available for this report.

PRODUCTION CASING:

Ran 5 1/2" casing to 5941' K.B.  
Cemented w/188 sxs Hilift and 357 sxs 50-50 POZ with various additives in all cement. Plug down at 9:15 a.m. 10/18/94.

**Balcron Oil 31-5Y Federal  
660' FNL, 1980' FEL, Sec. 5, T9S-R18E  
Uintah County, Utah**

**DAILY DRILLING HISTORY**

Daily drilling reports taken primarily from Rig Tower Sheets and supplemented by Drilling Supervisor.  
Day commenced at 6:00 AM (MST) day of prior day of report and ends at 6:00 AM (MST) day of report.

Days Since Spud	1994 Date	Depth	Ftg in Last 24 Hrs	Activity (hrs)			Bit No.	W O B (M)	RPM	PP	Activity
				Drig	Maint. and Repairs	Other					
1	10/9	400'	132	2.75	0.25	21.00	1	All	60	150	Rig up, test BOP, upper kelly valve, pipe and blind rams, choke manifold to 2000 psi, casing to 1500' psi, rig up and drill rathole, rig down, rig up air bowl and flowline, rebuild flowline, weld on flowline, blow H <sub>2</sub> O and drill cement, work on light plant, drilling 7 7/8" hole.
2	10/10	1685'	1285'	21.75	1.25	1.00	1	43	60	220	Drilling, survey, service rig, check rams, drilling, changeover drill pipe, put drive bushing on, drilling, change air head rubber, drilling, survey, drilling, survey, service rig and air, drilling.
3	10/11	2900'	1215'	22.75	0.50	0.75	1	43	60	230	Drilling, survey, service rig, check rams, drilling, survey, service rig and air, drilling.
4	10/12	3946'	1046'	21.00	0.50	2.50	1	43	60	250/350	Drilling, survey, service rig, check rams, drilling, survey, drilling, clean hole w/air and foam, switch over to fluid and load hole, mix sweep and circulate.

5	10/13	4425'	479'	18.25	1.00	4.75	2	43	65	950	Circulate hole, TOH, check rams, TIH, service rig, drilling, survey, drilling, service rig and pumps, drilling.
6	10/14	4555'	130'	5.75	1.50	16.75	3	43	65	1000	Drilling, twisted off DP jt above collars (Top of fish @ 3863.5', 624.6' of fish, TOH, WO fishing tools, PU fishing tools, rig up fishing tools, pick up six collars, TIH, latch on to fish, TOH w/fish, LD fish, TOH w/DC, repair hydromatic clutch, TIH, PU DP, load hole, wash to bottom (23' fill), circ hole, drilling.
7	10/15	5072'	517'	22.50	0.75	0.750	2	40	65	1025	Drilling, survey, service rig, check rams, drilling, service rig and pumps, drilling, service rig and pumps, survey, drilling.
8	10/16	5575'	503'	20.50	2.75	0.75	2	40	65	1025	Drilling, service rig and pumps, check rams, drilling, service rig and pumps, drilling, lose pump pressure, circulate and clean hole, TOH for hole in DP 15 stands out (hole bottom 14th stand), LD bad joint, TIH, drilling.
9	10/17	5950'	375'	17.00	0.25	6.75	2	40	65	950	Drilling, survey, drilling, service rig and pumps, drilling, reach TD, circulate and clean hole, TOH to run E-logs.
10	10/18	5950'	0'	-	-	24.00	-	-	-	-	WO log truck, check rams, RU loggers & log, RD loggers, TIH w/DC and DP, LD same, RU to run production casing and run same.
11	10/19	5950'	0'	-	-	7.25	-	-	-	-	Cement 5½" production casing, plug down @ 9:15 a.m., WOC, release rig at 1:15 p.m. 10/18/94.

**Balcron Oil 31-5Y Federal  
660' FNL, 1980' FEL, Sec. 5, T9S-R18E  
Uintah County, Utah**

**SURVEYS VERTICAL HOLE**

<u>Drilling Depth</u>	<u>Degrees</u>
500'	0°
1018'	1¼°
1525'	¼°
2050'	¾°
2510'	2°
3020'	1¼°
3502'	1¼°
4060'	1°
4560'	1½°
5050'	1¼°
5570'	1°

**Balcron Oil 31-5Y Federal  
660' FNL, 1980' FEL, Sec. 5, T9S-R18E  
Uintah County, Utah**

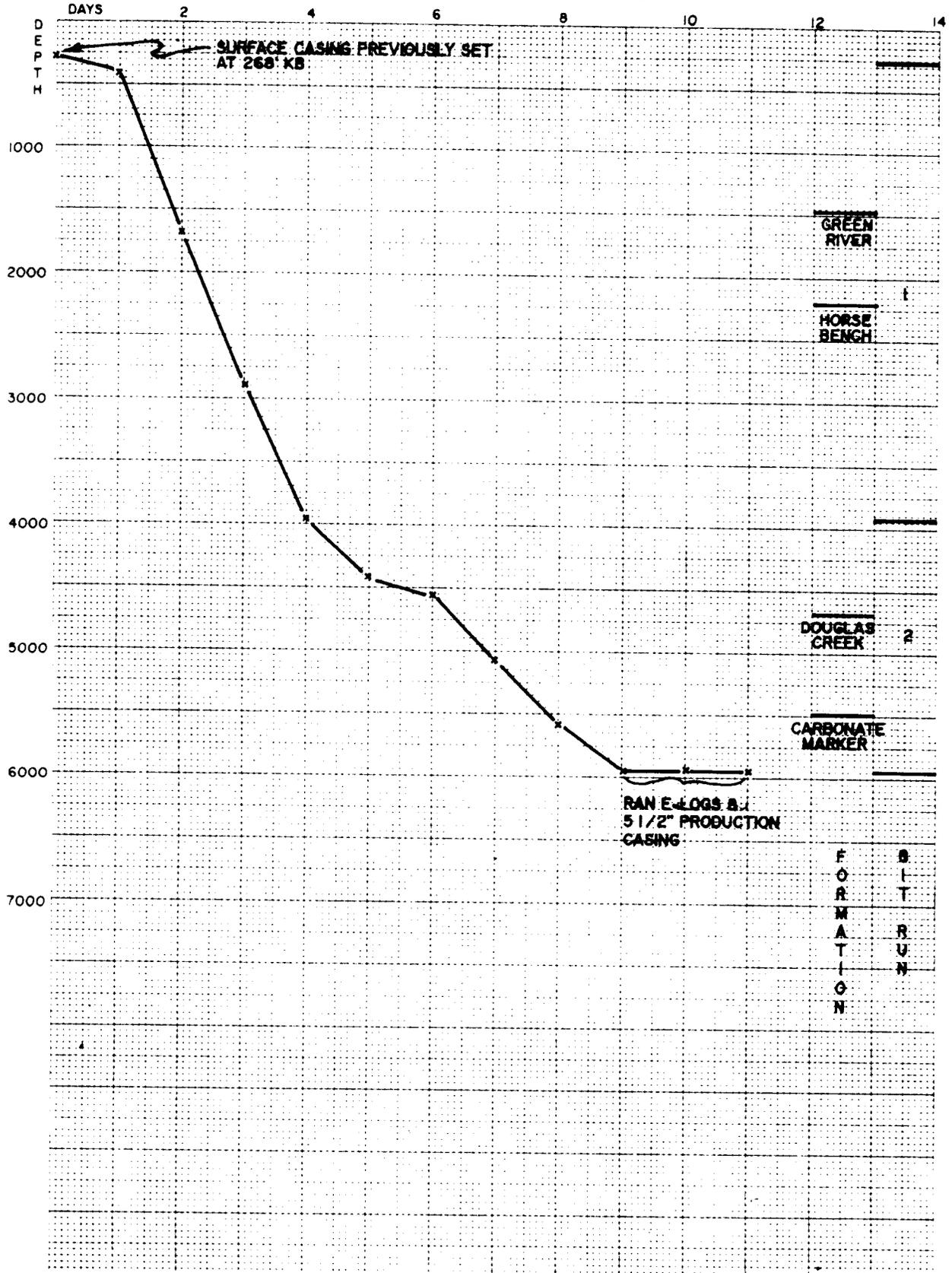
**B I T R E C O R D**

<b>Contractor:</b> Union Drilling Co.	<b>Rig No. 17</b>	<b>Rig Make:</b> Cabot-Franks	<b>Collars: ODxDxLength BHA</b>  6" x 2½" x 600'	<b>SPUD</b> 10/9/94 (7¼" hole)	<b>Toolpusher: Dave Gray Day Driller: Wm. Satterfield Evening Driller: Rod Rasmussen Morning Driller: Greg Ferguson Relief Driller: Chris Chapman Operators Representative Al Plunkett  Mud Type: KCl/water</b>
<b>Operator:</b> Balcron Oil	<b>Field: 8 Mile North</b>	<b>Derrick:</b> Cabot-Franks, 97' mast	<b>Drill Pipe-Size Wt</b> 4½" 16.6 E	<b>Under Surface</b> 10/9/94 (rotary)	
<b>Lease: Federal</b>	<b>Well No.</b> 31-5Y			<b>Total Depth</b> 10/17/94	
<b>State: Utah</b>		<b>Pump #1:</b> Gardner-Denver FXN Liner 5½" x 14"	<b>Tool Joint: 6¼"</b>	<b>Total Days Drilling</b> 9	
<b>County: Uintah</b> <b>Sec/T-ship/Range:</b> NWNE Sec. 5, T9S-R18E					

Bit No	Bit Size	Bit Mfgr	Bit Type	Jet Size 32nds	Ser. No.	Depth Out	Feet	Hrs	Ft/ Hr	Cum Hrs	Wt 1000#	Rotary RPM	Vert Dev	Pump Press	% of Bit life Used	Remarks
1	7¼	SEC	S-88 CF4	15 15 Open	639494	3944'	3678'	53.75	53.75	68	All/43	60	1°	130/250	80	WRR
2	7¼	HTC	ATJ-44	11 11 11	P21WX	5950'	2004'	74.50	74.50	26	43	60/65	1°	950/1025	100	

BALCROON OIL 31-5Y FEDERAL  
 660' FNL 1980' FEL, SECTION 5, T 9 S-R 18 E  
 UTAH COUNTY, UTAH

TIME / DEPTH PENETRATION CURVE



**Balcron Oil 31-5Y Federal  
660' FNL, 1980' FEL, Sec. 5, T9S-R18E  
Uintah County, Utah**

**FORMATION TOPS**

ELEVATIONS: G.L. 4867' (Graded) K.B. 4877'

<u>Formation</u>	<u>E-Log Top</u>	<u>Subsea Datum</u>	<u>Structural Relationship To Reference Well *</u>
Green River	1462'	(+3415')	71' Hi
Horsebench Sand	2216'	(+2661')	77' Hi
2nd Garden Gulch	3924'	(+ 953')	68' Hi
Yellow Marker	4518'	(+ 359')	68' Hi
Douglas Creek	4685'	(+ 192')	70' Hi
2nd Douglas Creek Mkr	4931'	(- 54')	68' Hi
Carbonate Marker	5488'	(- 611')	108' Hi
Uteland Butte LS	5894'	(-1017')	95' Hi
TOTAL DEPTH	5960' Logger		

\* Reference Well:

Natural Gas Corp. of California  
33-32D 8 Mile Flat  
NW<sup>1</sup>/<sub>4</sub>SE<sup>1</sup>/<sub>4</sub>, Sec. 32, T8S, R18E  
Uintah County, Utah

NOTE: Correlations and nomenclature that provided and used by operator.

**Balcron Oil 31-5Y Federal  
660' FNL, 1980' FEL, Sec. 5, T9S-R18E  
Uintah County, Utah**

**REFERENCE WELL E-LOG FORMATION BOREHOLE AND SUBSEA DATUMS**

Natural Gas Corp. of California  
33-32D 8 Mile Flat  
NW¼SE¼, Sec. 32, T8S, R18E  
Uintah County, Utah

K.B. 4944'

**Formation**

Green River	1600'	(+3344')
Horsebench Sand	2360'	(+2584')
2nd Garden Gulch	4059'	(+ 885')
Yellow Marker	4653'	(+ 291')
Douglas Creek	4822'	(+ 122')
2nd Douglas Creek Mkr	5066'	(- 122')
Carbonate Marker	5663'	(+ 719')
Uteland Butte LS	6056'	(-1112')
<b>TOTAL DEPTH</b>	<b>6991' (Logger)</b>	

Note: Correlations and nomenclature that provided and used by operator.

**Balcron Oil 31-5Y Federal  
660' FNL, 1980' FEL, Sec. 5, T9S-R18E  
Uintah County, Utah**

**SIGNIFICANT GAS KICKS AND/OR SHOWS AS REPORTED BY MUDLOGGER**

<u>Formation</u>	<u>Sample Depth</u>	Time	Total Gas	<u>Remarks</u>
		(Before-During-After) <u>Min/Ft</u>	(Before-During-After)	
Horsebench	3890'-3905'	1.1 - 0.8 - 1.2	25 - 60 - 35	Abundant oil on pits
Douglas Creek	4692'-4696'	2.0 - 1.0 - 2.5	2 - 720 - 100	
Douglas Creek	4754'-4764'	3.0 - 1.0 - 3.0	60 - 570 - 85	
2nd Douglas Creek Marker	4982'-4996'	2.5 - 1.2 - 2.5	240 - 600 - 250	
Carbonate Marker	5520'-5530'	3.0 - 2.0 - 3.0	250 - 600 - 300	
Carbonate Marker	5544'-5552'	3.0 - 1.0 - 2.5	250 - 600 - 225	
Carbonate Marker	5568'-5602'	2.5 - 1.5 - 3.0	220 - 400 - 225	Show only in top of Sandstone.

NOTE: Mudlog unit probably not operating optimally from 3946'-4692', thus lack of gas shows from sandstones in this interval. Should not downgrade sandstones potential due to lack of gas show.

**POTENTIAL SANDSTONE ZONES**

Provided by Wellsite Geologist

E-Log Depth (Spectral Density/Dual Spaced Neutron Log)

*3907'-3913'	Had considerable quantity of oil blown to pit.
4003'-4007'	No sample show.
4287'-4295'	
4587'-4600'	
*4641'-4657'	
4697'-4702'	
4762'-4771'	
*4989'-5002'	
*5520'-5529'	
5553'-5556'	
5581'-5609'	
5630'-5636'	

\* = Best visual shows in cuttings.

**Balcron Oil 31-5Y Federal  
660' FNL, 1980' FEL, Sec. 5, T9S-R18E  
Uintah County, Utah**

**SAMPLE DESCRIPTIONS**

By: Dennis C. Rehrig

Samples caught by Mud Loggers. Samples were examined wet, under reflected light and 3X magnification from 1300' to total depth, for porosity identification samples were dried. Sample descriptions tie moderately well to drill time log and E-logs. Samples appeared generally fair-good but correlations to penetration rates are generally 6-9' high to E-logs below 3800'. All sample descriptions are interpretive. NOTE: Many shales fluorescence and yield a cut in this section, also much rock becomes contaminated while air drilling, thus only shows which are felt to be significant to production from sandstone reservoirs are reported.

- 1300-1400      Siltstone - clear to milky, moderately-slightly argillaceous, slightly-moderately calcareous, peppered in part with carbonaceous and lithic fragments, well consolidated.
- Shale - cream-occasionally light gray-trace slightly emerald, frequently silty, slightly-moderately calcareous, moderately firm, slightly pyritic in part.
- 1400-50        Shale - cream, frequently silty, slightly-moderately calcareous, commonly peppered with olive colored Biotite, moderately firm.
- Siltstone - commonly ranging to very fine-fine Sandstone - clear-milky to light gray in part, slightly argillaceous in part, slightly-moderately calcareous, commonly pyritic, moderately-well consolidated, moderately well sorted, sub-angular, no apparent porosity, NSFOC.
- 1450-1500     Sandstone - very fine grained ranging to Siltstone, milky-clear, generally unconsolidated-moderately consolidated, sub-round to sub-angular, slightly argillaceous in part, slightly calcareous in part, frequently pyritic, NSFOC.
- Shale - light-medium gray-tannish gray, moderately firm, slightly-moderately calcareous, slightly carbonaceous in part, occasionally silty, frequently pyritic.
- 1500-50        Dolomite-Limy Dolomite - tan-light to medium brown, cryptocrystalline, moderately firm, slightly argillaceous in part, slightly-moderately carbonaceous, some dark brown specks of carbonaceous material.
- Shale - as above.

- 1550–1600 Dolomite–Limy Dolomite – orangish tan to tan, cryptocrystalline, moderately firm, slightly carbonaceous, dense.
- Shale – light–medium gray to brownish gray, commonly mottled–specked with dark brown–gray carbonaceous material, frequently pyritic, silty in part.
- Some Siltstone ranging to very fine grained Sandstone – milky–clear, occasionally white, slightly argillaceous in part, slightly–moderately calcareous, friable in part, generally moderately unconsolidated, sub–round to sub–angular, moderately well consolidated, frequently pyritic, NSFOC.
- 1600–50 Dolomite–Limy Dolomite – tan, cryptocrystalline, moderately firm, brittle in part, slightly–moderately carbonaceous, trace Pyrite, dense.
- 1650–1700 Dolomite–Limy Dolomite – tan–light brown–reddish brown as above, increase in Pyrite.
- 1700–50 Argillaceous Dolomite – tan–light gray–cream, frequently orangish brown cryptocrystalline, moderately firm, frequently peppered with microcrystalline disseminated Pyrite, slightly–moderately carbonaceous in part.
- 1750–1850 Argillaceous Dolomite – as above.
- Dolomite–Limy Dolomite – orangish brown–tan, microcrystalline–cryptocrystalline, moderately firm, slightly–moderately carbonaceous, trace Pyrite, dense.
- 1850–1900 Dolomite–Limy Dolomite – mahogany–tan–grayish tan, slightly–moderately carbonaceous, slightly argillaceous in part, cryptocrystalline, frequently pyritic.
- 1900–2000 Dolomite–Limy Dolomite – as above.
- Some Argillaceous Dolomite as 1700–1750 above.
- 2000–50 Limy Dolomite – tan–mahogany occasionally grayish tan, microcrystalline to cryptocrystalline, moderately firm, dense, slightly argillaceous in part, occasionally pyritic.
- 2050–2100 Limestone–Dolomitic Limestone – tan–medium brown to grayish cream, microcrystalline to cryptocrystalline, moderately firm–moderately soft, slightly argillaceous in part, slightly carbonaceous in part, frequently pyritic, dense.
- 2100–50 Dolomite–Limy Dolomite – tan–mahogany, grayish tan, microcrystalline to cryptocrystalline, slightly argillaceous in part, moderately firm to occasionally moderately soft, dense, slightly carbonaceous, frequently pyritic.

- 2150-2200 Dolomite-Limy Dolomite - tan-grayish tan, frequently mahogany, microcrystalline to cryptocrystalline, moderately firm, slightly argillaceous in part, slightly-moderately carbonaceous, commonly pyritic.
- 2200-50 Dolomite-Limy Dolomite - dark brown to frequently tan-medium brown-amber, microcrystalline to cryptocrystalline, moderately firm-firm, dense, slightly-moderately argillaceous in part, slightly-moderately carbonaceous, commonly siliceous, occasionally pyritic.
- 2250-2300 Dolomite-Limy Dolomite - medium-dark brown, frequently buff-tan, microcrystalline, moderately carbonaceous, some petroliferous material, moderately firm, dense.
- 2300-50 Dolomite-Limy Dolomite - tan-medium brown, frequently light gray, slightly argillaceous in part, slightly-moderately carbonaceous in part, microcrystalline to cryptocrystalline, moderately firm, abundant Pyrite.
- 2350-2400 Dolomite-Limy Dolomite - grayish medium-dark brown to dark brown, microcrystalline to cryptocrystalline, slightly-moderately argillaceous in part, slightly-moderately carbonaceous, siliceous in part, commonly pyritic, dense.
- 2400-50 Dolomite-Argillaceous Dolomite - tan-medium brown, commonly some dark brown-black petroliferous material, cryptocrystalline to occasionally microcrystalline, moderately soft-moderately firm, dense, commonly pyritic.
- 2450-2500 Dolomitic Limestone-Limestone - cream-buff-milky, microcrystalline to cryptocrystalline, moderately soft-moderately firm, dense, slightly carbonaceous in part, trace Pyrite.
- 2500-50 Dolomite-Limy Dolomite - tan, medium to dark brown, occasionally mahogany, cryptocrystalline to occasionally microcrystalline, slightly-moderately carbonaceous, slightly argillaceous in part, moderately firm-moderately soft, frequently pyritic.
- 2550-2600 Dolomite-Limy Dolomite - tan-medium to dark brown, frequently dark brown-black petroliferous material, cryptocrystalline to microcrystalline, moderately firm, slightly argillaceous in part, dense, siliceous in part, occasionally pyritic.
- 2600-2700 Dolomite-Limy Dolomite - tan-medium-dark brown, some black petroliferous material, slightly argillaceous in part, moderately-highly carbonaceous, microcrystalline to cryptocrystalline, dense, moderately firm.
- 2700-50 Dolomite-Limy Dolomite - medium-dark brown to tan, generally darker color than above due to carbonaceous material.

- 2750-2850 Dolomite-Limy Dolomite - medium-dark brown, frequently tan, frequently black petroliferous material, commonly moderately-highly carbonaceous, microcrystalline, moderately firm, slightly argillaceous in part, trace algal laminae.
- 2850-2900 Dolomitic Limestone - medium brown-mahogany-tan, occasionally cream, microcrystalline to occasionally cryptocrystalline, firm occasionally moderately hard, slightly carbonaceous in part, commonly pyritic, dense.
- 2900-50 Dolomite - tan-medium-dark brown with mahogany tinge, microcrystalline, moderately soft, medium-highly carbonaceous, frequently algal laminae, trace Pyrite, dense.
- 2950-3000 Dolomite-Limy Dolomite - as above.
- Shale - light-medium gray-slightly emerald, occasionally cream, frequently silty, slightly-moderately calcareous, slightly carbonaceous in part, moderately soft.
- Siltstone - milky-cream-clear, moderately well consolidated, slightly-moderately argillaceous, slightly-moderately calcareous, frequently glauconitic, commonly pyritic, NSFOC.
- 3000-50 Shale - light gray-slightly emerald, frequently cream, silty in part, slightly-moderately calcareous, slightly carbonaceous in part, commonly pyritic, moderately firm, sub-blocky in part.
- Siltstone ranging to very fine-fine grained Sandstone, generally clear-milky-white, frequently slightly emerald-light gray, moderately-well consolidated, slightly argillaceous in part, frequently slightly-moderately calcareous, commonly peppered with Glauconite and/or lithic fragments, some loose Quartz grains, sub-angular, moderately well sorted, NSFOC.
- 3050-3100 Siltstone occasionally ranging to very fine grained Sandstone - buff-light tan, moderately-highly calcareous, moderately-highly argillaceous, poorly sorted, well consolidated, specked with dark brown carbonaceous material, commonly pyritic, some Mica and Glauconite, NSFOC.
- 3100-50 Limy Dolomite-Argillaceous Dolomite - buff-tan-frequently dark brown-mahogany, moderately-highly carbonaceous, cryptocrystalline, moderately firm, dense, trace Pyrite.
- 3150-3200 Limy Dolomite-Argillaceous Dolomite - as above.

- Shale – dark brown–black, highly petroliferous, moderately firm–moderately soft, sub–fissile in part.
- Shale – cream–light gray–buff, slightly–moderately calcareous, sub–blocky in part, moderately soft–moderately firm, frequently pyritic.
- 3200–50 Sandstone very fine grained ranging to Siltstone – milky–clear, moderately unconsolidated in part, occasionally friable, moderately well sorted, sub–angular, slightly–moderately calcareous, slightly argillaceous in part, no apparent porosity in grain clusters, spotty uneven dark brown oil stain on grain contacts, no fluorescence, good dull yellow flash cut.
- Shale – light gray–cream, frequently silty, slightly–moderately calcareous, moderately soft, sub–blocky in part.
- 3250–3300 Shale – light gray–cream, commonly silty, slightly–moderately calcareous, commonly peppered with carbonaceous material, frequently pyritic, sub–blocky in part.
- Siltstone – milky–white–cream, slightly–moderately argillaceous, slightly–moderately calcareous, well consolidated, firm–moderately firm, frequently peppered with carbonaceous material and Pyrite, NSFOC.
- Trace Sandstone – as above.
- 3300–50 Dolomite–Limy Dolomite – buff–tan, slightly–moderately argillaceous, cryptocrystalline to microcrystalline, moderately firm–moderately soft, slightly–moderately carbonaceous in part, frequently pyritic.
- Argillaceous Dolomite – medium–dark brown to grayish brown, slightly–moderately carbonaceous, moderately firm–moderately soft, generally cryptocrystalline, frequently pyritic.
- 3350–3400 Limestone–Dolomitic Limestone – buff–tan, cryptocrystalline, moderately firm, brittle in part, dense, commonly pyritic.
- Shale – light gray–cream, slightly–moderately calcareous, silty in part, moderately firm, abundant Pyrite.
- Some Siltstone – milky–white, slightly–moderately argillaceous, slightly–moderately calcareous, well consolidated, moderately firm, abundant Pyrite, NSFOC.
- 3400–50 Shale and Limestone – as above.  
Some Siltstone – as above.

- 3450–3500 Shale and Limestone – as above.  
Increase of Siltstone – as above.
- 3500–50 Limestone–Argillaceous Limestone – buff, cryptocrystalline, moderately soft, dense.
- Shale – light–medium gray to tannish gray, moderately firm–moderately soft, slightly–moderately carbonaceous, sub–blocky in part.
- Trace Dolomite–Argillaceous Dolomite – mahogany–dark brown, cryptocrystalline, moderately firm, moderately–highly carbonaceous.
- 3550–3600 Shale – light gray–cream, slightly carbonaceous in part, slightly–moderately calcareous, frequently silty, sub–blocky in part, moderately firm, frequently pyritic.
- Siltstone – milky–white, moderately well consolidated, slightly calcareous in part, slightly argillaceous, firm, commonly pyritic, NSFOC.
- 3600–3700 Shale – light–medium gray, frequently brownish gray, slightly carbonaceous, moderately firm, sub–blocky, commonly silty, slightly–moderately calcareous, some Pyrite.
- Siltstone frequently ranging to very fine grained Sandstone – milky–occasionally white, moderately unconsolidated in part, some loose Quartz grains, sub–angular, moderately well sorted, slightly–moderately calcareous in part, some argillaceous material, NSFOC, some Pyrite.
- 3700–50 Shale – medium–dark gray–dark brownish gray–dark brown, moderately soft, moderately calcareous, moderately–highly carbonaceous, sub–fissile in part, slightly petroliferous in part.
- Some Limestone–Argillaceous Limestone – buff–tan, cryptocrystalline, moderately firm–moderately soft, dense, slightly carbonaceous in part.
- 3750–3800 Shale – dark brown–dark gray as above.
- Limestone–Dolomitic Limestone – tan–medium brown, cryptocrystalline, firm–moderately firm, trace of siliceous material, slightly carbonaceous, slightly–moderately argillaceous in part, dense.
- 3800–50 Shale – light–medium gray, brownish gray–cream, slightly calcareous, slightly carbonaceous in part, moderately firm–moderately soft, waxy appearance in part, sub–blocky.

- Limestone-Argillaceous Limestone - buff-tan, cryptocrystalline to microcrystalline, moderately firm-firm, dense, some clear-white Spar Calcite.
- 3850-3900 Limestone - buff-tan - as above, some black congealed oil globules on rock surfaces, appears to be contamination, since no porosity or evidence of fractures.
- Shale - as above.
- 3900-46 Shale - emerald-occasionally light gray, slightly calcareous, silty in part, sub-blocky, moderately firm.
- Sandstone very fine grained ranging to Siltstone - generally loosely consolidated to many loose Quartz grains, moderately well sorted, sub-angular to sub-round, probably good intergranular porosity. Frequently glauconitic, some Pyrite, no apparent stain, weak dull yellow fluorescence, very weak diffuse bluish yellow cut. This is poor show on grain contacts and clusters, but some congealed oil globules are floating free as in previous sample which could be contamination. E-logs should be carefully reviewed through this interval since mudlog did get a gas show, albeit a relatively minor one. NOTE: Significant quantity of black oil was blown to pit. TOH @ 3946 to drill with KCl/water and change bit.
- 3946-80 Much cavings, can't determine actual drilled cuttings.
- 3980-4000 Limestone-Dolomite Limestone - buff-tan, cryptocrystalline, moderately soft, slightly-moderately argillaceous, slightly calcareous, dense, some Spar Calcite.
- Dolomite-Argillaceous Dolomite - medium-dark brown, mahogany in part, cryptocrystalline to frequently microcrystalline, firm-moderately firm, frequently moderately soft, moderately-occasionally highly carbonaceous.
- Much cavings.
- 4000-4020 Limestone - Dolomitic Limestone - as above.
- Dolomite - Argillaceous Dolomite - as above.
- Shale - light-medium gray-commonly slightly emerald, moderately soft, slightly carbonaceous, slightly calcareous.
- Much cavings.
- 4020-40 Limestone - Dolomitic Limestone - as above.

Dolomite – Argillaceous Dolomite – as above.

Shale – as above.

Some Siltstone – milky–white, light gray, generally slightly argillaceous, slightly calcareous, siliceous in part, some specks of carbonaceous material, NSFOC.

4040–60 Limestone – buff–tan, microcrystalline to frequently cryptocrystalline, moderately firm, brittle in part, slightly argillaceous, dense.

4060–80 Shale – light–medium gray, occasionally emerald, slightly carbonaceous, slightly calcareous, moderately soft, frequently mottled with carbonaceous material, commonly microcrystalline disseminated Pyrite.

Some Siltstone – as above.

Some Dolomite – Argillaceous Dolomite – as above.

4080–4100 Shale – as above.

Limestone – as above.

Some Dolomite – Argillaceous Dolomite – as above.

Some Siltstone.

Sample highly mixed, probably much cavings.

4100–20 Shale – as above.

Dolomite – Argillaceous Dolomite – as above.

Some Limestone and Siltstone – as above.

Sample highly mixed, probably much cavings.

4120–40 Shale – medium–dark gray–dark brownish gray, slightly–moderately calcareous, slightly–moderately carbonaceous, sub–blocky, slightly pyritic in part.

Limestone – cream–buff, cryptocrystalline occasionally microcrystalline, slightly argillaceous in part, commonly pelletoidal, commonly mottled appearance with tan–mahogany color, dense, moderately soft–moderately firm.

- 4140-60            Shale - as above, also cream, frequently specked with carbonaceous material.
- Limestone - as above.
- Dolomite - Argillaceous Dolomite - tan-medium brown-yellowish to orangish brown, microcrystalline to cryptocrystalline, moderately firm, dense, moderately carbonaceous.
- Trace Siltstone - clear-milky, occasionally white, slightly argillaceous in part, slightly calcareous, well consolidated, NSFOC.
- 4160-4200        Shale - light-medium gray, commonly cream-light emerald, slightly-moderately carbonaceous, frequently specked-streaked with carbonaceous material, some microcrystalline Pyrite, moderately soft, sub-blocky.
- Siltstone - generally milky occasionally white-light gray, slightly calcareous, slightly argillaceous in part, well consolidated, commonly specks of carbonaceous material, some Glauconite, frequently pyritic, NSFOC.
- 4200-20            Shale - cream-light gray, occasionally medium gray, abundant Pyrite, slightly-moderately calcareous, moderately soft, occasionally silty.
- Siltstone - frequently ranging to very fine grained Sandstone - milky-white, frequently rose, generally slightly-moderately calcareous, generally slightly-moderately argillaceous, poorly-moderately sorted, well consolidated, no apparent porosity, generally much Pyrite, trace spotty tan oil stain, dull yellow fluorescence and weak dull yellow streaming cut.
- Dolomite - Argillaceous Dolomite - orangish brown-occasionally yellowish brown, microcrystalline, moderately firm, moderately carbonaceous, frequently Spar Calcite, dense.
- 4220-40            Shale - generally light-medium gray, commonly slightly emerald-cream, slightly-moderately calcareous, moderately soft, slightly carbonaceous in part, sub-blocky.
- Some Siltstone - milky-white as above, NSFOC.
- Some Dolomite - Argillaceous Dolomite - as above.
- 4240-60            Shale - light-medium gray, occasionally cream, frequently silty, moderately firm-moderately soft, slightly-moderately calcareous, slightly carbonaceous, some Pyrite.
- Siltstone - as above.

- 4260-80            Shale – as above.
- Siltstone – as above.
- Some Sandstone – very fine grained, milky-white, moderately well consolidated, slightly friable in part, slightly calcareous, slightly argillaceous in part, moderately well sorted, some poor intergranular porosity, sub-angular, some spotty medium brown oil stain on grain contacts with dull yellow fluorescence and weak bright yellow glow cut. Reservoir probably not porous enough to be commercial.
- 4280-4300        Shale – as above.
- Some Siltstone – as above.
- Some Sandstone – generally as above, but porosity and show is better.
- 4300-20            Shale – dark gray – dark brownish gray, slightly calcareous, moderately carbonaceous, moderately firm, sub-blocky.
- Limestone – yellowish-orangish tan, microcrystalline to cryptocrystalline, moderately firm, slightly carbonaceous in part, some Spar Calcite, dense, slightly argillaceous in part.
- 4320-60            Shale – light-medium gray, frequently cream, slightly-moderately calcareous, frequently silty, slightly carbonaceous in part, frequently specked-streaked with Pyrite.
- Siltstone – milky-light gray, commonly slightly-moderately argillaceous, slightly carbonaceous abundant Pyrite, well consolidated, slightly-moderately calcareous, NSFOC.
- 4360-80            Shale – medium-light gray to medium-light brown, moderately firm, moderately-highly calcareous, slightly-moderately carbonaceous, silty in part, sub-blocky, commonly pyritic.
- Some Siltstone – as above.
- 4380-4400        Shale – dark brown, typically mahogany cast, occasionally black, highly carbonaceous-occasionally petroliferous, moderately soft, slightly-moderately calcareous, sub-fissile, likely very good source rock. Some black oil globules clinging to Shale.
- 4400-20            Shale – as above.

Shale - light gray-cream, slightly-moderately calcareous, silty in part, commonly pyritic, moderately firm-moderately soft.

Siltstone - milky-white-light gray, well consolidated, firm, slightly argillaceous, slightly-moderately calcareous, frequently pyritic, NSFOC.

4420-60

Shale - light gray to cream as above.

Siltstone - as above.

Twisted off @ 4486'. Twisted off joint on top of collars.

Fished out collars and back to drilling.

4460-4500

Shale - generally light gray-frequently medium gray-cream, moderately soft, slightly calcareous, commonly streaked-specked with carbonaceous, frequently pyritic.

Some Siltstone - milky-white, moderately calcareous, slightly argillaceous in part, generally well consolidated, some Pyrite and carbonaceous specks, NSFOC, siliceous in part.

Much cavings.

4500-20

Shale - as above, except abundant Pyrite, some dark brown, highly carbonaceous, slightly calcareous, moderately soft, commonly dark bronze cast, commonly microcrystalline, disseminated Pyrite.

Siltstone - white-cream-milky, slightly-moderately calcareous, slightly argillaceous in part, moderately well consolidated, commonly specks of carbonaceous material, some Glauconite and Pyrite, NSFOC.

4520-40

Siltstone - as above.

Argillaceous Dolomite - Limy Dolomite - orangish brown-yellowish tan, microcrystalline to cryptocrystalline, moderately firm-moderately soft, moderately-highly carbonaceous, dense.

Shale - cream-light gray, moderately soft-soft, slightly-moderately calcareous, commonly streaked-specked with Pyrite.

4540-60

Shale - light to medium gray-cream, moderately firm-soft, slightly-moderately calcareous, commonly streaked-specked with carbonaceous material and Pyrite, silty in part.

- Siltstone – light gray–milky occasionally white, moderately well consolidated, slightly calcareous, slightly–moderately argillaceous, frequently specked with carbonaceous material, lithic fragments, Glauconite and Pyrite, NSFOC.
- 4560–80 Shale and Siltstone – as above.
- Some Limy Dolomite – Argillaceous Dolomite – medium brown–orangish to yellowish brown – generally microcrystalline, moderately firm, occasionally moderately soft, commonly Spar Calcite, dense, moderately carbonaceous.
- 4580–4600 Shale – generally medium gray, occasionally light gray–cream, moderately firm, slightly calcareous, slightly carbonaceous, frequently pyritic, silty in part.
- Some Siltstone – as above.
- 4600–20 Dolomitic Limestone–Argillaceous Limestone – medium brown–orangish tan, yellowish brown in part, moderately firm–moderately soft, moderately carbonaceous, generally microcrystalline, commonly Spar Calcite, dense.
- Siltstone ranging to very fine grained Sandstone – milky–light tan–light gray, generally well consolidated, moderately well sorted, sub–angular, slightly argillaceous in part, no apparent porosity, frequently slightly brown uneven oil stain, very weak dull yellow fluorescence, and fair dull yellow blooming cut. Fair show, but probably too tight.
- Shale – generally medium gray, frequently light gray–cream, moderately firm–moderately soft, slightly–moderately calcareous, slightly carbonaceous, commonly pyritic.
- 4620–40 Sandstone very fine grained occasionally ranging to Siltstone – generally light–medium brown, moderately well consolidated, frequently slightly friable, moderately well sorted, sub–angular to sub–round, slightly calcareous in part, slightly argillaceous in part, some fair–good intergranular porosity, good even light–medium brown oil stain, occasionally dark brown–black oil globules, very faint dull yellow fluorescence, good dull yellow flash cut. Should be a commercial zone, if thick enough, NOTE: gas unit didn't get increase, but vacuum not working properly at time.
- Shale – as above.
- Dolomitic Limestone–Argillaceous Limestone – as above.
- 4640–60 Shale – light–medium gray, moderately soft occasionally moderately firm, moderately–highly calcareous, slightly carbonaceous, sub–blocky in part, some Pyrite.

Siltstone – milky–white–light gray, well consolidated, moderately calcareous, slightly–moderately argillaceous, some Pyrite, NSFOC.

4060–80

Shale – generally medium gray as above.

4680–95

Shale – dark brown–dark grayish brown–black, moderately–highly carbonaceous, slightly petroliferous in part, slightly–moderately calcareous, moderately firm, brittle in part.

Some Shale – as above.

Sandstone very fine grained ranging to Siltstone – milky–light tan–clear, well consolidated, moderately well sorted, slightly calcareous, slightly argillaceous, sub–angular, generally tight, very faint light tan oil stain in part, bright yellow fluorescence, and fair dull yellow blooming cut. Marginal reservoir and show.

4695–4700

Sandstone very fine grained commonly ranging to Siltstone – generally very light tan, occasionally milky–clear, generally well–moderately well consolidated, slightly calcareous, slightly argillaceous in part, moderately well sorted, sub–angular, generally no apparent porosity, generally faint light tan even oil stain, bright yellow cut and fair dull yellow blooming cut. Probably marginal reservoir and only fair show.

Shale – light–medium gray–slightly emerald, frequently cream, slightly–moderately calcareous, moderately firm–moderately soft, silty in part, commonly pyritic.

Dolomitic Limestone–Argillaceous Limestone – orangish brown–yellowish tan, occasionally medium–dark brown–tan, microcrystalline to cryptocrystalline, dense, medium carbonaceous, moderately firm–occasionally moderately soft.

4700–20

Dolomitic Limestone–Argillaceous Limestone – orangish brown–yellow brown–tan as above.

Shale – light–medium gray, commonly cream, moderately soft, silty in part, slightly–moderately calcareous, frequently pyritic.

4720–40

Shale – cream–light gray frequently slightly emerald, moderately soft–moderately firm, slightly–moderately calcareous, silty in part, frequently pyritic.

Siltstone – light gray–clear–milky, occasionally ranging to very fine grained Sandstone, moderately argillaceous, slightly–moderately calcareous, frequently specks carbonaceous material, Glauconite and Pyrite, NSFOC.

Some Dolomitic Limestone–Argillaceous Limestone as above.

4740–60 Sandstone very fine grained commonly ranging to Siltstone – very faint tan–milky, generally moderately well–well consolidated, slightly calcareous in part, slightly argillaceous in part, sub–angular, moderately well sorted, trace Glauconite – generally no apparent porosity, very faint light tan oil stain, bright yellow fluorescence, and weak bright yellow halo cut. Looks like too tight and marginal show.

Some Shale and Dolomitic Limestone–Argillaceous Limestone – as above.

4760–4800 Shale – light–medium gray to light–medium brown, frequently emerald–rust, moderately soft–moderately firm, slightly argillaceous, commonly pyritic, slightly–moderately calcareous.

Dolomitic Limestone–Argillaceous Limestone – as 4700–20 above.

Some Siltstone ranging to very fine grained Sandstone, milky–white–light gray to occasionally slightly emerald–slightly rust, generally poorly sorted, moderately–highly argillaceous, moderately–highly calcareous, well consolidated, occasionally carbonaceous material, frequently pyritic, tight, NSFOC.

4800–20 Shale – light–medium gray, frequently medium brown–brownish gray – rust – lavender, slightly emerald, commonly silty, slightly–moderately calcareous, some specks carbonaceous material, frequently pyritic.

Dolomitic Limestone–Argillaceous Limestone – as above.

4820–60 Sandstone – very fine–fine grained ranging to Siltstone – generally clear–milky, moderately well consolidated, moderately well sorted, sub–angular, some lithic–carbonaceous material, some Pyrite, generally grains welded together tightly, no apparent porosity, NSFOC.

Dolomitic Limestone–Argillaceous Limestone – frequently Spar Calcite – dense, microcrystalline to cryptocrystalline, firm–moderately soft, moderately carbonaceous.

Shale – generally light–medium gray, commonly medium brown–cream as above.

4860–80 Shale – generally light gray, frequently brownish gray–medium gray cream, moderately soft, slightly silty in part, slightly–moderately calcareous, some specks of carbonaceous material, commonly pyritic.

- Siltstone – light gray–faint brownish gray–cream, well consolidated, slightly–moderately argillaceous, slightly–moderately calcareous, frequently specked with carbonaceous material, some Pyrite, NSFOC.
- 4880–4900 Shale – generally medium gray, occasionally light gray–cream, generally soft–moderately soft, slightly calcareous, slightly carbonaceous.
- Some Siltstone – as above.
- 4900–20 Shale – medium–dark tannish gray, moderately firm, sub–blocky, moderately calcareous, slightly carbonaceous, silty in part, trace Pyrite.
- 4920–40 Shale – light medium gray to brownish gray–tan as above.
- Limestone–Dolomitic Limestone – tan–yellowish tan in part, cryptocrystalline, firm, brittle in part, slightly carbonaceous, slightly argillaceous in part, dense.
- 4940–60 Shale – medium–dark gray–dark brownish gray, moderately firm–moderately soft, slightly calcareous, sub–platy in part, slightly–moderately carbonaceous.
- 4960–80 Shale – medium–dark brown, frequently light–medium gray, generally moderately firm, slightly–moderately calcareous, slightly–moderately carbonaceous, sub–blocky.
- 4980–90 Shale – light–medium gray, frequently medium brown as above.
- Sandstone – very fine–fine grained, milky, moderately well consolidated, slightly friable in part, slightly–moderately calcareous, slightly argillaceous, moderately well sorted, sub–angular, some lithic fragments, trace Glauconite, generally tightly welded grain contacts and no observable porosity, generally spotty dark brown oil stain, weak dull yellow fluorescence and fair slow bright yellow–gold oozing cut. Fair show and probably commercial if E–logs confirm sufficient porosity.
- 4990–5000 Sandstone – very fine grained – occasionally fine grained, frequently grading to Siltstone – generally light brown, moderately well consolidated, frequently slightly friable, moderately well sorted, sub–angular, some lithic–carbonaceous fragments, slightly calcareous in part, slightly argillaceous in part, generally no apparent porosity. Some poor–fair intergranular porosity, generally even light brown oil stain, weak dull yellow fluorescence and fair–good dull bluish–yellow flash cut. Good visual show but porosity may be insufficient and needs to be confirmed with E–logs.

- 5000-40 Shale - light medium gray-frequently cream, frequently silty, slightly-moderately calcareous, slightly carbonaceous, moderately firm, sub-blocky, pyritic in part.
- Siltstone - milky-light gray-brownish gray, slightly-moderately argillaceous, slightly-moderately calcareous, well consolidated, moderately firm-firm, commonly specked with Pyrite, NSFOC.
- 5040-60 Shale - light-medium gray-cream-brownish gray, commonly specked-mottled with brown carbonaceous material, frequently silty, moderately soft, slightly-moderately calcareous.
- Sandstone very fine grained commonly ranging to Siltstone - light gray-milky, commonly mottled appearance with medium-dark brown-black carbonaceous material - hydrocarbons, generally very poorly sorted, moderately-highly argillaceous, moderately calcareous, generally no apparent porosity and spotty dead oil and live oil stain, trace Sandstone with good intergranular porosity, even medium brown oil stain, very weak dull yellow cut and fair bluish-yellow streaming cut. Samples suggest reservoir quality rock very thin and probably not economic, but close review of E-logs would be in order.
- Some Dolomitic Limestone-Argillaceous Limestone - as 4840-60 above.
- 5060-80 Shale - light-medium gray, moderately firm-moderately soft, slightly calcareous, slightly carbonaceous in part, trace dark brown-black Shale - moderately firm-firm, brittle in part, moderately-highly carbonaceous, slightly calcareous.
- 5080-5100 Shale - dark gray-black in part, slightly bronze cast in part, generally firm, slightly brittle in part, moderately-highly carbonaceous, sub-platy in part, slightly-moderately calcareous, abundant microcrystalline disseminated Pyrite.
- Some Limestone - dark brown, cryptocrystalline, firm, brittle, dense, moderately carbonaceous, slightly argillaceous in part.
- 5100-20 Shale - medium-dark gray-medium grayish brown-dark brown, moderately firm-firm, slightly-moderately calcareous, moderately-highly carbonaceous, frequently pyritic.
- 5120-40 Shale - as above.
- Trace Sandstone - very fine grained, medium brown, moderately well consolidated, slightly calcareous, slightly argillaceous, moderately well sorted, sub-angular, some fair intergranular porosity, even light-medium brown oil stain, frequently dark brown-black oil globules, very weak dull gold

fluorescence, fair-good dull yellow flash cut. May be cavings because only a trace.

5140-60

Shale - light-medium gray, occasionally brownish gray, moderately soft, slightly-moderately calcareous, slightly carbonaceous in part, sub-blocky in part.

Sandstone - very fine grained, commonly ranging to Siltstone - light brown-light gray-milky, generally well consolidated, slightly calcareous, slightly argillaceous, moderately-poorly sorted, sub-angular, generally no apparent porosity. Typically uneven-spotty light-medium brown oil stain, very weak dull yellow fluorescence and fair-good dull yellow-bluish yellow cut. Generally looks too tight to be commercial.

Some Dolomitic Limestone-Argillaceous Limestone - orangish brown-yellowish tan-orange, microcrystalline, moderately firm-moderately soft, slightly-moderately carbonaceous, dense.

5160-80

Shale - light-medium gray, frequently slightly emerald-cream, silty in part, slightly-moderately calcareous, slightly carbonaceous in part, moderately soft, slightly pyritic.

Dolomitic Limestone-Argillaceous Limestone - as above.

Some Siltstone ranging to very fine grained Sandstone - white-light gray, well consolidated, moderately-highly calcareous, slightly-moderately argillaceous, dense, NSFOC.

5180-5200

Shale - as above.

Dolomitic Limestone-Argillaceous Limestone - as above.

Trace Sandstone - very fine grained commonly ranging to Siltstone - generally as above, some with uneven light brown oil stain, very weak dull yellow fluorescence, very weak bluish yellow streaming cut. No apparent porosity. Rock looks tight and marginal show.

5200-20

Shale - light-medium gray, commonly brownish gray-cream, moderately soft, slightly-moderately calcareous, commonly slightly carbonaceous and pyritic.

Dolomitic Limestone-Argillaceous Limestone - as above.

Some Siltstone as 5160-80 above.

- 5220-40            Shale – as above, also some emerald-rust-lavender, some dark brown-black, highly carbonaceous.
- Dolomitic Limestone-Argillaceous Limestone – yellowish tan-orangish brown-orange microcrystalline, moderately firm-moderately soft, slightly-moderately carbonaceous, some Spar Calcite, dense.
- Some Siltstone – as above, siliceous in part.
- Sample appears highly mixed.
- 5240-60            Shale – light-medium gray, frequently cream, slightly-moderately calcareous, moderately soft-soft, some specks of carbonaceous material, frequently pyritic.
- Dolomitic Limestone-Argillaceous Limestone – orangish tan-yellowish brown, occasionally mahogany, cryptocrystalline to microcrystalline, moderately firm-soft, slightly-moderately carbonaceous, dense.
- 5260-80            Dolomitic Limestone-Argillaceous Limestone – orangish brown-yellowish tan, frequently dark brown, generally microcrystalline, moderately firm-occasionally moderately soft, some Spar Calcite, dense.
- Some Shale – as above.
- 5280-5300        Dolomitic Limestone-Argillaceous Limestone – as above.
- Shale – as above.
- Some Siltstone – milky-light gray, well consolidated, slightly calcareous, slightly argillaceous in part, trace lithic fragments, NSFOC.
- 5300-20            shale – light-medium gray-cream, as above, also much dark gray-grayish black with bronze cast, moderately soft, highly carbonaceous-petroliferous, slightly calcareous, highly pyritic, sub-platy to sub-splintery in part.
- Some Dolomitic Limestone-Argillaceous Limestone – as above.
- 5320-40            Shale – dark gray-steely gray, moderately firm-moderately soft, slightly calcareous, highly carbonaceous, sub-blocky.
- 5340-60            Shale – black-dark gray, typically with bronze cast from abundant microcrystalline disseminated Pyrite, moderately soft-soft, slightly-moderately calcareous, highly carbonaceous-petroliferous, likely excellent source rock.

- Some Limestone – dark brown, moderately hard, brittle, argillaceous in part, moderately carbonaceous, cryptocrystalline, dense.
- 5360–80 Shale – black with bronze cast, highly pyritic, moderately firm–moderately soft, slightly–moderately carbonaceous in part, highly carbonaceous–petroliferous, sub–fissile to sub–platy in part.
- 5380–5420 Shale – as above – some Shale light gray–cream, moderately soft, slightly–moderately calcareous, slightly carbonaceous, silty in part, frequently pyritic.
- 5420–85 Shale – black commonly with bronze cast due to abundant microcrystalline disseminated pyrite, highly carbonaceous–petroliferous, slightly calcareous in part, moderately soft–soft, sub–fissile to sub–platy.
- Short trip out of hole @ 5490' for hole in drill pipe.
- 5485–5500 Highly mixed sample – mostly cavings.
- 5500–20 Shale – light gray–cream–white, moderately firm, very slightly calcareous in part, very slightly carbonaceous in part, slightly silty in part.
- Some Siltstone ranging to very fine grained Sandstone – milky–white, slightly calcareous, slightly argillaceous in part, well consolidated, sub–angular, no apparent porosity, NSFOC.
- 5520–30 Sandstone very fine–fine grained ranging to Siltstone – milky–light tan–occasionally white, moderately well consolidated, slightly friable in part, sub–angular to sub–round, moderately well sorted, slightly calcareous, slightly argillaceous in part, generally no apparent porosity, some fair intergranular porosity, generally light brown oil stain, some dark brown oil globules, very weak dull gold fluorescence in part, weak bluish yellow halo – slow streaming cut, some lithic material and Glauconite. If E–logs substantiate adequate porosity, should be prospective.
- Shale – light–medium gray, frequently brownish gray–cream, frequently mottled with brown carbonaceous material, moderately soft, slightly–moderately calcareous.
- Trace Limestone–Argillaceous Limestone, tan–buff, cryptocrystalline, moderately soft, slightly carbonaceous, dense.
- 5530–40 Dolomitic Limestone–Argillaceous Limestone – orangish brown–yellowish tan, microcrystalline to cryptocrystalline, some Spar Calcite, slightly carbonaceous in part, moderately firm–moderately soft, dense.

Shale – medium–light gray, frequently cream–slightly lavender, frequently silty, slightly–moderately calcareous, slightly carbonaceous in part, moderately firm–moderately soft, sub–blocky in part, trace Pyrite.

5540–60

Siltstone – commonly ranging to very fine–fine grained Sandstone – generally well consolidated, moderately–highly argillaceous, slightly–moderately calcareous, poorly sorted, sub–angular, frequently carbonaceous material, lithic fragments and Glauconite, frequently spotty light–medium brown oil stain, very weak dull gold fluorescence, very weak dull yellow glow–slow streaming cut. No apparent porosity, not prospective, too tight and poor show.

Shale – cream–light gray, typically mottled with medium brown carbonaceous material, frequently pyritic, moderately firm–moderately soft, slightly–moderately calcareous, commonly silty.

Dolomitic Limestone–Argillaceous Limestone – as above.

5560–80

Sandstone – medium–fine grained, frequently ranging to very fine grained, generally clear–milky, moderately well consolidated, moderately well–well sorted, sub–angular, grains generally well cemented together, porosity not readily apparent, some fair intergranular porosity, generally no apparent oil stain, bright bluish yellow fluorescence and very weak blooming–slow dull yellow bleeding cut. Some pinpoint specks of medium brown oil globules, slightly calcareous in part, slightly argillaceous in part, occasionally pyritic. Generally very poor show and likely not commercial.

Some Shale and Dolomitic Limestone–Argillaceous Limestone – as above.

5580–5600

Sandstone – as above.

Some Shale – as above.

5600–20

Dolomitic Limestone–Argillaceous Limestone – orangish brown–yellow tan, microcrystalline to cryptocrystalline, moderately firm–moderately soft, slightly–moderately carbonaceous, dense, trace oolites.

Sandstone – as above.

Shale – as above.

5620–40

Dolomitic Limestone–Argillaceous Limestone – as above.

Shale – cream, generally mottled with brown carbonaceous material to light–medium gray, moderately soft, slightly–moderately calcareous, silty in part.

Some Siltstone ranging to very fine grained Sandstone, milky-light gray, occasional uneven light brown oil stain, very weak dull gold fluorescence, very weak bluish-yellow bleeding cut, generally slightly-moderately argillaceous, slightly-moderately calcareous, generally poorly-moderately sorted, sub-angular, no apparent porosity, generally very poor reservoir and show.

5640-60

Dolomitic Limestone-Argillaceous Limestone - as above.

Shale - light-medium gray-slightly lavender, frequently cream as above.

5660-80

Dolomitic Limestone-Argillaceous Limestone - as above.

Shale - as above, with increase in cream which is generally mottled with medium brown carbonaceous material.

5680-5700

Dolomitic Limestone-Argillaceous Limestone - as above.

Shale - as above.

Some Siltstone ranging to very fine grained Sandstone as 5620-40 above.

5700-20

Shale - light-medium gray-mottled cream as above, frequently dark gray-dark brownish gray, moderately firm-moderately soft, slightly calcareous, moderately carbonaceous, sub-splintery in part.

Some Dolomitic Limestone-Argillaceous Limestone - as above.

Some Siltstone ranging to very fine grained Sandstone - as above.

5720-40

Dolomitic Limestone-Argillaceous Limestone - orangish brown-yellowish tan, microcrystalline to cryptocrystalline, moderately firm-moderately soft, commonly Spar Calcite, dense, slightly-moderately carbonaceous.

Shale - light-medium gray to brownish gray - commonly cream and mottled with carbonaceous material as above.

5740-80

Shale as above - plus commonly slightly lavender - slightly rust, frequently dark gray - dark brown as above.

Some Siltstone ranging to very fine grained Sandstone as 5620-40 above.

Some Dolomitic Limestone-Argillaceous Limestone - as above.

- 5780-5800 Shale - black-dark brownish gray - dark brownish black, highly carbonaceous-highly petroliferous, slightly calcareous in part, generally soft-moderately soft, some Pyrite.
- Some Limestone-Argillaceous Limestone - dark brown, moderately firm, cryptocrystalline, brittle in part, dense, moderately-highly carbonaceous.
- 5800-20 Shale - light-medium gray, frequently emerald, slightly lavender, mottled cream, medium brown, slightly-moderately calcareous, slightly-moderately carbonaceous in part, moderately soft-moderately firm.
- Argillaceous Limestone-Dolomitic Limestone - yellowish tan to occasionally orangish brown, moderately firm-moderately soft, slightly carbonaceous, microcrystalline, some Spar Calcite, dense.
- Some Siltstone ranging to very fine grained Sandstone - milky-white-light gray, well consolidated, slightly calcareous, slightly argillaceous in part, NSFOC.
- 5820-40 Shale - as above.
- Siltstone commonly ranging to very fine grained Sandstone, generally as above with trace light brown oil stain in part, very weak dull gold fluorescence and very weak slow streaming cut, looks tight.
- Some Argillaceous Limestone - as above.
- 5840-60 Shale - dark gray-grayish black to dark brownish gray, moderately firm, moderately-highly carbonaceous, slightly calcareous, sub-blocky.
- Limestone-Argillaceous Limestone - tan-light brown, microcrystalline, firm, dense, highly fossiliferous-ostracods, dense.
- 5860-80 Shale - medium gray-brownish gray, occasionally cream, commonly silty, moderately calcareous, slightly-moderately carbonaceous, moderately firm, sub-blocky.
- Siltstone - milky-light gray, commonly argillaceous, firm, well consolidated, moderately calcareous, slightly-moderately carbonaceous, commonly pyritic, NSFOC.
- Some Limestone-Argillaceous Limestone - as above.
- 5880-5900 Shale - as above.

Siltstone ranging to very fine grained Sandstone as 5820-40 above.

Limestone-Argillaceous Limestone - as above.

5900-20

Shale - black-brownish black, some bronze cast, highly carbonaceous-slightly petroliferous in part, moderately firm-moderately soft, highly pyritic, slightly-moderately calcareous, sub-blocky.

Some Limestone-Argillaceous Limestone - dark brown, cryptocrystalline, firm, brittle, dense, moderately carbonaceous.

5920-5950

Shale - grayish black-brownish black, moderately firm, moderately-highly carbonaceous, commonly pyritic, moderately calcareous.

Limestone-Argillaceous Limestone - medium brown-frequently dark brown-tan, moderately firm-firm, brittle in part, slightly-moderately carbonaceous, cryptocrystalline, firm.

TOTAL DEPTH 5950' - DRILLER.

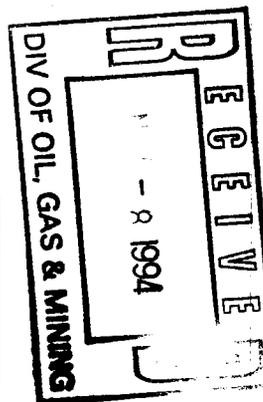
# DENNIS REHRIG & ASSOCIATES, INC.

OIL & GAS CONSULTING

## GEOLOGIC WELL LOG

4924 RIMROCK ROAD  
BILLINGS MONTANA 59106  
(406) 656-4785

BALCRON OIL 31-5Y FEDERAL  
660' FNL 1980' FEL, SECTION 5, T 9 S-R 18 E  
UINTAH COUNTY, UTAH



**CONFIDENTIAL**

ELEVATIONS 4867' GL 4877' KB

SPUD 3:15 AM (MDT) 10/9/94 (ROTARY)

OUT FROM UNDER SURF CSG 3:15 AM (MDT) 10/9/94

DATE DRLG COMP 11:45 PM (MDT) 10/16/94 (SURFACE CASING PREVIOUSLY SET) DRAWWORKS CABOT-FRANKS, POWERED BY ONE 313 DIESEL CAT

DATE WELL COMPLETED 1:15 PM (MDT) 10/18/94

STATUS WILL ATTEMPT DOUGLAS CREEK FM COMPLETION PUMPS: NO. 1 - GARDNER-DENVER FXN, 14" STROKE, 5 1/2" LINER

SURF CSG 8 5/8" TO 268' KB

PRODUCTION CSG RAN 5 1/2" CSG TO 594' KB

CORES NONE

DRILL STEM TESTS NONE

CONTRACTOR: UNION DRILLING CO.

RIG: 17

DERRICK: CABOT-FRANKS 97' MAST

PUMPS: NO. 1 - GARDNER-DENVER FXN, 14" STROKE, 5 1/2" LINER

DRILL PIPE: 4 1/2" OD, 2 1/4" ID, THREAD: XH

COLLARS: 6" OD, 2 1/2" ID, 20 JTS

MUD SYSTEM: AIR/FOAM - 268'-3946', KCL/WATER  
3946'-TD

TOTAL BITS: 2 (SURFACE HOLE PREVIOUSLY DRILLED)

TOTAL DAYS TO LOG POINT: 8 TO COMPLETION: 10

T.D. DRILLER 5950' LOGGER 5660'

PENETRATION 66' FROM TOP OF UTELAND BUTTE LS

### ROCK TYPE

(Consistent with American Stratigraphic Company)

	CONGLOMERATE		DOLOMITE
	SANDSTONE		ANHYDRITE
	SILTSTONE		SALT
	SHALE		COAL
	BENTONITE		IGNEOUS
	CHERT		VOLCANIC
	LIMESTONE		METAMORPHIC

### ACCESSORIES

	SANDY		CHERT
	SILTY		ARGILLACEOUS
	SAND GRAINS		CALCAREOUS
	SILICEOUS		DOLOMITIC
	GLAUCOMITE		ANHYDRITIC
	PYRITE		SALT CAST or INFILL
	PLANT REMAINS		PHOSPHATE PELLETS
	MINERAL CRYSTALS		NODULES

### ORGANIC or NON ORGANIC ALLOCHEMS

	FORAMINIFERA		CEPHALOPOD
	CRINOID		GASTROPOD
	PELECYPOD		ECHINOID
	BIOLASTIC or FRAGMENTAL		FOSSILS UNIDENTIFIABLE
	CORAL		OOLITES
	STROMATOPOROID		PISOLITE 2mm or over
	BRYOZOA		PSEUDO OOLITES or PELLETS
	BRACHIOPOD		INTRACLASTS
	OSTRACOD		

### FRAMEWORK ALGAE

	SKELETAL
	OOLOID or OMCOLYTIC

### NON-FRAMEWORK ALGAE

	NON-DESCRIPT
	LAMINATED

### MISCELLANEOUS

	NO SAMPLES		QUESTIONABLE INTERPRETATION
	CANNOT INTERPRET cavings etc		STYLOLITES

### POROSITY TYPES

X	INTERCRYSTALLINE, INTERGRANULAR, INTERFRAGMENTAL	O	ORGANIC - bridged, Intrafossil
∅	INTEROOLITIC, INTERPELLETOID	F	FRACTURE
V	VUGGY - voids greater than 1/16mm	e	EARTHY - low permeability, crystals less than 1/16mm
P	PINPOINT - voids less than 1/16mm	□	FENESTRAL - voids from gas bubbles, shrinkage cracks & birdseye texture
M	MOLDIC		

### OIL STAINS - stain present

●	EVEN STAINING, FLOURESCES IN SOLVENT
⦿	SPOTTED STAINING, FLOURESCES IN SOLVENT
D	DEAD, ASPHALTIC, BITUMEN, ETC
○	QUESTIONABLE, NO FLOURESCENCE IN SOLVENT

### EVALUATION LEGEND

	WHOLE CORE
	DRILL-STEM TEST
	PERFORATIONS

### DRILLING AND PRODUCTION DATA

▲	CASING SET	RPM	ROTATION (REV/MIN)
NB	NEW BIT	PP	PUMP PRESSURE
RRB	RERUN BIT	LC	LOST CIRCULATION
CB	CORE BIT	NR	NO RETURNS
DS	DEVIATION SURVEY	TG	TRIP GAS
W/B	WEIGHT ON BIT	CG	CONNECTION GAS

### MUD DATA

V	VISCOSITY
W	WEIGHT IN lbs/gal
WL	FILTRATE IN cc
FC	FILTER CAKE
CL	CHLORIDE CONTENT (ppm)
Rm	MUD RESISTIVITY ( Ω )
Rmf	MUD FILTRATE RESISTIVITY ( Ω )

### ELECTRIC LOG GAMMA RAY / CALIPER

### INTERPRETED LITHOLOGY AND DEPTH

### DRILLING PENETRATION RATE (MIN / FT)

CASING & PERFORATIONS  
CORE & DST  
OIL SHOWS  
POROSITY (%)  
10.5  
5.0  
2.5

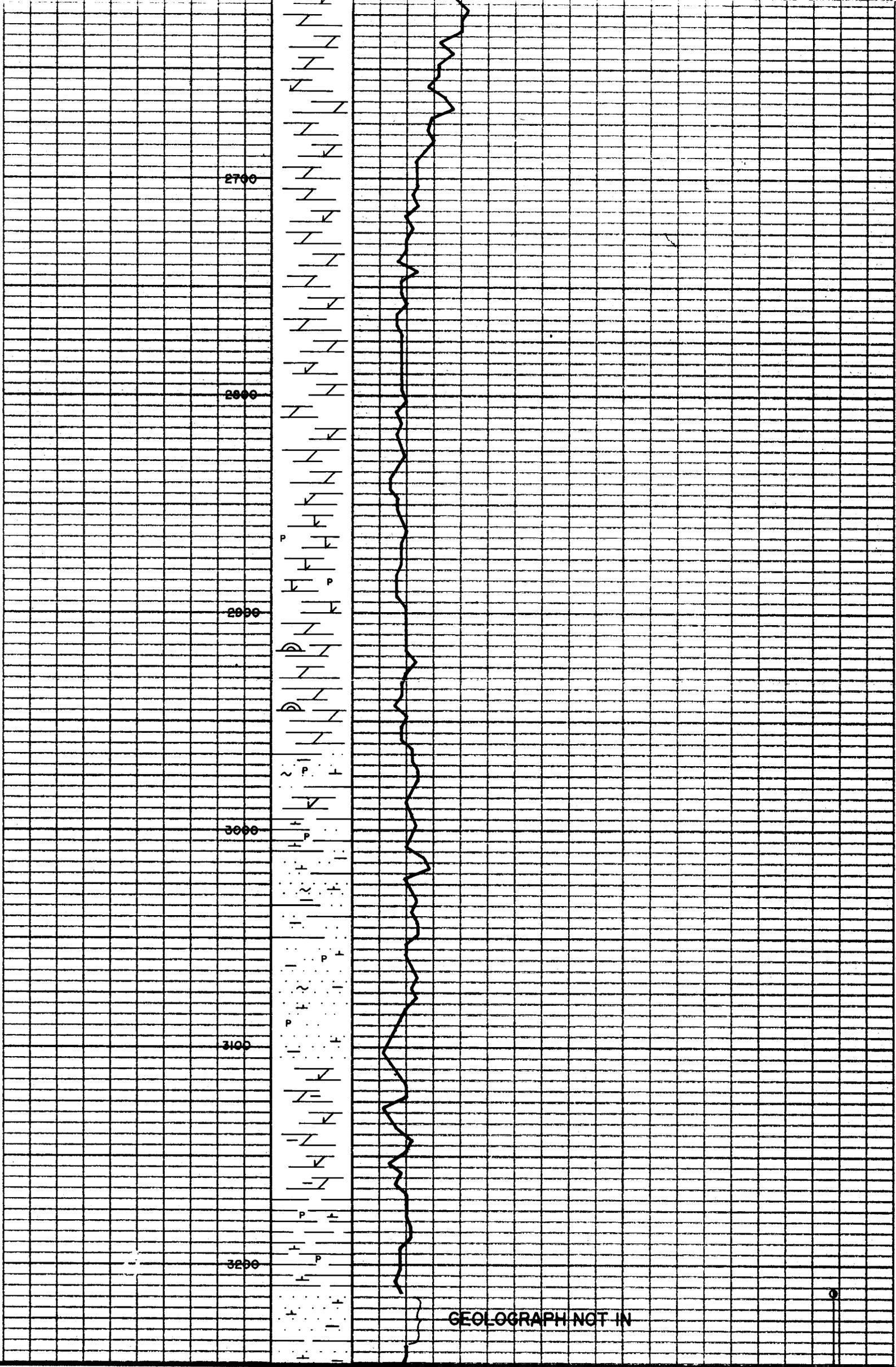
INTERPRETATIVE LITHOLOGIC & SAMPLE DESCRIPTIONS BASED ON SAMPLES CAUGHT BY MUD LOGGERS. GENERALLY TIE WELL TO DRILL TIME LOG. SEE REPORT FOR DETAILED DESCRIPTION OF SAMPLES, POROSITY & SHOWS

SAMPLES EXAMINED FROM

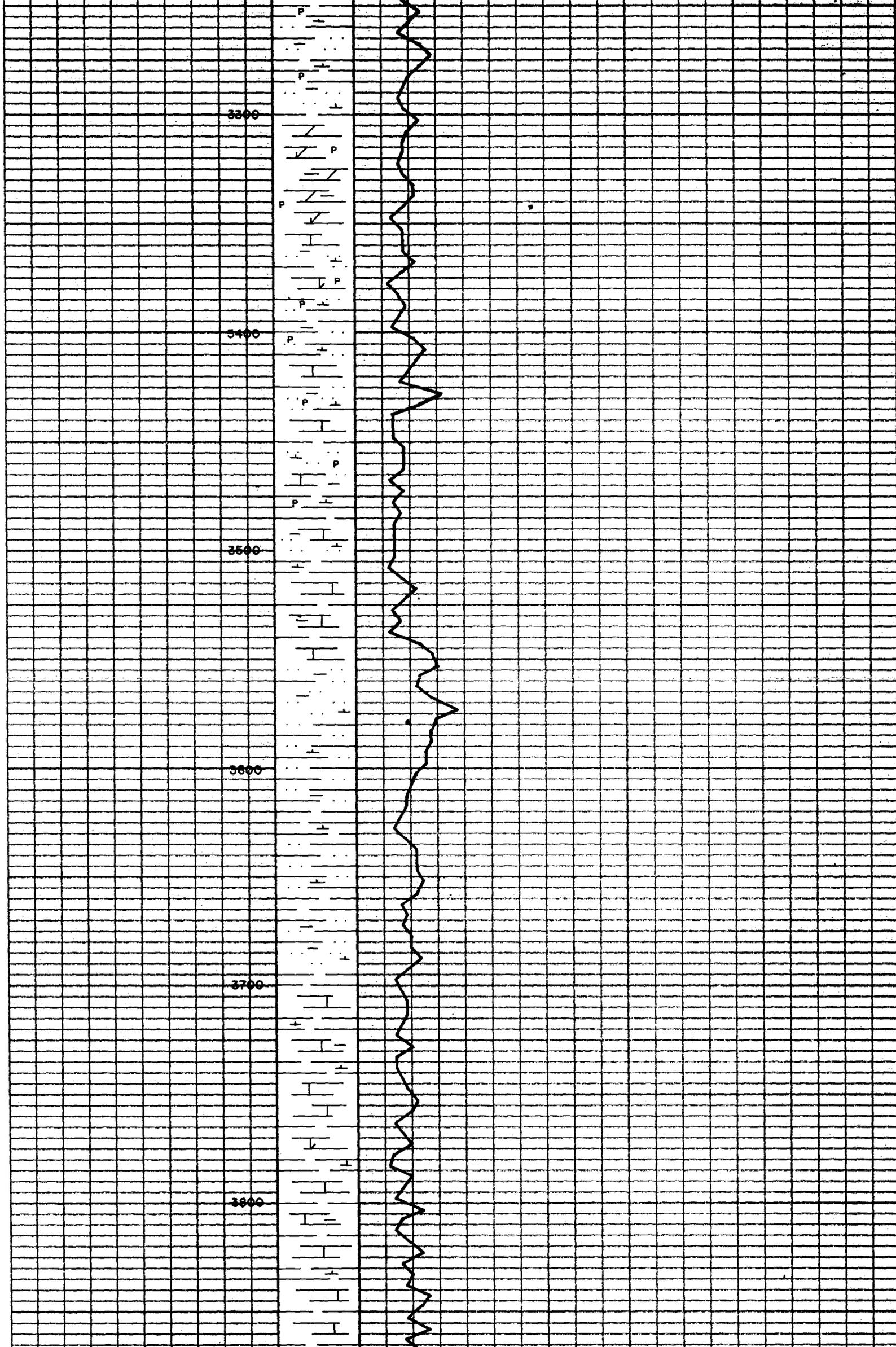
RECORDING SHEET GRAPHIC SCALE

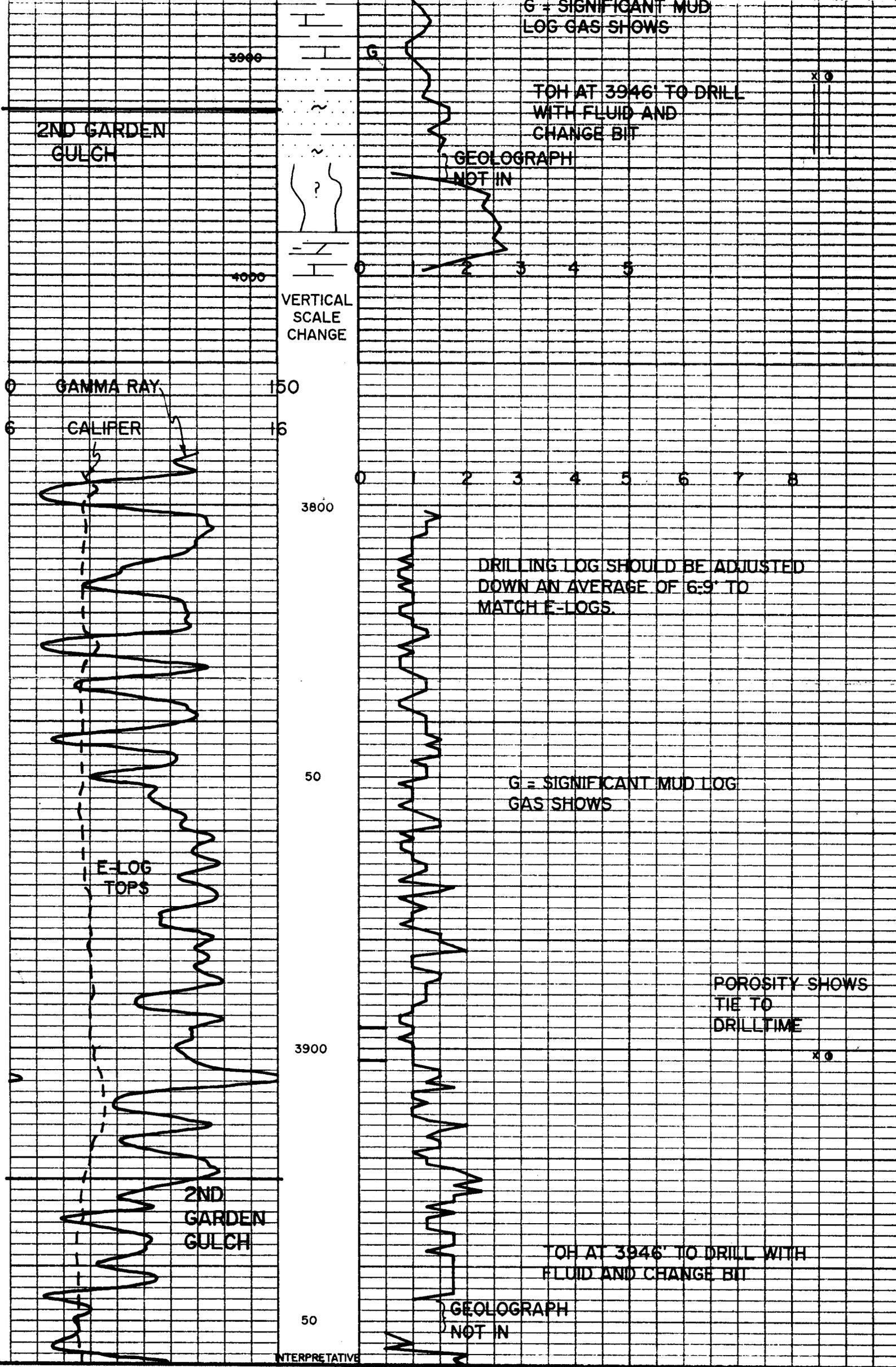






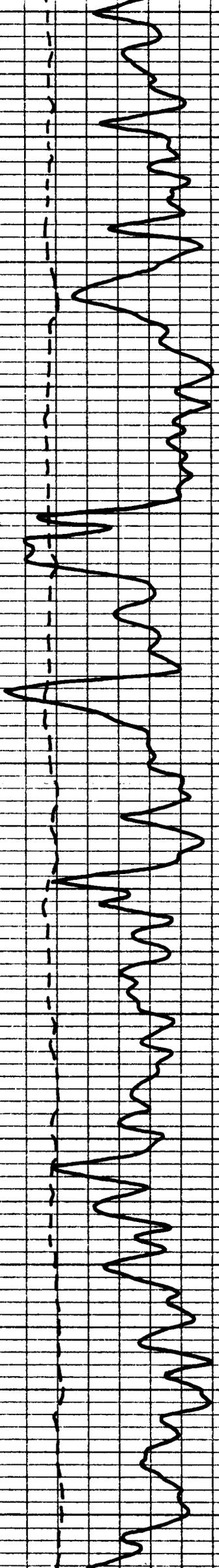
GEOLOGRAPH NOT IN





LITHOLOGIC &  
SAMPLE  
DESCRIPTIONS  
BASED ON  
SAMPLES  
CAUGHT &  
LOGGED BY MUD  
LOGGERS.  
GENERALLY  
TIE WELL TO  
DRILL TIME  
LOG.  
SEE REPORT  
FOR DETAILED  
DESCRIPTION  
OF SAMPLES.  
POROSITY &  
SHOWS

NOTE: MUD LOG UNIT MAY NOT  
HAVE OPERATED AT OPTIMUM  
EFFICIENCY FROM 3946' - 4692'  
REPLACED FLOW LINE WATER  
TRAP AT 4692'. GOT IMPROVED  
READINGS.



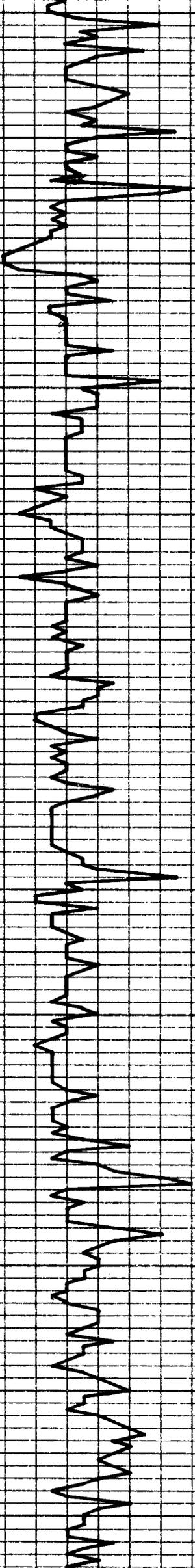
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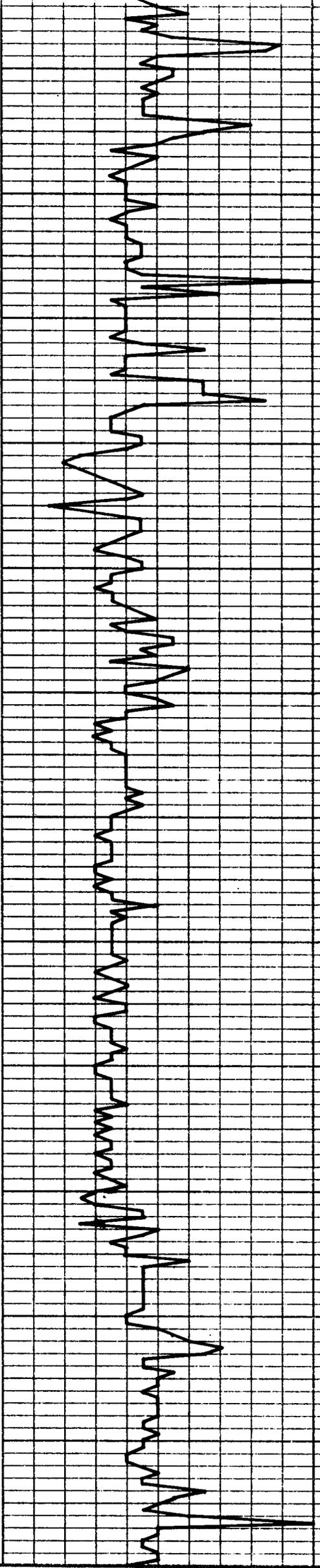
4100

50

4200



x  
o  
+  
+



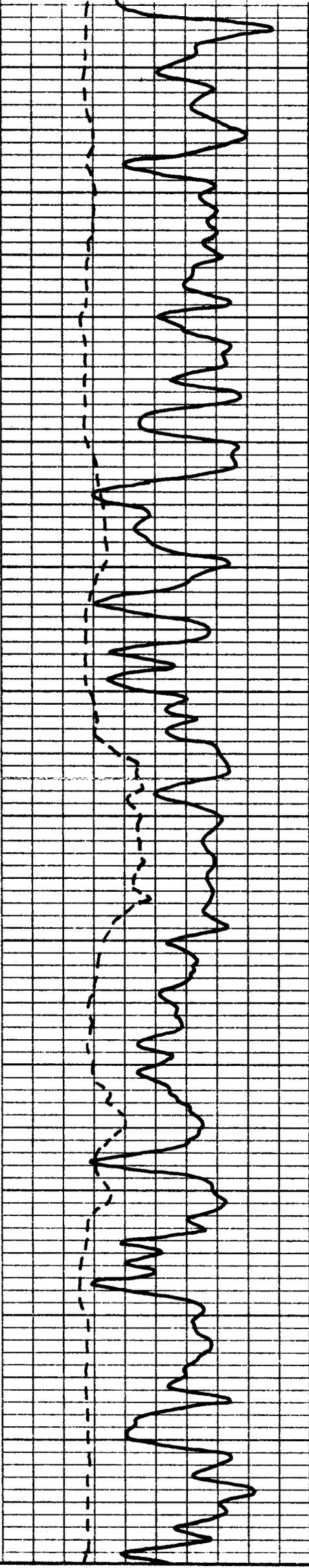
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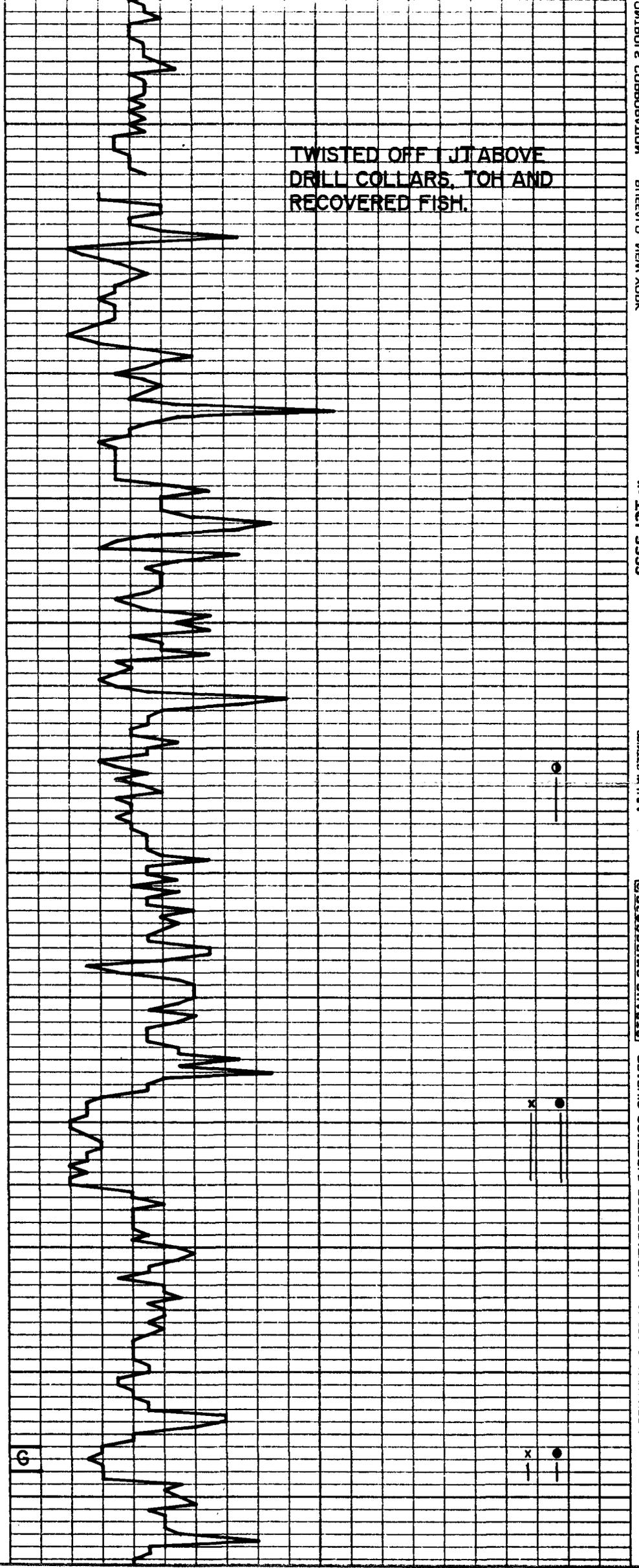
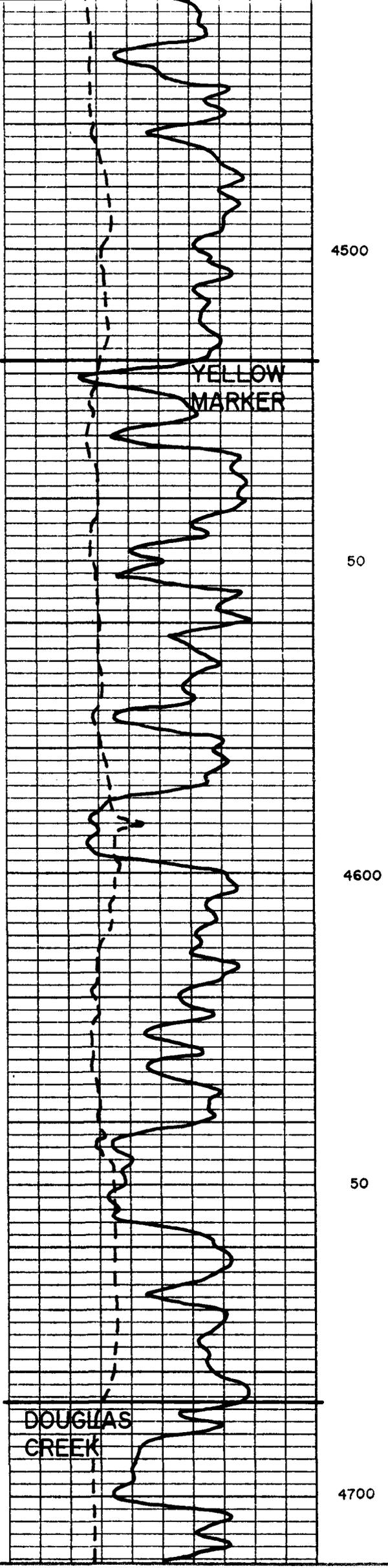
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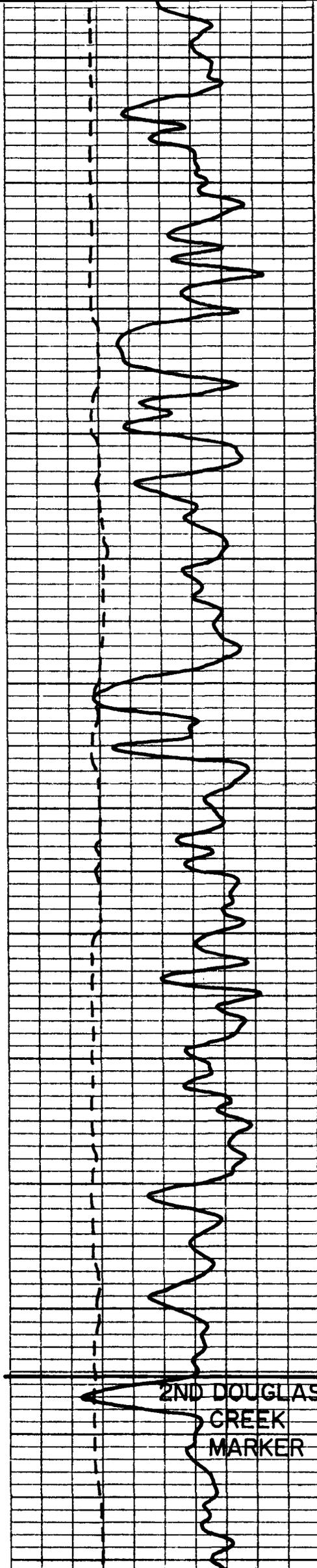
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4400

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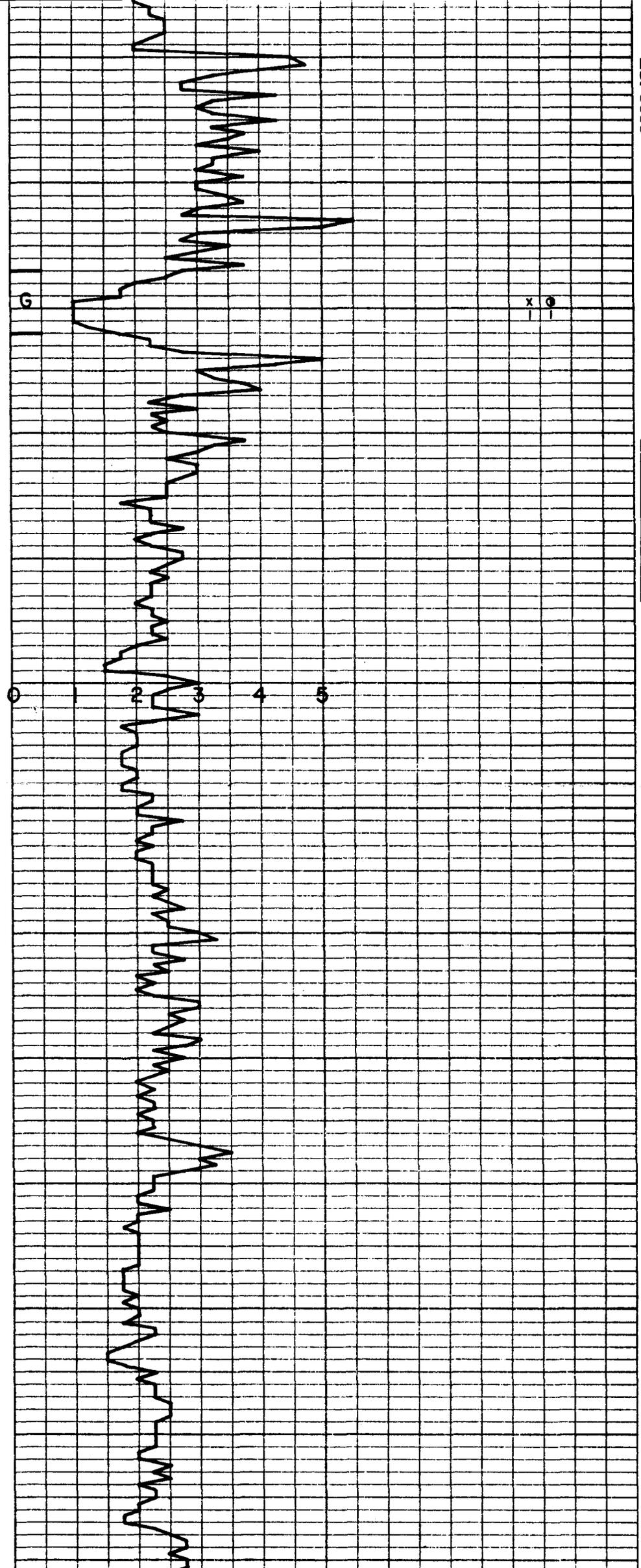
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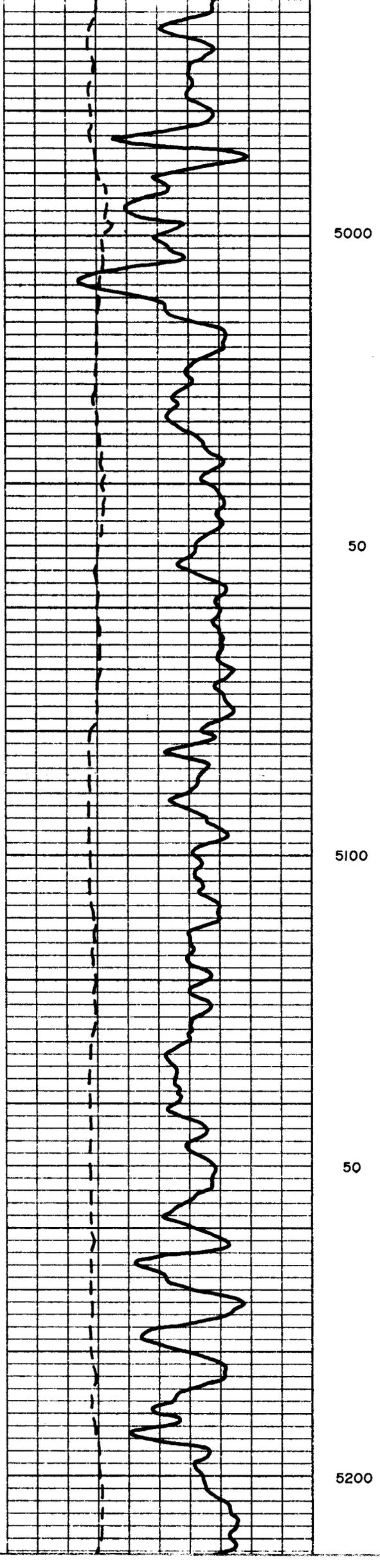
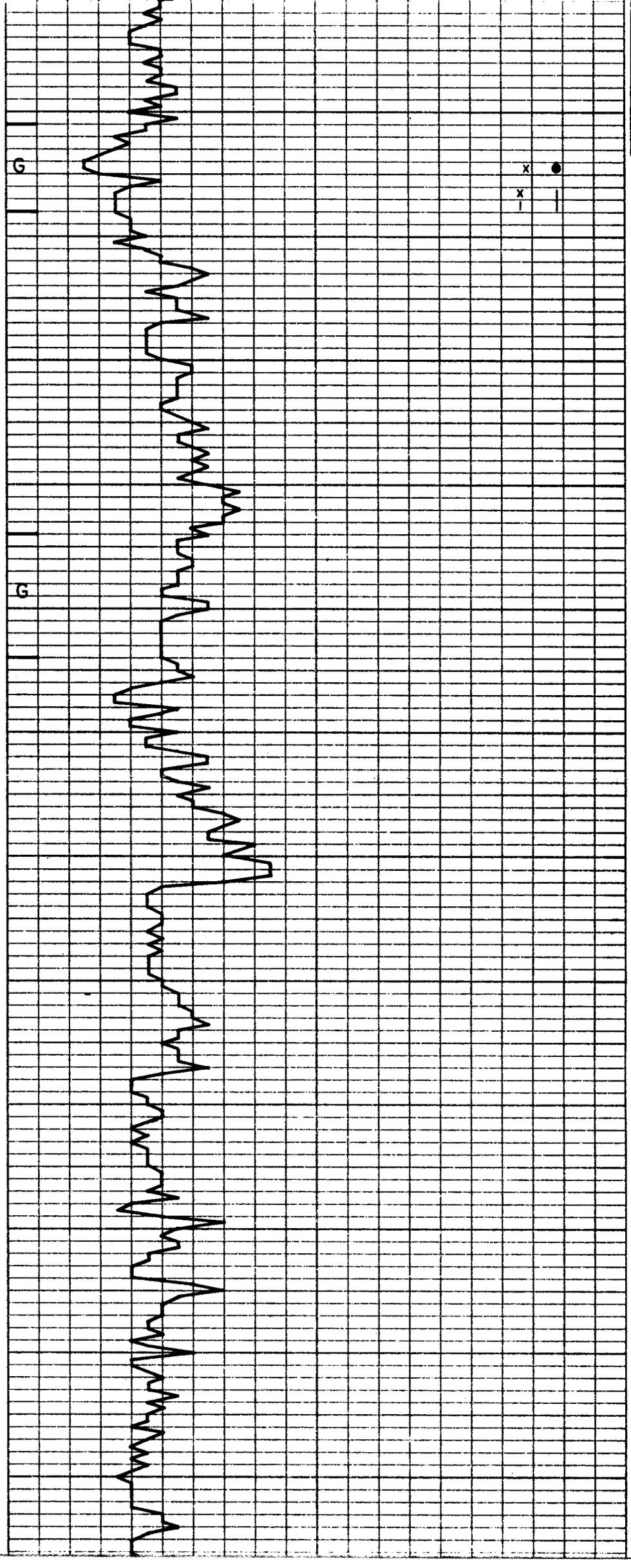
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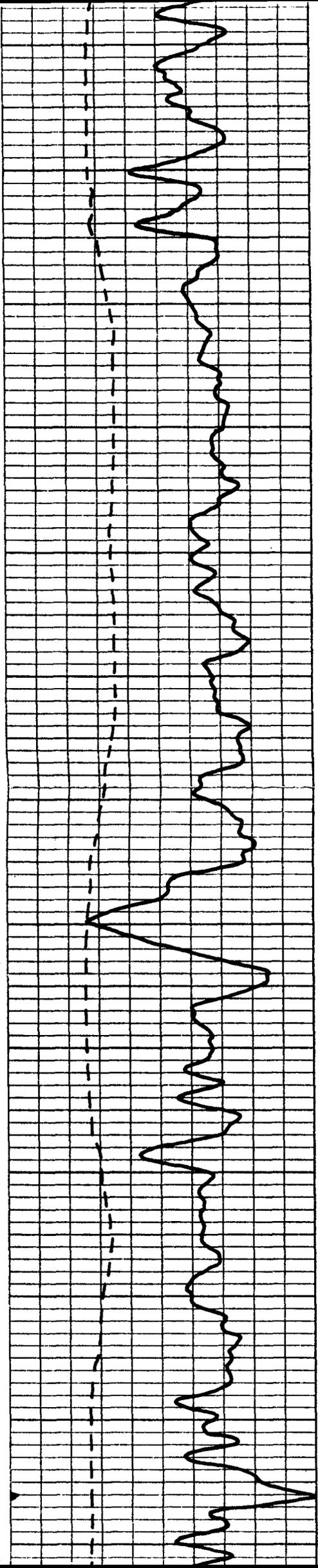
4900

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x ●  
x |  
I |





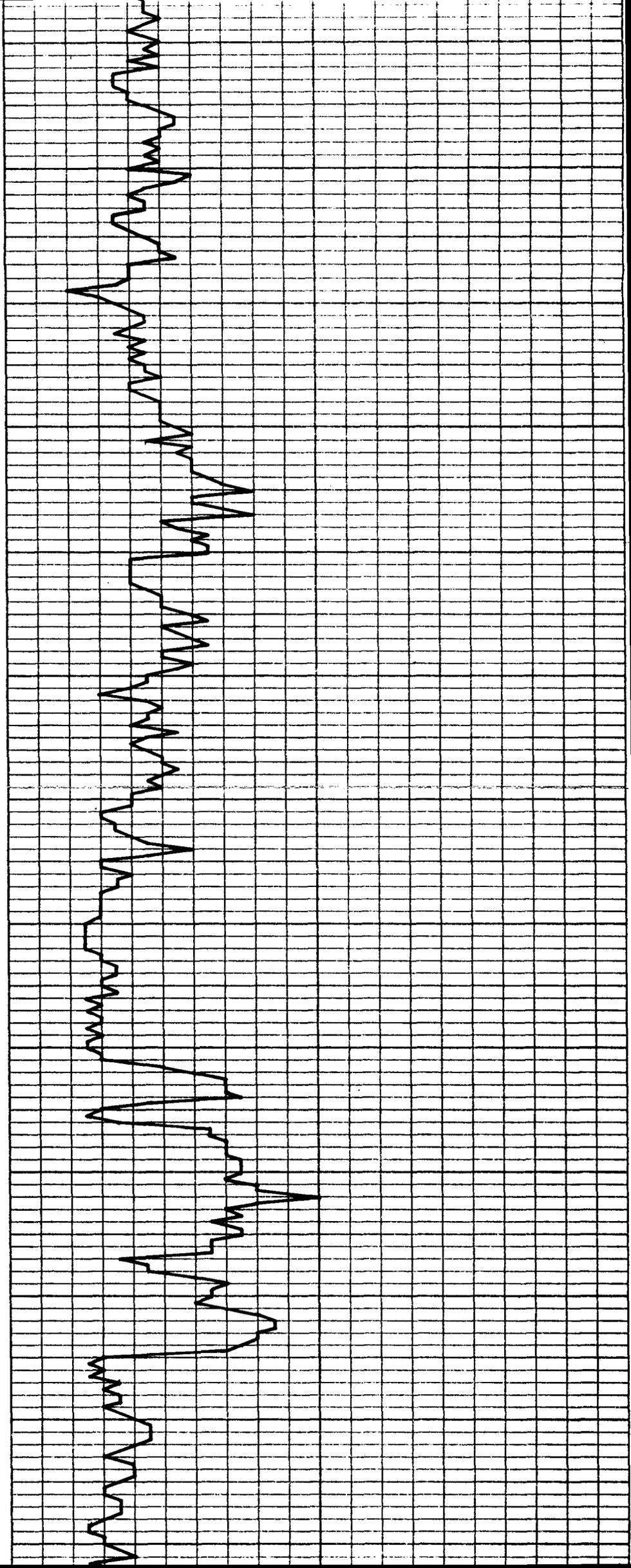
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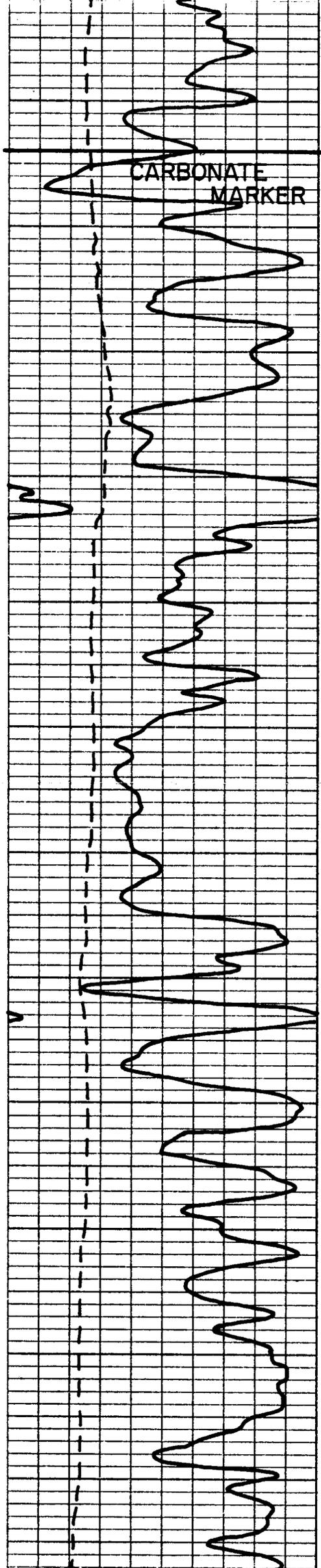
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5400

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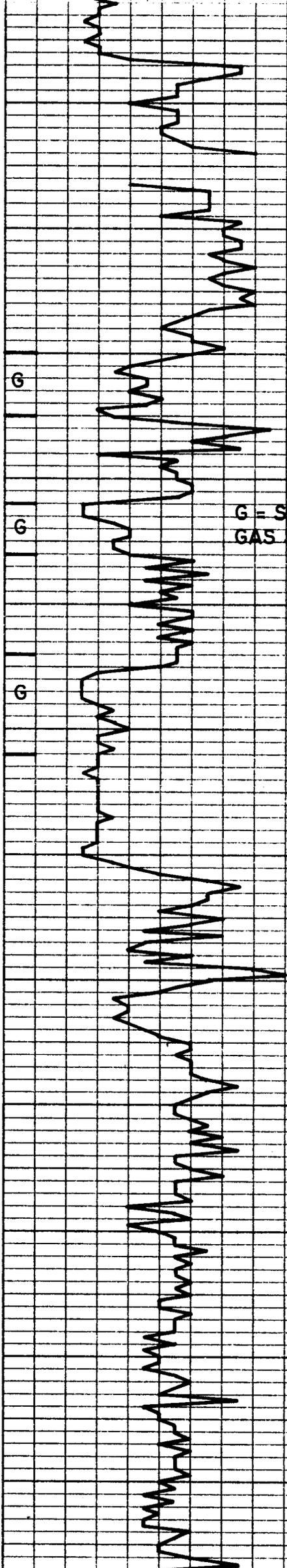
5500

50

5600

50

5700



TOH AT 5488'  
FOR HOLE IN  
DP

G = SIGNIFICANT MUD LOG  
GAS SHOW

x ●  
| |

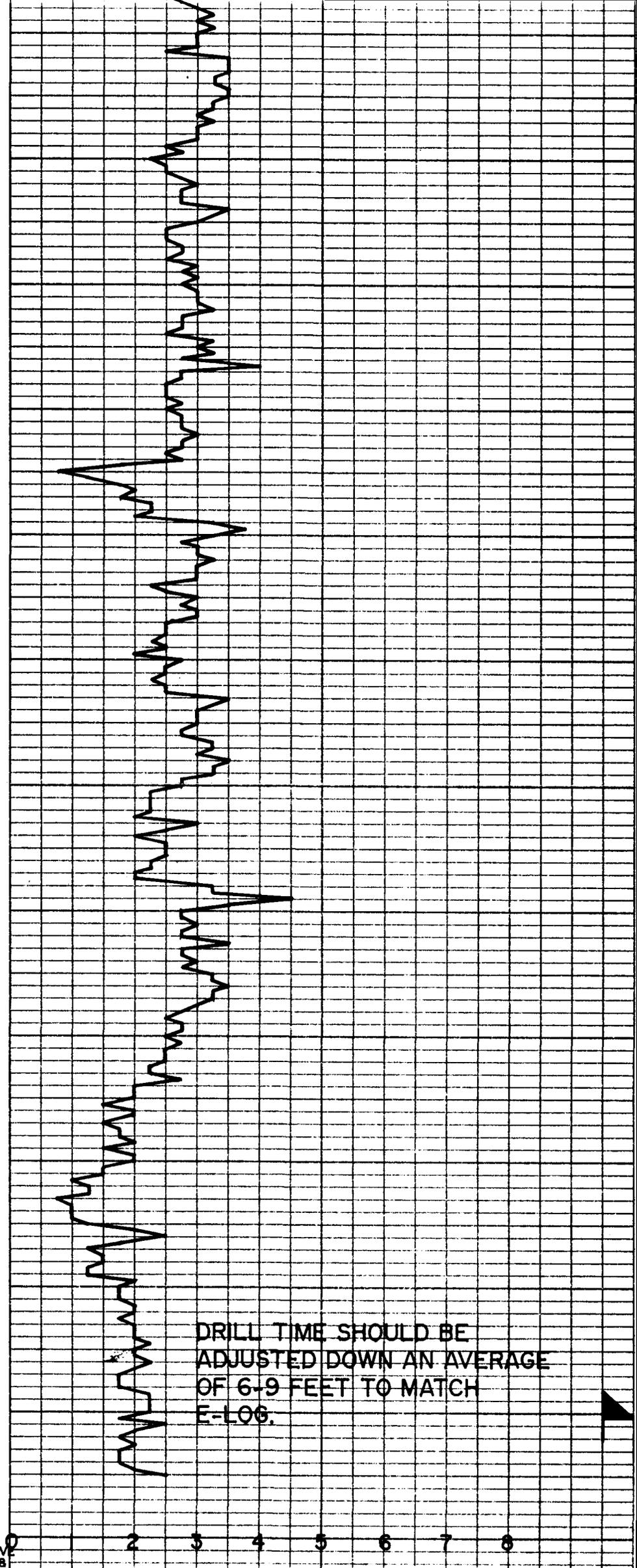
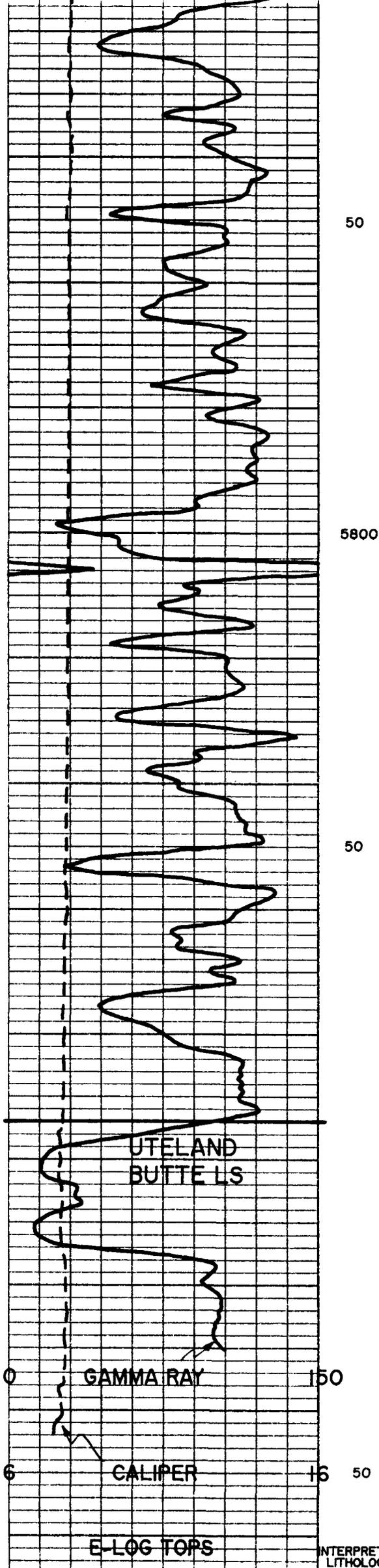
●  
|

x ●  
| |

| |

| |

x ●  
| |



SAMPLE  
DESCRIPTIONS  
BASED ON  
SAMPLES  
CAUGHT &  
LAGGED BY MUD  
LOGGERS,  
GENERALLY  
TIE WELL TO  
DRILL TIME  
LOG.  
SEE REPORT  
FOR DETAILED  
DESCRIPTION  
OF SAMPLES,  
POROSITY &  
SHOWS

6000

TOTAL DEPTH DRILLER - 5950'  
TOTAL DEPTH LOGGER - 5960'



**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

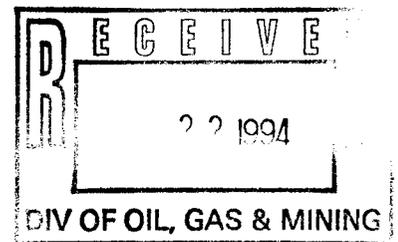
November 21, 1994

-- VIA FEDERAL EXPRESS --

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

Gentlemen:

RE: Balcron Federal #31-5Y  
NW NE Section 5, T9S, R18E  
Uintah County, Utah



Enclosed is a sundry notice requesting approval of the attached proposed offsite production facility and proposed flowline and tank battery installation. Also attached is the proposed onsite production facility diagram and proposed pipeline diagram. An onsite inspection and discussion of these plans was held with Stan Olmstead of your office on November 16, 1994.

Since we are delaying production of this well until we have approval to proceed as requested, your timely approval of this sundry notice is requested.

If you have any questions, please do not hesitate to give me a call at (406) 259-7860. Thank you for your assistance in this matter.

Sincerely,

*Bobbie Schuman*

Bobbie Schuman  
Regulatory and Environmental Specialist

/hs

Attachment

cc: Utah Division of Oil, Gas and Mining  
Dale Griffin

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

3. Lease Designation and Serial No.

U-65970

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 #31-5Y

9. API Well No.

43-047-32503

10. Field and Pool, or Exploratory Area

8 Mile Flat North/Green River

11. County or Parish, State

Uintah County, Utah

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)

NW NE Section 5, T9S, R18E  
660' FNL, 1980' FEL

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

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

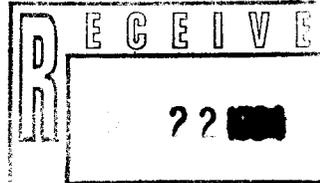
(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

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.)\*

Operator proposes to set the surface production pipeline as shown on the attached diagram. The line will follow natural contour when leaving the wellhead and will follow the existing road as much as possible. The tank battery for this well will be placed on an old existing wellpad in the SW NE Section 5, T9S, R18E. This will be a 2-1/2" steel line with 1" steel trace line. The line will be laid on the surface and bundle wrapped for insulation.

Attached to this sundry notice is the proposed offsite production facility diagram, proposed flowline and tank battery installation, proposed onsite production facility diagram, and proposed pipeline diagram.

An onsite inspection of this proposed pipeline route and off-site proposed production facility was made with Stan Olmstead of the Vernal Bureau of Land Management 11/16/94.



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

Signed Debbie Schuman

Title Regulatory and Environmental Specialist

Date November 21, 1994

(This space for Federal or State office use)

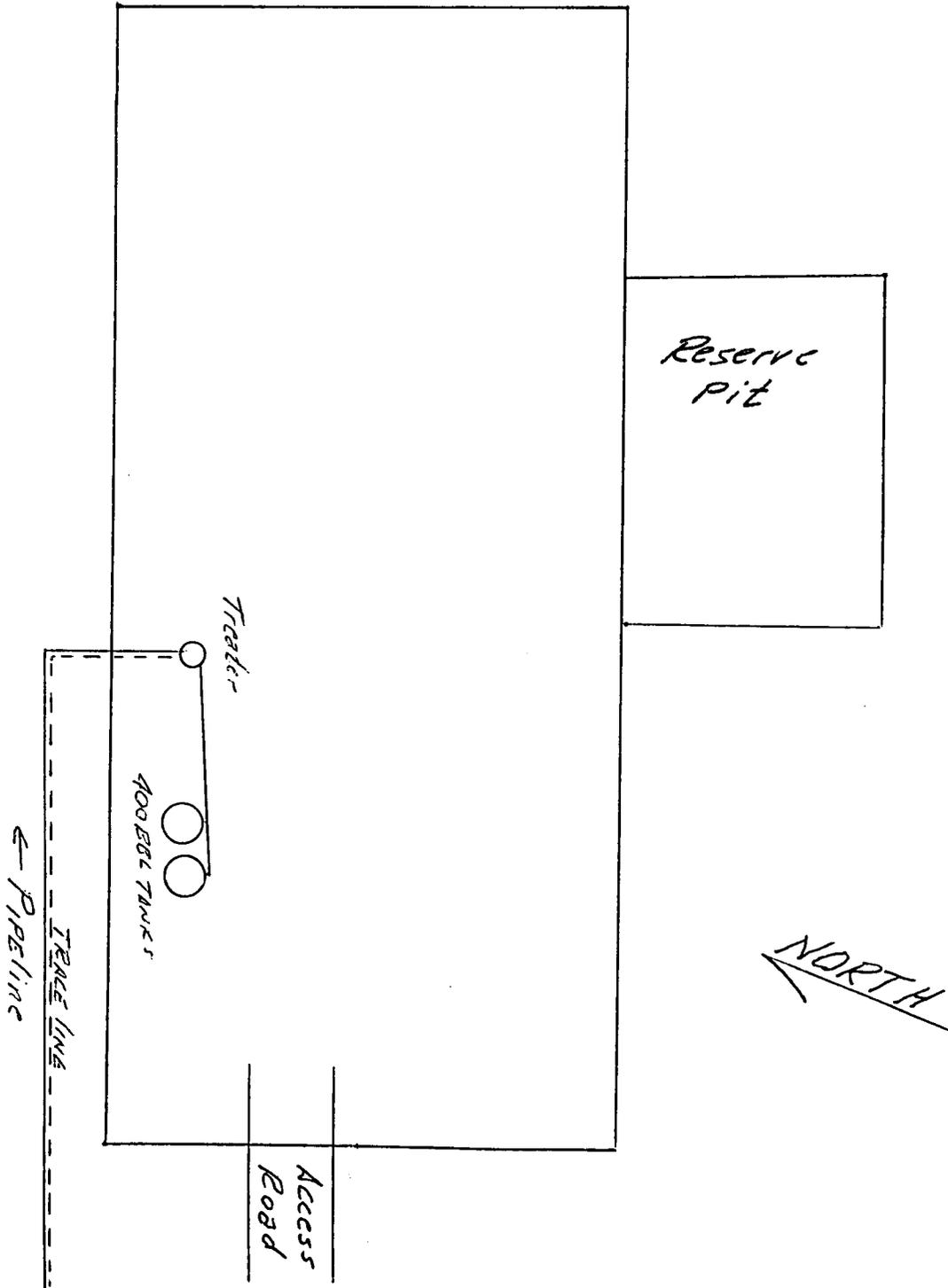
Approved by \_\_\_\_\_  
Conditions of approval, if any:

Title \_\_\_\_\_

Date \_\_\_\_\_

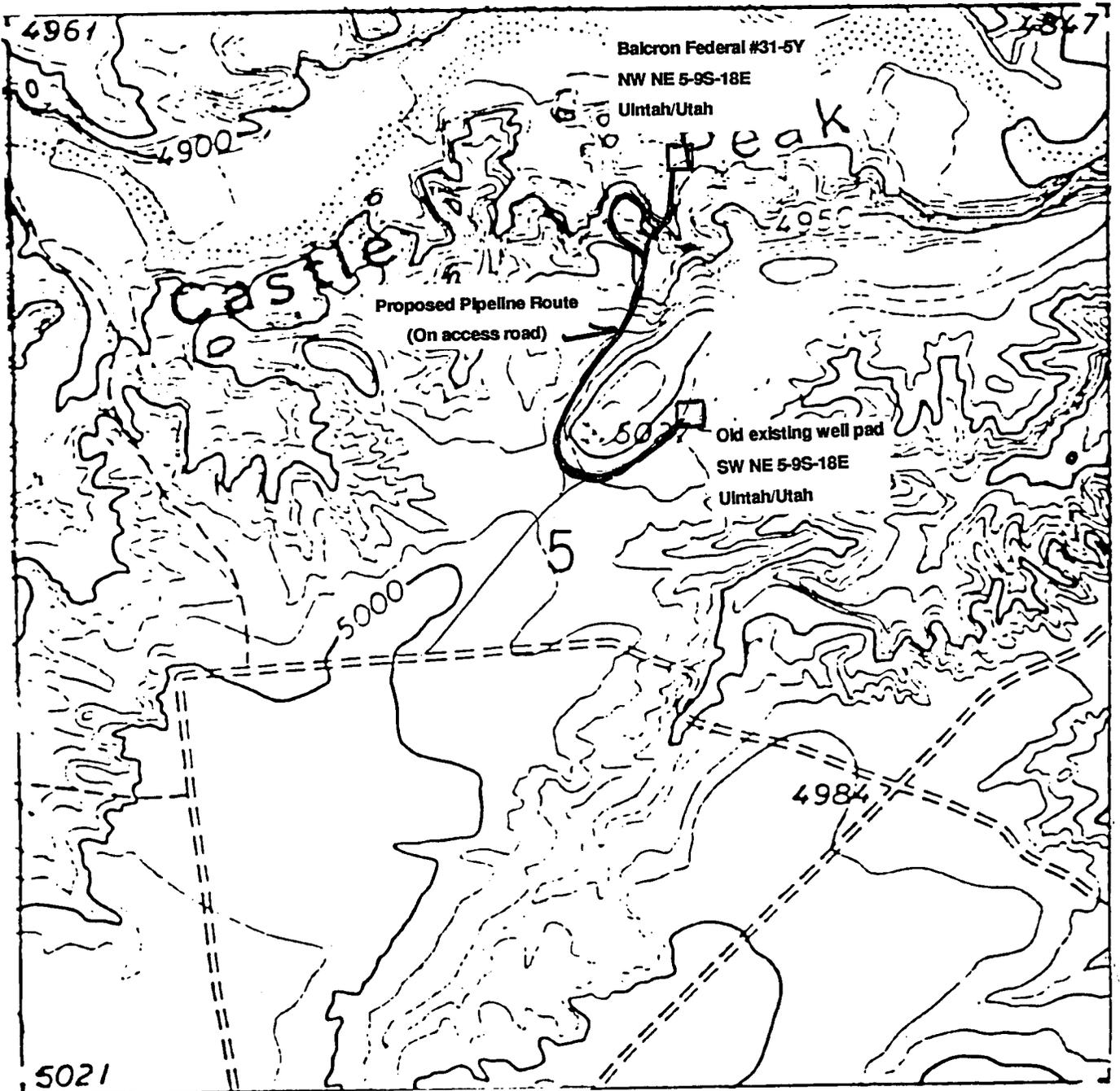
Balcron Oil  
Balcron Federal # 31-5Y  
SW NE Sec.5 Twn.9S Rge.18E  
Uintah County, Utah

Proposed Production Facility  
(Off-Site)



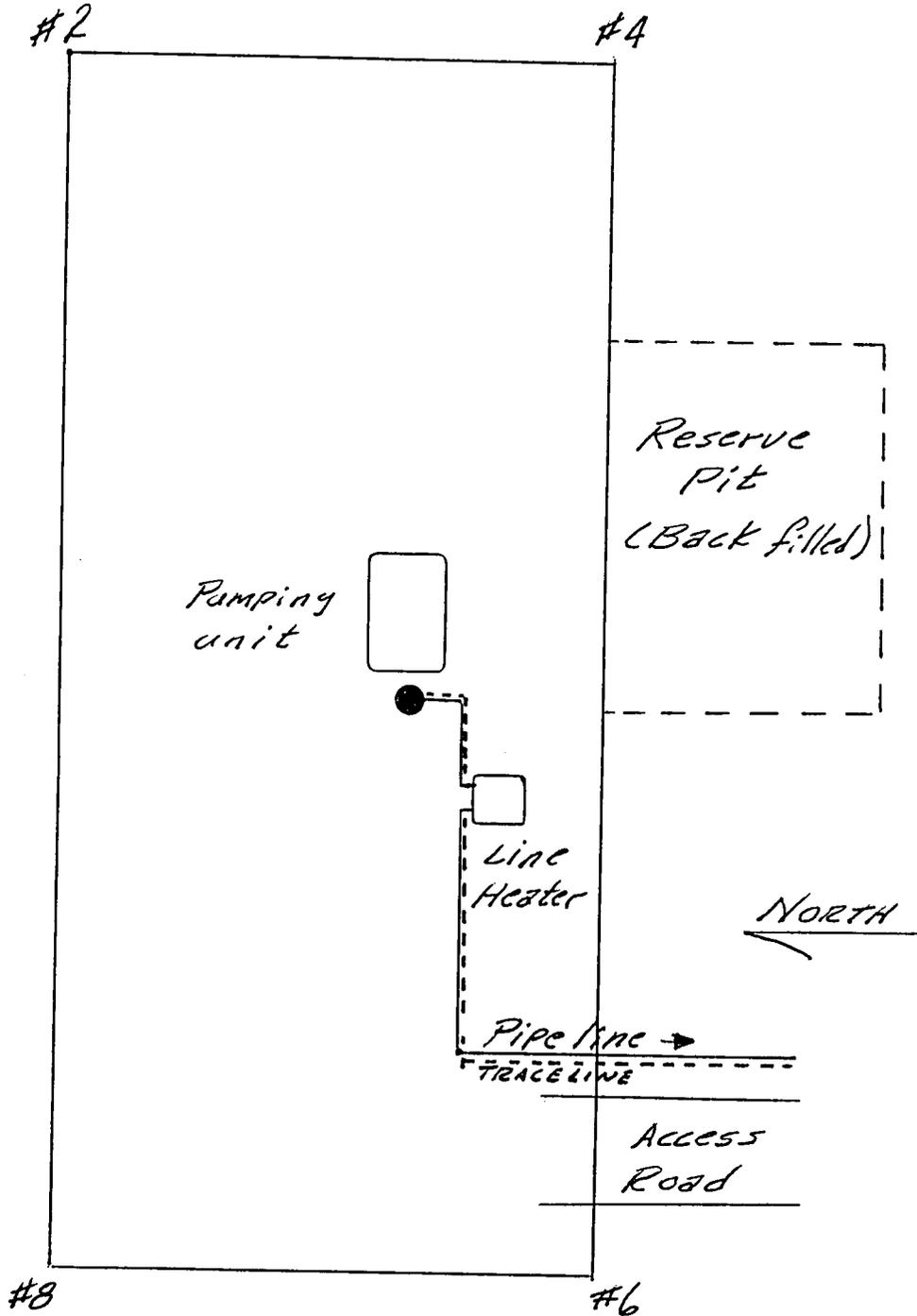
Balcron Oil  
Balcron Federal #31-5Y  
NW NE Sec.5 Twn.9S Rge.18E  
Uintah County, Utah

Proposed Flowline and Tank Battery Installation



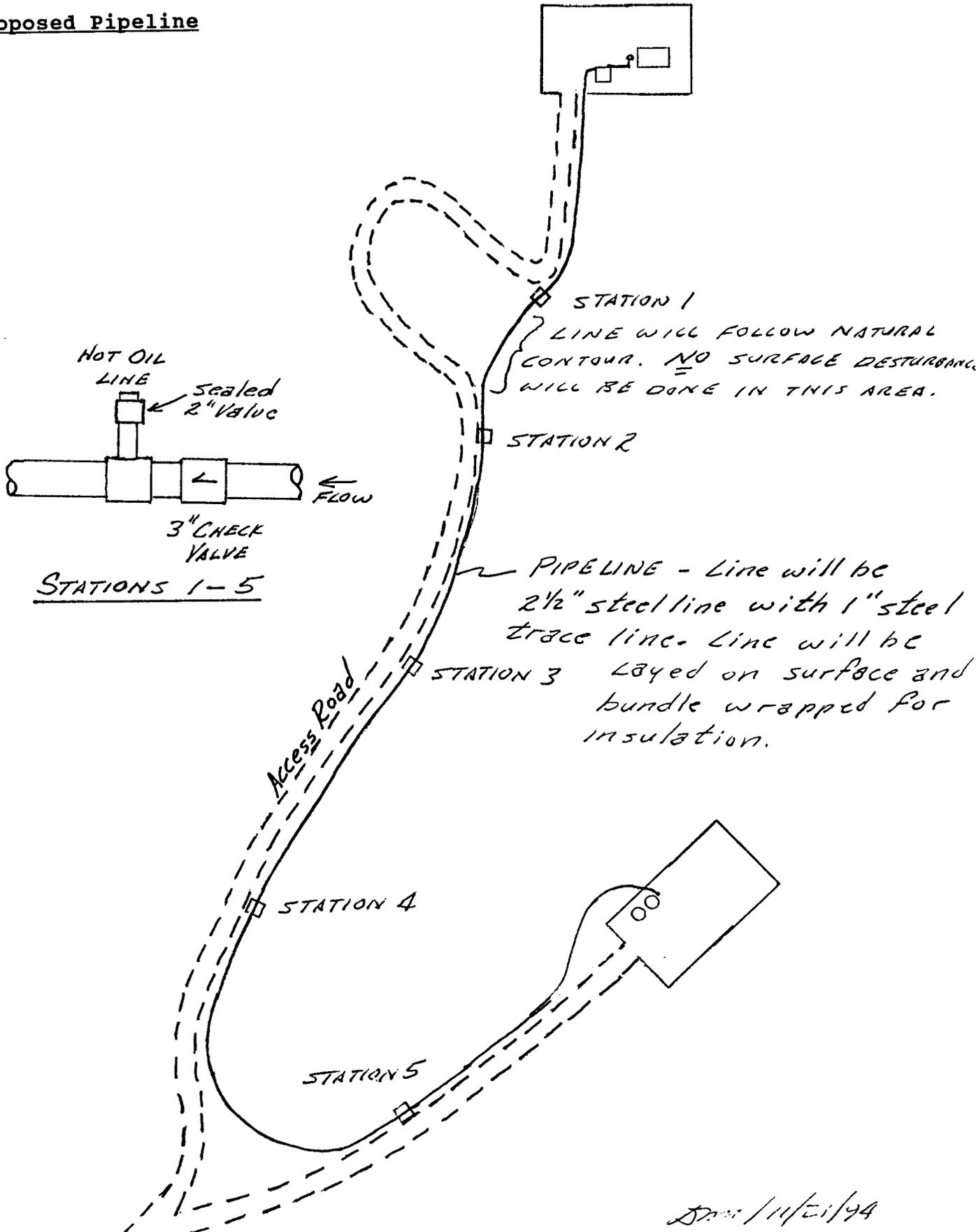
Balcron Oil  
Balcron Federal # 31-5Y  
NW NE Sec.5 Twn.9S Rge.18E  
Uintah County, Utah

Proposed Production Facility  
(On-Site)



Balcron Oil  
Balcron Federal # 31-5Y  
Sec.5 Twn.9S Rge.18E  
Uintah County, Utah

Proposed Pipeline



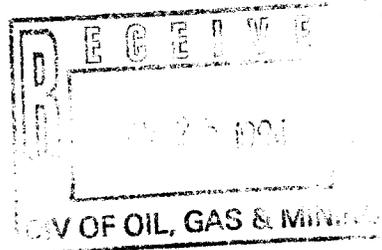
Don / 11/21/94



**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

November 22, 1994

-- VIA FAX and FEDERAL EXPRESS --

Mr. Stan Olmstead  
Bureau of Land Management  
170 South 500 East  
Vernal, UT 84078

Dear Stan:

RE: Balcron Federal #31-5Y  
NW NE Section 5, T9S, R18E  
Uintah County, Utah

The proposed offsite production facility and proposed flowline and tank battery for the referenced well will be installed offsite in the SW NE Section 5, T9S, R18E on an existing wellpad. A sundry notice was provided November 21 by FAX and Federal Expressed the same day.

Equitable Resources Energy Company, Balcron Oil Division will be responsible for the reclamation of the existing wellpad at that location. It is possible that this site will be chosen as a site for drilling a well and will be utilized for that purpose. However, at this time only that portion of the wellpad needed for the production facilities will be utilized.

I appreciate your assistance in working on a timely approval of this sundry notice.

If you have any questions, please do not hesitate to give me a call at (406) 259-7860.

Sincerely,

*Bobbie Schuman 43 649-32503*

Bobbie Schuman  
Regulatory and Environmental Specialist

/hs

Attachment

cc: Utah Division of Oil, Gas and Mining  
Dale Griffin

**CONFIDENTIAL**

**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)

SURFACE: NW NE Section 5, T9S, R18E  
 TD: 660' FNL, 1980' FEL

5. Lease Designation and Serial No.  
 U-65970

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 #31-5Y

9. API Well No.  
 43-047-32503

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

11. County or Parish, State  
 Uintah County, Utah

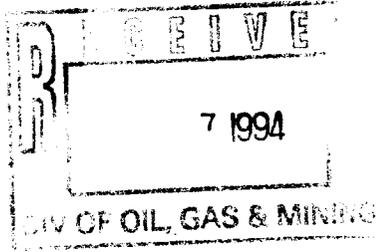
12. CHECK APPROPRIATE BOX(S) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

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
	Report of first production
	<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.)\*

First production on this well was on 12-21-94 at 9:30 a.m.



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

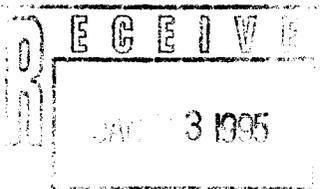
Signed Bobbie Schuman Title Regulatory and Environmental Specialist Date 12-22-94

(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



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, GAS & OIL  
 Use "APPLICATION FOR PERMIT --" for such proposals

5. Lease Designation and Serial No.

U-65970

6. If Indian, Allottee or Tribe Name

n/a

7. If Unit or CA, Agreement Designation

n/a

8. Well Name and No.

Balcon Federal #31-5Y

9. API Well No.

43-047-32503

10. Field and Pool, or Exploratory Area

8 Mile Flat North/Green River

11. County or Parish, State

Uintah County, Utah

**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)

SURFACE: NW NE Section 5, T9S, R18E  
 TD: 660' FNL, 1980' FEL

**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 type="checkbox"/> Change of Plans
<input checked="" type="checkbox"/> Subsequent Report	<input type="checkbox"/> Recompletion	<input type="checkbox"/> New Construction
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Plugging Back	<input type="checkbox"/> Non-Routine Fracturing
	<input type="checkbox"/> Casing Repair	<input type="checkbox"/> Water Shut-Off
	<input type="checkbox"/> Altering Casing	<input type="checkbox"/> Conversion to Injection
	<input checked="" type="checkbox"/> Other Site Security Diagram	<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

*Molly Ahmad*

Title

Operations Secretary

Date

1-19-95

(This space for Federal or State Office use)

Approved by

Conditions of approval, if any:

Title

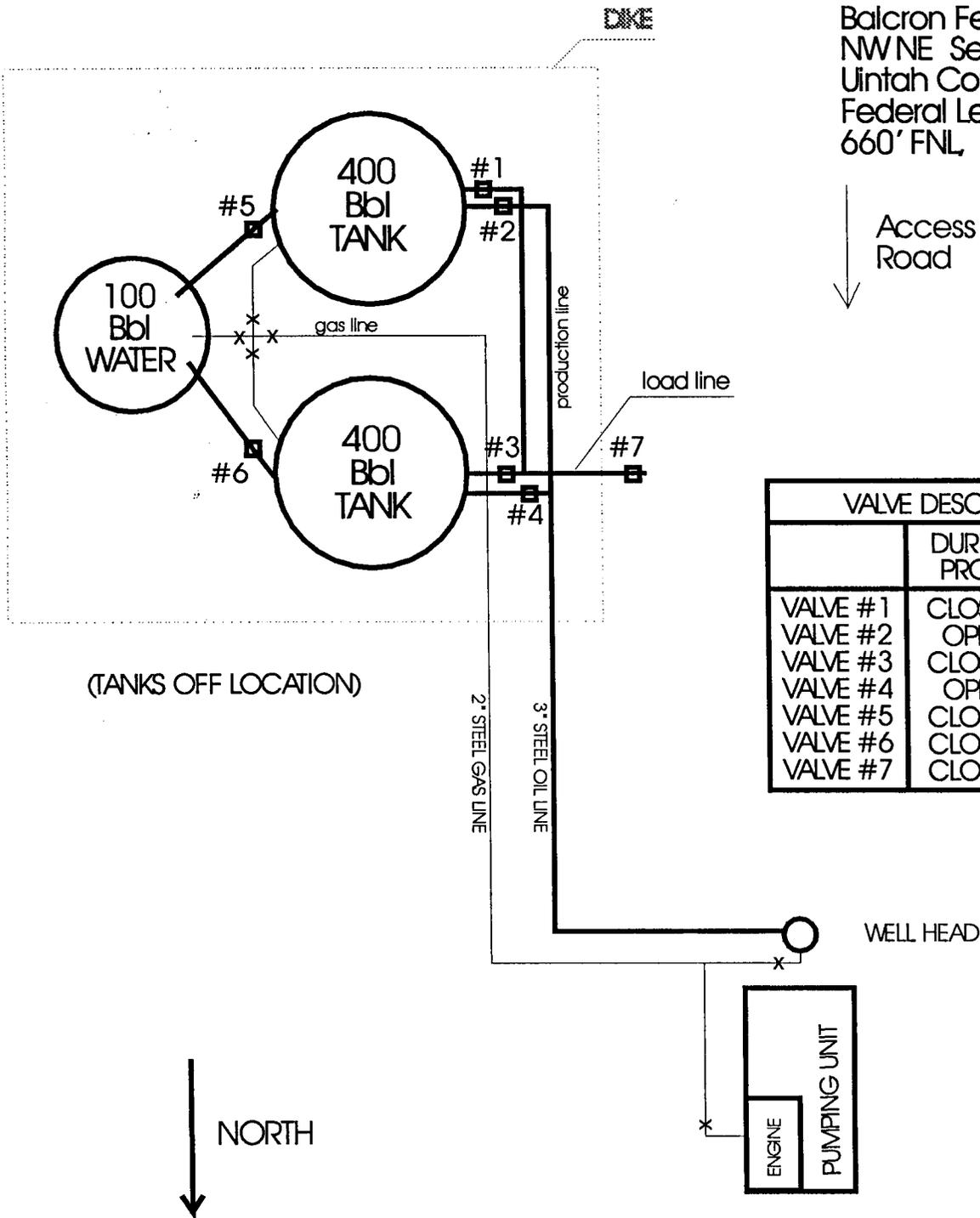
Date

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\*See Instruction on Reverse Side

Equitable Resources Energy Company  
 Balcron Federal 31-5Y  
 Production Facility Diagram

Balcron Federal 31-5Y  
 NWNE Sec. 5, T9S, R18E  
 Uintah County, Utah  
 Federal Lease #U-65970  
 660' FNL, 1980' FEL



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

(TANKS OFF LOCATION)

DIAGRAM NOT TO SCALE

PLAN LOCATED AT:



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

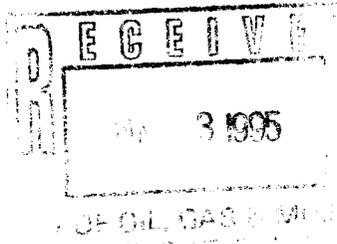
**DAILY OPERATING REPORT**

**BALCRON FEDERAL #31-5Y**

Location: NW NE Section 5, T9E, R18E  
 Uintah County, Utah

---TIGHT HOLE---

- 11-4-94 Completion  
 RU Western & frac 4763'-70' w/45,620# 16/30 mesh sand w/13,986 gals of 2% KCL gelled wtr. Max press 3650#, min press 2440#, ATP 2800# @ 30 bpm. ISDP 2050#. Forced closure flow back 30 min. Fluid left to recover from BD & frac #1 = 452 bbls. Fluid used on break down #2 = 77 bbls. Fluid used on frac #2 = 372 bbls. Fluid used on break down #3 = 51 bbls. Fluid used on frac #3 = 333 bbls.  
 DC: \$26,700 CC: \$325,245
- 11-5-94 Completion  
 CP 615 psi, bleed well off. TIH w/retrieving tool, 2-3/8" x 4' sub, HD packer, 2-7/8" x 2-7/8" XOver, 2-7/8" SN, & 146 jts 2-7/8" tbg. Tag sand @ 4731' KB. Circ down to BP @ 4876' KB. Pull up & set packer @ 4731' KB. Made 11 swab runs, recovered 135 bbls of fluid. Trace of oil, 58 BW, good gas, no sand last 5 runs. Fluid level stable last run. SWIFN.  
 DC: \$1,859 CC: \$327,104
- 11-7-94 Completion  
 CP - 0#, tbg on vacuum. Fluid level @ 350'. Made 11 swab runs, recovered 58 bbls of fluid. Trace oil, 58 BW, good gas, no sand. Fluid level @ 2000' last run. Release packer, tag sand @ 4790' KB, circ down to BP @ 4876' KB. Release BP, TOOH w/tbg & tools. Run production string as follows
- |                              | LENGTH   | DEPTH KB |
|------------------------------|----------|----------|
| 1 jt 2-7/8", J-55, 6.5#      | 31.74'   | 5682.03' |
| 1 Perf Sub 2-7/8" x 3'       | 3.20'    | 5650.29' |
| 1 SN 2-7/8" x 1.10'          | 1.10'    | 5647.09' |
| 29 jts 2-7/8" J-55, 6.5#     | 915.12'  | 5645.99' |
| 1 Tbg Anchor 2-7/8" x 5-1/2" | 2.35'    | 4730.87' |
| 150 jts 2-7/8" J-55, 6.5#    | 4718.52' | 4728.52' |
|                              | 10.0'    |          |
- KB  
 ND BOP, set tbg anchor w/21" tension, NU well h. TIH w/rod  
 production string as follows:  
 1 BHP 2-1/2"x1-1/2"x16' RWAC w/pa plunger (Trico #1)  
 224 - 3/4" x 25' Plain Super rods.  
 1 3/4" x 8' Pony  
 1 - 1-1/4" x 22' Polish Rod SM  
 Check pump action (good), clamp rods off. SWI, RDMQ.  
 DC: \$20,053 CC: \$347,157
- 11-8-94 WO Surface Equipment.
- 12-21-94 Started well pumping at 9:30 a.m. 7 SPM, 74" stroke.  
 DC: \$51,336 CC: \$398,493



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

5. Lease Designation and Serial No.  
U-65970

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 #31-5Y

9. API Well No.  
43-047-32503

10. Field and Pool, or Exploratory Area  
8 Mile Flat North/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)  
 SURFACE: NW NE Section 5, T9S, R18E  
 TD: 660' FNL & 1980' FEL

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

TYPE OF SUBMISSION	TYPE OF ACTION
<input checked="" type="checkbox"/> Notice of Intent	<input type="checkbox"/> Abandonment
<input checked="" type="checkbox"/> Subsequent Report	<input type="checkbox"/> Recompletion
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Plugging Back
	<input type="checkbox"/> Casing Repair
	<input type="checkbox"/> Altering Casing
	<input checked="" type="checkbox"/> Other <u>Onshore Order #7</u>
	<input type="checkbox"/> Change of Plans
	<input type="checkbox"/> New Construction
	<input type="checkbox"/> Non-Routine Fracturing
	<input type="checkbox"/> Water Shut-Off
	<input type="checkbox"/> Conversion to Injection
	<input type="checkbox"/> Dispose Water

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

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

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

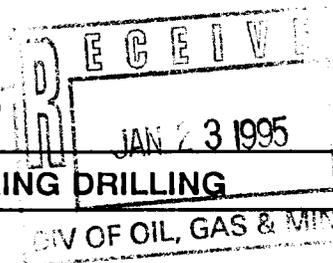
14. I hereby certify that the foregoing is true and correct

Signed Molly Conrad Title Operations Secretary Date 1-19-95  
 (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 # 31-5Y

API number: 43-047-32503

2. Well Location: QQ NW NE Section 5 Township 9S Range 18E County Uintah

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

Address: P.O. Box 21017

Billings MT 59104

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		
		No measurable water encountered	
		during drilling operations.	

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: 1-20-95

Name & Signature: Molly Conrad, Molly Conrad Title: Operations Secretary

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

**RECEIVED**

(See other instructions on reverse side)  
**JAN 23 1995**

**CONFIDENTIAL**

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  **DIV OF OIL, GAS & MINING**

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

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

3. ADDRESS OF OPERATOR  
P.O. Box 21017, Billings, MT 59104 (406) 259-7860

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements)\*  
At surface 660' FNL & 1980' FEL  
At top prod. interval reported below  
At total depth

14. PERMIT NO. 43-047-32503 DATE ISSUED 6-14-94

15. DATE SPUNDED 9-30-94 16. DATE T.D. REACHED 10-18-94 17. DATE COMPL. (Ready to prod.) 12-21-94 18. ELEVATIONS (DF, RKB, RT, OR, ETC.)\* 4867.1' GL 19. ELEV. CASINGHEAD n/a

20. TOTAL DEPTH, MD & TVD 5950' 21. PLUG BACK T.D., MD & TVD 5897.05' 22. IF MULTIPLE COMPL., HOW MANY\* n/a 23. INTERVALS DRILLED BY n/a 24. PRODUCING INTERVAL(S), OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD)\* 4993' - 5610' Green River 25. WAS DIRECTIONAL SURVEY MADE No

26. TYPE ELECTRIC AND OTHER LOGS RUN  
MULTI LOG (PBE) 10-19-94, 11-8-94, 11-28-94  
DUAL LATERAL LOG, SPECTRAL DENSITY DUAL SPACED NEUTRON

27. WAS WELL CORED No

CASING RECORD (Report all strings set in well)

CASINO SIZE	WEIGHT, LB./FT.	DEPTH SET (MD)	HOLE SIZE	CEMENTING RECORD	AMOUNT PULLED
8-5/8"	24#	268' KB	12-1/4"	160 sxs "G" w/additives	None
5-1/2"	15.5#	5941.48' KB	7-7/8"	183 sxs Super "G" w/additives 3/4 sxs 50-50 POZ w/additives	None

29. LINER RECORD					30. TUBING RECORD		
SIZE	TOP (MD)	BOTTOM (MD)	SACKS CEMENT*	SCREEN (MD)	SIZE	DEPTH SET (MD)	PACKER SET (MD)
n/a					2-7/8"	5682.03' KB	n/a

31. PERFORATION RECORD (Interval, size and number)		32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.	
INTERVAL	SIZE	DEPTH INTERVAL (MD)	AMOUNT AND KIND OF MATERIAL USED
5582' - 5610'	(2 SPF)	5582' - 5610'	4116 gals 2% KCL wtr. Frac w/55,600#
4993' - 4997'	(2 SPF)		20/40 sand w/22,955 gals 2% KCL gelled wtr.
5005' - 5010'	(2 SPF)	4993' - 5010'	3234 gals 2% KCL wtr. Frac w/50,240#

33.\* PRODUCTION 16/30 sand w/10,626 gals 2% KCL gelled wtr.

DATE FIRST PRODUCTION 12-21-94 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 1-8-95 HOURS TESTED 24 CHOKER SIZE n/a PROD'N. FOR TEST PERIOD → OIL—BBL. 96.47 GAS—MCF. N.M. WATER—BBL. 37.51 GAS-OIL RATIO N.M.

FLOW. TUBING PRESS. n/a CASING PRESSURE n/a CALCULATED 24-HOUR RATE → OIL—BBL. 96.47 GAS—MCF. N.M. WATER—BBL. 37.51 OIL GRAVITY-API (CORR.) 34

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

35. LIST OF ATTACHMENTS None

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

SIGNED Molly Conrad TITLE Operations Secretary DATE 1-20-95

\*(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, flowing and shut-in pressures, and recoveries):

FORMATION	TOP	BOTTOM	DESCRIPTION, CONTENTS, ETC.
			NO DST's run.

38. GEOLOGIC MARKERS

NAME	MEAS. DEPTH	TOP	TRUE VERT. DEPTH
			See Geological report submitted separately.

DAILY OPERATING REPORTBALCRON FEDERAL #31-5Y

Location: NW NE Section 5, T9S, R18E

Uintah County, Utah

660' FNL, 1980' FEL

PTD: 5,950' Formation: Green River

8 Mile Flat North

Elevations: 4867.1' GL

Contractor: Union Drilling (KB 10')

Operator: Balcron/EREC

Spud: 9-30-94 @ 3:30 p.m.

Casing: 8-5/8", 24#, J-55 @ 268' KB

5-1/2", 15.5#, J-55 @ 5941.48'

Tubing: 2-7/8", 6.5#, J-55 @ 5682.03' KB

---TIGHT HOLE---

8-23/9-2-94 Build location.

DC: \$23,595

CC: \$23,595

9-30-94 MIRU Leon Ross air rig & spud @ 3:30 p.m. Shut down & come back @ 11 p.m. Drill a few feet @ midnight. BLM man Randy Bywater showed up as crew was leaving.

DC: \$0

CC: \$23,595

10-1-94 Leon Ross Drilling on surface hole 140' broke down.

10-2-94 Finish drilling surface hole, rig problems.

10-3-94 POOH, run surface pipe as follows:

Guide Shoe

.60

1 jt 8-5/8", 24# shoe jt

43.40'

Insert Float

-----

5 jts 8-5/8", 24#, J-55

217.80'

261.80'

8-5/8" csg set at GL

258.00'

Union Drilling Rig KB

268.00'

Cmt by Western w/160 sxs Class "G" w/2% CCL & 1/4#/sx Celloseal.  
10 bbls cmt back to pit. Plug down @ 12 noon 10-4-94.

10-4-94 Had to get a cat to pull equipment off location and up the hill.

10-5-94 Work on roads.

10-6-94 Dig cellar, pump wtr out of reserve pit.

10-7-94 Install pit liner, install surface head. Work on road & location w/blade.

DAILY OPERATING REPORTBALCRON FEDERAL #31-5Y

Location: NW NE Section 5, T9S, R18E  
 Uintah County, Utah

---TIGHT HOLE---

- 10-9-94 TD: 412' (144') Day 1  
 Formation: Uintah  
 MW air & mist  
 Present Operation: Drilling  
 RDMO Leon Ross Air Drilling. Had blade to help move & repair roads. RU NU, test BOP & manifold to 2000# - OK. Test csg to 1500# - OK. Drill rat hole. Welder had to air blow line. Drill cmt, work on light plant & drill ahead.  
 DC: \$3,106 CC: \$34,724
- 10-10-94 TD: 1,724' (1,312') Day 2  
 Formation: Green River  
 MW 8.5 VIS 27  
 Present Operation: Drilling  
 Drill, survey, change air head rubber & clean on rig.  
 DC: \$18,307 CC: \$53,031
- 10-11-94 TD: 2,925' (1,201') Day 3  
 Formation: Green River  
 MW 8.5 VIS 27  
 Present Operation: Drilling  
 Drill, survey, & clean on rig.  
 DC: \$21,057 CC: \$74,088
- 10-12-94 TD: 3,946' (1,021') Day 4  
 Formation: Yellow Zone  
 MW 8.5 VIS 27  
 Present Operation: Circ hole.  
 Drill, survey, load hole w/fluid & circ. Prepare to trip for bit.  
 BGG 6 to 25 units.  
 DC: \$13,849 CC: \$87,937
- 10-13-94 TD: 4,438' (492') Day 5  
 Formation: Yellow Zone  
 MW 8.5 VIS 27  
 Present Operation: Drilling  
 Circulate, trip for bit, drill, survey, clean on rig. BGG 2 to 4 units.  
 DC: \$9,736 CC: \$97,673

DAILY OPERATING REPORTBALCRON FEDERAL #31-5Y

Location: NW NE Section 5, T9S, R18E  
 Uintah County, Utah

----TIGHT HOLE----

- 10-14-94 TD: 4,546' (127') Day 6  
 Formation: Yellow Zone  
 MW 8.5 VIS 27  
 Present Operation: Drilling  
 Drill, lose pump pressure & weight. TOH & drill pipe parted one jt above drill collars. PU fishing tools & TIH. Catch fish & TOH. LD fishing tools. Repair hydromatic & TIH, wash to btm & drill ahead.  
 DC: \$3,457 CC: \$101,130
- 10-15-94 TD: 5,085' (520') Day 7  
 Formation: Green Zone  
 MW 8.5 VIS 27  
 Present Operation: Drilling  
 Drill, survey, & clean on rig.  
 DC: \$7,912 CC: \$109,042
- 10-16-94 TD: 5,568' (483') Day 8  
 Formation: Blue Zone  
 MW 8.5 VIS 27  
 Present Operation: Drilling  
 Drill, trip out 15 stds for hole in drill pipe, hole in btm of 28th jt. TIH & go back to drilling.  
 DC: \$7,424 CC: \$116,466
- 10-17-94 TD: 5,950' (382') Day 9  
 Formation: Blue Zone  
 MW 8.5 VIS 27  
 Present Operation: WO loggers.  
 Drill, survey, circ for logs, TOH, & WO logging truck.  
 DC: \$7,722 CC: \$124,188
- 10-18-94 TD: 5,950' (0') day 10  
 Formation: Green River  
 Present Operation: Running 5-1/2" csg.  
 WO logging truck, log well, neutron tool quit working so ha to make 2 runs. TIH & LD drill pipe & collars. Change pipe rams in BOP & test to 2000# - OK. Get csg ready to run.  
 DC: \$51,177 CC: \$175,365

DAILY OPERATING REPORTBALCRON FEDERAL #31-5Y

Location: NW NE Section 5, T9S, R18E  
 Uintah County, Utah

----TIGHT HOLE----

10-19-94 TD: 5,950' (0') Day 11  
 Formation: Green River  
 Present Operation: RDMO  
 Run csg as follows:

Guide Shoe	.60'
1 jt 5-1/2" 15.5# shoe	42.83'
Float Collar	-----
137 jts 5-1/2" 15.5# J-55 csg	<u>5888.05'</u>
Total Length	5932.48'
+ Landing Jt	<u>9.00'</u>
Csg Landed at	5941.48'
PBTD at	5897.05'

Cmt by Western w/183 sxs Super "G" w/2% gel, 2#/sx HiSeal & 1/4#/sx Celloseal. Tail w/344 sxs 50/50 POZ w/2% gel & 1/4#/sx Celloseal & 2#/sx HiSeal. Plug down @ 9:15 a.m. Set slips, ND & clean tanks. Rig released @ 1:15 p.m. 10-18-94.

DC: \$15,127

CC: \$190,492

10-24-94 Completion

Dress up location, set rig anchors. MIRU Cannon Well Service Rig #2. NU 5M wellhead, NU BOP. TIH w/150 jts 2-7/8" tbg, bit & scraper. SWIFN. MI tank & rig equipment.

DC: \$4,649

CC: \$195,141

10-25-94 Completion

Continue in hole w/bit & scraper. Tag TD @ 5897' KB. TOOh w/tbg & tools. RU Schlumberger & run CBL from PBTD to 200' above cmt top. RU Schlumberger & perf 5582'-5610' (2 SPF). RD Schlumberger, cmt top @ 3060' KB. TIH w/RBP, retrieving head, 2-3/8" x 4' sub, HD packer 2-3/8" x 5-1/2", X-Over 2-3/8" x 2-7/8", SN & 178 jts 2-7/8" tbg. Set BP @ 5625' KB, set packer @ 5560' KB. RU Western to do KCL break down w/4116 gals 2% KCL wtr. ATP 2000 psi, max 2600 psi. ATR 5 bpm, max 6.2 bpm. ISIP 1300. Pump 2 balls/bbl @ 4.8 bpm. TOOH w/tbg, packer, & retrieving head. SWIFN. Load to recover 98 BW.

DC: \$28,558

CC: \$223,699

10-26-94 Completion

BP @ 5625' KB. RU Western to frac 5582'-5610' w/55,600# 20/40 mesh sand & 48,960# 16/30 mesh sand w/22,995 gals 2% KCL gelled wtr. ATP 2000 psi, max 2710 psi. ATR 29.9 bpm, max 30 bpm. ISIP 1750 psi, 5 min 1680 psi, 10 min 1450 psi, 15 min 1320 psi, 45 min 1100 psi. 40 min forced closure @ 1.5 bpm. SWIFN.

DC: \$34,375

CC: \$258,074

DAILY OPERATING REPORTBALCRON FEDERAL #31-5Y

Location: NW NE Section 5, T9S, R18E

Uintah County, Utah

---TIGHT HOLE---

- 10-27-94 Completion  
 CP 475#. TIH w/retrievinng head, 2-3/8" x 4' sub, HD packer, 2-7/8" SN & 175 jts 2-7/8" tbg. Tag sand @ 5510' KB. Fow backk 60 bbls of wtr. Made 31 swab runs, recovered 164 bbls fluid, 1 bbl oil, 163 bbls wtr, good gas, no sand last 14 runs. Fluid level stable @ 2300 last 4 runs. Trace of oil after 1st 13 runs. Last 3 runs 5% oil. Total wtr recovered = 223 bbls. Load to recover 535 BW.  
 DC: \$3,285 CC: \$261,359
- 10-28-94 Completion  
 CP - 0#, TP - 15#. Fluid level 50' from surface. Pumped 15 bbls hot wtr down tbg. Made 23 swab runs, recovered 122 bbls of fluid, 24 BO, 98 BW, good gas, & no sand. Fluid level dropped 100' @ 3 runs. Last 5 runs 45% oil, last fluid level 2100'. Release packer, tag sand @ 5614' KB. Circ down to BP @ 5625' KB. Reset BP @ 5060' KB. TOOH w/tbg, packer & retrieving tool. SWIF weekend. Load to recover 452 BW.  
 DC: \$4,278 CC: \$265,637
- 10-31-94 Completion  
 RU Schlumberger & perf 4993'-97' & 5005'-10' (2 SPF). RD Schlumberger. TIH w/retrieving tool, 2-3/8" x 4' sub, HD packer, SN & 157 jts 2-7/8" tbg. Set packer @ 4995' KB, EOT @ 4962'. RU Western to do KCL break down on 4993'-97' & 5006'-10' w/3,234 gals 2% KCL wtr. ATP 2200#, max 2300#. ATR 4 bpm, max 4.2 bpm. ISIP 1100 psi. Pump 2 balls/bbl @ 4 bpm. Load to recover from break down 77 bbls. Flow 12 bbls back & swab 37 bbls. Total recovered 49 bbls. Swab well down & wait 30 min, 350' fluid entry. Release apcker, TOOH, fluid to recover from previous frac 452, fluid to recover breakdown 28 = 480 bbls total.  
 DC: \$4,512 CC: \$270,149
- 11-1-94 Completion  
 RU Western & frac 4993'-97' & 5006'-10' w/50,240# 16/30 mesh sand w/10,626 gals 2% KCL gelled wtr. ATP 2300 psi, ATR 30 bpm. ISIP 2000 psi. Job went good.  
 DC: \$26,368 CC: \$296,517
- 11-2-94 Completion  
 Csg - vacuum. TIH w/retrieving too, 2-3/8" x 4' sub, HD packer, XOver 2-3/8" x 2-7/8", SN & 156 jts 2-7/8" tbg. Tag sand @ 4910' KB, circ down to BP @ 5060' KB. Pull up & set packer @ 4955' KB. Made 31 swab runs, recovered 160 bbls of fluid. 1 BO, 159 BW, good gas, no sand last 12 runs. Oil 5% last 5 runs. FL stable @ 2700' last 5 runs.  
 DC: \$2,028 CC: \$298,545

DAILY OPERATING REPORTBALCRON FEDERAL #31-5Y

Location: NW NE Section 5, T9S, R18E  
 Uintah County, Utah

---TIGHT HOLE---

- 11-4-94 Completion  
 RU Western & frac 4763'-70' w/45,620# 16/30 mesh sand w/13,986 gals of 2% KCL gelled wtr. Max press 3650#, min press 2440#, ATP 2800# @ 30 bpm. ISDP 2050#. Forced closure flow back 30 min. Fluid left to recover from BD & frac #1 = 452 bbls. Fluid used on break down #2 = 77 bbls. Fluid used on frac #2 = 372 bbls. Fluid used on break down #3 = 51 bbls. Fluid used on frac #3 = 333 bbls.  
 DC: \$26,700 CC: \$325,245
- 11-5-94 Completion  
 CP 615 psi, bleed well off. TIH w/retrieving tool, 2-3/8" x 4' sub, HD packer, 2-3/8" x 2-7/8" XOver, 2-7/8" SN, & 146 jts 2-7/8" tbg. Tag sand @ 4592' KB, circ down to BP @ 4806' KB. Pull up & set packer @ 4731' KB. Made 26 swab runs, recovered 135 bbls of fluid. Trace of oil, 135 bbls wtr, good gas, no sand last 5 runs. Fluid level stable last 3 runs @ 2900'. SWIFN.  
 DC: \$1,859 CC: \$327,104
- 11-7-94 Completion  
 CP - 0#, tbg on vacuum. Fluid level @ 350'. Made 11 swab runs, recovered 58 bbls of fluid. Trace oil, 58 BW, good gas, no sand. Fluid level @ 2000' last run. Release packer, tag sand @ 4790' KB, circ down to BP @ 4806' KB. Release BP, TOOH w/tbg & tools. Run production string as follows:
- |                              | LENGTH   | DEPTH KB |
|------------------------------|----------|----------|
| 1 jt 2-7/8", J-55, 6.5#      | 31.74'   | 5682.03' |
| 1 Perf Sub 2-7/8" x 3'       | 3.20'    | 5650.29' |
| 1 SN 2-7/8" x 1.10'          | 1.10'    | 5647.09' |
| 29 jts 2-7/8" J-55, 6.5#     | 915.12'  | 5645.99' |
| 1 Tbg Anchor 2-7/8" x 5-1/2" | 2.35'    | 4730.87' |
| 150 jts 2-7/8" J-55, 6.5#    | 4718.52' | 4728.52' |
| KB                           | 10.00'   |          |
- ND BOP, set tbg anchor w/21" tension, NU well head. TIH w/rod production string as follows:  
 1 BHP 2-1/2"x1-1/2"x16' RWAC w/pa plunger (Trico #1003)  
 224 - 3/4" x 25' Plain Sucker rods.  
 1 - 3/4" x 8' Pony  
 1 - 1-1/4" x 22' Polish Rod SM  
 Check pump action (good), clamp rods off. SWI, RDMO.  
 DC: \$20,053 CC: \$347,157
- 11-8-94 WO Surface Equipment.
- 12-21-94 Started well pumping at 9:30 a.m. 7 SPM, 74" stroke.  
 DC: \$51,336 CC: \$398,493

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

MAR 20 1995

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

SUNDRY NOTICES AND REPORTS ON WELLS

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

SUBMIT IN TRIPLICATE

1. Type of Well

Oil Well  Gas Well  Other

2. Name of Operator

Equitable Resources Energy Company, Balcron Oil Division

3. Address and Telephone No.

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

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

NW NE Section 5, T9S, R18E  
660' FNL, 1980' FEL

5. Lease Designation and Serial No.  
U-65970

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 #31-5Y

9. API Well No.

43-047-32503

10. Field and Pool, or Exploratory Area

8 Mile Flat N./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

Notice of Intent  
 Subsequent Report  
 Final Abandonment Notice

TYPE OF ACTION

Abandonment  
 Recompletion  
 Plugging Back  
 Casing Repair  
 Altering Casing  
 Other oil spill  
 Change of Plans  
 New Construction  
 Non-Routine Fracturing  
 Water Shut-Off  
 Conversion to Injection  
 Dispose Water

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

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

On 3/25/95 a check valve blew on this well causing a spill of approximately 10 BO. It was located off location approximately 300' to the SW. The spill was contained by placing a dam across the road. Cleanup was complete 3/26/95.

Notifications by FAX and mail were made to the following:

Bureau of Land Management, Vernal District (Jamie Sparger)  
Utah Division of Oil, Gas and Mining (Jim Thompson)

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

Signed Robbie Schuman

Title Regulatory and Environmental Specialist

Date March 27, 1995

(This space for Federal or State Office use)

Approved by \_\_\_\_\_

Title \_\_\_\_\_

Date \_\_\_\_\_

Conditions of approval, if any:

STATE OF UTAH  
DIVISION OF OIL, GAS AND MINING

**PHONE CONVERSATION DOCUMENTATION FORM**

Route original/copy to:

WELL FILE BMS 21-2-9-17  
Section 2 Township 9S Range 17E  
API number 43-047-32703

SUSPENSE  
Return date \_\_\_\_\_  
To: initials \_\_\_\_\_

OTHER  
\_\_\_\_\_  
\_\_\_\_\_

Date of phone call: Dec November 5, 1995 Time: 9:00 AM

DOGME employee (name) Dennis L. Ingram Initiated call?

Spoke with:

Name Al Plunkett Initiated call?

of (company/organization) Equitable Resources Phone no. 801-823-6750

Topic of conversation: water reported on said well at 800 feet

Highlights of conversation: Plunkett claims the 10 gallons of water flow per minute was a combination that accumulated by the time they reached 3000 feet of hole. The drilling crew started to pick up some water at 800 feet but to get any kind of sample he claims they would have to blow the hole for sometime. He claims that he has caught these samples before but the quality wasn't any good because of drilling fluids: the soap and KDC. He says they seldom trip until around 4000 feet. Therefore, the fluid level never builds enough to get a quality water sample.

I asked him to catch a water sample in the future providing the opportunity arises.



**EQUITABLE RESOURCES  
ENERGY COMPANY**

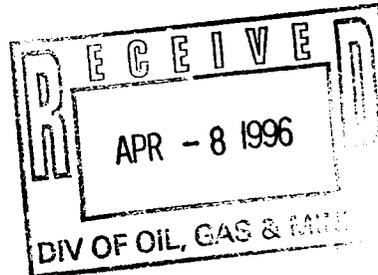
**BALCRON OIL DIVISION**

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.: See attached listing		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)

- |  |   |
|--|---|
| <input type="checkbox"/> Abandon                   | <input type="checkbox"/> New Construction     |
| <input type="checkbox"/> Repair Casing             | <input type="checkbox"/> Pull or Alter Casing |
| <input type="checkbox"/> Change of Plans           | <input type="checkbox"/> Recomplete           |
| <input type="checkbox"/> Convert to Injection      | <input type="checkbox"/> Reperforate          |
| <input type="checkbox"/> Fracture Treat or Acidize | <input type="checkbox"/> Vent or Flare        |
| <input type="checkbox"/> Multiple Completion       | <input type="checkbox"/> Water Shut-Off       |
| <input type="checkbox"/> Other _____               |   |

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

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

- |   |   |
|---|---|
| <input type="checkbox"/> Abandon                                      | <input type="checkbox"/> New Construction     |
| <input type="checkbox"/> Repair Casing                                | <input type="checkbox"/> Pull or Alter Casing |
| <input type="checkbox"/> Change of Plans                              | <input type="checkbox"/> Reperforate          |
| <input type="checkbox"/> Convert to Injection                         | <input type="checkbox"/> Vent or Flare        |
| <input type="checkbox"/> Fracture Treat or Acidize                    | <input type="checkbox"/> Water Shut-Off       |
| <input checked="" type="checkbox"/> Other <u>Operator name change</u> |   |

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.

13.

Name & Signature:

Bobbie Schuman  
Bobbie Schuman

Title: Regulatory and Environmental Specialist Date: March 27, 1996

(This space for State use only)

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

Routing:

1	LEP 7-SI	✓
2	DEP 58-FILE	✓
3	VLD (GIT)	✓
4	RJE	✓
5	IFC	✓
6	FILM	✓

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

- Change of Operator (well sold)                       Designation of Agent  
 Designation of Operator                              ~~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>	<u>BALCRON OIL DIVISION</u>
	<u>BILLINGS MT 59102-4126</u>	<u>1601 LEWIS AVE</u>
	<u>phone (406) 259-7860</u>	<u>BILLINGS MT 59102-4126</u>
	<u>account no. N9890</u>	<u>phone (406) 259-7860</u>
		<u>account no. N9890</u>

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

Name: <b>**SEE ATTACHED**</b>	API: <u>DA7-32503</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) Scheco Ins. Co. (Bond Rider In Progress)

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

**LEASE INTEREST OWNER NOTIFICATION RESPONSIBILITY**

- N/A 1. (Rule R615-2-10) The former operator/lessee of any fee lease well listed above has been notified by letter dated                      19   , of their responsibility to notify any person with an interest in such lease of the change of operator. Documentation of such notification has been requested.
- 4/26/96
- 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**

9/6/10 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			Producing Zone	Well Status	Days Oper	Production Volumes		
API Number	Entity	Location				OIL(BBL)	GAS(MCF)	WATER(BBL)
✓	BALCRON FEDERAL 31-5Y							
4304732503	11680 09S 18E 5		GRRV					
✓	BALCRON MONUMENT FEDERAL 21-25							
4304732528	11683 08S 17E 25		GRRV					
✓	MONUMENT FEDERAL 12-25							
4304732526	11694 08S 17E 25		GRRV					
✓	MONUMENT FEDERAL 32-25							
4304732524	11707 08S 17E 25		GRRV					
✓	MONUMENT FEDERAL 31-25							
4304732530	11710 08S 17E 25		GRRV					
✓	BALCRON FEDERAL 12-22Y							
91331476	11717 08S 17E 22		GRRV					
✓	BALCRON MONUMENT FEDERAL 33-25							
4304732525	11729 08S 17E 25		GRRV					
✓	MONUMENT FEDERAL 23-25							
4304732529	11730 08S 17E 25		GRRV					
✓	BALCRON MONUMENT STATE 24-2							
4304732612	11736 09S 17E 2		GRRV					
✓	BALCRON MONUMENT STATE 13-2							
4301331482	11738 09S 17E 2		GRRV					
✓	BALCRON MONUMENT STATE 22-2							
4304732610	11742 09S 17E 2		GRRV					
✓	BALCRON MONUMENT STATE 12-2							
4301331481	11745 09S 17E 2		GRRV					
✓	BALCRON FEDERAL 31-19Y							
4304732614	11751 09S 18E 19		GRRV					
<b>TOTALS</b>								

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

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

UTAH - 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	860' 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	43-013-31392	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	43-047-32816	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	WVW	Green River	U-020252-A	43-013-31382	804' FNL, 696' FWL	Vernal	Jonah
Balcron Monument Fed. #11-7J	Monument Butte	NW NW	7	9S	17E	Duchesne	UT	COMPL-WVW	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	
Balcron Monument Fed. #12-11J	Monument Butte	SW NW	11	9S	16E	Duchesne	UT	WVW	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	WVW	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	WVW	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	2060' FSL, 694' FWL	Vernal	Beluga
Balcron Monument Fed. #14-11	Monument Butte	SW SW	11	9S	16E	Duchesne	UT	WVW	Green River	U-096547	43-013-31374	1048' FSL, 446' FWL	Vernal	Jonah

STATE OF UTAH  
DIVISION OF OIL, GAS AND MINING

**SUNDRY NOTICES AND REPORTS ON WELLS**

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

5. Lease Designation and Serial Number:

See Attached

6. If Indian, Allottee or Tribe Name:

n/a

7. Unit Agreement Name:

See Attached

8. Well Name and Number:

See Attached

9. API Well Number:

See Attached

10. Field and Pool, or Wildcat:

See Attached

1. Type of Well: OIL  GAS  OTHER:

2. Name of Operator:

Inland Production Company

3. Address and Telephone Number:

475 - 17th Street, Suite 1500, Denver, CO 80202

4. Location of Well

Footages: See Attached Exhibit

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

County:

State:

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

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

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

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

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

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

Date of work completion 9-30-97

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 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 State of Utah Statewide Bond No. 4471291.

OCT 16 1997

13.

Name & Signature:

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

Date:

9/30/97

(This space for State use only)

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	SENW 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	SENW 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	

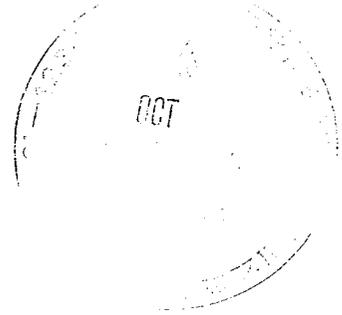
RECEIVED

OCT 10 1997



October 7, 1997

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



RE: Change of Operator  
Duchesne & Vernal Counties, Utah

Dear Mr. Forsman:

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

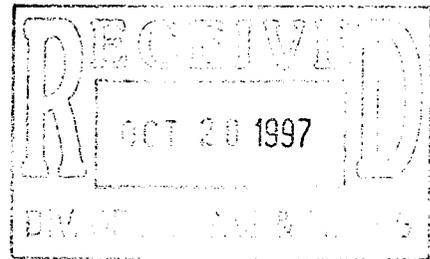
If you should have questions regarding this matter, please do not hesitate to contact me at the number listed below.

Sincerely,

INLAND PRODUCTION COMPANY

  
Patsy Barreau

/pb  
encls.





# United States Department of the Interior

## BUREAU OF LAND MANAGEMENT

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

Phone: (801) 781-4400

Fax: (801) 781-4410

IN REPLY REFER TO:

3162.3  
UT08438

December 5, 1997

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

43-047-32503  
Re: Well No. Balcron Federal 31-5Y  
NWNE, Sec. 5, T9S, R18E  
Lease U-65970  
Uintah 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 Petroleum Corp.  
Myco Industries Inc.  
Yates Drilling Company  
Yates Petroleum Corp.



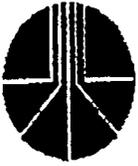
Crazy Mountain Oil & Gas Services  
P.O. Box 577  
Laurel, MT 59044  
(406) 628-4164  
(406) 628-4165

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.*



**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

**OPERATOR CHANGE WORKSHEET**

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

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       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 ENERGY</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 SERVICES</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>43-047-32503</u>	Entity: _____	S _____	T _____	R _____	Lease: _____
Name: _____	API: _____	Entity: _____	S _____	T _____	R _____	Lease: _____
Name: _____	API: _____	Entity: _____	S _____	T _____	R _____	Lease: _____
Name: _____	API: _____	Entity: _____	S _____	T _____	R _____	Lease: _____
Name: _____	API: _____	Entity: _____	S _____	T _____	R _____	Lease: _____
Name: _____	API: _____	Entity: _____	S _____	T _____	R _____	Lease: _____

**OPERATOR CHANGE DOCUMENTATION**

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

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

**ENTITY REVIEW**

- YIC 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 / YIC 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. *DC 3, 21/10/97*
- N/A 2. (r649-2-10) The former operator of any fee lease wells listed above has been contacted and informed by letter dated     19    , of their responsibility to notify all interest owners of this change.

**FILMING**

- YIC 1. All attachments to this form have been microfilmed. Today's date: 1-6-98.

**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**

971209 BLM / Vernal Apr. 12-4-97.

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

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-65970**

6. If Indian, Allottee or Tribe Name

**NA**

7. If Unit or CA, Agreement Designation

**NA**

**SUBMIT IN TRIPLICATE**

1. Type of Well

Oil Well     Gas Well     Other

**RECEIVED**

**JAN 22 2003**

8. Well Name and No.

**BALCRON FED 31-5Y**

9. API Well No.

**43-047-32503**

2. Name of Operator

**INLAND PRODUCTION COMPANY**

**DIV. OF OIL, GAS & MINING**

3. Address and Telephone No.

**Rt. 3 Box 3630, Myton Utah, 84052 435-646-3721**

10. Field and Pool, or Exploratory Area

**8 MILE FLAT NORTH**

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

**0660 FNL 1980 FEL      NW/NE Section 5, T9S R18E**

11. County or Parish, State

**DUCHESNE COUNTY, UTA**

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

**TYPE OF SUBMISSION**

Notice of Intent  
 Subsequent Report  
 Final Abandonment Notice

**TYPE OF ACTION**

Abandonment  
 Recompletion  
 Plugging Back  
 Casing Repair  
 Altering Casing  
 Other **Re-completion**

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

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

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

Re-completion procedures were initiated in the Green River formation on subject well on 1/6/2003. Existing production equipment was pulled from well. A total of five new Green River intervals were perforated and hydraulically fracture treated as follows: Stage #1: CP3 sds @ 5628'-5637' (4 JSPF) fraced down 2 7/8 N-80 tbg (communicated W/ perfs 5582'-5610'--left untreated). Stage #2: CP .5 sds @ 5498'-5502' and CP1 sds @ 5529'-5540' & 5582'-5610' (all 4 JSPF) fraced down 2 7/8 N-80 tbg W/ 58,780# 20/40 mesh sand in 578 bbls YF 125 fluid. Stage #3: D3 sds @ 4818'-4825' & 4829'-4831' (all 4 JSPF) fraced down 2 7/8 N-80 tbg W/ 25,240# 20/40 mesh sand in 229 bbls YF 125 fluid. Stage #4: DS1 sds @ 4587'-4600', 4641'-4656', 4666'-4669' & 4696'-4702' (all 4 JSPF) fraced down 5 1/2" 15.5# casing W/ 149,640# 20/40 mesh sand in 1157 bbls YF 125 fluid. Stage #5: GB4 sds @ 4206'-4212' and GB6 sds @ 4286'-4298' (all 4 JSPF) fraced down 5 1/2" 15.5# casing W/ 50,120# 20/40 mesh sand in 471 bbls YF 125 fluid. All fracs were flowed back through chokes. Sand was cleaned from wellbore. Frac tbg & tools were pulled from well. New intervals were swab tested for sand cleanup (along W/ existing intervals). Well was cleaned out to 5582'. A revised BHA & production tbg was ran in and anchored in well W/ tubing anchor @ 5653', pump seating nipple @ 5719' & end of tubing string @ 5778'. A repaired 1 1/2" bore rod pump was ran in well on sucker rods. Well returned to production via rod pump on 1/16/03.

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

Signed

*Gary Dietz*  
Gary Dietz

Title

**Completion Foreman**

Date

**1/19/2003**

CC: UTAH DOGM

(This space for Federal or State office use)

Approved by

Title

Date

Conditions of approval, if any:



## 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

UTSL-	15855	61052	73088	76561	
071572A	16535	62848	73089	76787	
065914	16539	63073B	73520A	76808	
	16544	63073D	74108	76813	
	17036	63073E	74805	76954	63073X
	17424	63073O	74806	76956	63098A
	18048	64917	74807	77233	68528A
UTU-	18399	64379	74808	77234	72086A
	19267	64380	74389	77235	72613A
02458	26026A	64381	74390	77337	73520X
03563	30096	64805	74391	77338	74477X
03563A	30103	64806	74392	77339	75023X
04493	31260	64917	74393	77357	76189X
05843	33992	65207	74398	77359	76331X
07978	34173	65210	74399	77365	76788X
09803	34346	65635	74400	77369	77098X
017439B	36442	65967	74404	77370	77107X
017985	36846	65969	74405	77546	77236X
017991	38411	65970	74406	77553	77376X
017992	38428	66184	74411	77554	78560X
018073	38429	66185	74805	78022	79485X
019222	38431	66191	74806	79013	79641X
020252	39713	67168	74826	79014	80207X
020252A	39714	67170	74827	79015	81307X
020254	40026	67208	74835	79016	
020255	40652	67549	74868	79017	
020309D	40894	67586	74869	79831	
022684A	41377	67845	74870	79832	
027345	44210	68105	74872	79833	
034217A	44426	68548	74970	79831	
035521	44430	68618	75036	79834	
035521A	45431	69060	75037	80450	
038797	47171	69061	75038	80915	
058149	49092	69744	75039	81000	
063597A	49430	70821	75075		
075174	49950	72103	75078		
096547	50376	72104	75089		
096550	50385	72105	75090		
	50376	72106	75234		
	50750	72107	75238		
10760	51081	72108	76239		
11385	52013	73086	76240		
13905	52018	73087	76241		
15392	58546	73807	76560		

**OPERATOR CHANGE WORKSHEET**

**ROUTING**

1. GLH
2. CDW
3. FILE

Change of Operator (Well Sold)

Designation of Agent/Operator

**X Operator Name Change**

**Merger**

The operator of the well(s) listed below has changed, effective: **9/1/2004**

<b>FROM:</b> (Old Operator): N5160-Inland Production Company Route 3 Box 3630 Myton, UT 84052 Phone: 1-(435) 646-3721	<b>TO:</b> ( New Operator): N2695-Newfield Production Company Route 3 Box 3630 Myton, UT 84052 Phone: 1-(435) 646-3721
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**CA No.** \_\_\_\_\_ **Unit:** \_\_\_\_\_

**WELL(S)**

NAME	SEC	TWN	RNG	API NO	ENTITY NO	LEASE TYPE	WELL TYPE	WELL STATUS	
REX LAMB 34-1	34	040S	010E	4304731528	9690	Fee	OW	P	
REX LAMB 34-2	34	040S	010E	4304731692	9691	Fee	OW	P	
MONUMENT FED 13-25	25	080S	170E	4304732527	11835	Federal	NA	PA	K
FEDERAL #23-26	26	080S	180E	4304732080	11265	Federal	OW	P	
PARIETTE FED 10-29	29	080S	180E	4304731464	1428	Federal	OW	P	
W PARIETTE FED 6-29	29	080S	180E	4304731550	10975	Federal	OW	P	
FEDERAL 44-29	29	080S	180E	4304732079	11267	Federal	OW	S	
STATE 31-32	32	080S	180E	4304732500	11645	State	OW	S	
FEDERAL 12-34	34	080S	180E	4304732077	11276	Federal	OW	S	
GULF STATE 36-12	36	080S	180E	4304731864	11002	State	OW	S	
GULF STATE 36-22	36	080S	180E	4304731892	11095	State	OW	P	
UTD STATE 36-K	36	080S	180E	4304732580	11752	State	OW	S	
UTD STATE 36-M	36	080S	180E	4304732581	11749	State	OW	S	
WILDROSE FEDERAL 31-1	31	080S	190E	4304731415	9535	Federal	OW	TA	
FEDERAL 44-14Y	14	090S	170E	4304732438	11506	Federal	OW	P	
21BALCRON FED 31-5Y	05	090S	180E	4304732503	11680	Federal	OW	S	
FEDERAL 15-8-9-18	08	090S	180E	4304731547	10275	Federal	OW	S	
BALCRON FED 41-19Y	19	090S	180E	4304732504	11651	Federal	OW	P	
UTD CHASEL 24-14	24	090S	180E	4304732566	11798	Federal	OW	S	
FEDERAL 41-29	29	090S	180E	4304732495	11646	Federal	OW	S	

**OPERATOR CHANGES DOCUMENTATION**

Enter date after each listed item is completed

- (R649-8-10) Sundry or legal documentation was received from the **FORMER** operator on: 9/15/2004
- (R649-8-10) Sundry or legal documentation was received from the **NEW** operator on: 9/15/2004
- The new company was checked on the **Department of Commerce, Division of Corporations Database** on: 2/23/2005
- Is the new operator registered in the State of Utah: YES Business Number: 755627-0143
- If **NO**, the operator was contacted on:

6a. (R649-9-2)Waste Management Plan has been received on: IN PLACE  
6b. Inspections of LA PA state/fee well sites complete on: waived

7. **Federal and Indian Lease Wells:** The BLM and or the BIA has approved the merger, name change, or operator change for all wells listed on Federal or Indian leases on: BLM BIA

8. **Federal and Indian Units:**  
The BLM or BIA has approved the successor of unit operator for wells listed on: n/a

9. **Federal and Indian Communization Agreements ("CA"):**  
The BLM or BIA has approved the operator for all wells listed within a CA on: na/

10. **Underground Injection Control ("UIC")** The Division has approved UIC Form 5, **Transfer of Authority to Inject**, for the enhanced/secondary recovery unit/project for the water disposal well(s) listed on: 2/23/2005

**DATA ENTRY:**

- Changes entered in the **Oil and Gas Database** on: 2/28/2005
- Changes have been entered on the **Monthly Operator Change Spread Sheet** on: 2/28/2005
- Bond information entered in RBDMS on: 2/28/2005
- Fee/State wells attached to bond in RBDMS on: 2/28/2005
- Injection Projects to new operator in RBDMS on: 2/28/2005
- Receipt of Acceptance of Drilling Procedures for APD/New on: waived

**FEDERAL WELL(S) BOND VERIFICATION:**

1. Federal well(s) covered by Bond Number: UT 0056

**INDIAN WELL(S) BOND VERIFICATION:**

1. Indian well(s) covered by Bond Number: 61BSBDH2912

**FEE & STATE WELL(S) BOND VERIFICATION:**

1. (R649-3-1) The **NEW** operator of any fee well(s) listed covered by Bond Number 61BSBDH2919

2. The **FORMER** operator has requested a release of liability from their bond on: n/a\*  
The Division sent response by letter on: n/a

**LEASE INTEREST OWNER NOTIFICATION:**

3. (R649-2-10) The **FORMER** operator of the fee wells has been contacted and informed by a letter from the Division of their responsibility to notify all interest owners of this change on: n/a

**COMMENTS:**

\*Bond rider changed operator name from Inland Production Company to Newfield Production Company - received 2/23/05



# United States Department of the Interior

## BUREAU OF LAND MANAGEMENT

Utah State Office  
P.O. Box 45155  
Salt Lake City, UT 84145-0155



IN REPLY REFER TO  
3180  
UT-922

June 30, 2005

Newfield Production Company  
Attn: Kelly L. Donohoue  
1401 Seventeenth Street, Suite 1000  
Denver, Colorado 80202

Gentlemen:

The Sundance (Green River) Unit Agreement, Uintah County, Utah, was approved June 30, 2005. This agreement has been designated No. UTU82472X, and is effective July 1, 2005. The unit area embraces 11,143.86 acres, more or less.

Pursuant to regulations issued and effective June 17, 1988, all operations within the Sundance (Green River) Unit will be covered by your nationwide (Utah) oil and gas bond No. 0056.

The following leases embrace lands included within the unit area:

UTU0075174	UTU39713	UTU65970*	UTU79013*
UTU16539*	UTU39714	UTU74404	UTU79014*
UTU16540	UTU44429	UTU74835	UTU80915
UTU17424*	UTU64806*	UTU74872*	UTU82205
UTU18043	UTU65969	UTU75234	

\* Indicates lease to be considered for segregation by the Bureau of Land Management pursuant to Section 18 (g) of the unit agreement and Public Law 86-705.

All lands and interests by State of Utah, Cause No. 228-08 are fully committed.

Approval of this agreement does not warrant or certify that the operator thereof and other holders of operating rights hold legal or equitable title to those rights in the subject leases which are committed hereto.

RECEIVED  
JUL 0 / 2005

DIV. OF OIL, GAS & MINING

*Docket No  
2005-009*

We are of the opinion that the agreement is necessary and advisable in the public interest and for the purpose of more properly conserving natural resources. Certification-Determination, signed by the School and Institutional Trust Land Administration for the State of Utah, is attached to the enclosed agreement. We request that you furnish the State of Utah and all other interested principals with appropriate evidence of this approval.

Sincerely,

/s/ Terry Catlin

Terry Catlin  
Acting Chief, Branch of Fluid Minerals

**Enclosure**

bcc: Mary Higgins w/enclosure  
MMS - Data Management Division (Attn: James Sykes)  
Trust Lands Administration  
Division of Oil, Gas and Mining  
Field Manager - Vernal w/enclosure  
File - Sundance (Green River) Unit w/enclosure  
Agr. Sec. Chron  
Fluid Chron  
Central Files

UT922:TAThompson:tt:06/30/2005

Entity Form 6  
 "C" Change from one existing entity to another existing entity

API	Well	Sec	Twsp	Rng	Entity	Entity Eff Date
4304735697	FEDERAL 15-13-9-17	13	090S	170E	14828 to 14844	9/20/2005
4304735698	FEDERAL 13-13-9-17	13	090S	170E	14813 to 14844	9/20/2005
4304735699	FEDERAL 11-13-9-17	13	090S	170E	14837 to 14844	9/20/2005
4304735702	FEDERAL 5-13-9-17	13	090S	170E	14836 to 14844	9/20/2005
4304736012	FEDERAL 14-13-9-17	13	090S	170E	14790 to 14844	9/20/2005
4304732438	FEDERAL 44-14Y	14	090S	170E	11506 to 14844	9/20/2005
4304735708	FEDERAL 9-14-9-17	14	090S	170E	14808 to 14844	9/20/2005
4304735709	FEDERAL 11-14-9-17	14	090S	170E	14734 to 14844	9/20/2005
4304735710	FEDERAL 15-14-9-17	14	090S	170E	14735 to 14844	9/20/2005
4304736068	FEDERAL 14-14-9-17	14	090S	170E	14770 to 14844	9/20/2005
4304736069	FEDERAL 10-14-9-17	14	090S	170E	14787 to 14844	9/20/2005
4304736071	FEDERAL 6-14-9-17	14	090S	170E	14809 to 14844	9/20/2005
4304731181	FEDERAL 14-4-9-18	04	090S	180E	14601 to 14844	9/20/2005
4304732653	FEDERAL 13-4-9-18	04	090S	180E	14602 to 14844	9/20/2005
4304732654	FEDERAL 11-4-9-18	04	090S	180E	14603 to 14844	9/20/2005
4304735473	FEDERAL 1-4-9-18	04	090S	180E	14533 to 14844	9/20/2005
4304735474	FEDERAL 7-4-9-18	04	090S	180E	14499 to 14844	9/20/2005
4304735475	FEDERAL 9-4-9-18	04	090S	180E	14530 to 14844	9/20/2005
4304735589	FEDERAL 2-4-9-18	04	090S	180E	14485 to 14844	9/20/2005
4304735590	FEDERAL 3-4-9-18	04	090S	180E	14697 to 14844	9/20/2005
4304735591	FEDERAL 5-4-9-18	04	090S	180E	14680 to 14844	9/20/2005
4304735592	FEDERAL 6-4-9-18	04	090S	180E	14696 to 14844	9/20/2005
4304735593	FEDERAL 8-4-9-18	04	090S	180E	14528 to 14844	9/20/2005
4304735594	FEDERAL 10-4-9-18	04	090S	180E	14535 to 14844	9/20/2005
4304735595	FEDERAL 12-4-9-18	04	090S	180E	14670 to 14844	9/20/2005
4304732503	21BALCRON FED 31-5Y	05	090S	180E	11680 to 14844	9/20/2005
4304735290	FEDERAL 5-5-9-18	05	090S	180E	14669 to 14844	9/20/2005
4304735292	FEDERAL 9-5-9-18	05	090S	180E	14554 to 14844	9/20/2005
4304735293	FEDERAL 11-5-9-18	05	090S	180E	14769 to 14844	9/20/2005
4304735294	FEDERAL 13-5-9-18	05	090S	180E	14658 to 14844	9/20/2005
4304735505	FEDERAL 14-5-9-18	05	090S	180E	14687 to 14844	9/20/2005
4304735506	FEDERAL 12-5-9-18	05	090S	180E	14651 to 14844	9/20/2005
4304735891	FEDERAL 10-5-9-18	05	090S	180E	14698 to 14844	9/20/2005
4304734933	FEDERAL 6-6-9-18	06	090S	180E	14152 to 14844	9/20/2005
4304734934	FEDERAL 7-6-9-18	06	090S	180E	14126 to 14844	9/20/2005
4304734936	FEDERAL 13-6-9-18	06	090S	180E	14049 to 14844	9/20/2005