



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,

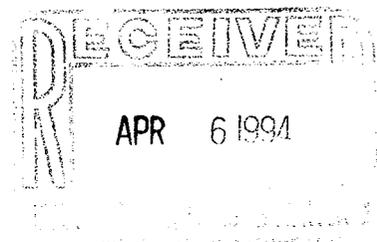
Bobbie Schuman

Bobbie Schuman
Regulatory and Environmental Specialist

/hs

Enclosure

cc: Utah Division of Oil, Gas and Mining



CONFIDENTIAL

STATE OF UTAH
DIVISION OF OIL, GAS AND MINING

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

Type of Work: DRILL DEEPEN PLUG BACK

Type of Well: Oil Well Gas Well Other Single Zone Multiple Zone

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

Address of Operator: P.O. Box 21017; Billings, MT 59104

Location of Well (Report location clearly and in accordance with any State requirements.):
At surface: SE SE Sec. 33, T8S, R18E 778.4' FSL, 623.7' FEL
At proposed prod. zone: SE SE Sec. 33, T8S, R18E

Distance in miles and direction from nearest town or post office*: From Myton, Utah, approximately 16 miles southwest.

Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drilg. line, if any):
Distance from proposed* location to nearest well, drilling, completed, or applied for, on this lease, ft.:

Elevations (Show whether DF, RT, GR, etc.): GL 4850.7'

16. No. of acres in lease: 17. No. of acres assigned to this well:

19. Proposed depth: 6,000' 20. Rotary or cable tools: Rotary

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.				

3. Lease Designation and Serial No. Federal #U-65969

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

7. Unit Agreement Name n/a

8. Firm or Lease Name Balcron Federal

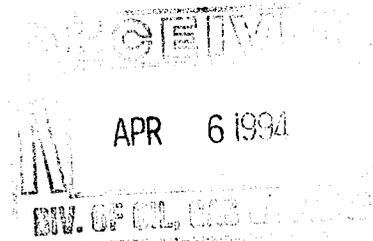
9. Well No. #44-33Y

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

11. 00, Sec., T., R., M., or Blk. and Survey or Area SE SE Sec. 33, T8S, R18E

12. County or Parish Uintah 13. State UTAH

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



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: Lobbie Schuman Title: Regulatory and Environmental Specialist

(This space for Federal or State office use)

APD NO. 43-047-32505 Approval Date: 6/14/94

Approved by: [Signature] Title: [Signature]

Conditions of approval, if any:

APPROVED BY: [Signature] DATE: 6/14/94

OF UTAH DIVISION OF OIL, GAS, AND MINING

WELL SPACING: 649-3-2

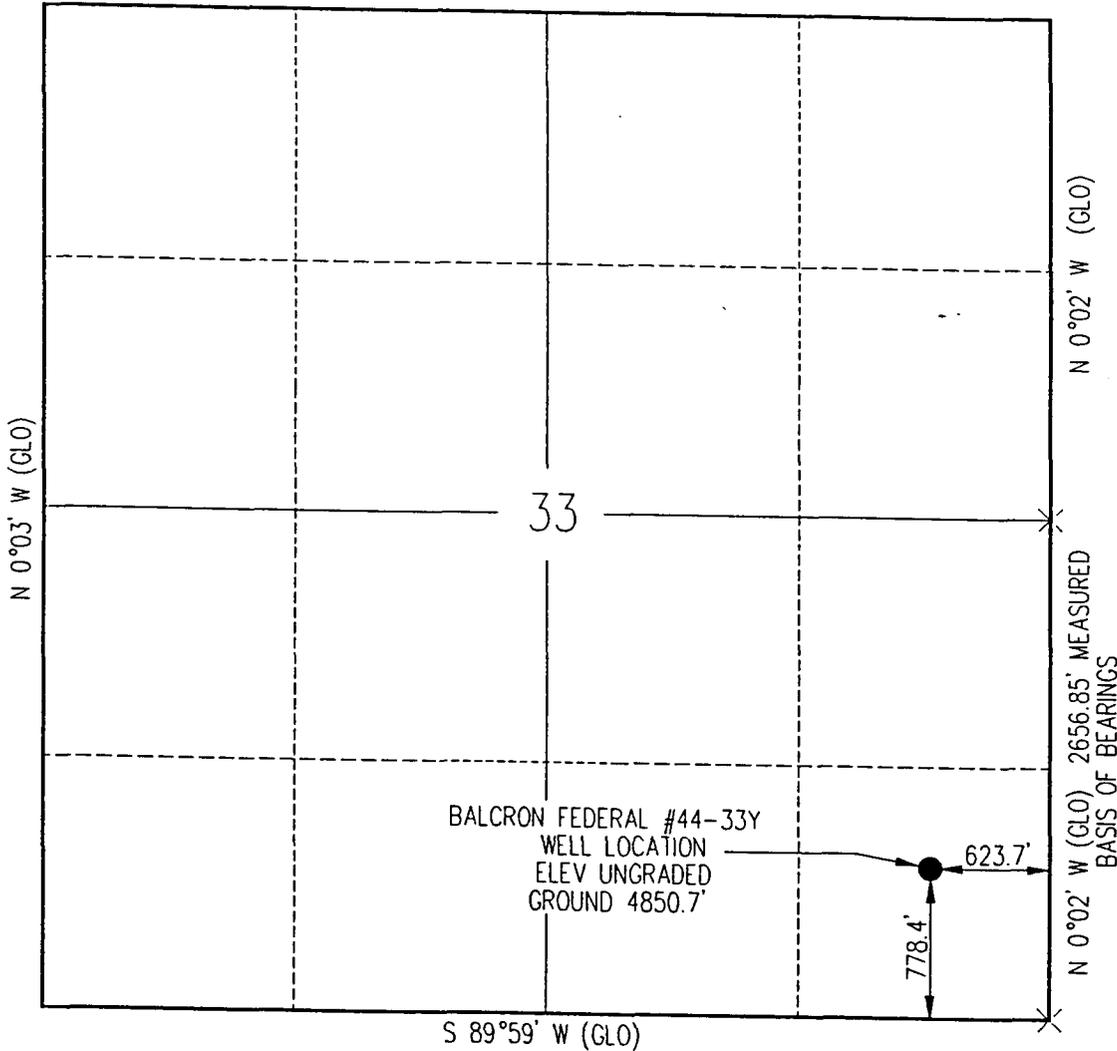
EXHIBIT "F"

T8S, R18E, S.L.B. & M.

S 89°58' W (GLO)

EQUITABLE RESOURCES ENERGY CO.

WELL LOCATION, BALCRON FEDERAL #44-33Y, LOCATED AS SHOWN IN THE SE 1/4 SE 1/4 OF SECTION 33, T8S, 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.

Shawn W. Strum
 REGISTERED LAND SURVEYOR
 REGISTRATION NO: 189377
 STATE OF UTAH

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: 44-33Y



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 TRIPLICATE*

CONFIDENTIAL

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

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1A. TYPE OF WORK

DRILL

DEEPEN

PLUG BACK

B. TYPE OF WELL

OIL WELL

GAS WELL

OTHER

SINGLE ZONE

MULTIPLE ZONE

2. NAME OF OPERATOR

Equitable Resources Energy Company, Balcron Oil Division

3. ADDRESS OF OPERATOR

P.O. Box 21017; Billings, MT 59104

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

SE SE Section 33, T8S, R18E 778.4' FSL, 623.7' FEL

At proposed prod. zone

5. LEASE DESIGNATION AND SERIAL NO.

U-65969

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.

#44-33Y

10. FIELD AND POOL, OR WILDCAT

8 Mile Flat North/Green River

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

Sec. 33, T8S, R18E

12. COUNTY OR PARISH

Uintah

13. STATE

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
6,000'

20. ROTARY OR CABLE TOOLS

Rotary

22. APPROX. DATE WORK WILL START*

May 1, 1994

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

GL 4850.7'

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 APPROVED BY THE STATE March 31, 1994
(This space for Federal or State office use)

PERMIT NO. _____

APPROVED BY _____ TITLE BY: _____
CONDITIONS OF APPROVAL, IF ANY:

OF UTAH DIVISION OF OIL, GAS, AND MINING
APPROVAL DATE: 6/13/94
DATE: _____
WELL SPACING: R649-2-3

*See Instructions On Reverse Side

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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 #44-33Y
SE SE Section 4-T8S-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 #44-33Y
SE SE SECTION 33, T8S, 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. 200' & 250' South.
- B. The Monument Federal #44-33Y is located 16 miles Southwest of Myton Utah in the SE1/4 SE1/4 Section 33, T8S, R18E, SLB&M, Uintah County, Utah. To reach the 44-33Y, 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 16.3 miles to a road intersection, turn left and continue 2.8 miles to proposed access road sign. Follow flags 450 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 450 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 8%
- 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.
- 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 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

There is no topsoil on this location.

The reserve pit will be on the West side of location. The flare pit will be located downwind of the prevailing wind direction on the West near corner #6. Access will be from the North near corner #7.

- 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.

. 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

Balcron Oil Well Prognosis

EXHIBIT "C"

Well Name BALCRON FEDERAL #44-33Y Exploratory Control Well STRFGHTR #24-3
 Location SESE SEC 33-T8S-R18E (778' ISL, 624' FEL) Development X Operator STARFIGHTER
 County UINTAH Field KB 4890
 State UTAH Section SESE 33 Section SESW 34
 Total Depth 6000 Township 8S Township 8S
 GL (Ung) 4850.7 EST. KB 4859 Range 18E Range 18E

Formation Tops	Prognosis		Sample Top		Control Well Datum	High/Low		Deviation
	Formation	Depth	Datum	Depth		Datum	Prog	
UINTA	<u>SURFACE</u>							
GREEN RIVER	<u>1519</u>	<u>3340</u>			<u>3330</u>			
HORSEBENCH SS	<u>2286</u>	<u>2573</u>			<u>2563</u>			
2ND GARDEN GULCH	<u>3988</u>	<u>871</u>			<u>861</u>			
Y-5 SAND (PAY)	<u>4517</u>	<u>342</u>			<u>332</u>			
YELLOW MARKER	<u>4582</u>	<u>277</u>			<u>267</u>			
DOUGLAS CREEK	<u>4751</u>	<u>108</u>			<u>98</u>			
R-2 SAND (PAY)	<u>4831</u>	<u>28</u>			<u>NP</u>			
2ND DOUGLAS CREEK	<u>4985</u>	<u>-126</u>			<u>-136</u>			
G-1 SAND (PAY)	<u>5053</u>	<u>-194</u>			<u>-204</u>			
CARBONATE MARKER	<u>5537</u>	<u>-678</u>			<u>-688</u>			
B-1 SAND (PAY)	<u>5603</u>	<u>-744</u>			<u>-754</u>			
UTELAND BUTTE LS	<u>5931</u>	<u>-1072</u>			<u>-1082</u>			
TD	<u>6000</u>							

Samples
50' FROM 1450' TO 4100'
10' FROM 4100' TO TD

DST,s
 DST #1 NONE
 DST #2 _____
 DST #3 _____
 DST #4 _____

Wellsite Geologist
 Name: _____
 From: _____ to: _____
 Address: _____
 Phone # _____ wk.
 _____ hm.
 Fax # _____

Logs
DLL FROM SURF CSG TO TD
LDT/CNL FROM 3700' TO TD

Cores
 Core #1 NONE
 Core #2 _____
 Core #3 _____
 Core #4 _____

Mud Logger/Hot Wire
 Company: _____
 Required: (Yes/No) YES
 Type: TWO MAN
 Logger: _____
 Phone # _____
 Fax # _____

Comments: _____

Report To: 1st Name: DAVE BICKERSTAFF Phone # (406)259-7860 wk. 245-2261 hm.
 2nd Name: _____ Phone # " wk. 248-7026 hm.
Prepared By: K.K.REINSCHMIDT 3/4/94 Phone # _____ wk. _____ hm.

DRILLING PROGRAM

WELL NAME: Balcron Federal #44-33Y PROSPECT/FIELD: Monument Butte Area
LOCATION: SE SE Sec. 33 Twn. 8S Rge. 18E
COUNTY: Uintah STATE: Utah

TOTAL DEPTH: 6000

HOLE SIZE INTERVAL

=====

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

CASING INTERVAL CASING

=====

STRING TYPE	FROM	TO	SIZE	WEIGHT	GRADE
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.

BALCRON OIL CO.

Operator: BALCRON OIL	Well Name: Balcron Fed. 44-33Y
Project ID:	Location: Uintah Co. Utah

Design Parameters:

Mud weight (8.50 ppg) : 0.442 psi/ft
 Shut in surface pressure : 0 psi
 Internal gradient (burst) : 0.442 psi/ft
 Annular gradient (burst) : 0.000 psi/ft
 Tensile load is determined using air weight
 Service rating is "Sweet"

Design Factors:

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

Length (feet)	Size (in.)	Weight (lb/ft)	Grade	Joint	Depth (feet)	Drift (in.)	Cost		
1	6,000	5-1/2"	15.50	K-55	ST&C	6,000	4.825		
	Load (psi)	Collapse Strgth (psi)	S.F.	Burst Load (psi)	Min Int Strgth (psi)	Yield S.F.	Tension Load (kips)	Strgth (kips)	S.F.
1	2649	4040	1.525	2649	4810	1.82	93.00	222	2.39 J

Prepared by : McCoskery, Billings, MT
 Date : 03-31-1994
 Remarks :

Minimum segment length for the 6,000 foot well is 1,500 feet.
 The mud gradient and bottom hole pressures (for burst) are 0.442 psi/ft and
 2,649 psi, respectively.

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

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

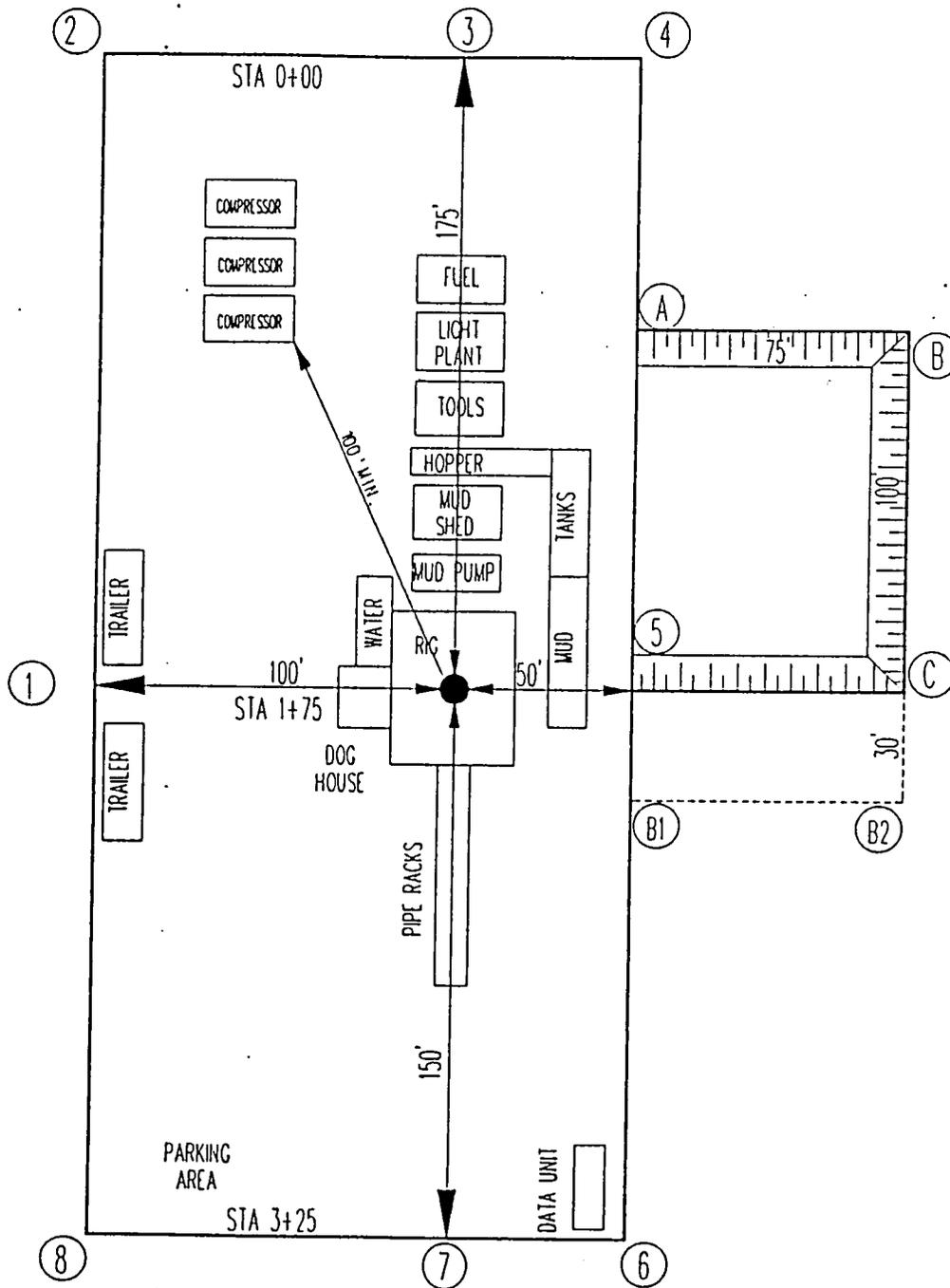
We anticipate that none of the hazardous chemicals in quantities of 10,000 pounds or more will be associated with these operations.

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

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

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

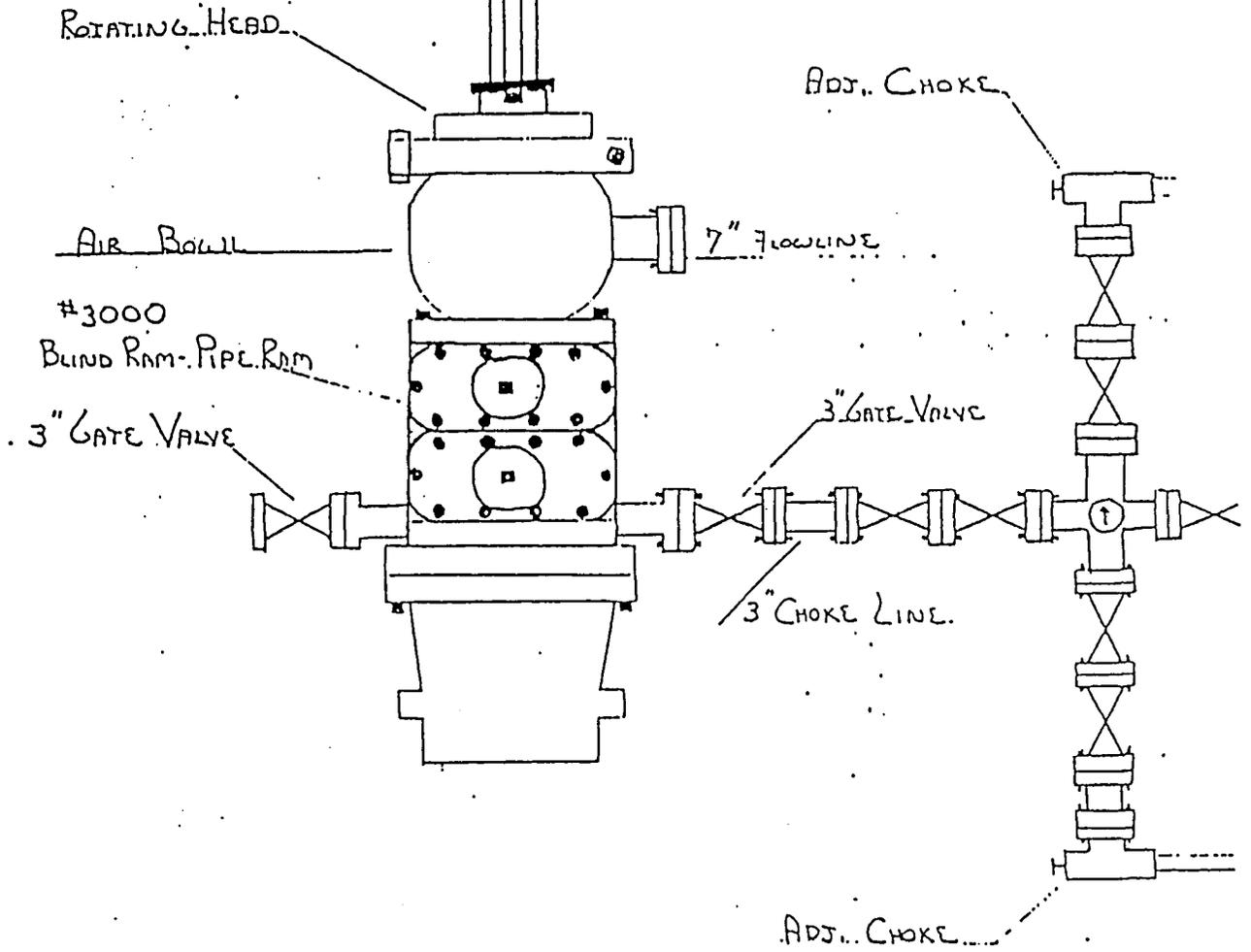
EQUITABLE RESOURCES ENERGY CO. WELLSITE LAYOUT



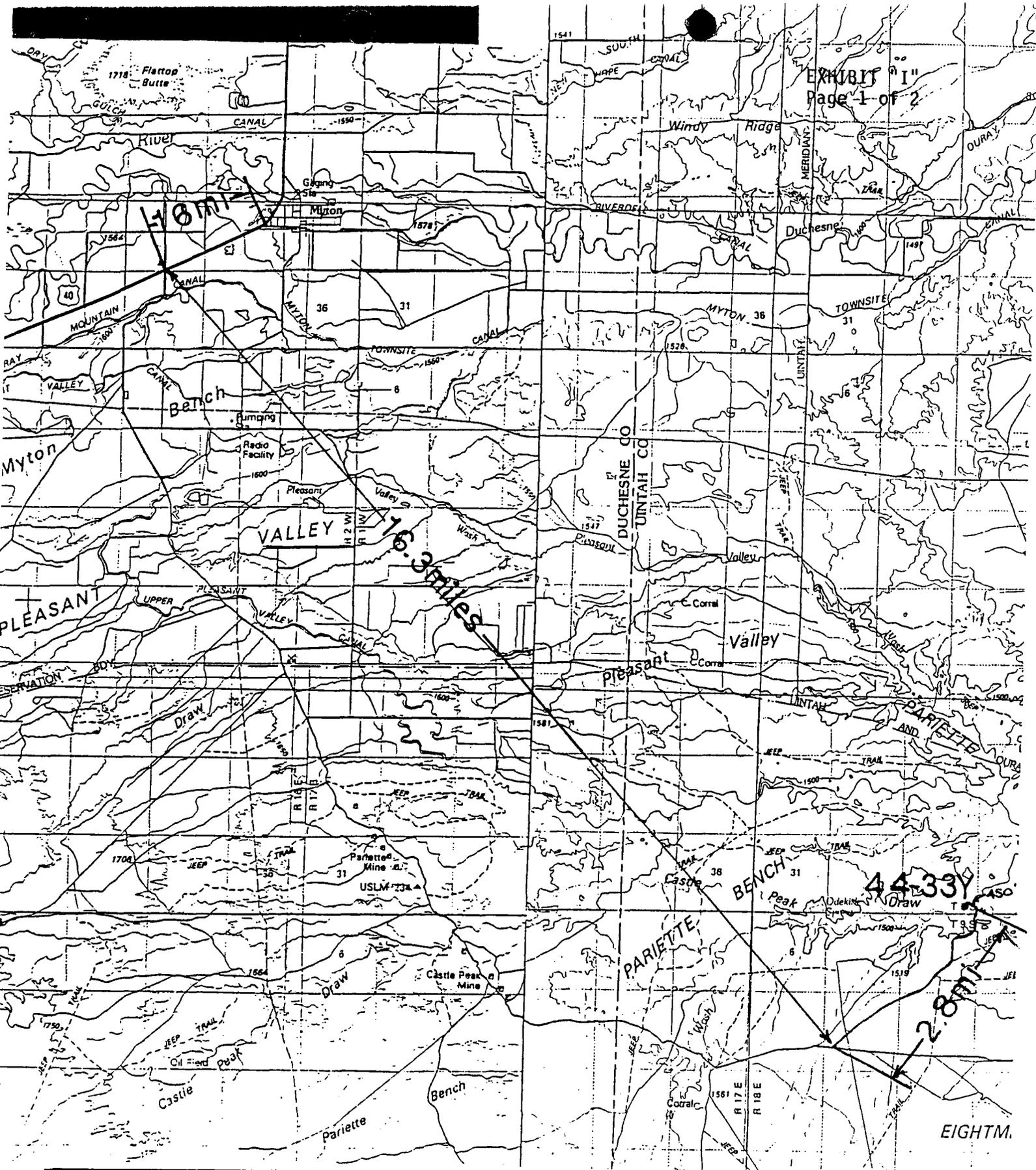
TRI-STATE
LAND SURVEYING, INC.
38 WEST 100 NORTH, VERNAL, UTAH 84078
801-781-2501

UNION DRILLING RIG #17

Hex Kelly

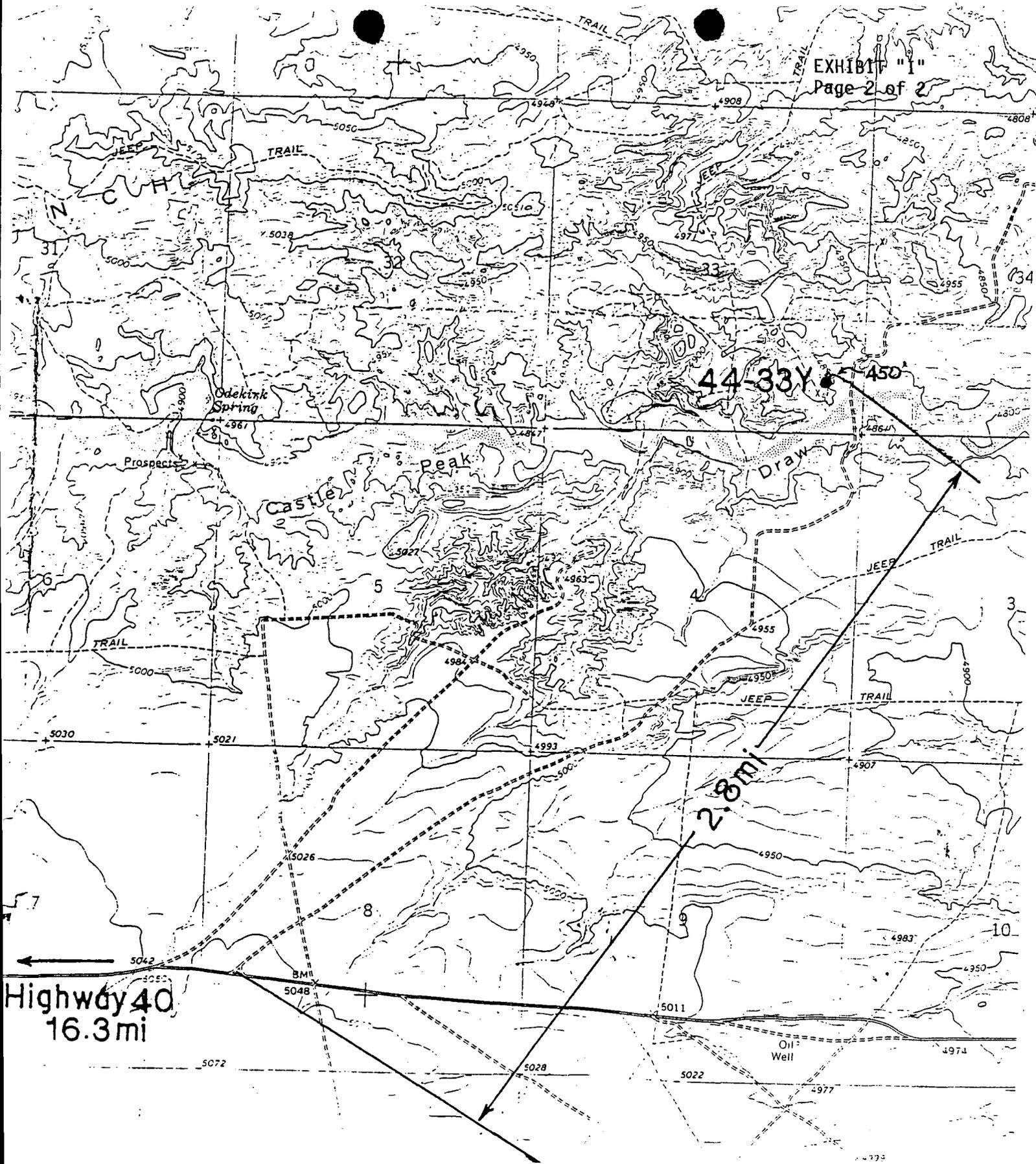


#3000 STACK



EQUITABLE RESOURCES ENERGY CO.
FEDERAL #44-33Y
MAP "A"





EQUITABLE RESOURCES ENERGY CO.
FEDEPAL #44-33Y
MAP "E"



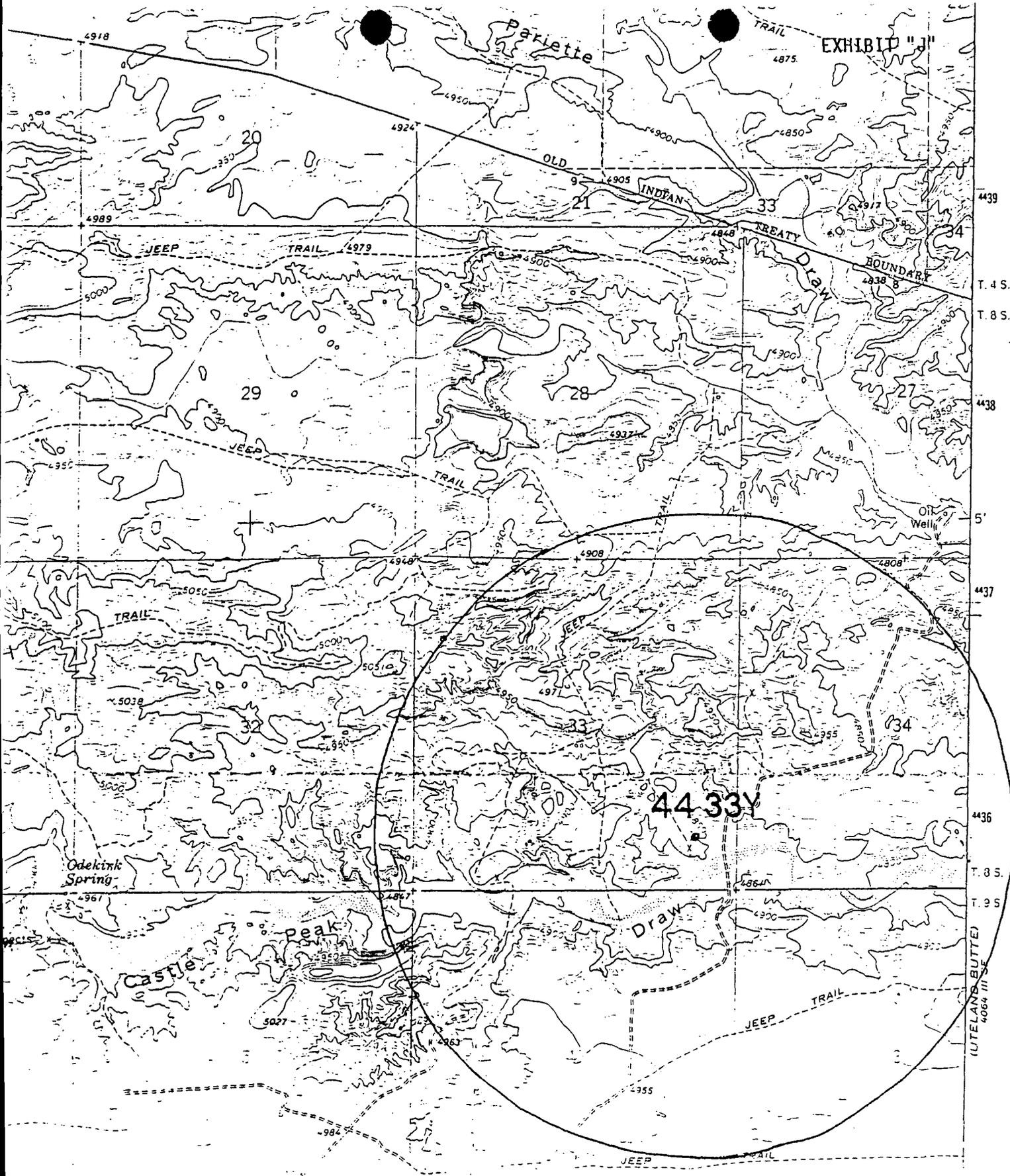
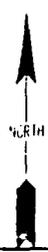


EXHIBIT "J"

44-33Y

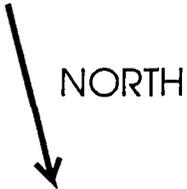


EQUITABLE RESOURCES ENERGY CO.
 FEDERAL #44-33Y
 MAP "C"

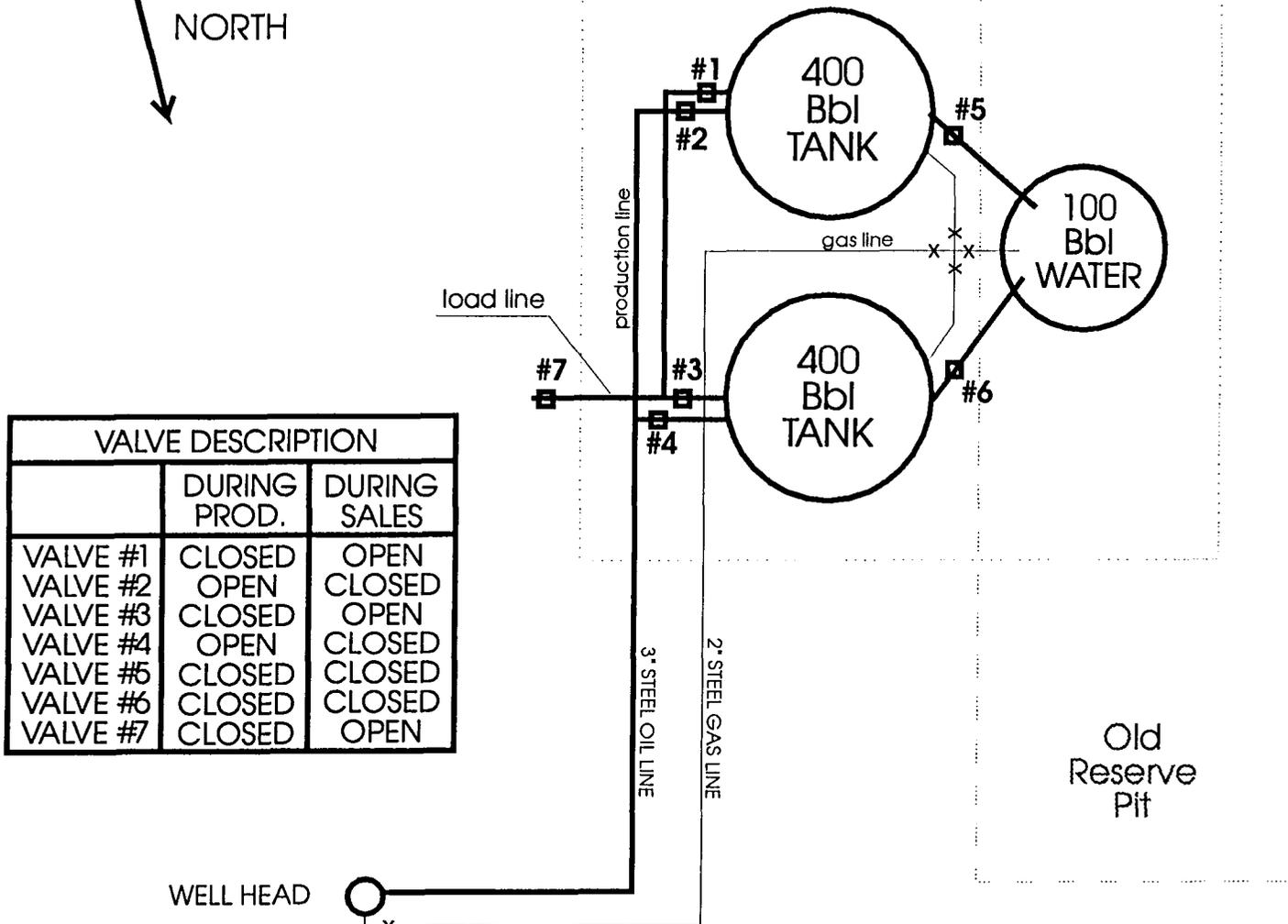
TRI-STATE
 LAND SURVEYING, INC.
 53 WEST 100 S. PM. DENVER, UTAH 84015
 801-781-2501

Equitable Resources Energy Company EXHIBIT "K"
 Balcron Federal 44-33Y
 Proposed Production Facility Diagram

Balcron Federal 44-33Y
 SE SE Sec. 33, T8S, R18E
 Uintah County, Utah
 Federal Lease #U-65969
 778' FSL, 624' FEL



DIKE



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

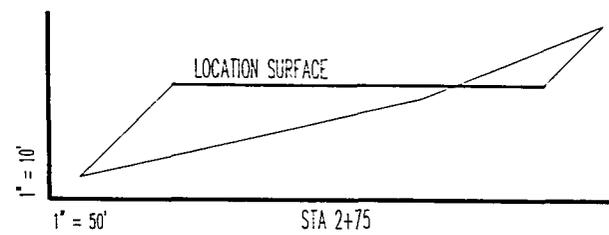
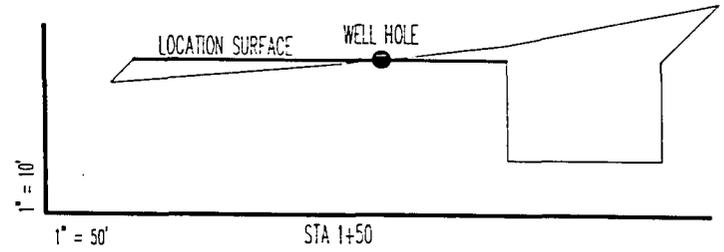
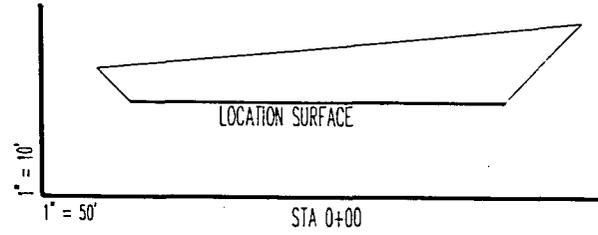
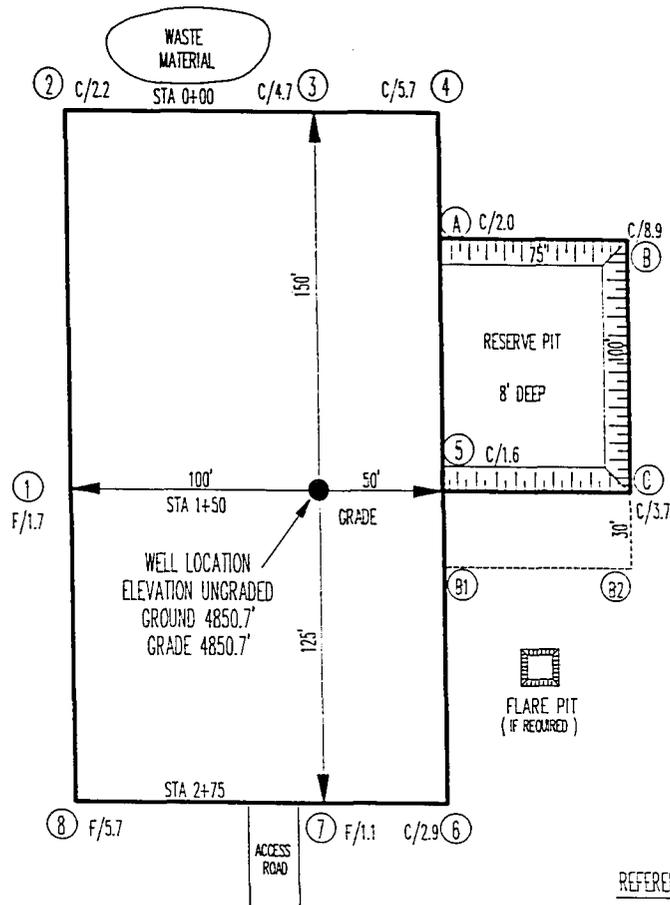
Old Reserve Pit

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 #44-33Y



REFERENCE POINTS

200.0' SOUTH 4859.4'
250.0' SOUTH 4859.9'

APPROXIMATE YARDAGE

CUT = 3100' Cu Yds
FILL = 904' Cu Yds
PIT = 2222.0' Cu Yds

NOTE: CAN'T BALANCE DIRT
WITHOUT PUTTING PIG ON FILL

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

FILENAME 44-33Y

EXHIBIT "L"

WORKSHEET
APPLICATION FOR PERMIT TO DRILL

APD RECEIVED: 04/06/94

API NO. ASSIGNED: 43-047-32505

WELL NAME: BALCRON FEDERAL #44-33Y
OPERATOR: BALCRON OIL COMPANY (N9890)

PROPOSED LOCATION:
SESE 33 - T08S - R18E
SURFACE: 0778-FSL-0624-FEL
BOTTOM: 0778-FSL-0624-FEL
UINTAH COUNTY
EIGHT MILE FLAT NORTH FIELD (590)

LEASE TYPE: FED
LEASE NUMBER: U-65969

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

RECEIVED AND/OR REVIEWED:

Y Plat
Y Bond: Federal State Fee
(Number 5547188)
N Potash (Y/N)
N Oil shale (Y/N)
Y Water permit
(Number 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: _____

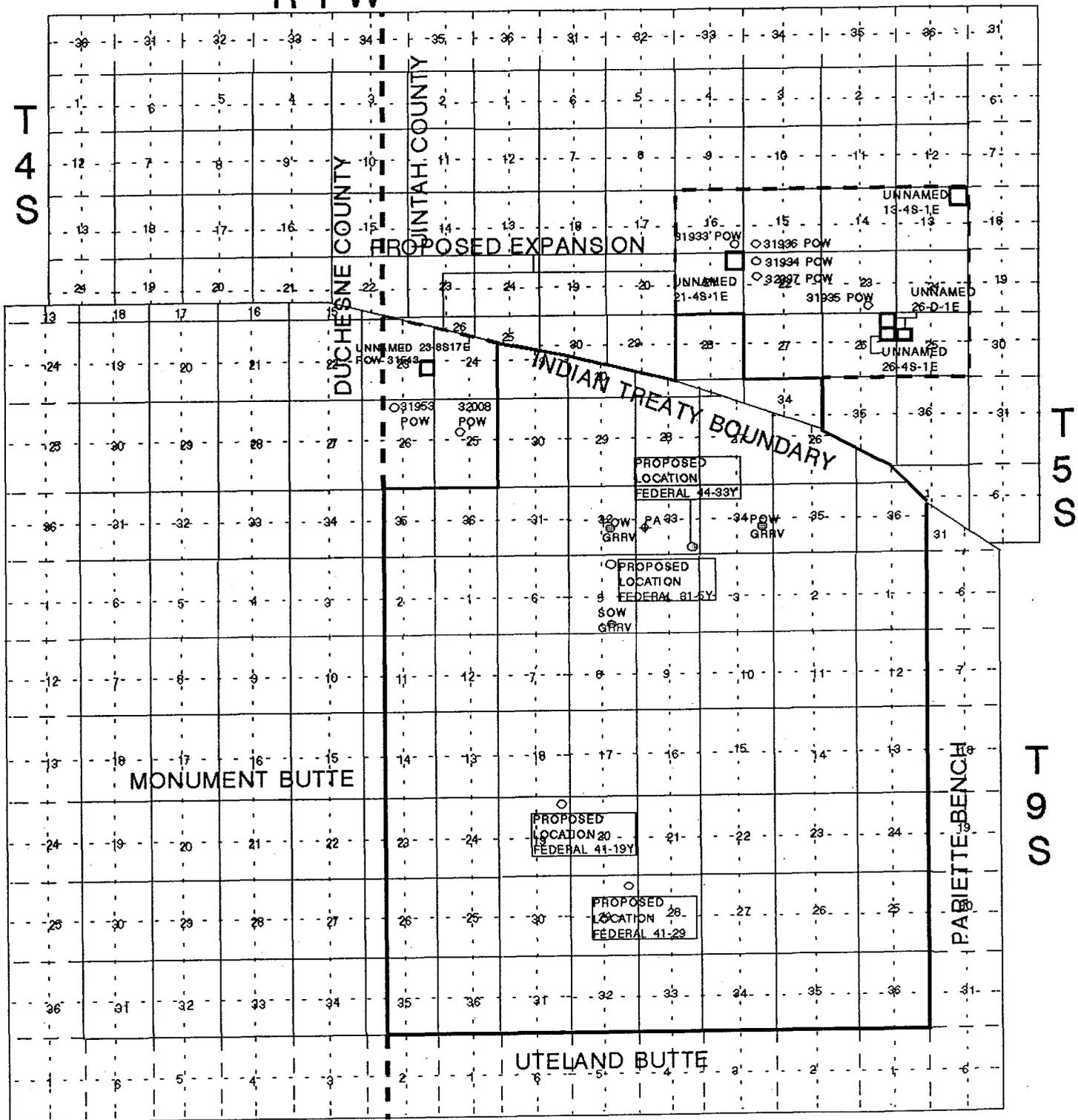
STIPULATIONS: _____

CONFIDENTIAL
PERIOD
EXPIRED
ON 11-3-95

EIGHT MILE FLAT NORTH

R 1 W

R 1 E



T 4 S

T 5 S

T 9 S

R 17 E

R 18 E

UINTAH COUNTY



**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 25 1994
BUREAU OF LAND MANAGEMENT

✓

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

43-047-32505

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'

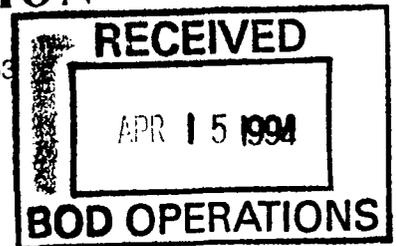
/rs



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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Methodology	6
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LIST OF MAPS OF THE PROJECT AREA

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MAP 3: Cultural Resource Survey of two Proposed Well Locations in the Castle Peak Draw Locality of Uintah County, Utah	4

GENERAL INFORMATION

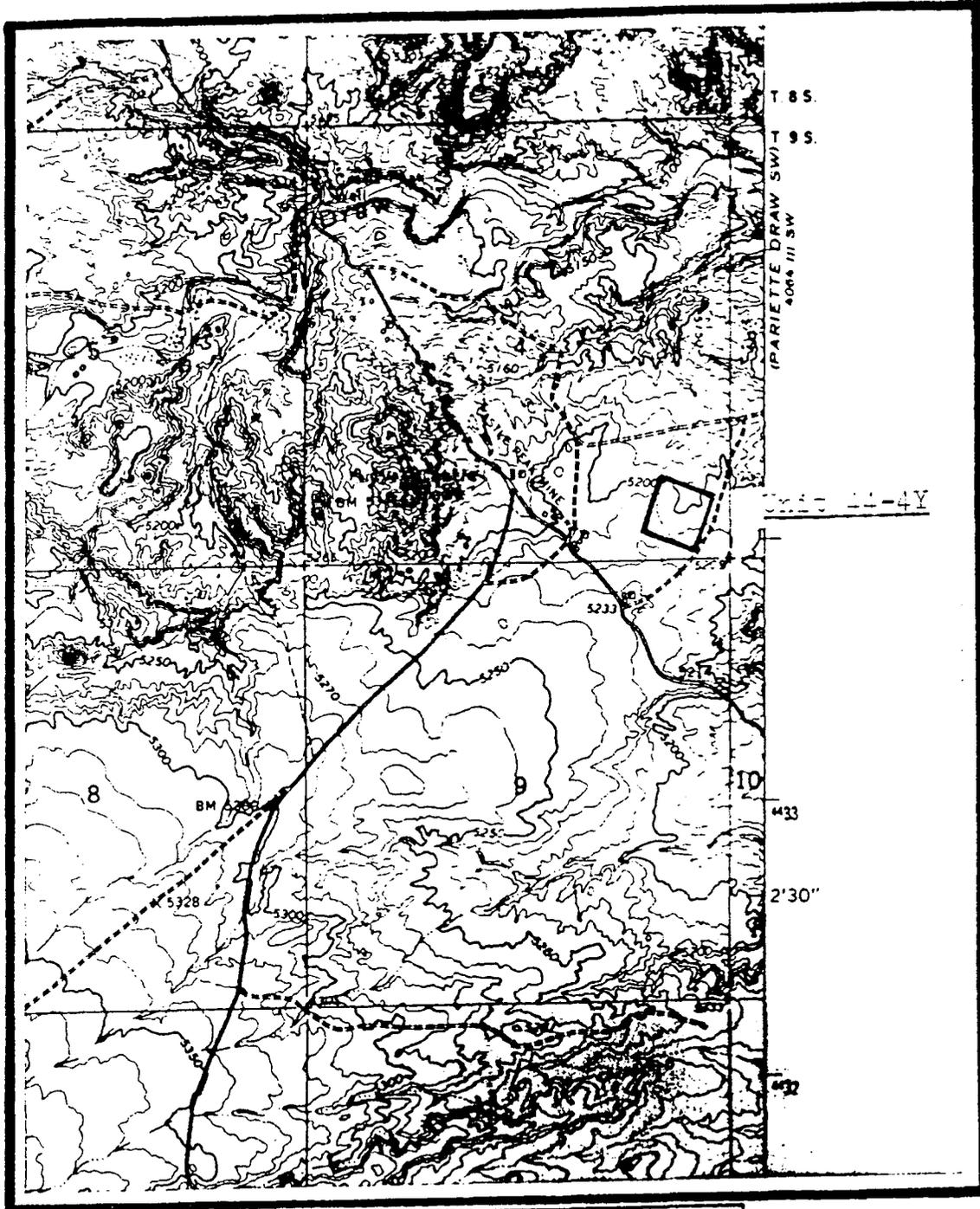
On April 7, 1994, AERC archaeologists F.R. Hauck, Glade Hadden and Walter Lenington conducted an intensive cultural resource evaluation for Balcron Oil Company of Billings, Montana. This examination involved the four proposed well locations and associated access roads in the Castle Peak Draw and Eightmile 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)

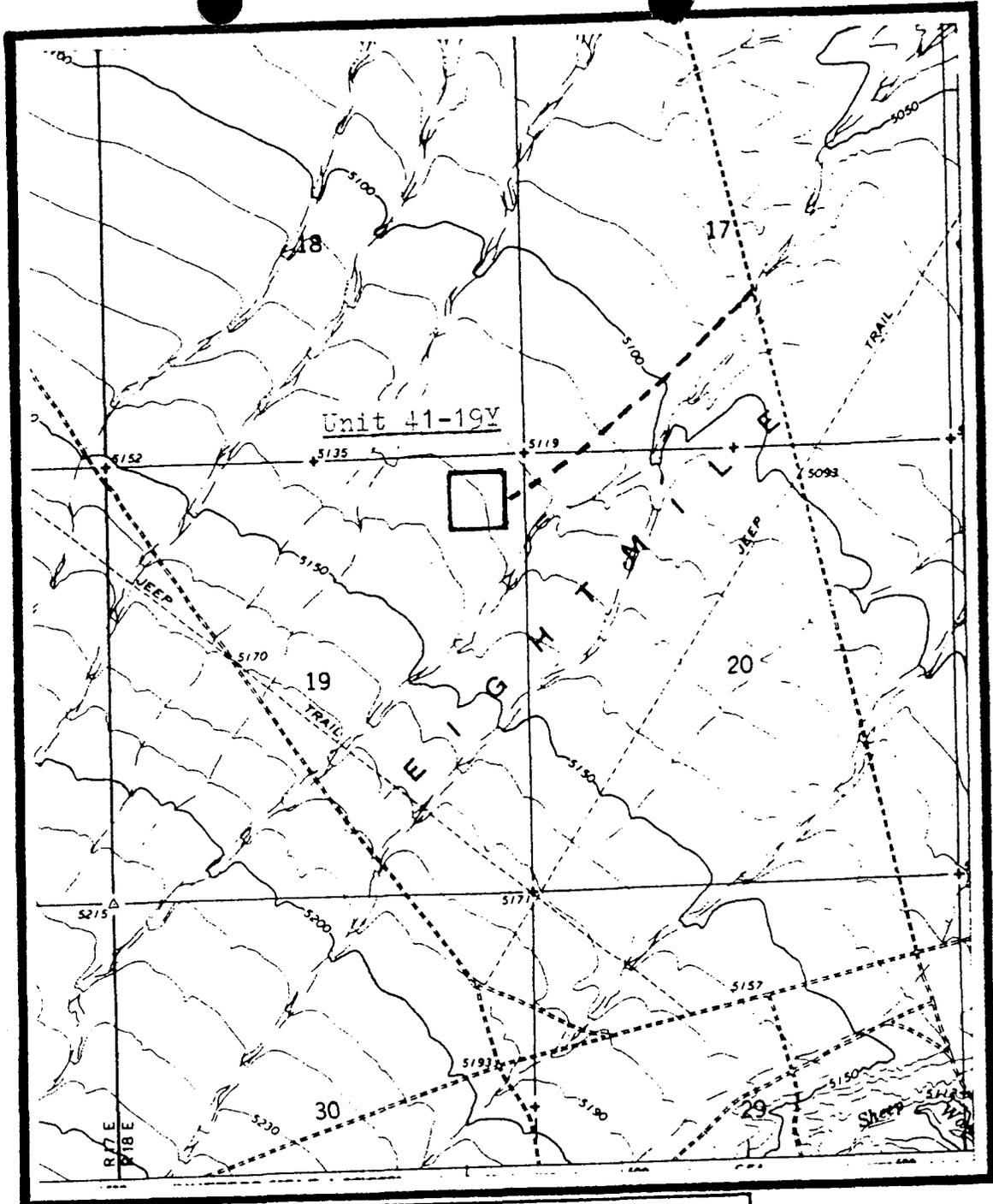


Project: BLCR-94-2
Series: Uinta Basin
Date: 4-8-94

Scale: 1:25000



AERC



T. 9 South
 R. 18 East
 Meridian: SE
 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 

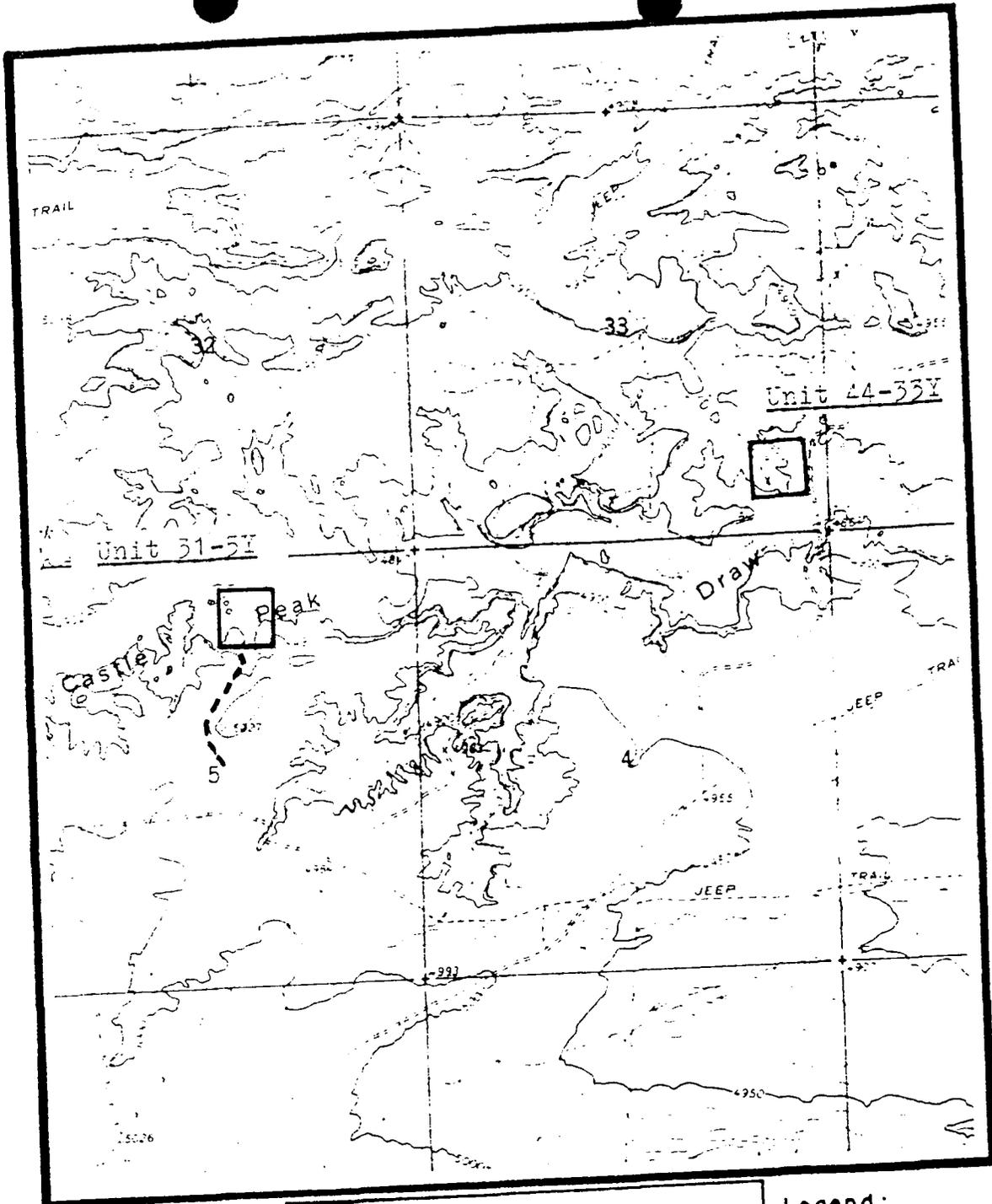


Project: BLCR-94-2
Series: Uinta Basin
Date: 4-8-94

Scale: 1:24000



AERL



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



Project: BLCR-94-2
 Series: Uinta Basin
 Date: 4-8-94

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

Scale: 1:24000

Legend:
 10 Acre
 Survey
 Area 
 Access
 Route 



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.

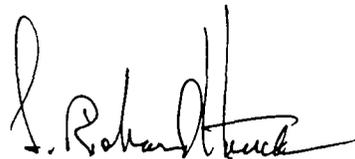
No diagnostic isolated artifacts were observed and recorded during the evaluation.

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 1 9 9 4 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 10. Inventory Type I
and/or
Definable Acres Surveyed R = Reconnaissance
and/or I = Intensive
Legally Undefinable 2 0 S = Statistical Sample
Acres Surveyed

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:

[Handwritten Signature]

Field
Supervisor:

[Handwritten Signature]

UT 8100-3 (2/85)

RECEIVED

APR 28 1994

U.S. GEOLOGICAL SURVEY

BALCRON OIL

Balcron Federal #44-33Y

SE SE Section 33, T8S, R18E, SLB&M

Uintah County, Utah

43-047-32505

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 #44-33Y, SE SE Section 33,
T8S, R18E, SLB&M, UINTAH COUNTY, UTAH.

Description of Geology and Topography-

This well location is 9 miles south and 9 miles east of Myton, Utah (15 miles south and 2 miles west of Ft. Duchesne, Utah). The area is a badlands area along Castle Peak Draw with extensive exposures of Uinta Formation. The proposed access road turns west off an existing road several hundred yards north of where the existing road crosses Castle Peak Draw. The proposed road then goes northwest along the base of a small hill and curves west and southwest as it climbs up onto a shelf where the wellpad is to be located. The rock exposures are composed of tan-green sandstone, maroon to light gray-green mudstone and dark brown sandstone interbedded. The ridge top above the proposed wellpad is flat and composed of light tan to green platy sandstone.

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 -

There are several turtles eroding out on the north slope along the proposed road just before it turns south up onto the well pad. There are also few large mammal bone fragments and more turtle shell northwest of the two turtles just mentioned. There are a few scattered turtle shell fragments here and there around the wellpad. Southwest of the wellpad on the ridge is an old prospect. Some plant stem impressions were found in debris at this spot.

The most critical fossil material found are fragments of what appear to be the back of a medium to large size mammal skull. This is located approximately 120 feet northeast at 36 degrees from the center stake. Also there are crocodilian bone fragments eroding out of the hill about 125 feet northwest at 327 degrees from the center stake.

Other fossil material was seen in the immediate area of the proposed road and well pad indicating a high potential for encountering other fossils during construction.

Recommendations-

The last part of the proposed access road and the proposed wellpad seem to be in a fairly fossiliferous area and does contain some important material (possible mammal skull). My first recommendation would be to move the proposed wellpad northwest up on to the ridge top, if possible, to avoid the fossil area. There is already a road to the ridge top.

If the proposed well cannot be moved, then I would recommend excavating the possible mammal skull and crocodilian material. At this point it is hard to tell all that might be involved in these excavations. If this material is limited and fragmental, a day or two work might take care of it. If it is more extensive, it could take much longer. Any construction in the presently proposed area would also need to be monitored during construction.

It is highly recommended that the well location be moved if possible.

Alden H. Hamblein
Paleontologist

Date April 13, 1994

PALEONTOLOGY LOCALITY Data Sheet		Page 1 of 1 plus map																			
		State Local. No. 42 UN 6 7/VP																			
		Agency No.																			
		Temp. No BALCRON FEDERAL #44-33Y																			
1. Type of locality				Plant		X		Vertebrate		X		Trace		Other _____							
2. Formation: UINTA		Horizon: "B"						Geologic Age: Late Eocene													
3. Description of Geology and Topography: The area is a badlands area along Castle Peak Draw with extensive exposures of Uinta Formation. The proposed access road turns west off an existing road several hundred yards north of where the existing road crosses Castle Peak Draw. The proposed road then goes northwest along the base of a small hill and curves west and southwest as it climbs up onto a shelf where the wellpad is to be located. The rock exposures are composed of tan-green sandstone, maroon to light gray-green mudstone and dark brown sandstone interbedded. The ridge top above the proposed wellpad is flat and composed of light tan to green platy sandstone. 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 9 mile east of Myton, Utah (15 miles south and 2 miles west of Ft. Duchesne, Utah).																					
5. Map Ref.		USGS Quad		Pariette Draw SW, UT				Scale		7.5		Min		Edition		1964					
center		of		SE1/4		of		SE1/4		of Sectn		33		T		8 S R 17E		Meridin		SLB	
6. State: UTAH				County: UINTAH COUNTY				BLM/FS District: VERNAL- DIAMOND MT.													
7. Specimens Collected and Field Accession No. NONE																					
8. Repository:																					
9. Specimens Observed and Disposition: There are several turtles eroding out on the north slope along the proposed road just before it turns south up onto the well pad. There are also few large mammal bone fragments and more turtle shell northwest of the two turtles just mentioned. There are a few scattered turtle shell fragments here and there around the wellpad. Southwest of the wellpad on the ridge is an old prospect. Some plant stem impressions were found in debris at this spot. The most critical fossil material found are fragments of what appear to be the back of a medium to large size mammal skull. This is located approximately 120 feet northeast at 36 degrees from the center stake. Also there are crocodilian bone fragments eroding out of the hill about 125 feet northwest at 327 degrees from the center stake. Other fossil material was seen in the immediate area of the proposed road and well pad indicating a high potential for encountering other fossils during construction.																					
10. Owner:		Private		State		BLM		X		US		FS		NPS		IND		MIL		OTHR	

11. Recommendations for Further Work or Mitigation: The last part of the proposed access road and the proposed wellpad seem to be in a fairly fossiliferous area and does contain some important material (possible mammal skull). My first recommendation would be to move the proposed wellpad northwest up on to the ridge top, if possible, to avoid the fossil area. There is already a road to the ridge top.

If the proposed well cannot be moved, then I would recommend excavating the possible mammal skull and crocodilian material. At this point is hard to tell what all might be evolved in these excavations. If this material is limited and fragmental, a day or two work might take care of it. If it is more extensive, it could take much longer. Any construction in the presently proposed area would also need to be monitored during construction.

It is highly recommended that the well location be moved if possible.

12. Type of Map Made by Recorder:

13. Disposition of Photo Negatives:

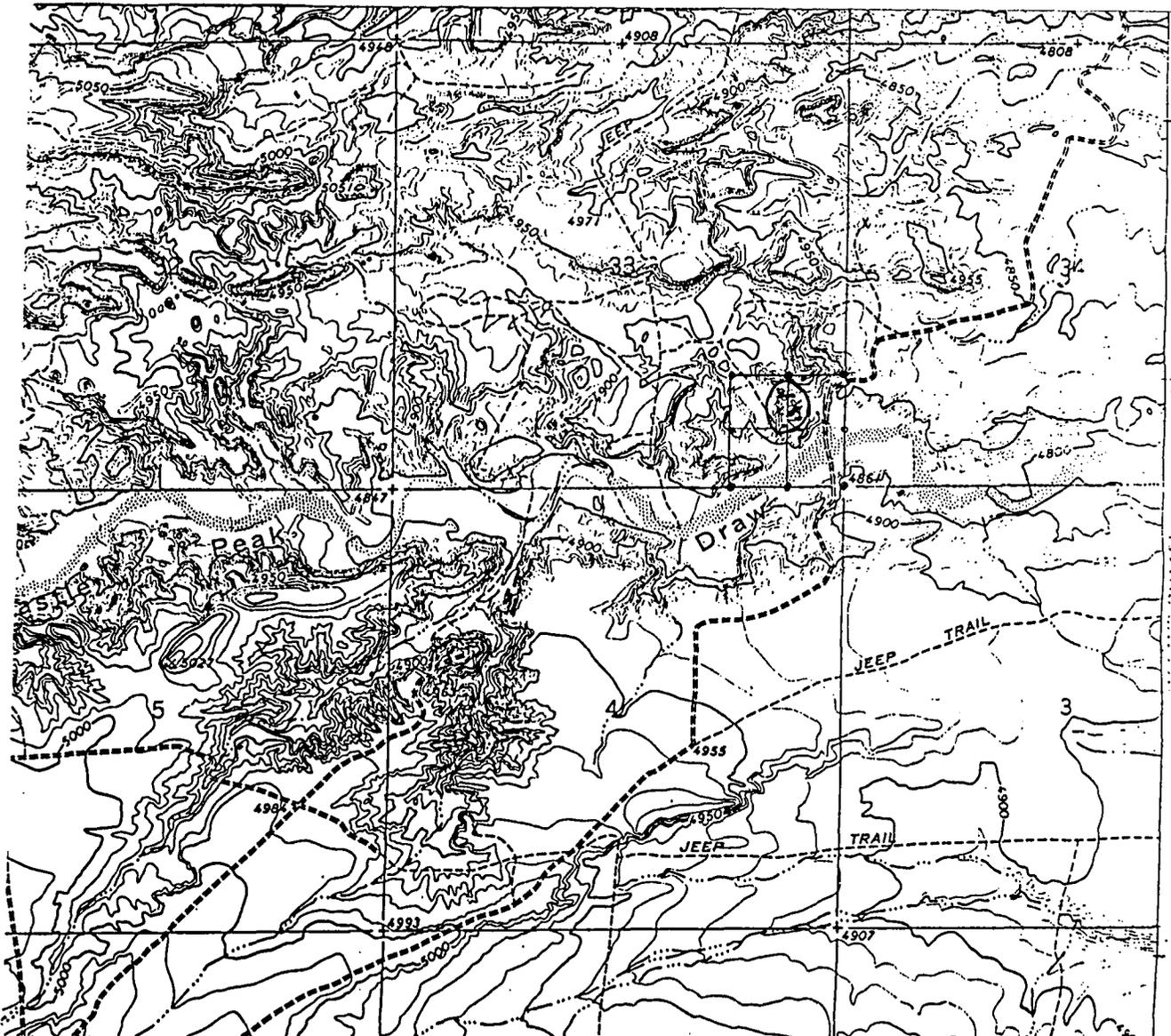
14. Published References: Hamblin, A. H., 1992, Paleontology Report on the Monument Butte EA Study Area, for Mariah Associates, Larimie, Wyoming.

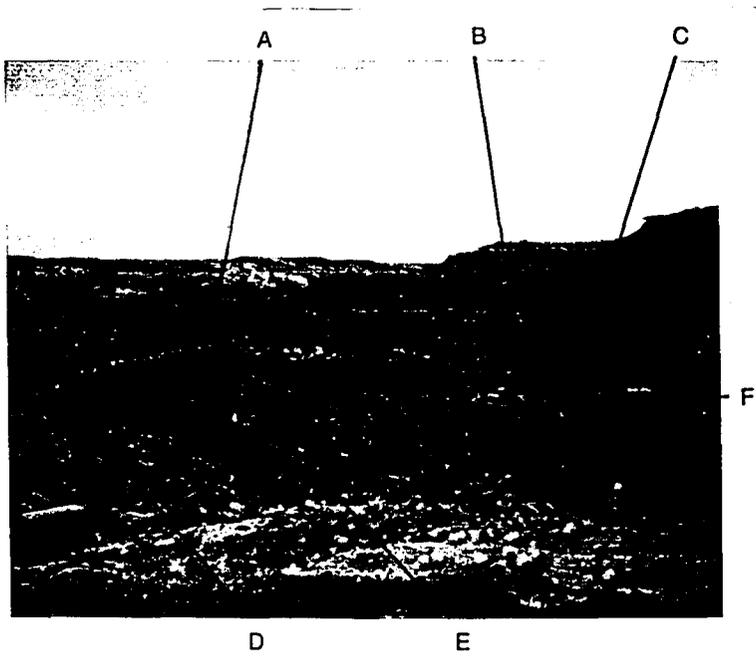
15. Remarks:

16. Sensitivity:	Critical	?	Significant	X	Important	Insignificant
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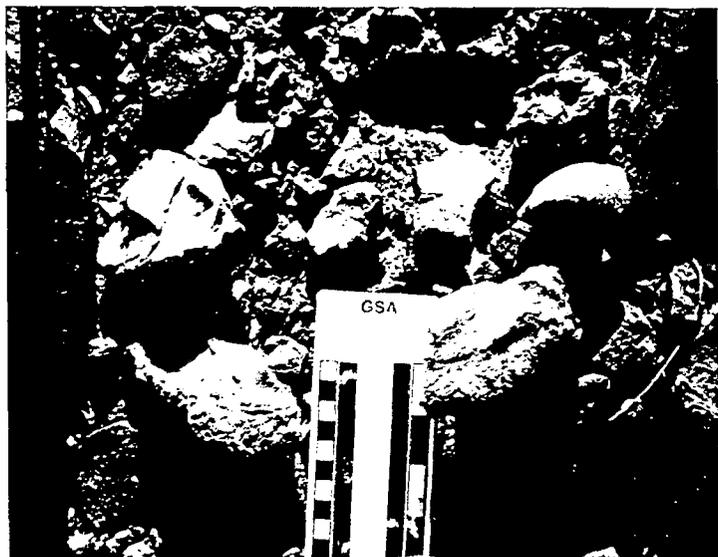
17. Recorded by: Alden Hamblin,
Paleontologist

Date: April 4, 1994

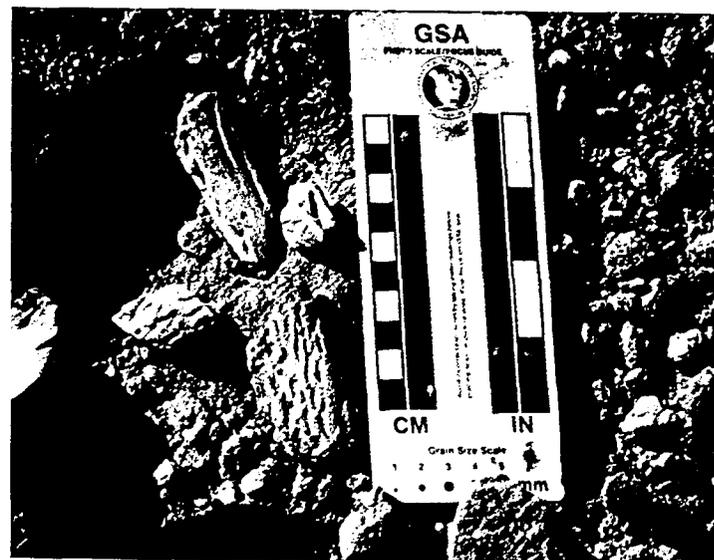




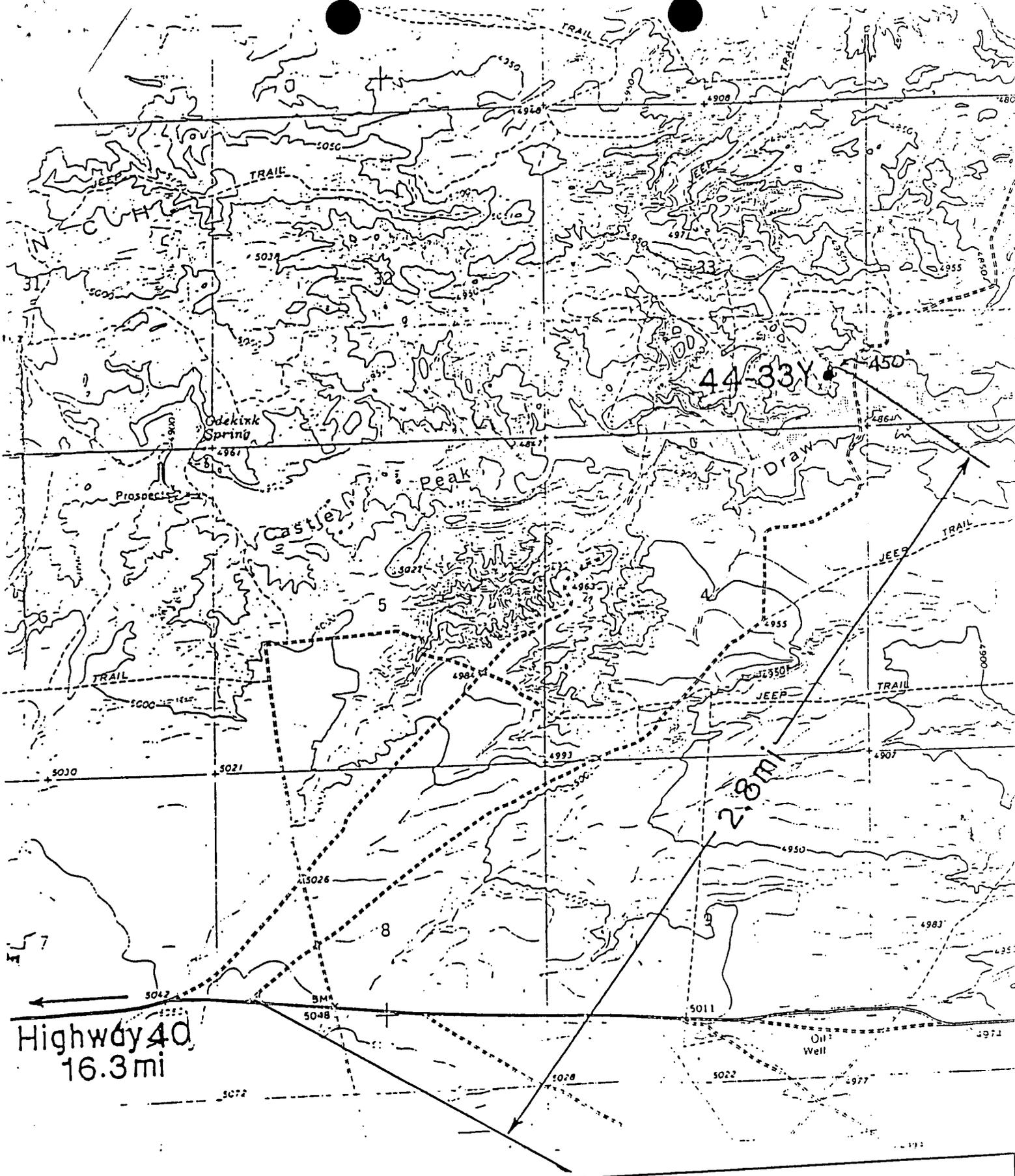
- A - Mammal Skull
- B - Plant stem impressions
- C - Crocodile
- D - Turtle Shell
- E - Turtle Shell
- F - Mammal Bone Fragments and Turtle Fragments



A - Mammal Skull Fragments



C - Crocodile Bone Fragments



Highway 40
16.3 mi

2.8 mi

44-33X

EQUITABLE RESOURCES ENERGY CO.
FEDERAL #44-33X
MAP "E"

TRI-STATE
LAND SURVEYING, INC.
501-781-2501





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 #44-33Y Well, 778' FSL, 624' FEL, SE SE, Sec. 33, T. 8 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.

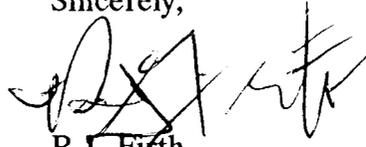
Page 2

Equitable Resources Energy Company
Balcron Federal #44-33Y 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 43-047-32505.

Sincerely,

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

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 #44-33Y Well, 778' FSL, 624' FEL, SE SE, Sec. 33, T. 8 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.
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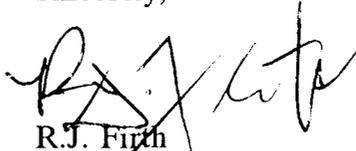


Page 2
Equitable Resources Energy Company
Balcron Federal #44-33Y Well
June 14, 1994

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Sincerely,



R.J. Firth
Associate Director

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



EQUITABLE RESOURCES
ENERGY COMPANY

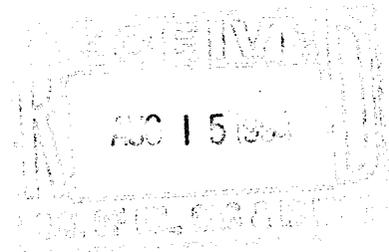
BALCRON OIL DIVISION

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

CONFIDENTIAL

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 94-334

Gentlemen:

*Sec 33 T 85 R 18E
43-047-32505*

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

7. If Unit or CA, Agreement Designation

See attached listing

1. Type of Well

- Oil Well Gas Well Other

8. Well Name and No.

See attached listing

2. Name of Operator

Equitable Resources Energy Company, Balcron Oil Division

9. API Well No.

See attached listing

3. Address and Telephone No.

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

10. Field and Pool, or Exploratory Area

See attached listing*

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

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
<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>change in cement program</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

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 _____

Title _____

Date _____

Conditions of approval, if any:

Have approved APDs but not yet drilled

Balcron Monument Federal #14-15
SW SW Section 15, T9S, R16E
Duchesne County, Utah
771.5' FSL, 543.3' FWL
FLS #UTU-72107
Monument Butte Field
API #43-013-31381

Balcron Monument Federal #14-4
SW SW Section 4, T9S, R16E
Duchesne County, Utah
719' FSL, 607' FWL
FLS #U-73086
Monument Butte Field
API #43-013-31430

Balcron Monument Federal #34-7
SW SE Section 7, T9S, R17E
Duchesne County, Utah
810' FSL, 1736' FEL
FLS #UTU-72106
Monument Butte Field
API #43-013-31426

Balcron Monument Federal #42-18
SE NE Section 18, T9S, R17E
Duchesne County, Utah
1800' FNL, 800' FEL
FLS #UTU-72106
Monument Butte Field
API #43-013-31433

Balcron Federal #24-4Y
SE SW Section 4, T9S, R16E
Duchesne County, Utah
710' FSL, 2031' FWL
FLS #U-64379
Monument Butte Field
API #43-013-31412

Balcron Federal #44-4Y
SE SE Section 4, T9S, R17E
660' FSL, 660' FEL
Duchesne County, Utah
Monument Butte Field
FLS #U-65967
Monument Butte Field
API #43-013-31452

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

Have approved APDs but not yet drilled (continued)

Balcron Monument Federal #43-15J
 NE SE Section 15, T9S, R16E
 Duchesne County, Utah
 1777.9' FSL, 788.4' FEL
 FLS #U-017985
 Monument Butte Field
 Jonah Unit
 API #43-013-31423

Do not yet have approved APDs (but they have been submitted)

Balcron Monument Federal #12-25 43-047-32526
 SW NW Section 25, T8S, R17E
 1486' FNL, 875.7' FWL
 Uintah County, Utah
 Field: Undesignated
 FLS #U-67845

Balcron Monument Federal #13-25 43-047-32527
 NW SW Section 25, T8S, R17E
 2253.6' FSL, 483.9' FWL
 Uintah County, Utah
 Field: Undesignated
 FLS #U-67845

Balcron Monument Federal #21-25 43-047-32528
 NE NW Section 25, T8S, R17E
 747.6' FNL, 1963.6' FWL
 Uintah County, Utah
 Field: Undesignated
 FLS #U-67845

Balcron Monument Federal #23-25 43-047-32529
 NE SW Section 25, T8S, R17E
 1926.8' FSL, 2138.6' FWL
 Uintah County, Utah
 Field: Undesignated
 FLS #U-67845

Balcron Monument Federal #31-25 43-047-32530
 NW NE Section 25, T8S, R17E
 660' FNL, 1980' FEL
 Uintah County, Utah
 Field: Undesignated
 FLS #U-67845

Do not yet have approved APDs (but they have been submitted)
(continued)

Balcron Monument Federal #32-25 43-047-32524
 SW NE Section 25, T8S, R17E
 1980' FNL, 1980' FEL
 Uintah County, Utah
 Field: Undesignated
 FLS #U-67845

Balcron Monument Federal #33-25 43-047-32525
 NW SE Section 25, T8S, R17E
 2096.9' FSL, 2067.3' FEL
 Uintah County, Utah
 Field: Undesignated
 FLS #U-67845

Balcron Monument Federal #42-26 43-047-32531
 SE NE Section 26, T8S, R17E
 2100' FNL, 660' FEL
 Uintah County, Utah
 Field: Undesignated
 FLS #U-67845

Have approved State APD but not approved Federal APD

Balcron Monument Federal #41-26
 NE NE Section 26, T8S, R17E
 Uintah County, Utah
 1051.4' FNL, 581.9' FEL
 FLS #U-67845
 Undesignated Field
 API #43-047-32456

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
 API #43-047-32505

8/10/94
 /rs

DOGMTI

Form 3160-3
(November 1983)
(formerly 9-331C)

SUBMIT IN THIS MANNER
(Other instructions on
reverse side)

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

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. TYPE OF WORK
DRILL DEEPEN 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
SE SE Section 33, T8S, R18E 778.4' FSL, 623.7' 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)

16. 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
6,000'

20. ROTARY OR CABLE TOOLS
Rotary

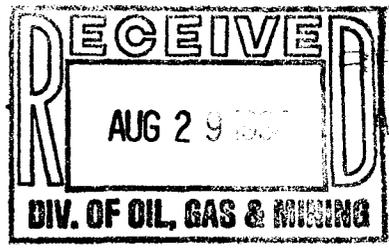
21. ELEVATIONS (Show whether DF, RT, GR, etc.)
GL 4850.7'

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				

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.

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

PERMIT NO. 43-047-22505 APPROVAL DATE AUG 18 1994
APPROVED BY [Signature] TITLE ASSISTANT DISTRICT MANAGER MINERALS DATE AUG 18 1994
CONDITIONS OF APPROVAL, IF ANY:

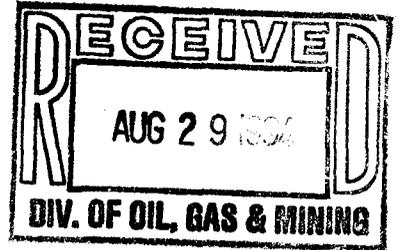
NOTICE OF APPROVAL

CONDITIONS OF APPROVAL ATTACHED TO OPERATOR'S COPY

*See Instructions On Reverse Side

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any person...

CONDITIONS OF APPROVAL
APPLICATION FOR PERMIT TO DRILL



Company/Operator: Equitable Resources Energy Company

Well Name & Number: Balcron Federal 44-33Y

API Number: 43-047-32505

Lease Number: U-65969

Location: SESE Sec. 33 T. 8S R. 18E

NOTIFICATION REQUIREMENTS

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

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

CONDITIONS OF APPROVAL FOR NOTICE TO DRILL

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

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

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

A. DRILLING PROGRAM

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

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

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

2. Pressure Control Equipment

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

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

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

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

3. Casing Program and Auxiliary Equipment

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

As a minimum, the usable water and oil shale resources shall be isolated and/or protected by having a cement top for the production casing at least 200 ft. above the top of the usable water zone identified at ± 265 ft. or by setting the surface casing at ± 310 ft. and have a cement top for the production casing at least 200 ft. above the Mahogany Oil Shale, identified at ± 2730 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 $\pm 2,530$ ft. if the surface casing is set at ± 310 ft. or it will be run to SURFACE if the surface casing is set at ± 260 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 on-lease or off-lease will have prior written approval from the AO.

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

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

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

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

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

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

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

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

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

Ed Forsman (801) 789-7077
Petroleum Engineer

Wayne 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, spent solvents, spilled chemicals, and waste acids
- Vacuum truck and drum rinsate from trucks and drums, transporting or containing nonexempt waste
- Refinery wastes
- Liquid and solid wastes generated by crude oil and tank bottom reclaimers
- Used equipment lubrication oils
- Waste compressor oil, filters, and blowdown
- Used hydraulic fluids
- Waste solvents
- Waste in transportation pipeline-related pits
- Caustic or acid cleaners
- Boiler cleaning wastes
- Boiler refractory bricks
- Incinerator ash
- Laboratory wastes
- Sanitary wastes
- Pesticide wastes
- Radioactive tracer wastes
- Drums, insulation and miscellaneous solids.

SURFACE USE PLAN OF OPERATION
Conditions of Approval (COAs)

Methods for Handling Waste Disposal

The reserve pit liner will 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.

The requested emergency pit is hereby approved under Onshore Order No. 7, subject to the following Conditions of Approval:

1. The emergency pit shall be fenced and the fence maintained for safety, and to prevent livestock and wildlife entry. The pit shall be fenced according to the same minimum standards as listed for the reserve pit under Point 9F of the Multi-point Surface Use and Operation Plan. The fence shall be maintained in a taut condition. Fences shall not be built on berms.
2. Turn downs shall be put on the ends of pipes to direct fluids downward instead of against the wall of the pit.

Additional Surface Conditions of Approval

The mammal skull and crocodile fossils will be excavated, prior to construction, by a paleontologist licensed to do mitigation work in Utah.

A paleontologist, licensed to do mitigation work in Utah, will be present during the excavation of the road and well pad to monitor the work. If significant materials are located, these too shall be excavated.

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.

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

DIVISION OF OIL, GAS AND MINING

CONFIDENTIAL

SPUDDING INFORMATION

NAME OF COMPANY: EQUITABLE RESOURCES ENERGY

WELL NAME: BALCRON MONUMENT FEDERAL 44-33Y

API NO. 43-047-32505

Section 33 Township 8S Range 18E County UINTAH

Drilling Contractor UNION

Rig # 17

SPUDDED: Date 9/24/94

Time 10:00 AM

How ROTARY

Drilling will commence _____

Reported by AL PLUNKETT

Telephone # 1-823-6759

Date 9/26/94 SIGNED D. INGRAM

OPERATOR Equitable Resources Energy Company
Balcron Oil Division
 ADDRESS P.O. Box 21017
Billings, MT 59104

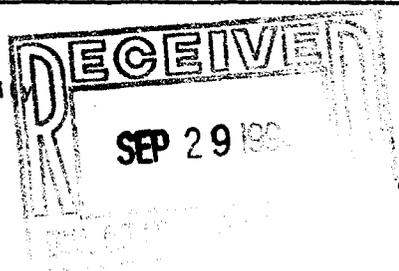
OPERATOR ACCT. NO. N 9890

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	11673	43-047-32505	Balcron Federal #44-33Y	SE SE	33	8S	18E	Uintah	9-24-94	9-24-94
WELL 1 COMMENTS: <i>Entity added 10-3-94. Lee</i> Spud of a new well.											
WELL 2 COMMENTS:											
WELL 3 COMMENTS:											
WELL 4 COMMENTS:											
WELL 5 COMMENTS:											

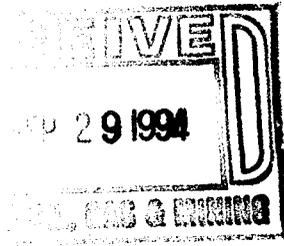
- ACTION CONES (See instructions on back of form)
- A - Establish new entity for new well (single well only)
 - B - Add new well to existing entity (group or unit well)
 - C - Re-assign well from one existing entity to another existing entity
 - D - Re-assign well from one existing entity to a new entity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

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

(3/89)



Molly Conrad
 Signature
 Operations Secretary
 Title
 9-27-94
 Date
 Phone No. (406) 259-7860



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

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)
 SURFACE: SE SE Section 33, T8S, R18E 778.4' FSL, 623.7' FEL
 TD:

CONFIDENTIAL

5. Lease Designation and Serial No.
 U-65969

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 #44-33Y

9. API Well No.
 43-47-32505

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 Spud
	<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 9-24-94 at 10:00 a.m.

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

Signed Molly Conrad Title Operations Secretary Date 9-27-94

(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

CT 5 1994

REPORT OF WATER ENCOUNTERED DURING DRILLING

1. Well name and number: Balcron Federal #44-33

API number: 43-047-32505

2. Well Location: QQ SE SE Section 33 Township 8S 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: 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: 10-4-94

Name & Signature: Bobbie Schuman, *Bobbie Schuman*

Title: Regulatory and Environmental Specialist

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

SUBMIT IN DUPLICATE
OCT 5 1994
Other Instructions on reverse side

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

WELL COMPLETION OR RECOMPLETION REPORT AND LOG *

5. LEASE DESIGNATION AND SERIAL NO.
U-65969
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.
#44-33Y
10. FIELD AND POOL, OR WILDCAT
8 Mile Flat North/Green River
11. SEC., T., R., M., OR BLOCK AND SURVEY OR AREA
SE SE Section 33, T8S, R18E

1a. TYPE OF WELL: OIL WELL GAS WELL DRY Other _____
b. TYPE OF COMPLETION: NEW WELL WORK OVER DEEP-EN PLUG BACK DIFF. RESRV. Other _____

CONFIDENTIAL

2. NAME OF OPERATOR
Equitable Resources Energy Company, Balcron Cil 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 778.4' ESL, 623.7' FEL
At top prod. interval reported below
At total depth

14. PERMIT NO. 43-047-32505 DATE ISSUED 6-14-94

12. COUNTY OR PARISH Uintah 13. STATE Utah

15. DATE SPUDDED 9-24-94 16. DATE T.D. REACHED 10-2-94 17. DATE COMPL. (Ready to prod.) n/a 10-3-94 PA 18. ELEVATIONS (DF, RKB, RT, GR, ETC.)* 4850.7' GL 19. ELEV. CASINGHEAD n/a

20. TOTAL DEPTH, MD & TVD 6,000' 21. PLUG, BACK T.D., MD & TVD n/a 22. IF MULTIPLE COMPL., HOW MANY* n/a 23. INTERVALS DRILLED BY Sfc - TD n/a

24. PRODUCING INTERVAL(S), OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD)* n/a
25. WAS DIRECTIONAL SURVEY MADE No

26. TYPE ELECTRIC AND OTHER LOGS RUN DIL - CNL - LDI - MUD LOG 10-4-94
27. WAS WELL CORED No

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

CASING SIZE	WEIGHT, LB./FT.	DEPTH SET (MD)	HOLE SIZE	CEMENTING RECORD	AMOUNT PULLED
8-5/8"	24#	312.50'	12-1/4"	200 sacks Class "G" w/additives	None

29. LINER RECORD

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

30. TUBING RECORD

SIZE	DEPTH SET (MD)	PACKER SET (MD)
n/a		

31. PERFORATION RECORD (Interval, size and number) n/a

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

DEPTH INTERVAL (MD)	AMOUNT AND KIND OF MATERIAL USED
n/a	

33.* PRODUCTION

DATE FIRST PRODUCTION	PRODUCTION METHOD (Flowing, gas lift, pumping—size and type of pump)	WELL STATUS (Producing or shut-in)
n/a	r/a	P & A

DATE OF TEST	HOURS TESTED	CHOKE SIZE	PROD'N. FOR TEST PERIOD	OIL—BBL.	GAS—MCF.	WATER—BBL.	GAS-OIL RATIO

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

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

35. LIST OF ATTACHMENTS

36. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records
SIGNED Bobbie Schuman TITLE Regulatory and Environmental Specialist DATE 10-4-94

*(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.	NAME	MEAS. DEPTH	TOP
			No DST's Run.	Geological Report submitted separately.		

38. GEOLOGIC MARKERS

OCT 5 1994

DAILY OPERATING REPORT

BALCRON FEDERAL #44-33Y

Location: SE SE Section 33, T8S, R18E
Uintah County, Utah

---TIGHT HOLE---

778.4' FSL, 623.7' FEL

PTD: 6,000' Formation: Green River

8 Mile Flat Prospect

Elevations: 4850.7'GL

Contractor: Union Drilling #17

Operator: Balcron/EREC

Spud: 9-24-94 @ 10 a.m.

Casing: 8-5/8", 24#, J-55 @ 312.50'

8-31-94 Start location. Had to drill & shoot part of location & reserve pit.

9-9-94 Finish location;

9-12-94 Install pit liner.

9-17-94 MIRU.

DC: \$22,207

CC: \$22,207

9-25-94 TD: 325' (325') Day 1

Formation: Uintah

Present Operation: WOC

SPUD well @ 10 a.m. 9-24-94. Drill & set conductor & NU air head. Drill surface hole, TOOH, ND air head & pull conductor pipe. Run 7 jts 8-5/8" csg as follows:

Guide Shoe .60'

1 jt 8-5/8" Shoe jt 42.85'

Insert Float -----

6 jts 8-5/8", 24#, J-55 259.05'

302.50'

Landing jt 10.00'

8-5/8" csg set at 312.50'

(3 centralizers). Cmt by Western w/200 sxs Class "G" w/2% CCL & 1/4#/sx Celoflake. 7 bbls cmt back to pit. Plug down @ 2 a.m.

DC: \$12,570

CC: \$34,777

9-26-94 TD: 1,119' (769') Day 2

Formation: Uintah

MW 8.5 VIS 27

Present Operation: Drilling

NU, test BOP & manifold to 2000# - OK. Test csg to 1500# - OK. TIH, drill cmt, survey, drill, change air head rubber & drill ahead.

DC: \$11,813

CC: \$46,590

OCT 5 1994

DAILY OPERATING REPORT

BALCRON FEDERAL #44-33Y

Location: SE SE Section 33, T8S, R18E
Uintah County, Utah

---TIGHT HOLE---

- 9-27-94 TD: 2,401' (1,282') Day 3
Formation: Green River
MW 8.5 VIS 27
Present Operation: Drilling
Drill, survey, & clean on rig. BGG - 20 units.
DC: \$17,336 CC: \$63,926

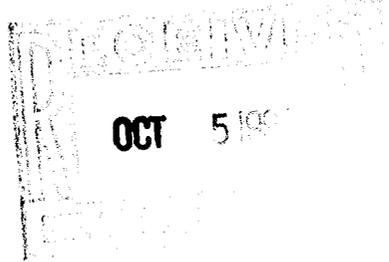
- 9-28-94 TD: 3,396' (995') Day 4
Formation: Green River
MW 8.5 VIS 27
Present Operation: Drilling
Drill, survey & clean on rig.
DC: \$13,783 CC: \$77,709

- 9-29-94 TD: 4,298' (902') Day 5
Formation: Yellow Zone
MW 8.5 VIS 27
Present Operation: Start trip out.
Drill, survey, load hole w/fluid, circ hole & start trip out.
DC: \$12,489 CC: \$90,198

- 9-30-94 TD: 4,775' (477') Day 6
Formation: Red Zone
MW 8.5 VIS 27
Present Operation: Drilling
TOOH, change bit, PU 4 drill collars. TIH, drill, survey, work on
mud pump. 1/2" of rain, muddy in spots. BGG - 100 units. CG -
200 to 250 units.
DC: \$7,419 CC: \$97,617

- 10-1-94 TD: 5,408' (633') Day 7
Formation: Green Zone
MW 8.5 VIS 27
Present Operation: Drilling
Drill, survey, & clean on rig. No good gas show yet, BGG - 40 to
100 units. BLM man Randy Bywater out.
DC: \$9,301 CC: \$106,918

- 10-2-94 TD: 6,000' (592') Day 8
Formation: Blue Zone
MW 8.5 VIS 27
Present Operation: TOOH for logs.
Drill, survey, clean on rig, circ for logs, & start trip out. Road
washed out, had to repair.
DC: \$9,801 CC: \$116,719

DAILY OPERATING REPORTBALCRON FEDERAL #44-33Y

Location: SE SE Section 33, T8S, R18E
 Uintah County, Utah

---TIGHT HOLE---

10-3-94 TD: 6,000' (0') Day 9
 Formation: Green River
 Present Operation: Plugging well.
 TOOH for logs, log well. WOO. LD collars & TIH w/drill pipe.
 Circ hole. RU Western & pump btm plug. Pull 5 stds & circ 4 hrs.
 Tag plug top @ 5358'.
 Plug #1 (150' plug) 5534' - 5384'
 Started raining about 3:30 a.m.
 DC: \$16,290 CC: \$133,009

10-4-94 TD: 6,000' (0') Day 10
 Formation: Green River
 Present Operation: Well plugged, WO mud.
 Plugged well as follows:
 Plug #1 5534' - 5384' 82 sacks
 Plug #2 3743' - 3663' 70 sacks
 Plug #3 1523' - 1413' Went down hole, 2nd plug OK 122 sacks
 Plug #4 342' - 242' 60 sacks
 Plug #5 Surface - 50' 18 sacks.
 Witness by BLM man Dave Brown. Clean tank & ND. Last plug down @
 4:30 p.m. 10-3-94. Release rig @ 8:30 p.m. 10-3-94.
 DC: \$14,708 CC: \$147,717

OCT 5 1994

FORM APPROVED
 Budget Bureau No. 1004-0135
 Expires: March 31, 1993
 5. Lease Designation and Serial No.
U-65969
 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 #44-33Y
 9. API Well No.
43-047-32505
 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: SE SE Section 33, T8S, R18E
 TD: 778.4' FSL, 623.7' 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 checked="" 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 type="checkbox"/> Other
	<input type="checkbox"/> Change of Plans
	<input type="checkbox"/> New Construction
	<input type="checkbox"/> Non-Routine Fracturing
	<input type="checkbox"/> Water Shut-Off
	<input type="checkbox"/> Conversion to Injection
	<input type="checkbox"/> Dispose Water

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

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

This well was plugged and abandoned as follows: **Well plugged on 10-3-94.**

Plug #1	5534' - 5384'	82 sacks Class "G" w/additives
Plug #2	3743' - 3663'	70 sacks Class "G" w/additives
Plug #3	1523' - 1413'	122 sacks Class "G" w/additives (First attempt went down hole, Second successful)
Plug #4	342' - 242'	60 sacks Class "G" w/additives
Plug #5	Surface - 50'	18 sacks Class "G" w/additives

Witnessed by Dave Brown of the Bureau of Land Management.

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

Signed Bobbie Schuman Title Regulatory and Environmental Specialist Date 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**

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

RECEIVED

NOV - 7 1994

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

SUNDRY NOTICES AND REPORTS ON WELLS OF OIL, GAS & MINING

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-65969

6. If Indian, Allottee or Tribe Name

n/a

SUBMIT IN TRIPLICATE

7. If Unit or CA, Agreement Designation

n/a

1. Type of Well
 Oil Well Gas Well Other

8. Well Name and No.

Balcron Federal #44-33Y

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

9. API Well No.
43-047-32505

3. Address and Telephone No.
P.O. Box 21017; Billings, MT 59104 (406) 259-7860

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

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)
SE SE Section 33, T8S, R18E
778' FSL, 624' FEL

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 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>paleontological site monitoring</u>
	<input type="checkbox"/> Change of Plans
	<input type="checkbox"/> New Construction
	<input type="checkbox"/> Non-Routine Fracturing
	<input type="checkbox"/> Water Shut-Off
	<input type="checkbox"/> Conversion to Injection
	<input type="checkbox"/> Dispose Water

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

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

Attached is the paleontology salvage and monitoring report for this wellsite and access.

14. I hereby certify that the foregoing is true and correct
Signed Bobbie Schuman Title Regulatory and Environmental Specialist Date November 4, 1994
(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.

BALCRON OIL

Balcron Federal #44-33Y

SE SE Section 33, T8S, R18E, SLB&M

Uintah County, Utah

PALEONTOLOGY SALVAGE & MONITORING REPORT

WELLPAD LOCATION AND ACCESS ROAD

BY

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

October 12, 1994

RESULTS OF PALEONTOLOGY SALVAGE AND MONITORING AT BALCRON FEDERAL #44-33Y, SE SE SECTION 33, T8S, R18E, UINTAH COUNTY, UTAH.

During the original paleontology survey of the access road and wellpad for Balcron Federal #44-33Y, several fossil locations were identified on and around the areas to be effected by construction. This fossil material included turtle, crocodile, and mammal remains. It was recommended that the well location be moved if possible, but if not then the following was suggested:

"... excavating the possible mammal skull and crocodilian material. At this point it is hard to tell all that might be involved in these excavations. If this material is limited and fragmental, a day or two work might take care of it. If it is more extensive, it could take much longer. Any construction in the presently proposed area would also need to be monitored during construction."

It was determined that the well location could not be moved, so the location was cleared of the important paleontological material previously discover at the location.

On August 27, 1994, the site was visited. The area of the mammal (?) skull fragments was investigated first. The area immediately surrounding and down slope from this spot was closely inspected and surface material screened for additional material. Only one 1 X 2 inch fragment with a tooth root was found during this effort. No in situ material was found. In as much as the original source of the fossil material could not be found, it is possible that someone at some earlier day may have collected the pieces and placed them where they were found during the survey.

Pieces of the crocodile were followed up slope to the source layer near the top of the ridge, just under a sandstone layer. Crocodile material which was scattered down hill and on to the construction area was collected and some excavation work was preformed on the material in the hill side to determine its condition and extent.

The site was visited again on August 29 to continue work on the crocodile and to clear other fossil material from the construction area. The source layer of the crocodile was found to contain several additional vertebrae and scutes. This material was not articulated and seemed to be the last fragments of the crocodile, the rest having eroded out earlier. Additional work was done on this material during monitoring of wellpad construction, but it was not collected.

Construction of the wellpad was monitored on August 31, 1994. Two caterpillars were on the site for construction and two people were monitoring for paleontology, one following each cat. Only a couple of small turtle shell fragments were found during monitoring.

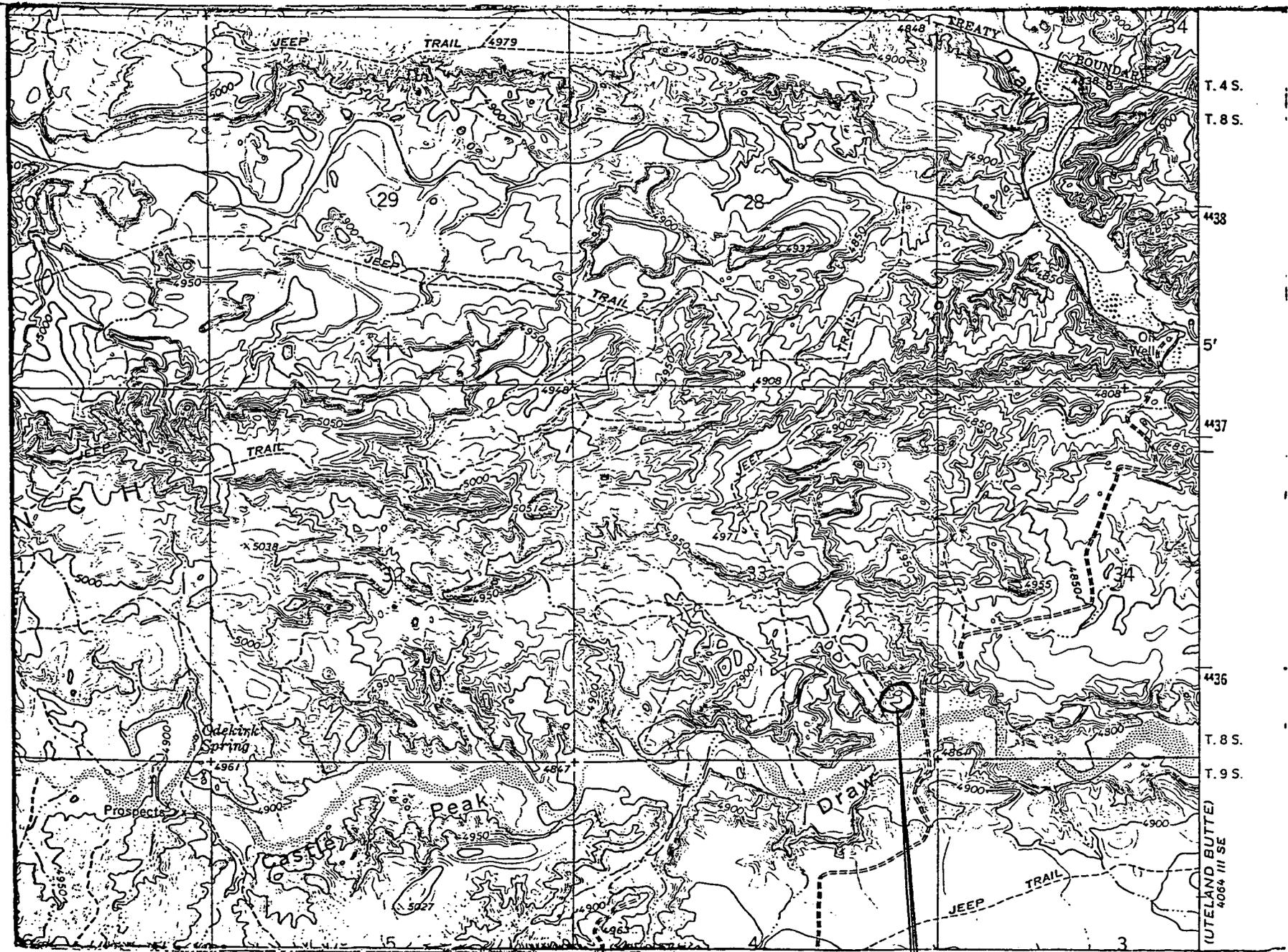
While passing through the general area on October 11, 1994, the site of the crocodile fragments was visited again to check its condition after a week of heavy rain. Unfortunately, most of this material apparently washed away during the rainy weather. (The Uinta Basin had nearly 3 inches of rain during

the first week of October - very unusual for this area.) Only two small fragments were left in place and several were seen on the slope below.

Material collected from the location for clearing it for construction included fragments of a small turtle, miscellaneous crocodile bone fragments, mammal (?) bone fragments, and other turtle shell fragments.

Alden H. Hamblin
Paleontologist

October 12, 1994
Date



BALCRON FEDERAL #44-33Y

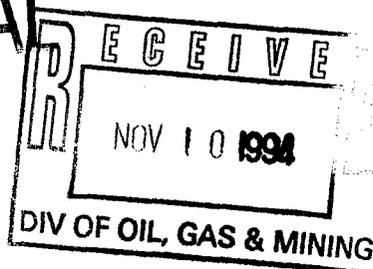
FOSSIL LOCALITY 42UN846VP

AREA MONITORED

WELL REPORT

**8 MILE FLAT NORTH
Balcron Oil 44-33Y Federal
778' FSL, 624' FEL, Sec. 33, T8S-R18E
Uintah County, Utah**

CONFIDENTIAL



By

DENNIS REHRIG & ASSOCIATES, INC.

Oil & Gas Consulting

4924 Rimrock Road
Billings, Montana 59106

(406) 656-4785

WELLSITE GEOLOGIST'S REPORT

**8 MILE FLAT NORTH
Balcron Oil 44-33Y Federal
778' FSL, 624' FEL, Sec. 33, T8S-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

**8 MILE FLAT NORTH
Balcron Oil 44-33Y Federal
778' FSL, 624' FEL, Sec. 33, T8S-R18E
Uintah County, Utah**

TABLE OF CONTENTS

<u>Page</u>	<u>Item</u>
1	General Well Review
2	Well Data
5	Daily Drilling History
7	Surveys
8	Bit Record
9	Time/Depth Penetration Chart
10	Drilled Well Formation Tops
11	Reference Well Formation Tops
12	Potentially Significant Sample Shows
13	Sample Descriptions
Insert	Geologic Well Log

By:

DENNIS C. REHRIG

Consulting Geologist

For:

DENNIS C. REHRIG & ASSOCIATES, INC.

**Balcron Oil 44-33Y Federal
778' FSL, 624' FEL, Sec. 33, T8S-R18E
Uintah County, Utah**

GENERAL REVIEW

The Balcron Oil 44-33Y Federal SE $\frac{1}{4}$ SE $\frac{1}{4}$ S-33, T8S-R18E, Uintah County, Utah) was drilled as a development-field extension well in the 8 Mile Flat North Field.

This well was supported by subsurface offset well control and drilled for identification of anticipated Douglas Creek and Wasatch Tongue oil sands and possible future water flood.

The surface hole was air drilled and surface casing was set by Rotary Rig No. 17 owned by Union Drilling Co. This well was spudded on September 24, 1994. A two-man mud logging unit and wellsite geologist were on site from 1500' to total depth. The Green River and Douglas Creek formations were penetrated at 1528' and 4754' making them respectively 2' high and 9' high structurally to the 1/2 mile offset Natural Gas of California 24-34D Federal (SE $\frac{1}{4}$ SW $\frac{1}{4}$, S-34, T8S-R18E) control well.

This well was drilled to 6000' (Driller) and 6000' (Logger).

Subsequent to log review the operator elected to plug and abandon this well.

The rotary was released 10/3/94.

Respectfully submitted,


DENNIS C. REHRIG

**Balcron Oil 44-33Y Federal
778' FSL, 624' FEL, Sec. 33, T8S-R18E
Uintah County, Utah**

WELL DATA

OPERATOR: Balcron Oil

LEASE & WELL NO.: Federal 44-33Y

LOCATION: 778' FSL, 624' FEL, Sec. 33, T8S-R18E

PROSPECT/FIELD: 8 Mile Flat North

COUNTY: Uintah

STATE: Utah

BASIN: Uintah

WELL TYPE: Development - Field Extension

BASIS FOR PROSPECT: Subsurface well control

ELEVATIONS: G.L. 4851', K.B. 4861'

SPUD DATE: 6:30 AM (MDT) 9/24/94 (Rotary)

**OUT FROM UNDER
SURFACE CASING:** 4:00 PM (MDT) 9/25/94

DRILLING COMPLETED: 4:00 AM (MDT) 10/2/94

LOGGING COMPLETED: 2:00 PM (MDT) 10/2/94

RIG RELEASE: 8:30 PM (MDT) 10/3/94

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

TOTAL DEPTH: 6,000' (Driller) 6,000' (Logger)

TOTAL DRILLING DAYS: 9 days

<u>HOLE SIZE & CASING:</u>	<u>Hole Size</u> 12¼" Surface to 323' 7⅞" 323' to T.D.	<u>Casing Size</u> 8⅝" surface to 312' K.B.
<u>WELL STATUS:</u>	Plugged and Abandoned	
<u>PENETRATION:</u>	55' below top of Uteland Butte LS	
<u>COMPANY DRILLING CONSULTANT:</u>	Al Plunkett	
<u>DRILLING CONTRACTOR:</u>	Union Drilling Co.	
<u>RIG NO.:</u>	17	
<u>TOOLPUSHER:</u>	Dave Gray	
<u>RIG SPECIFICATIONS:</u>	Draw Works – Cabot–Franks, powered by one D–343 Diesel Cat Derrick – Cabot–Franks 97' mast.	
<u>BLOW OUT PREVENTER:</u>	Make: Cameron. Type: 10" x 5000 lbs. Drill Pipe: Size: 4½" OD, 2¼" ID, Thread: XH. BHA: Length 600'. Tool joints: 6¼" OD, Type – XH.	
<u>MUD PUMP:</u>	No. 1 – Gardiner–Denver FXN, 14" Stroke, 5½" liner.	
<u>MUD COMPANY:</u>	Anchor Drilling Fluids, Inc. Operator bought products and drilling contractor mixed as needed.	
<u>MUD PROGRAM:</u>	Air/Foam – Surface to 4298' KCl/Water 4298' – Total Depth	
<u>ELECTRIC OPEN–HOLE LOGGING PROGRAM:</u>	Schlumberger Well Services Engineer: Gorge Tracy Witnessed by: Dennis Rehrig and Al Plunkett – Dual Laterolog w/Caliper, Gamma Ray, SP, and Tension Curve (312'–5985') – Compensated Neutron/Litho–Density with Caliper, Gamma Ray & Tension Curve (3700'–5967')	
<u>LOST CIRCULATION ZONE OR DRILLING PROBLEMS:</u>	None observed.	
<u>WELLSITE GEOLOGIST:</u>	Dennis C. Rehrig	

SAMPLING PROGRAM: 50' Samples from 1,500'-4,298'.
30' Samples from 4,298'-Total Depth,
except caught extra samples through
drilling breaks and/or mudlog shows, as necessary.

SAMPLE QUALITY: Generally fair unless noted otherwise, but often had
poor samples with much cavings.

SAMPLE DISPOSITION: Utah Geological Survey - Salt Lake City, Utah

MUD LOGGING EQUIPMENT: Monaco Logging Co. - two man unit
Chris Jensen, Bill Pugh and Pete Waldon.

CORE PROGRAM: None.

DRILLSTEM TEST: None.

SURFACE CASING: 8 $\frac{5}{8}$ " Maverick, 24 wt, J-55, 7 Jts,
Surface - 312' K.B. Surface hole drilled and casing
set by rotary rig. Details of cement job unknown.

PRODUCTION CASING: None.

CEMENT PLUGS:

No.	Interval
1	5364-5534'
2	3643-3793'
3	1423-1523'
4	242- 342'
5	Surface to 60'

**Balcron Oil 44-33Y Federal
778' FSL, 624' FEL, Sec. 33, T8S-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 (MDT) day of prior day of report and ends at 6:00 AM (MDT) 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
				Drlg	Maint. and Repairs	Other					
1	9/25	323'	323'	8.00	0	16.00	2	4	20/25	180	Start rig and air, drilling 11' pilot hole and drilling 17" hole, set and pull conductor pipe, clean hole, reset conductor pipe, rig up new air hammer and bit, drilling kelly down, pull conductor and ream hole (set conductor, pull same and reset), clean hole, NU air bowl and put on air rubber, drilling 12¼" hole, stuck and worked free, drilling, circulate and clean hole, TOH, nipple down and pull conductor pipe, run 8½" surface casing, cement casing, WOC.
2	9/26	1088'	765'	12.75	0	11.25	3	40	65	210	Break out landing joint, cut off 8½" casing and weld head on, test head to 1000 psi, NU BOP stack, choke and accumulator lines, wait on tester, pressure test BOP stack, casing, choke and kelly, TIH and blow H2O, drilling cement, float and shoe, run survey, service rig and air, drilling 7½" hole, changed air head rubber and put driver on, drilling, survey, service rig and air, drilling.

Days Since Spud	1993 Date	Depth	Ftg in Last 24 Hrs	Activity (hrs)			Bit No.	W O B (M)	RPM	PP	Activity
				Drlg	Maint. and Repairs	Other					
3	9/27	2389'	1301'	20.5	1.0	2.50	3	40	60	240	Drilling, survey, service rig, drilling, survey, service rig and air, drilling.
4	9/28	3365'	976'	22.75	0.75	0.50	3	40	60/65	250	Drilling, survey, service rig, check pipe rams, drilling, survey, service rig and air, drilling.
5	9/29	4298'	933'	20.50	0.75	2.75	3	40	60/65	240	Drilling, circ hole and survey, service rig and check pipe rams, drilling, survey, service rig and air, drilling, circ hole on air, load hole, circ and sweep hole.
6	9/30	4762'	464'	17.75	2.00	4.25	4	43	65	1050	TOH, check rams, service rig, TIH, drilling, work on mud pump, drilling, survey and service rig and air, drilling.
7	10/1	5392'	630'	22.75	0.50	0.75	4	43	65	1075	Drilling, service rig, check pipe rams, drilling, survey, service rig and pumps, drilling.
8	10/2	6000'	608'	21.50	0.25	2.25	4	43	65'	1100	Drilling, survey, service rig, check pipe rams, drilling, reach TD, circ hole for E-logs, wait on survey tool, TOH.
9	10/3	6000'	0'	0	0	24.00	—	—	—	—	TOH, Ru logger and run E-logs, TIH w/DC's; TOH and LD DC, WOO, TIH, open-ended to set plugs, begin setting plugs.
10	10/4	6000'	0'	0	0	10.50	—	—	—	—	Setting cement plugs, finish plugging well, release rig.

Balcron Oil 44-33Y Federal
778' FSL, 624' FEL, Sec. 33, T8S-R18E
Uintah County, Utah

SURVEYS VERTICAL HOLE

<u>Drilling Depth</u>	<u>Degrees</u>
308'	0°
850'	½°
1350'	¾°
1871'	1¼°
2370'	2°
2866'	1¾°
3400'	1½°
3922'	1¾°
4420'	2°
4982'	0°
5480'	¾°

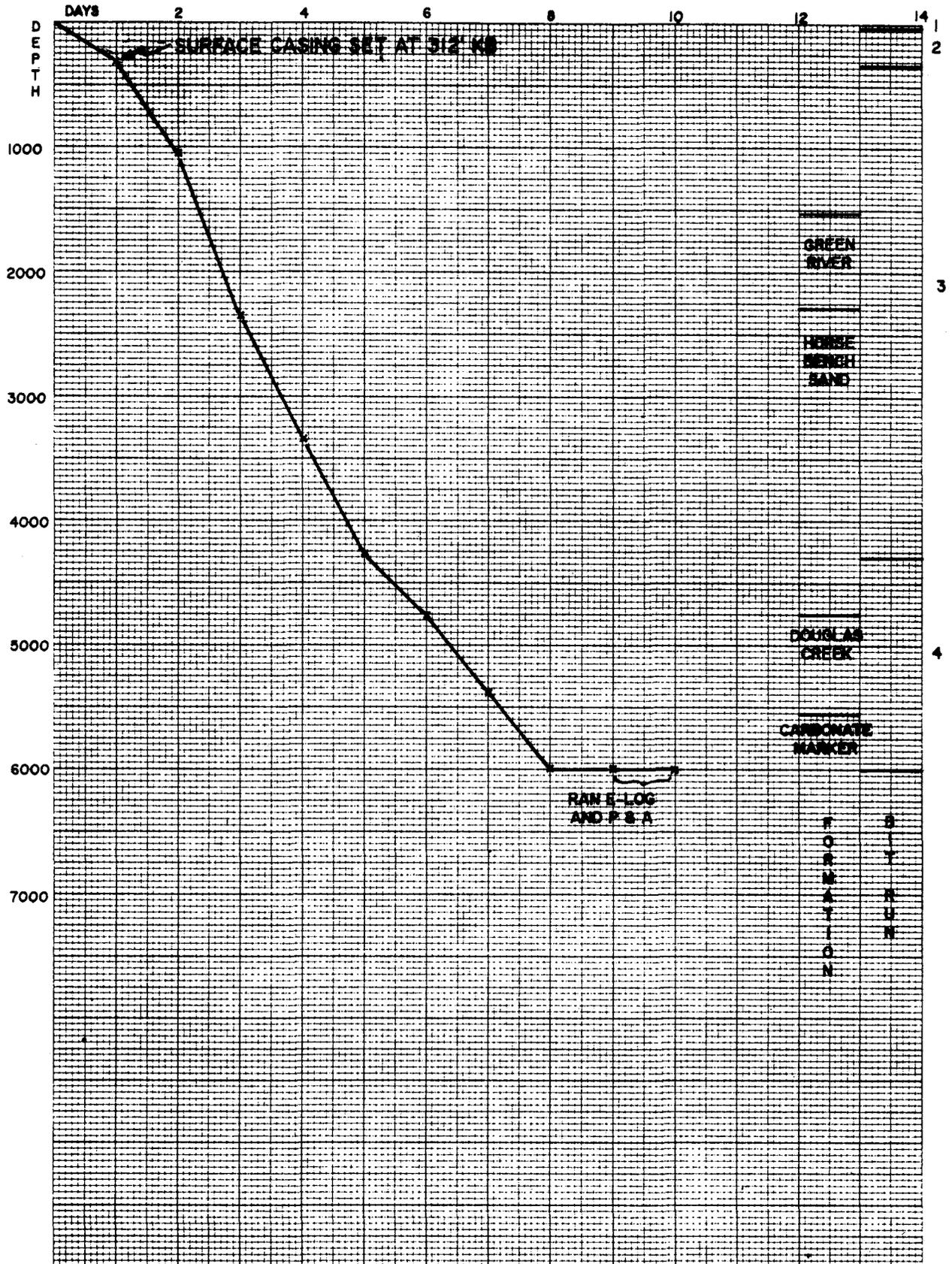
**Balcron Oil 44-33Y Federal
778' FSL, 624' FEL, Sec. 33, T8S-R18E
Uintah County, Utah**

BIT RECORD

Contractor: Union Drilling Co. Operator: Balcron Oil Lease: Federal State: Utah County: Uintah Sec/T-ship/Range: SESE Sec. 33, T8S-R18E	Rig No. 17 Field: 8 Mile Flat North Well No. 44-33Y	Rig Make: Cabot-Franks Derrick: Cabot-Franks 97' mast Pump #1: Gardiner- Denver FXN Liner 5½" x 14" Stroke	Collars: ODxDxLength BHA 6" x 2½" x 600' Drill Pipe-Size 4½" Tool Joint: 6¼"	SPUD 9/24/94 Under Surface 9/25/94 Total Depth 10/2/94 Total Days Drilling 9	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: Air/Foam 0' to 4298' KCl/Water 4298' to TD
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Bit No	Bit Size	Bit Type	Bit Mfg	Serial No of Bit	Jet Size	Depth Out	Ftge	Hours Run	Acc Hours	Ft/Hr	Weight 1000 #	Rotary RPM	Vert. Dev.	Air or Pump Press	% of bit life used	Remarks
1	17¼"	IR	FB	3284001	-Open-	24	14	1	12	14	4/8	10/20		150	60%	WRR
2	12¼"	Smith	FB	N/A	-Open-	323	299	4.5	4.5	66	4/6	20/25	0°	150/170	50%	WRR
3	7¾"	SEC	S88CFH	639367	24 24 24	4298	3975	58	72.5	70	40	60/65	1¼°	200/240	0%	Junk
4	7¾"	HTC	ATJ-44	P22WX	11 11 11	6000'	1702	46	46	37	43	60/65		950/1075	All	Junk

BALCRON OIL 44-33Y FEDERAL
 778' FSL, 624' FEL, SECTION 33, T 8 S-R 18 E
 UINTAH COUNTY, UTAH
 TIME/DEPTH PENETRATION CURVE



**Balcron Oil 44-33Y Federal
778' FSL, 624' FEL, Sec. 33, T8S-R18E
Uintah County, Utah**

FORMATION TOPS

ELEVATIONS: G.L. 4851', K.B. 4861'

FORMATION

	<u>E-Log Top</u>	<u>Subsea Datum</u>	<u>Structural Relationship To Reference Well *</u>
Green River	1528'	(+3333')	2' Hi
Horsebench Sand	2288'	(+2573')	9' Hi
2nd Garden Gulch	3992'	(+ 869')	8' Hi
Yellow Marker	4587'	(+ 274')	7' Hi
Douglas Creek	4754'	(+ 107')	9' Hi
2nd Douglas Creek Mkr	4994'	(- 133')	3' Hi
Carbonate Marker	5549'	(- 688')	Flat
Uteland Butte LS	5945'	(-1084')	2' Lo
TOTAL DEPTH:	6000' Logger		

* Reference Well:

Natural Gas of California 24-34D Federal
SE $\frac{1}{4}$ SW $\frac{1}{4}$ Sec. 34 T8S-R18E
Uintah County, Utah

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

Balcron Oil 44-33Y Federal
778' FSL, 624' FEL, Sec. 33, T8S-R18E
Uintah County, Utah

REFERENCE WELL E-LOG FORMATION BOREHOLE AND SUBSEA DATUMS

Natural Gas of California
24-34D Federal
SE $\frac{1}{4}$ SW $\frac{1}{4}$ Sec. 34, T8S-R18E
Uintah County, Utah

K.B. 4890'

Formation

Green River	1559'	(+3331')
Horsebench	2326'	(+2564')
2nd Garden Gulch	4029'	(+ 861')
Yellow Marker	4623'	(+ 267')
Douglas Creek	4792'	(+ 98')
2nd Douglas Creek Mkr	5026'	(- 136')
Carbonate Marker	5578'	(- 688')
Uteland Butte LS	5972'	(-1082')
TOTAL DEPTH	6132' (Logger)	

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

Balcron Oil 44-33Y Federal
778' FSL, 624' FEL, Sec. 33, T8S-R18E
Uintah County, Utah

POTENTIAL SANDSTONE ZONES

Provided by Wellsite Geologist

E-Log Depth (Compensated Neutron - Litho Density Log)

4178'-4184'	
4288'-4299'	
4838'-4844'	Very weak sample show
5070'-5077'	Very weak sample show
5606'-5627' (Gross interval)	Fair sample show
5644'-5656'	Weak sample show
5690'-5700'	Very poor sample show
5714'-5718'	Very poor sample show
5758'-5769' (Gross interval)	Very poor sample show

NOTE: Sandstone generally seen in samples, but not always due to sample quality or thinness of sandstone in some cases.

**Balcron Oil 44-33Y Federal
778' FSL, 624' FEL, Sec. 33, T8S-R18E
Uintah County, Utah**

SAMPLE DESCRIPTIONS

By: Dennis C. Rehrig

All samples caught by Mud Loggers and lagged from 4298' to Total Depth. Samples were examined wet, under reflected light and 3x magnification from 1500' to total depth, for porosity identification samples were dried. Sample descriptions generally tie well to drill time log. Sample quality was fair unless stated otherwise in descriptions. All sample descriptions are interpretive and not tied to E-logs.

- 1500-50 Dolomite-Limy Dolomite - tan-medium to dark brown-tannish gray, microcrystalline, moderately firm, slightly argillaceous in part.
- 1550-1600 Siltstone - occasionally ranging to very fine sandstone, generally clear to milky, frequently specked-peppered with dark brown carbonaceous material, moderately well consolidated to friable in part, frequently microcrystalline disseminated Pyrite, trace Glauconite, NSFOC, slightly calcareous, slightly argillaceous in part.
- 1600-50 Dolomite-Limy Dolomite - as 1500-50 above.
Siltstone - as above.
- 1650-1700 Siltstone - light grayish tan-light gray-milky, frequently specked-mottled with dark brown carbonaceous material, slightly to moderately calcareous, frequently pyritic, frequently slightly to moderately argillaceous.
- 1700-50 Dolomite-Limy Dolomite - tan-grayish tan-amber, highly pyritic in part, microcrystalline, moderately firm, slightly argillaceous to silty in part, frequently specks of dark brown carbonaceous material.
- 1750-1800 Dolomite-Limy Dolomite - tan-grayish tan, occasionally reddish brown, occasionally milky, microcrystalline to frequently cryptocrystalline, moderately firm to moderately soft in part, frequently specked with Pyrite.

- 1800-50 Dolomite-Limy Dolomite - buff-tan-light brown, cryptocrystalline occasionally microcrystalline, dense, moderately firm, common specks of Pyrite, frequently specks dark brown carbonaceous material, dark to bright gold mineral fluorescence, very weak trace light blue diffuse milky cut.
- 1850-1900 Dolomite-Limy Dolomite - buff-tan-slightly orangish tan to occasionally cream to occasionally amber to clear, microcrystalline to occasionally cryptocrystalline, moderately firm to moderately soft in part, frequently pyritic, trace dark to medium brown carbonaceous material.
- 1900-50 Dolomite - tan-light brown-clear-milky, microcrystalline to cryptocrystalline, moderately firm to firm, frequently medium-dark brown carbonaceous material, occasionally pyritic.
- 1950-2000 Dolomite-Limy Dolomite - tan to light-medium brown, frequently translucent and milky to amber, microcrystalline to cryptocrystalline, moderately firm to firm, frequently dark brown carbonaceous material disseminated-specks, bright yellow fluorescence, with weak dull yellow milky cut, occasionally slightly pyritic.
- 2000-2150 Dolomite-Limy Dolomite - tan-light to medium brown to orangish brown-cream, microcrystalline to occasionally cryptocrystalline, moderately firm, dense, some milky to clear Spar Calcite, slightly to moderately carbonaceous with some medium to dark brown specks, commonly pyritic, fluorescence and cut as above.
- 2150-2200 Dolomite-Limy Dolomite - generally as above, but increase of tan-light brown-cream color.
- 2200-50 Dolomite-Limy Dolomite - light to medium brown-tan, some translucent milky to amber Spar Calcite, microcrystalline, moderately firm, dense, slightly to moderately disseminated carbonaceous material, slightly pyritic, fluorescence and cut as above.
- 2250-2350 Dolomite - medium to dark brown to occasionally tan to light brown, microcrystalline, moderately firm to firm, frequently Spar Calcite, slightly to moderately disseminated carbonaceous material, slightly pyritic, dull gold fluorescence, with very weak diffuse bluish slow streaming cut.
- 2350-2400 Dolomite - generally as above, with more medium to light brown to tan color.

2400-50 Dolomite - frequently Limy Dolomite - medium to dark brown, frequently tan, microcrystalline to frequently cryptocrystalline, firm to moderately firm, dense, slightly to moderately disseminated carbonaceous material, frequently pyritic, trace black asphaltic material, some dull gold and diffuse bluish milky cut. Trace very fine friable Sandstone, with black asphaltic stain and show as above.

2450-2500 Dolomite - generally as above, with increase in dark brown-black asphaltic-petroliferous material as above.

2500-50 Dolomite - medium-dark brown, occasionally amber, some Spar Calcite, frequently dark brown-black carbonaceous material, microcrystalline to cryptocrystalline, firm to moderately firm, occasionally pyritic, dense, some dull gold fluorescence and weak to fair bluish yellow streaming cut.

NOTE: All cuttings have an oily film. Generally asphaltic to petroliferous material yields a slight show. Due to amount of contamination, will only report shows believed to be pertinent to possible production.

2550-2600 Dolomite generally as above, generally lighter in color, more light brown-tan, some Limy Dolomite. Increase in Pyrite.

2600-2200 Dolomite - medium-dark brown, frequently tan, frequently translucent and amber, microcrystalline to cryptocrystalline, firm to moderately firm, dense, moderately to highly carbonaceous in part, some black petroliferous material, some Spar Calcite.

2700-2800 Dolomite occasionally Limy Dolomite - tan to medium brown, microcrystalline to cryptocrystalline, occasionally siliceous, moderately firm to firm, dense, slightly to moderately carbonaceous, occasionally pyritic.

2800-50 Dolomite - Argillaceous Dolomite - dark brown-frequently black to medium brown, firm to moderately firm, highly to moderately carbonaceous, petroliferous in part, some algal laminae, silicious in part, abundant Pyrite in part, likely very good source rock.

2850-2900 Dolomite-Argillaceous Dolomite - as above.

Some Limestone-Dolomitic Limestone - buff-tan, microcrystalline, moderately firm, argillaceous in part, dense.

- 2900-50 Dolomite-Argillaceous Dolomite as above 2800'-2850' above.
- 2950-3000 Dolomite-Limy Dolomite - buff-tan-grayish tan, orangish tan in part, microcrystalline-frequently cryptocrystalline, siliceous in part, frequently abundant Pyrite moderately firm to firm, dense, generally slightly to moderately carbonaceous, some black highly carbonaceous to petroliferous material.
- 3000-3100 Dolomite-Limy Dolomite - tan-medium to dark brown, occasionally slightly black, slightly argillaceous in part, some algal laminae, frequently moderately to highly carbonaceous to slightly petroliferous in part, occasionally siliceous, microcrystalline to cryptocrystalline, moderately firm to firm.
- Some very fine grained Sandstone - silty in part, milky-white generally moderately unconsolidated, sub-angular to sub-round, moderately well sorted, frequently pyritic, NSFOC, slightly calcareous, slightly argillaceous in part.
- 3100-50 Very fine grained Sandstone ranging to Siltstone, milky-clear-white, generally peppered with Pyrite, carbonaceous material and some Glauconite, slightly to moderately calcareous, generally medium to well consolidated, moderately well sorted, sub-angular to sub-round, no apparent porosity, NSFOC, slightly argillaceous in part.
- 3150-3200 Dolomite-Limy Dolomite - tannish gray-light gray-tan-faint orangish tan, cryptocrystalline to occasionally microcrystalline, moderately firm, dense, slightly to moderately carbonaceous, frequently pyritic, slightly argillaceous in part.
- 3200-50 Dolomite-Limy Dolomite as above, some dark brown-black Dolomite-Argillaceous Dolomite, highly carbonaceous to petroliferous.
- 3250-3300 Dolomite-Argillaceous Dolomite - buff-tan-orangish tan, cryptocrystalline to microcrystalline, moderately firm to moderately soft, slightly carbonaceous in part, trace Pyrite, occasionally black petroliferous highly carbonaceous rock, cream-light gray-white, Shale - slightly to moderately calcareous, commonly peppered with Pyrite, silty in part.
- Some Siltstone - milky-clear, well consolidated, moderately firm, slightly argillaceous, commonly peppered with Pyrite, slightly calcareous.

- 3300-3400 Dolomite-Argillaceous Dolomite as above.
 Shale - generally as above, some light gray, abundant Pyrite.
 Trace Siltstone as above.
- 3400-3450 Dolomite-Limy Dolomite - tan-medium brown, microcrystalline to cryptocrystalline, moderately firm, dense, slightly to moderately argillaceous in part, slightly to moderately carbonaceous, occasionally pyritic.
 Some Siltstone - clear-milky, moderately well consolidated, slightly calcareous in part, slightly argillaceous in part, trace Pyrite.
- 3450-3500 Limy Dolomite - tan-buff, cryptocrystalline, firm to moderately firm, dense, argillaceous in part, dense.
 Shale - cream-light gray, slightly calcareous, slightly carbonaceous in part, silty in part.
 Siltstone - milky-white, siliceous in part, slightly carbonaceous, moderately to well consolidated, frequently pyritic, NSFOC, slightly calcareous.
- 3500-3550 Dolomite-Limy Dolomite as 3400-3450 above.
 Limy Dolomite - as 3450-3500 above.
 Some Siltstone and Shale as above.
- 3550-3600 Dolomite-Limy Dolomite as 3400-3450 above.
 Limy Dolomite as 3450-3500 above.
- 3600-50 Limestone - buff-light tan, microcrystalline to cryptocrystalline, moderately firm, dense, slightly argillaceous in part, dense.
 Shale - light-medium gray to occasionally tan-medium brown, slightly to moderately calcareous, commonly microcrystalline disseminated Pyrite.
- 3650-3700 Shale as above, also some creamy.
 Some Limestone as above.

Frequently Dolomite-Argillaceous Dolomite - medium-dark brown-slightly orangish tan, moderately to highly carbonaceous, cryptocrystalline to microcrystalline, dense, moderately firm.

Some Siltstone - milky-clear, slightly calcareous, argillaceous in part, moderately to well consolidated, some specks of carbonaceous material, frequently pyritic.

4050-4100 Shale - light-gray-slightly emerald, slightly calcareous, some specks of carbonaceous material in part, some microcrystalline disseminated Pyrite, frequently silty.

Siltstone - clear-milky, slightly calcareous, slightly argillaceous in part, moderately well consolidated, frequently specks of Pyrite.

4100-50 Shale - light-medium gray, some emerald as above.

Limestone - as 4100-50 above, trace ostracods.

4150-4200 Shale - light gray to very light emerald as 4050-4100 above.

Siltstone as 4050-4100 above.

4200-50 Shale - light gray-slightly emerald-grayish medium brown, moderately firm, sub-blocky, slightly calcareous, slightly carbonaceous in part, some silt, frequently pyritic.

Some Siltstone as above.

4250-98' Shale as above.

Siltstone - clear-milky, slightly argillaceous in part, slightly calcareous, moderately well consolidated, frequently pyritic.

Some Limestone - tan-medium brown, frequently with ostracods, cryptocrystalline to microcrystalline, moderately firm, dense.

TOH to load hole with fluid and change bit.

4298-4340' Very mixed lithology, of virtually everything drilled, sample considered unreliable. Mixing due to trip and loading hole with fluid.

4340-70 Dolomite-Argillaceous Dolomite - medium-dark brown-black, moderately to highly carbonaceous, petroliferous in part.

Much cavings.

4370-4400 Shale - dark brown-grayish black-dark gray, highly carbonaceous, slightly to moderately calcareous, firm to brittle in part, sub-blocky, silty in part, pyritic in part.

Dolomite-Argillaceous Dolomite in part.

Much cavings.

4400-30 Shale - medium-dark gray occasionally light gray, slightly calcareous, slightly to moderately carbonaceous, moderately firm, sub-blocky.

4430-60 Shale - dark gray-dark brown, frequently black, moderately to highly carbonaceous, slightly to moderately calcareous, sub-blocky.

Much cavings.

4460-90 Shale - dark brown, occasionally black, frequently bronze cast, highly carbonaceous, slightly calcareous, moderately firm to firm, brittle in part, abundant microcrystalline disseminated Pyrite, sub-blocky.

4490-4520 Shale - light-medium gray to emerald-drab rust, frequently cream, slightly to moderately calcareous, moderately firm to moderately soft in part, slightly carbonaceous in part, slightly mottled-streaked in part, commonly Shale yellowish-orangish brown, moderately to highly carbonaceous, slightly to moderately calcareous, moderately firm to moderately soft, sub-blocky.

Siltstone - clear-milky, slightly calcareous, slightly argillaceous, well consolidated, firm-hard, siliceous in part, some specks of carbonaceous material and Pyrite.

Sample generally very mixed.

4520-50 Shale - light gray-tannish gray-cream, slightly to moderately calcareous, slightly carbonaceous, silty in part, slightly mottled-streaked in part.

Siltstone - milky-cream-white in part, slightly to moderately calcareous, well consolidated, some specks of carbonaceous to lithic fragments, frequently siliceous, firm to hard, frequently pyritic.

Trace Limestone - clear-tan, microcrystalline, moderately firm, commonly with ostracods.

4550-80

Shale - medium gray-brownish gray, frequently light gray-creamy, slightly to moderately carbonaceous, commonly with dark brown-black specks of carbonaceous material, moderately firm, sub-blocky in part, silty in part, some Pyrite.

Some Siltstone as above.

4580-90

Shale - dark brown-grayish brown, occasionally black highly carbonaceous, slightly calcareous in part, moderately soft to moderately firm, sub-platy to sub-fissile.

4590-4650

Shale - light-medium gray to slightly emerald-cream in part, tan in part, slightly to moderately calcareous, moderately soft, some specks of carbonaceous material, silty in part, trace Pyrite.

Some Siltstone - milky to clear, occasionally white, slightly calcareous, some specks of carbonaceous material, frequently pyritic, slightly argillaceous in part, generally well consolidated, generally firm to hard, frequently siliceous.

4650-80

Shale - medium gray, slightly to moderately calcareous, very slightly carbonaceous in part, sub-blocky, moderately soft, frequently silty.

Some Siltstone as above.

4680-4710

Shale - light-medium gray, tannish gray, occasionally cream, slightly calcareous, slightly carbonaceous, moderately soft, sub-blocky, occasionally silty, some Pyrite.

Some Siltstone - milky-clear, slightly calcareous, slightly argillaceous in part, well-consolidated, firm-hard in part, frequently siliceous, frequently specks of carbonaceous material, frequently pyritic.

Trace Limestone - clear-tan-medium gray, some Spar Calcite, microcrystalline, moderately firm, commonly ostracods.

- 4710-40 Shale - medium gray to occasionally dark gray as above.
Trace Siltstone and Limestone as above.
- 4740-70 Shale as 4680-4710 above. Frequently mottled-streaked, more pyritic.
Some Siltstone as above.
- 4770-4800 Shale - light-medium gray, moderately soft, slightly to moderately calcareous, slightly carbonaceous, sub-blocky in part, some microcrystalline disseminated Pyrite.
Some Siltstone, clear-milky, generally well consolidated, siliceous in part, firm-hard, slightly to moderately calcareous, slightly argillaceous in part, commonly pyritic.
- 4800-30 Siltstone ranging to very fine grained Sandstone, clear-milky, generally well to moderately well consolidated, occasionally slightly friable, slightly to moderately calcareous, sub-angular to sub-round, moderately well sorted, some black specks of carbonaceous-lithic material, frequently pyritic, occasionally siliceous. Generally no observable porosity or show. Occasionally very minor trace of medium brown oil stain, with faint weak gold fluorescence and very weak very poor bluish cut, trace Glauconite.
Some Shale as above.
- 4830-60 Siltstone ranging to very fine grained Sandstone - generally as above, with some emerald and trace rose color. Very poor reservoir and shows as above.
Shale - light gray-emerald-cream, moderately soft-moderately firm, slightly to moderately calcareous, slightly carbonaceous in part, sub-blocky, frequently pyritic, frequently silty.
Argillaceous Dolomite - orangish to yellowish brown, moderately firm to moderately soft, moderately to highly carbonaceous, dense.
Some Limestone - clear-buff, microcrystalline, some Spar Calcite, moderately firm, commonly with ostracods.
- 4860-90 Shale and Siltstone as 4770-4800 above.

4890-4950 Shale - medium gray, slightly to moderately calcareous, moderately soft, slightly-moderately carbonaceous, slightly silty in part, sub-blocky in part, some Pyrite.

Some Siltstone - generally milky, slightly calcareous, moderately well to well consolidated, typically specks of carbonaceous material-lithic particles, occasionally siliceous, some Pyrite.

4950-80 Shale - light-medium gray as above.

Argillaceous Dolomite as 4830-60 above.

Some Siltstone as above.

4980-5010 Shale - tan-medium brown, frequently dark brown-cream-light gray, generally moderately soft, moderately carbonaceous, slightly calcareous, sub-blocky to sub-platy in part.

5010-40 Shale - light-medium gray, occasionally cream-brownish gray, moderately soft, slightly to moderately calcareous, moderately soft, sub-blocky, slightly carbonaceous.

Some Argillaceous Dolomite - orangish-yellowish brown, cryptocrystalline, moderately firm to moderately soft, slightly to moderately carbonaceous.

5050-70 Shale - light-medium gray as above.

Argillaceous Dolomite as above.

Some Siltstone - milky-light gray, slightly-moderately argillaceous, slightly to moderately calcareous, well consolidated, some carbonaceous-lithic fragments, occasionally pyritic.

5070-5100 Argillaceous Dolomite - orangish-yellowish brown, microcrystalline to cryptocrystalline, moderately firm, dense, moderately carbonaceous, some Spar Calcite.

Siltstone ranging to very fine grained Sandstone, light tan, light gray, moderately well to well consolidated, slightly argillaceous in part, slightly calcareous, some specks dark brown carbonaceous material, generally tight, some very poor intergranular porosity, light brown oil stain, no fluorescence.

very weak to weak bright yellow cut. Not considered good enough porosity or show to be commercial.

Much cavings.

5100-30 Shale - light-medium gray, moderately soft to moderately firm in part, slightly to moderately calcareous, sub-blocky, silty in part, slightly carbonaceous.

Some Siltstone ranging to very fine grained Sandstone as above.

5130-60 Shale as above, slightly to moderately carbonaceous, some Pyrite.

Some Argillaceous Dolomite 5070-5100'.

5160-90 Siltstone ranging to very fine grained Sandstone, generally tan, well to moderately well consolidated, slightly calcareous, slightly argillaceous, slightly carbonaceous in part, moderately well sorted, sub-angular to sub-round, generally no porosity, some very poor intergranular porosity, no fluorescence or stain, very weak yellow slow streaming cut. Considered too tight to be commercial.

Shale as above.

5190-5220 Sandstone - very fine grained ranging to Siltstone - light-medium tan, generally moderately to well consolidated, slightly friable in part, moderately well sorted, sub-angular to sub-round, slightly calcareous, slightly argillaceous, occasional lithic fragment, not much apparent porosity, some poor to fair intergranular porosity. Generally good to fair even medium brown oil stain, weak dull yellow fluorescence in part, good immediate bright yellow flash cut. Some dark brown globules of oil clinging to sand clusters. Show is good but porosity appears to be marginal.

Shale - light to medium gray, occasionally cream as above.

5220-50 Shale - cream-light gray, occasionally medium gray, slightly to moderately calcareous, slightly carbonaceous in part, moderately soft to moderately firm, sub-blocky in part, silty in part, occasionally Pyrite.

Siltstone - clear-milky-white, slightly calcareous, moderately well to well consolidated, slightly argillaceous in part, some Pyrite, NSFOC.

- 5250-80 Shale - medium gray as above.
Some Siltstone as above.
- 5280-5310 Shale - moderately gray, frequently cream-light gray, moderately firm to moderately soft, slightly calcareous, some specks of carbonaceous material, frequently silty, frequently pyritic.
Some very fine grained Sandstone ranging to Siltstone, tan-milky-light gray, moderately to poorly sorted, frequently streaks to specks of carbonaceous material, frequently moderately argillaceous, sub-angular to sub-round, moderately to well consolidated, some spotty medium brown oil stain, no fluorescence, very weak slow cut. No apparent porosity, not considered commercial. Some Pyrite.
- 5310-70 Shale - black commonly with bronze cast, highly petroliferous, moderately soft to moderately firm, frequently brittle, sub-platy to sub-blocky, some Pyrite.
- 5370-5400 Shale - light-medium gray, frequently cream, slightly calcareous, moderately soft to moderately firm, sub-blocky in part, occasionally silty.
Some Siltstone - milky-white, slightly calcareous, slightly argillaceous in part, moderately well consolidated, NSFOC.
- 5400-30 Shale as above.
Limy Dolomite-Argillaceous Dolomite - orangish brown to frequently tan-medium to dark brown, microcrystalline to cryptocrystalline, moderately firm, moderately carbonaceous in part, some Spar Calcite, dense.
Some Siltstone as above.
Much cavings.
- 5430-60 Limestone-Argillaceous Limestone - yellowish to orangish brown, cryptocrystalline to occasionally microcrystalline, moderately firm to moderately soft, slightly to moderately carbonaceous, silty in part, some Spar Calcite.
Shale and Siltstone as above.

Much cavings.

5460-90

Shale - black, frequently bronze cast due to abundant Pyrite, moderately soft to frequently firm and brittle, slightly calcareous in part, highly carbonaceous to petroliferous, sub-platy to sub-blocky.

Limestone-Argillaceous Limestone - as above

Much cavings.

5490-5520

Shale - black commonly with bronze cast from much microcrystalline disseminated Pyrite, frequently dark grayish brown, moderately firm and brittle in part, frequently soft, frequently sub-platy, slightly calcareous in part, highly carbonaceous to petroliferous.

5520-50

Shale as above.

Limestone-Argillaceous Limestone as above, much cavings.

5550-80

Limestone-Argillaceous Limestone - dark brown-dark gray, cryptocrystalline, moderately firm, moderately to highly carbonaceous, dense.

Some Limestone - tan-medium brown occasionally orangish tan, cryptocrystalline to occasionally microcrystalline, some Spar Calcite, frequently pellets, trace oolites.

Much cavings.

5580-5610

Shale - cream-light gray, moderately soft-soft, slightly to moderately calcareous, silty in part.

Siltstone ranging to very fine grained Sandstone - milky-white, generally moderately well consolidated, some loose grains and friable clusters, sub-angular, moderately well sorted, some poor intergranular porosity, no stain, very weak dull yellow fluorescence in part, very weak dull yellow cut in part. Lack of stain and oil globules and very weak show suggest zone not prospective.

Much cavings.

5610-40

Sandstone - very fine grained ranging to Siltstone - generally clear-milky in part, moderately unconsolidated to friable, many loose grains, moderately well sorted, sub-angular, slightly calcareous in part, slightly argillaceous in part, faint brown oil stain on grains, with dull yellow fluorescence in part and fair to good dull bluish-yellow flash cut. Due to friable nature of Sandstone, assume porosity is fair to good, oil stain is weak, but cut good, zone warrants E-log scrutiny.

Some Shale as above.

Much cavings.

5640-50

Sandstone - fine-very fine grained, occasionally ranging to Siltstone, clear-milky, moderately unconsolidated, frequently friable, commonly loose grains, slightly calcareous in part, slightly argillaceous in part, generally moderately sorted, occasionally poorly sorted, generally sub-angular, some fair intergranular porosity, some very faint brown oil stain in part, some spotty brown oil stain on grain contacts, dull yellow fluorescence, weak slow bluish-yellow cut, porosity appears sufficient, put visual show marginal, E-logs warrant close review.

Some Shale as above.

Much cavings.

5650-80

Sandstone as above, possibly cavings.

Limestone-Dolomite Limestone - yellowish to orangish brown, occasionally drab olive brown, microcrystalline, moderately soft to moderately firm, moderately to highly carbonaceous, frequently Spar Calcite.

Shale - light gray-cream, slightly to moderately calcareous, moderately soft, silty in part, slightly to moderately carbonaceous, frequently specks carbonaceous material.

5680-5710

Limestone - Dolomite Limestone as above.

Sandstone - fine-grained ranging to very fine grained, milky-clear, generally loosely consolidated to friable, moderately well sorted, sub-angular, slightly calcareous in part, some fair intergranular porosity, generally no stain, some

very faint spotty brown oil stain on grain contacts, dull yellow fluorescence, very weak slow bluish yellow cut. Frequently silty, very poor show.

Some Shale as above.

5710-40

Sandstone as above.

Limestone-Dolomite Limestone as above.

Shale as above.

5740-70

Shale - light-medium gray, frequently cream, slightly to moderately carbonaceous, moderately soft, frequently silty, frequently specks carbonaceous material, some Pyrite.

Sandstone very fine grained ranging to Siltstone as above.

5770-5800

Shale as above.

Sandstone very fine grained ranging to Siltstone as above.

5800-5920

Shale - light gray-cream, occasionally medium gray, slightly calcareous, moderately soft to moderately firm.

Siltstone ranging very fine grained Sandstone, milky-clear, slightly calcareous, slightly to moderately argillaceous, generally well consolidated, NSFOC.

Sample highly mixed with cavings, probably not reliable.

5920-50

Shale and Siltstone as above.

Limestone - dark brown, cryptocrystalline, firm to frequently brittle, moderately carbonaceous.

5950-6000

Shale - black-grayish black, moderately firm, sub-blocky, moderately calcareous, moderately to highly carbonaceous.

Limestone as above.

TOTAL DEPTH - 6000' Driller.

CONFIDENTIAL

RECEIVED

NOV 10 1994

DIV OF OIL, GAS & MINING

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



DENNIS REHRIG & ASSOCIATES, INC.

OIL & GAS CONSULTING

GEOLOGIC WELL LOG

BALCRON OIL 44-33Y FEDERAL
778' FSL, 624' FEL, SECTION 33, T 8 S-R 18 E
UINTAH COUNTY, UTAH

ELEVATIONS: 4851' G.L. 4861' K.B.

SPUD: 6:30 AM (MDT) 9/24/94

OUT FROM UNDER SURF. CSG.: 4:00 PM (MDT) 9/25/94

DATE DRLG. COMP.: 4:00 AM (MDT) 10/2/94

DATE WELL COMPLETED: 8:30 PM (MDT) 10/3/94

STATUS: P & A

SURF. CSG.: 312' OF 8 5/8"

PRODUCTION CSG.: NONE

CORES: NONE

DRILL STEM TESTS: NONE

CONTRACTOR: UNION DRILLING CO.

RIG: 17

DERRICK: CABOT FRANKS, 97' MAST

DRAWWORKS: DETROIT 3304, POWERED BY
ONE 343 DIESEL CAT

PUMPS: 1 - GARDINER DENVER FXN 14" STROKE,
5 1/2" LINER

DRILL PIPE: 4 1/2" OD, 2 1/4" ID, X-H THREAD

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

MUD SYSTEM: AIR/FOAM TO 4298'; KCL/WTR 4298'-TD

TOTAL BITS: 4

TOTAL DAYS TO LOG POINT: 9 TO COMPL: 10

T.D. DRILLER 6000' LOGGER 6000'

PENETRATION: 55' BELOW 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
	GLAUCONITE		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
	STROMATOPORA		PISOLITE 2mm. or over
	BRYOZOA		PSEUDO OOLITES or PELLETS
	BRACHIOPOD		INTRACLASTS
	OSTRACOD		

FRAMEWORK ALGAE

	SKELETAL
	OOTOID or ONCOLYTIC

NON-FRAMEWORK ALGAE

	NON-DESCRPT
	LAMINATED

MISCELLANEOUS

	NO SAMPLES		QUESTIONABLE INTERPRETATION
	CANNOT INTERPRET. cavings, etc		STYLOLITES

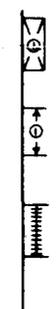
POROSITY TYPES

X	INTERCRYSTALLINE, INTERGRANULAR, INTERFRAGMENTAL	O	ORGANIC - bridged, Intrafossil
Q	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

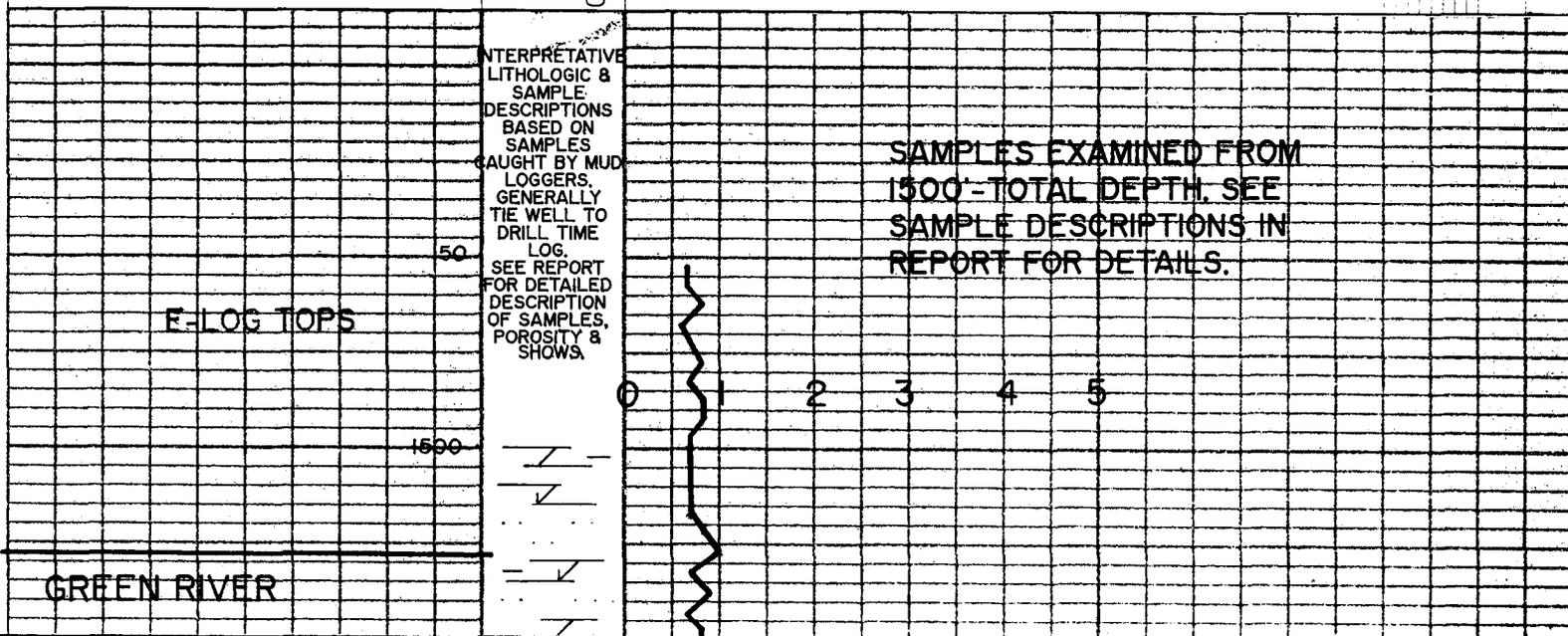
V	VISCOSITY
W	WEIGHT IN lbs/gal
WL	FILTRATE IN cc
FC	FILTER CAKE
CL	CHLORIDE CONTENT (ppm)
Rm	MUD RESISTIVITY (Ω)
Rmf	MUD FILTRATE RESISTIVITY (Ω)

ELECTRIC LOG
GAMMA RAY / CALIPER

INTERPRETED
LITHOLOGY
AND
DEPTH

DRILLING PENETRATION
RATE (MIN / FT)

CASING & PERFORATIONS
CORE & DST
OIL SHOWS
POROSITY (%)



RECORDED BY: [Name] DATE: [Date]

1600

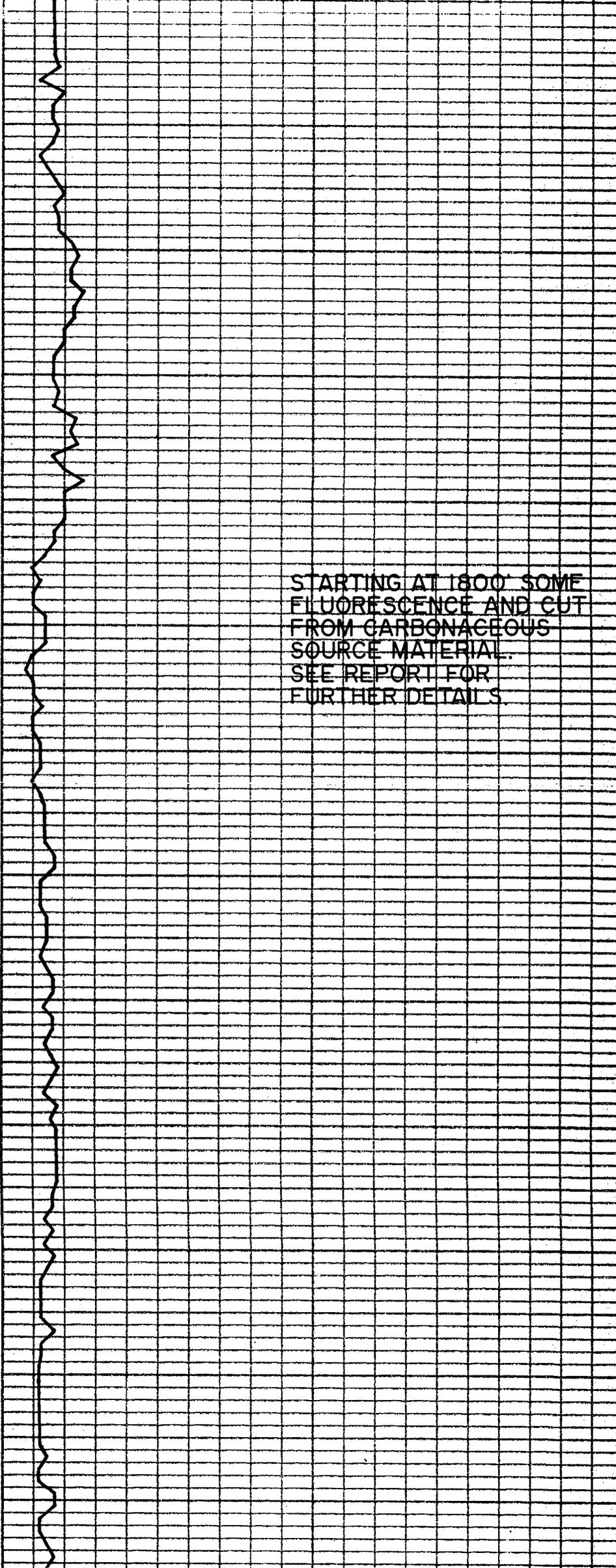
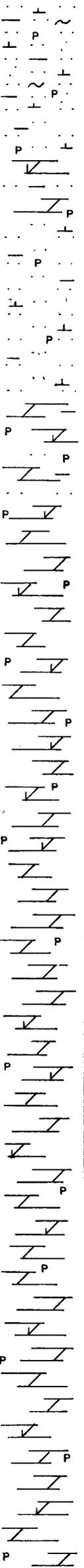
1700

1800

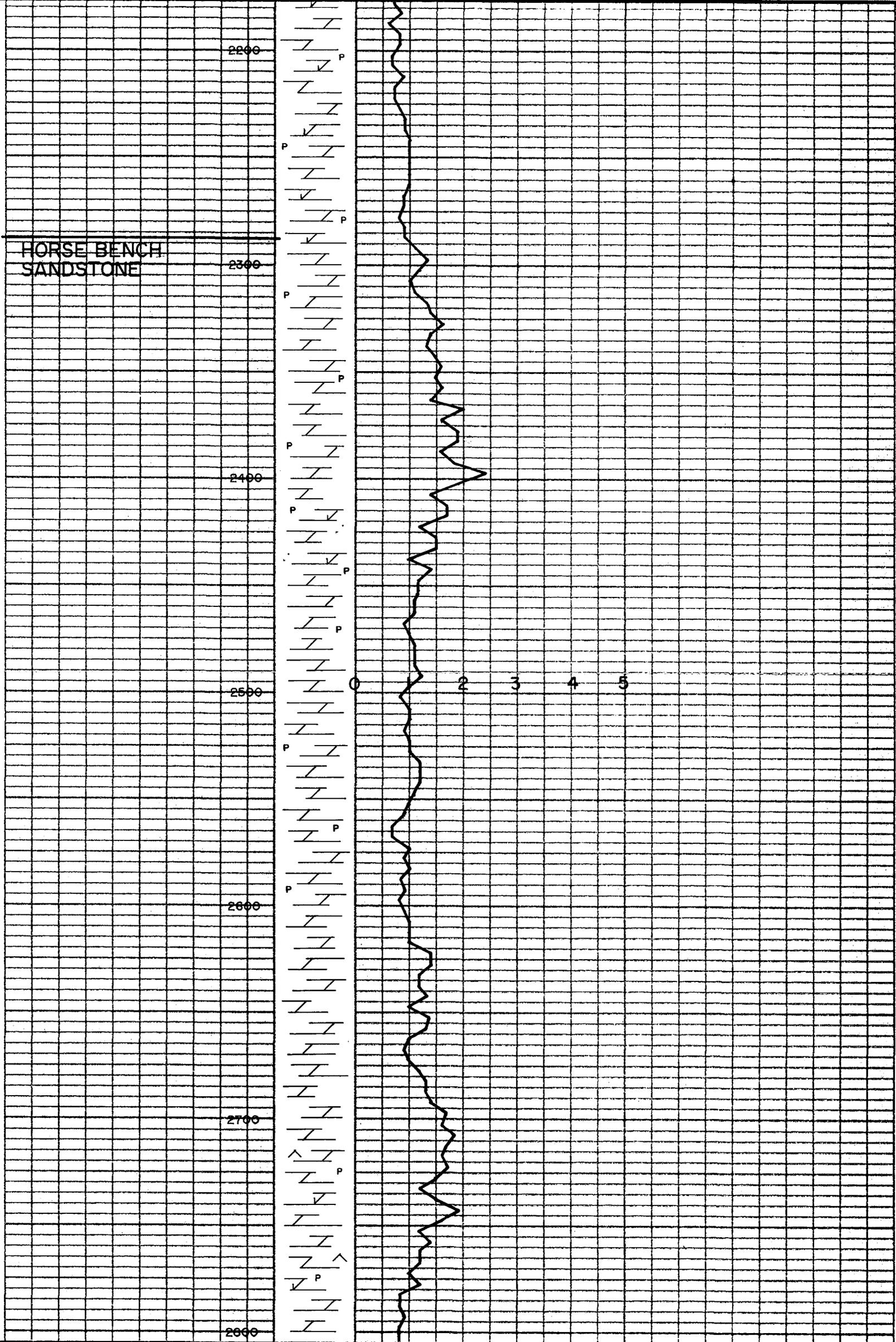
1900

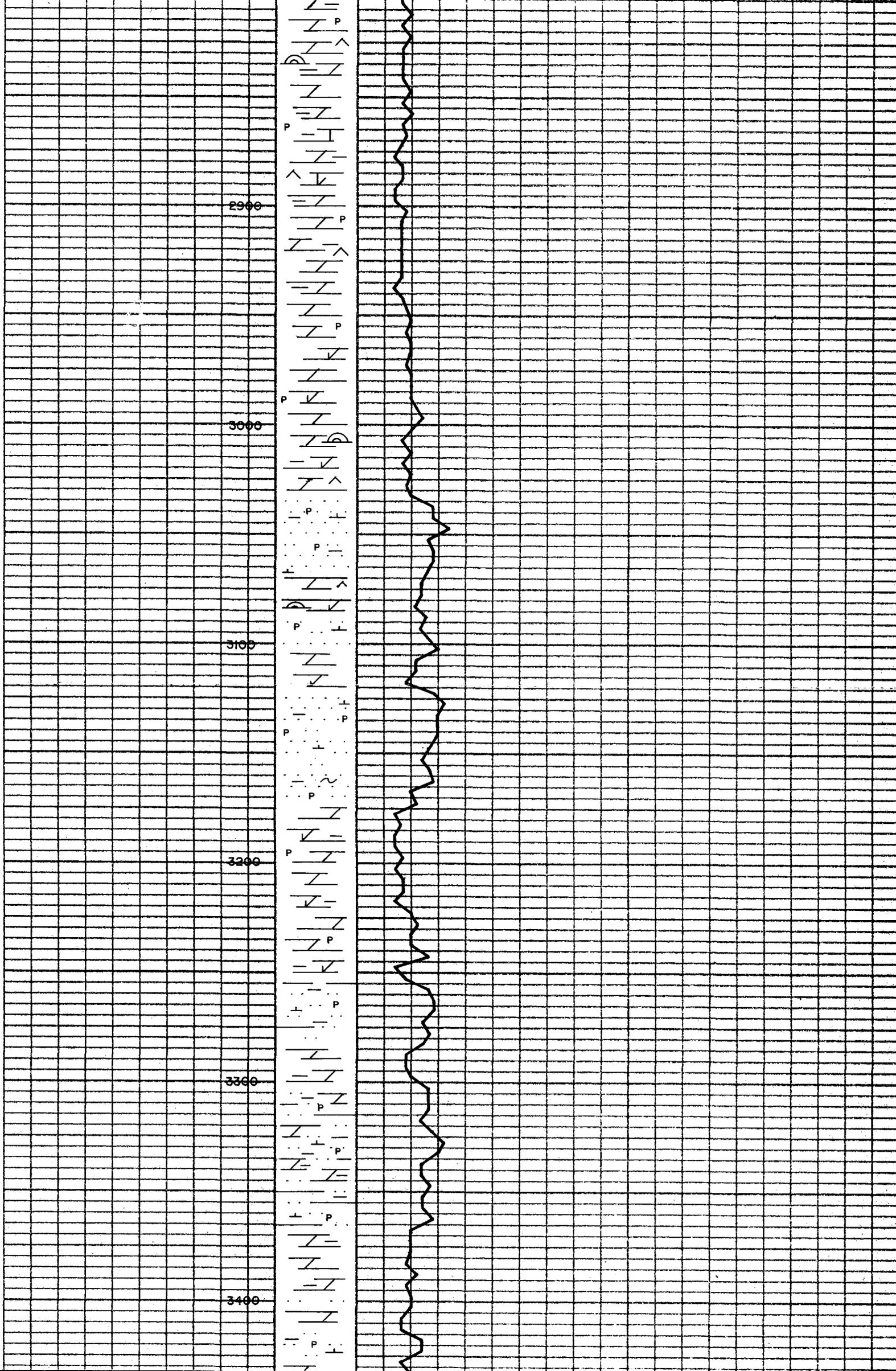
2000

2100



STARTING AT 1800 SOME
 FLUORESCENCE AND CUT
 FROM CARBONACEOUS
 SOURCE MATERIAL.
 SEE REPORT FOR
 FURTHER DETAILS.





2900

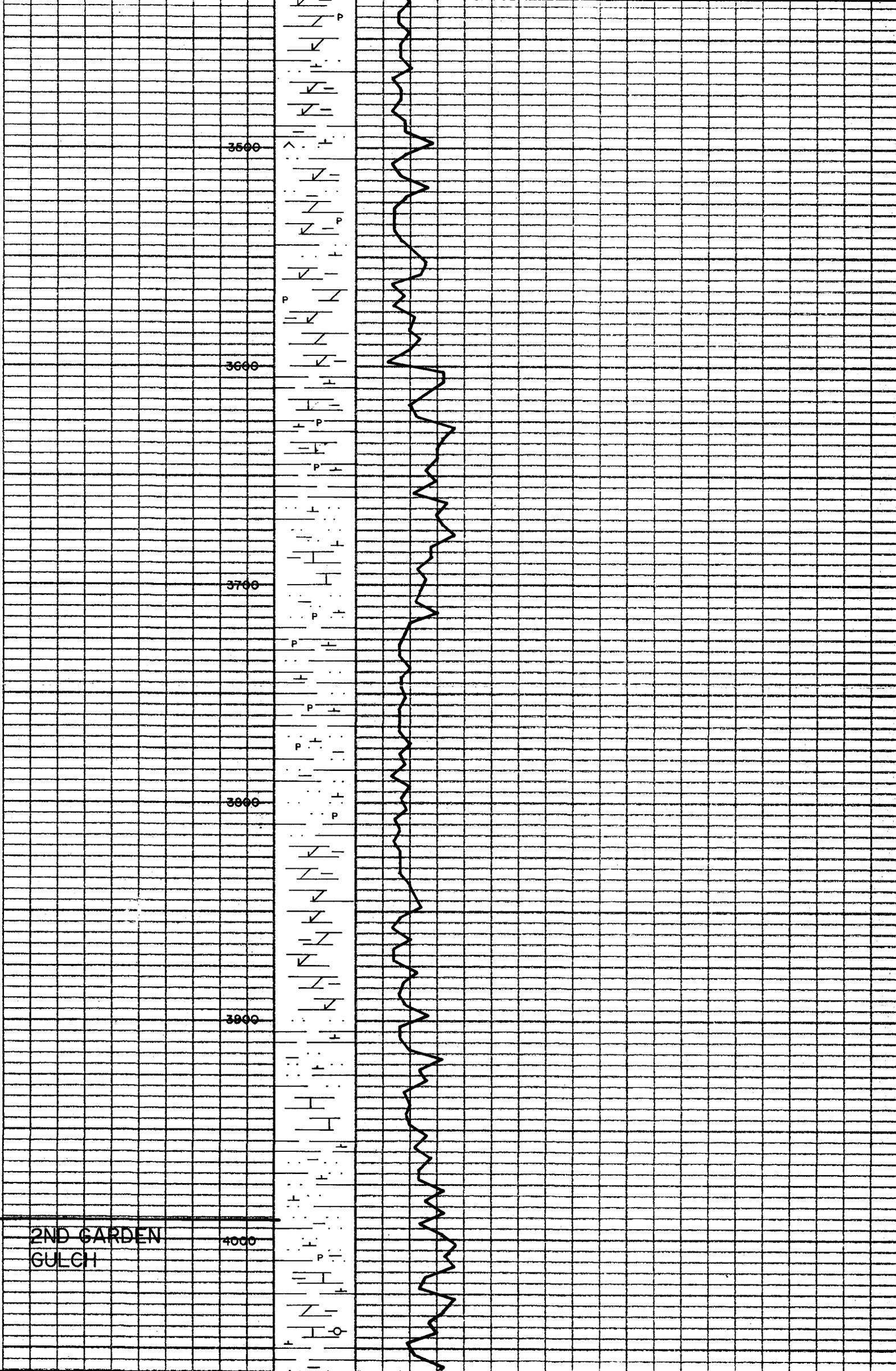
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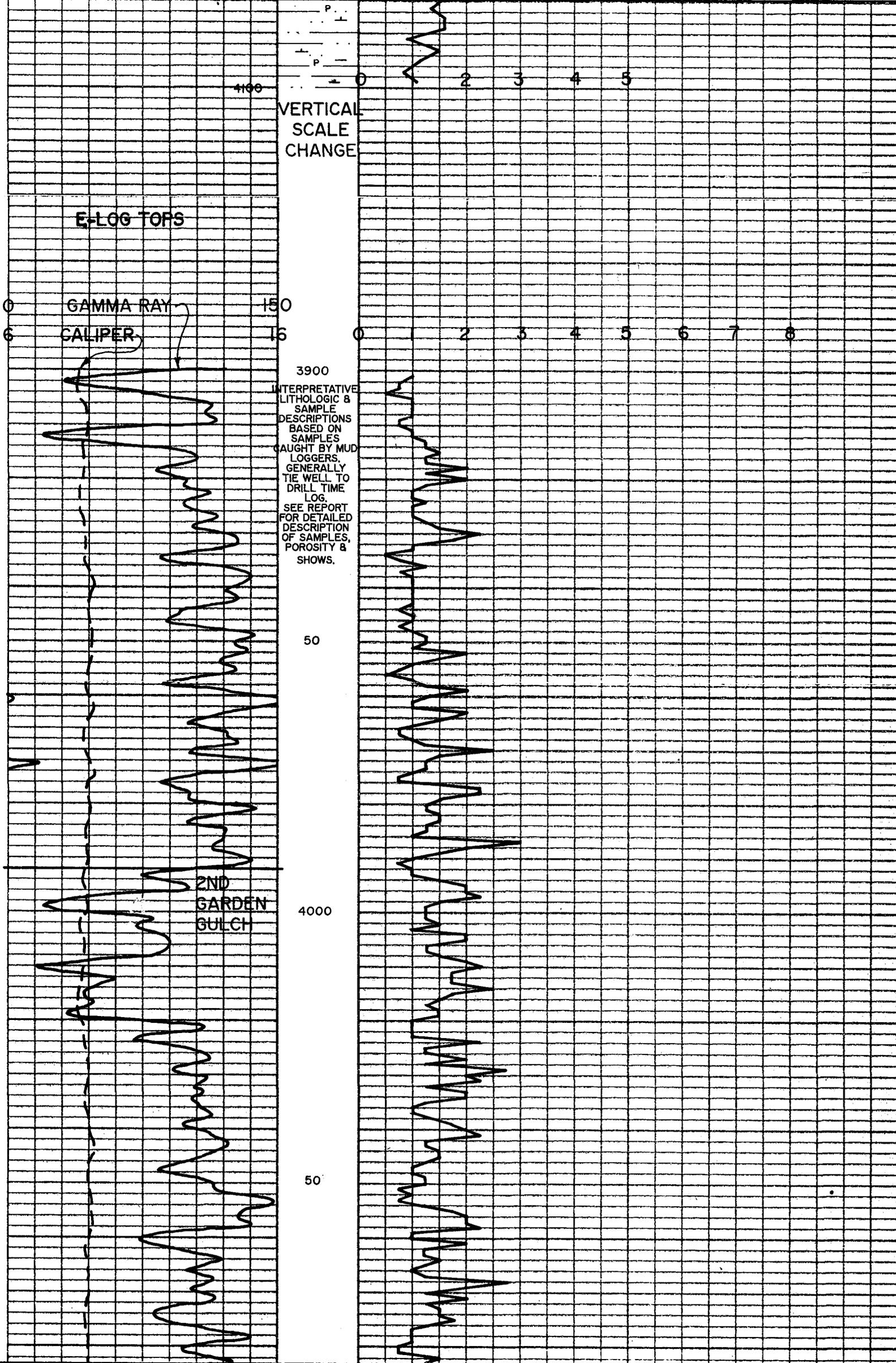
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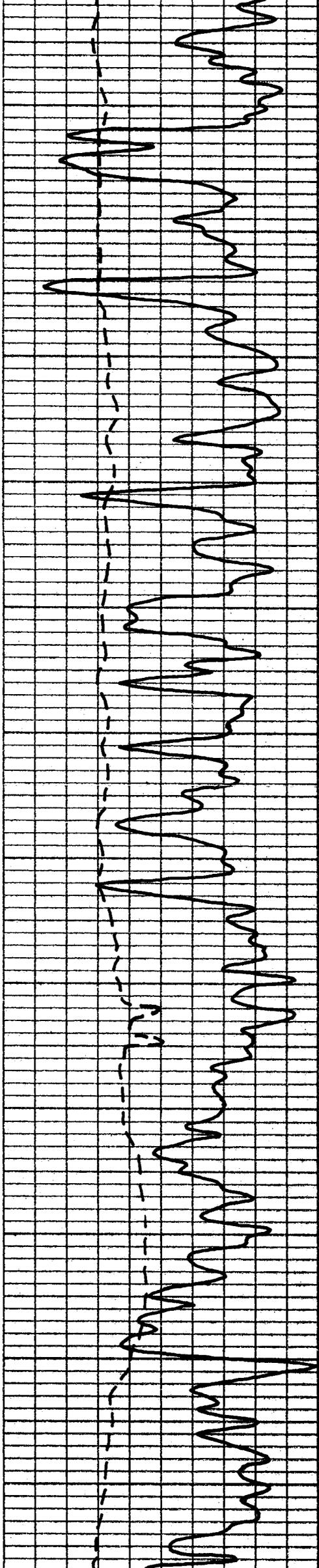
3200

3300

3400







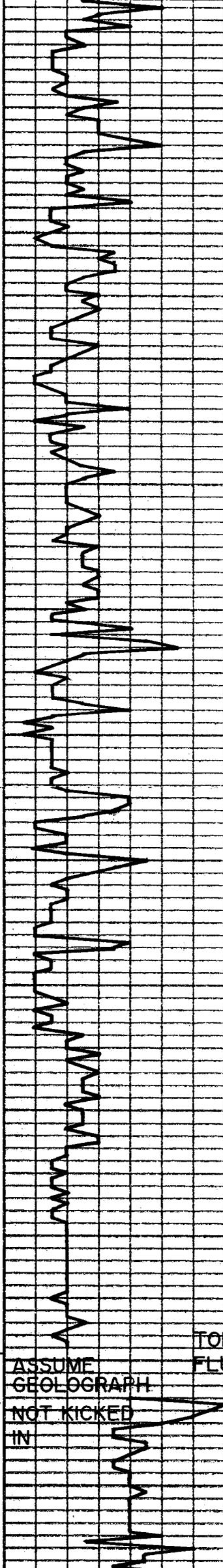
4100

50

4200

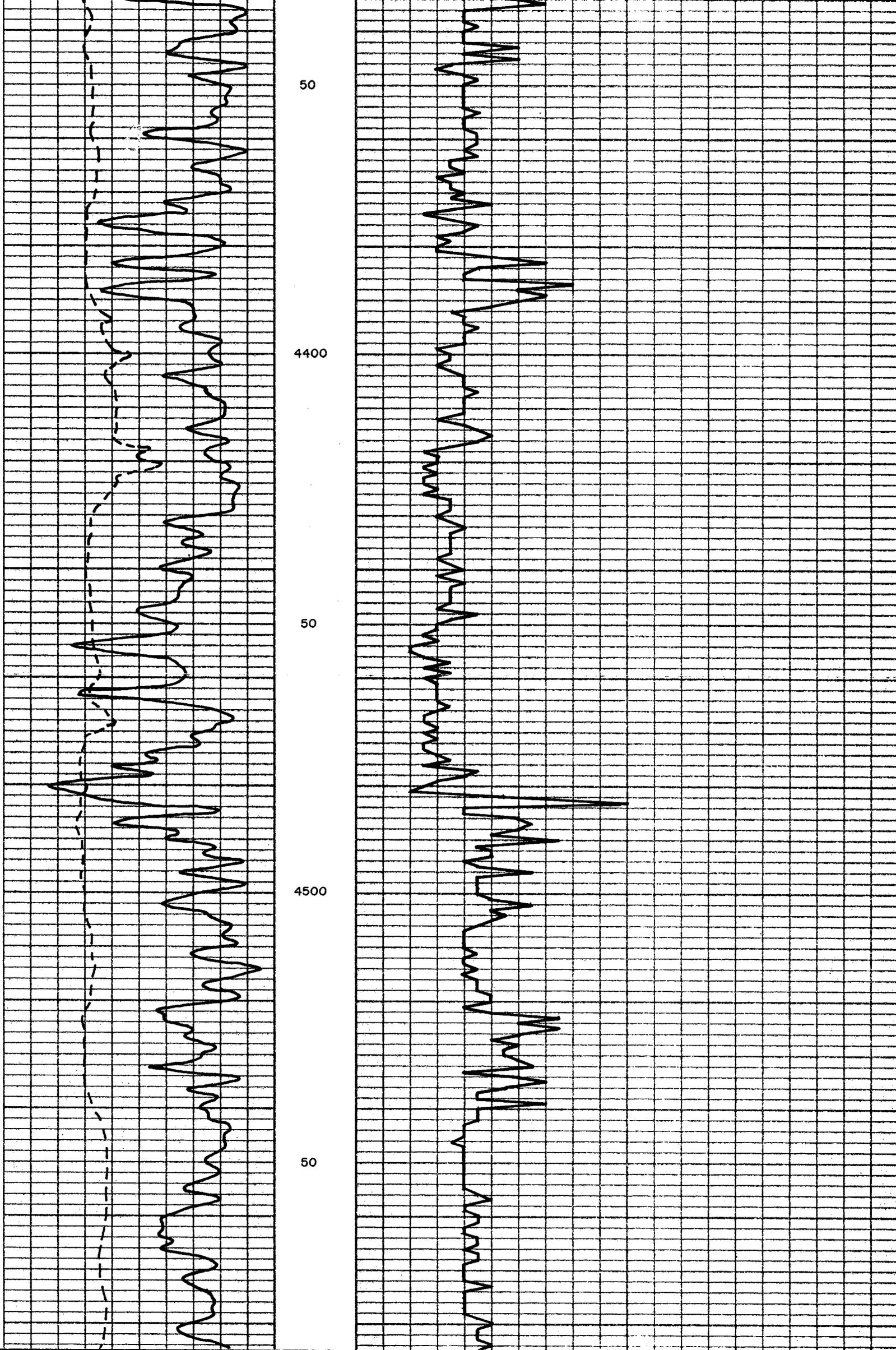
50

4300



ASSUME
GEOLOGRAPH
NOT KICKED
IN

TOH TO CHANGE OVER TO
FLUID & CHANGE BIT



YELLOW
MARKER

4600

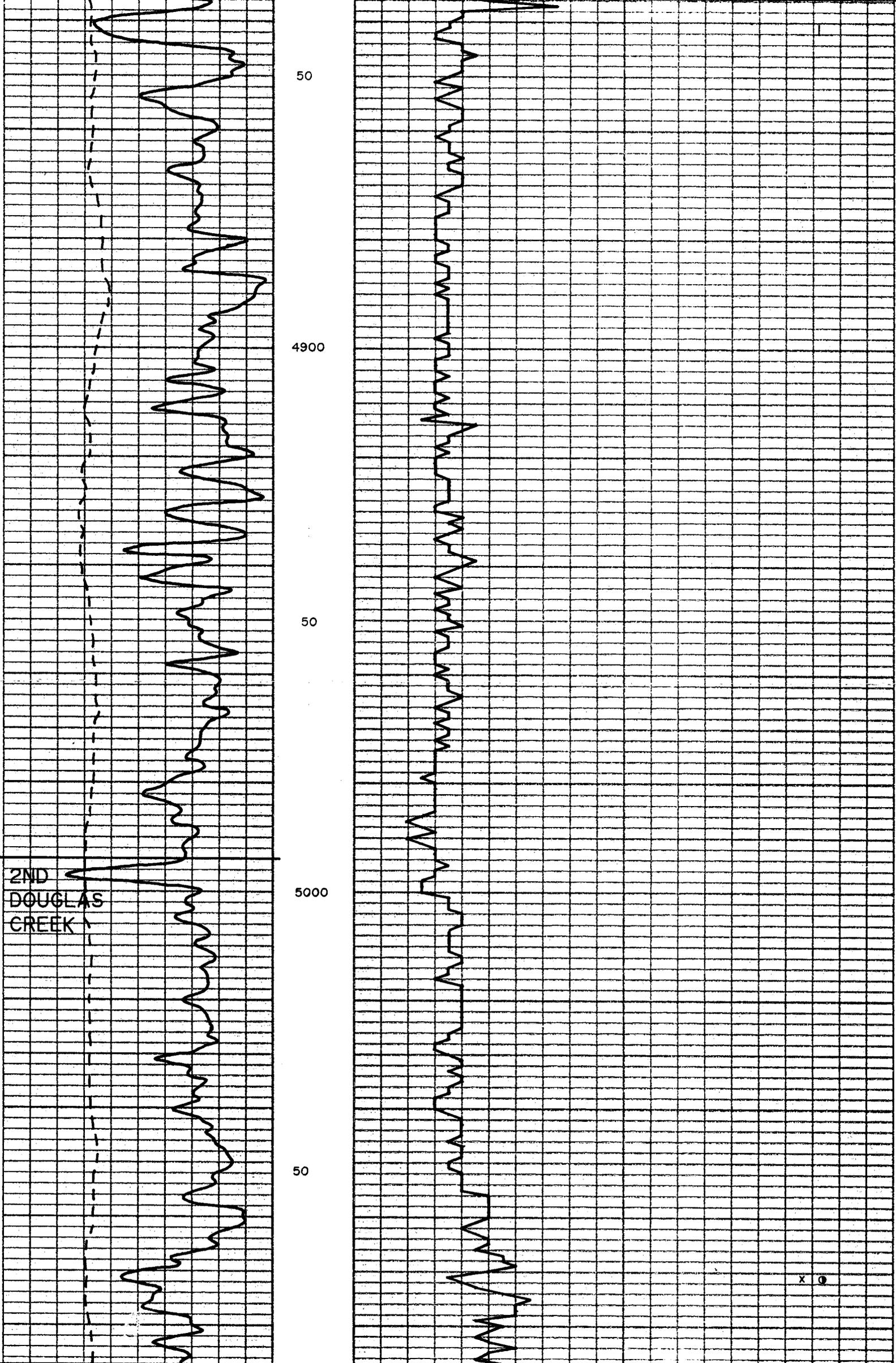
50

4700

50

DOUGLAS
CREEK

4800



2ND
DOUGLAS
CREEK

50

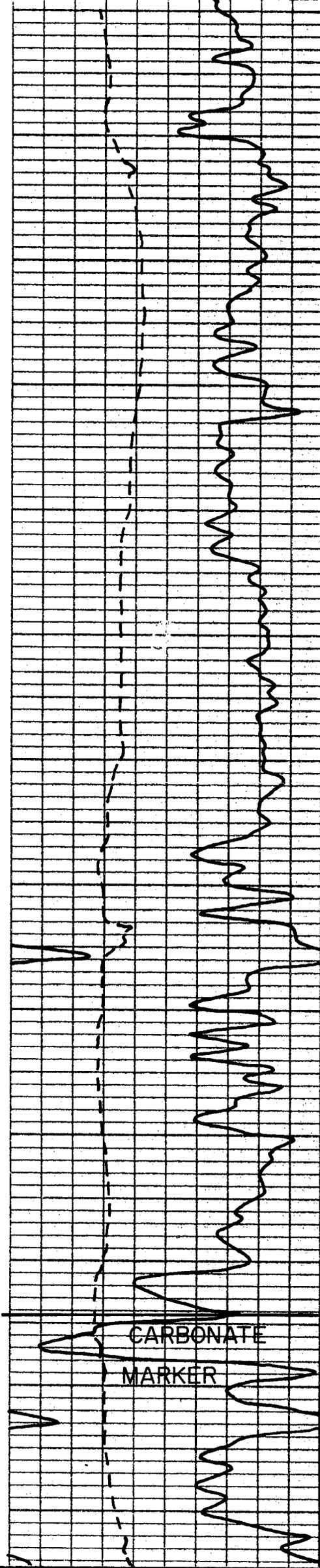
4900

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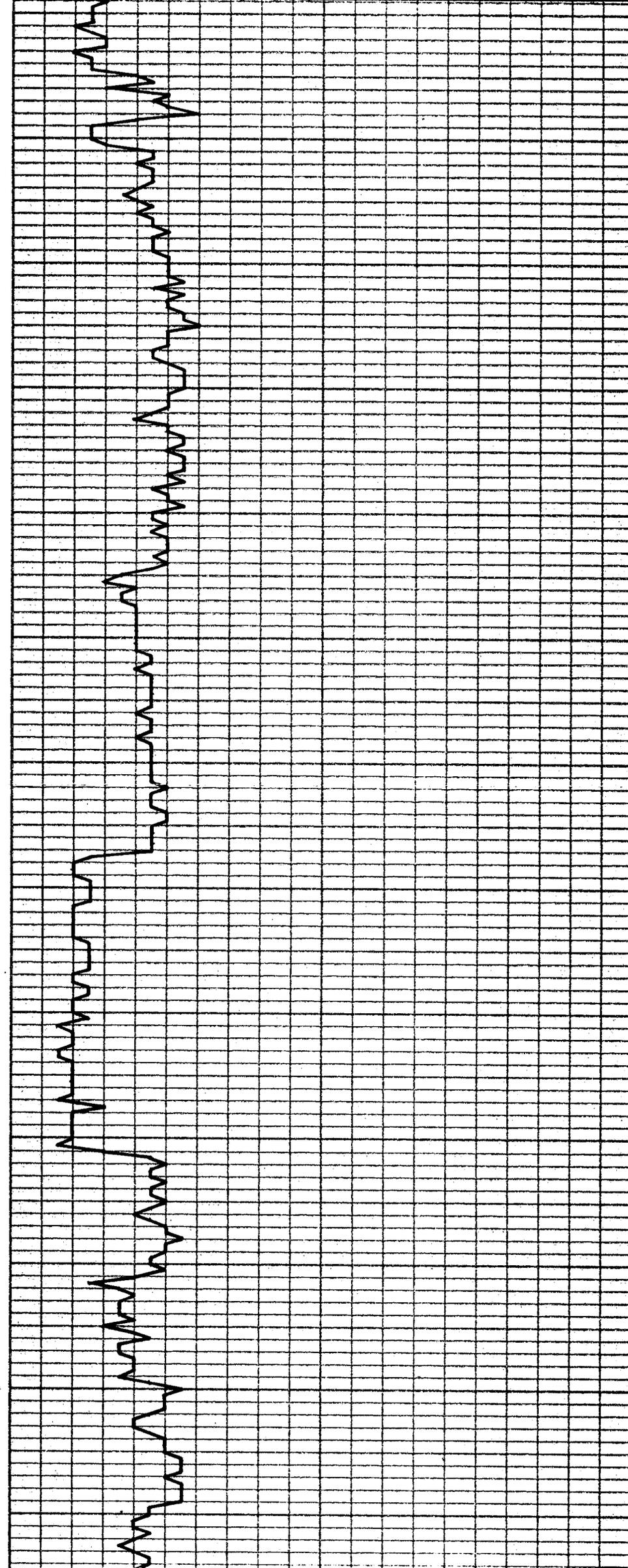
5000

50

X 0



50
5400
50
5500
50



x ●
| ○

x ●
| ○

x ●
| ○

x ●
| ○

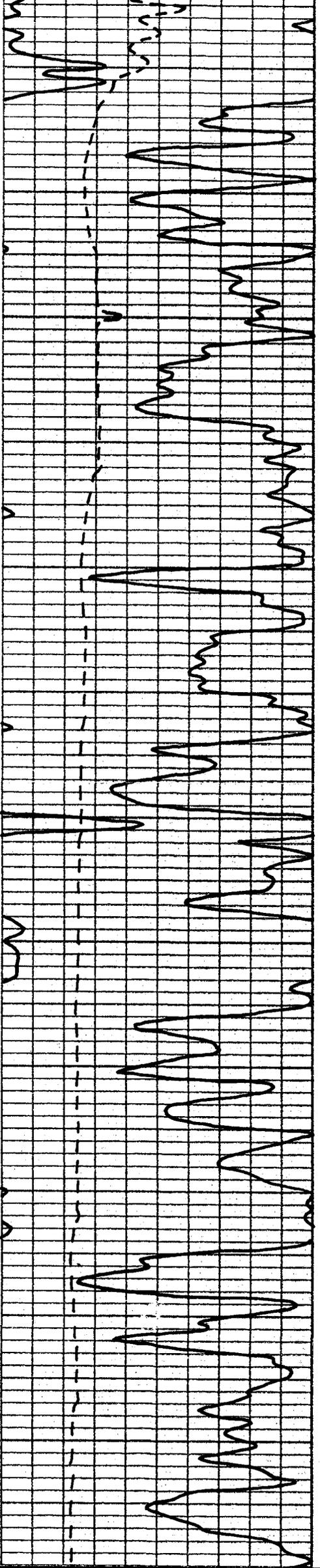
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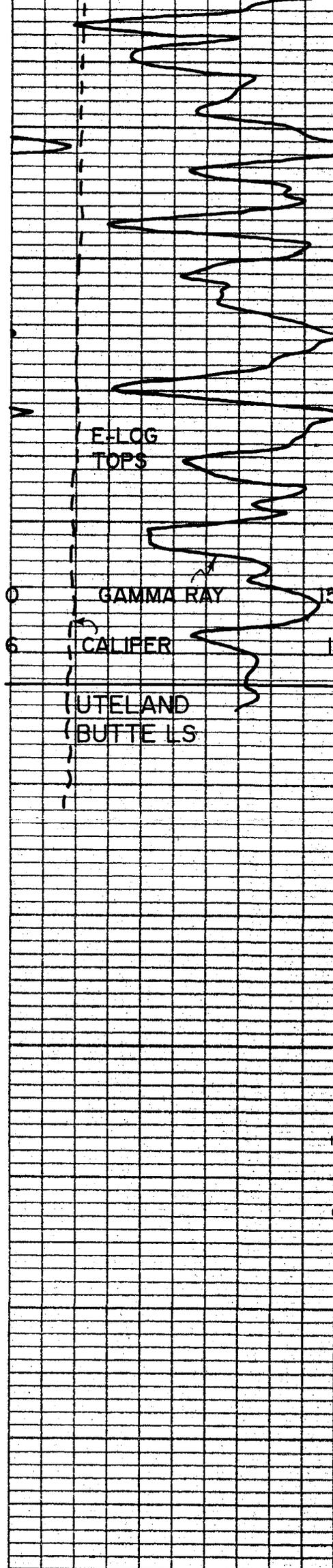
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5700

50

5800



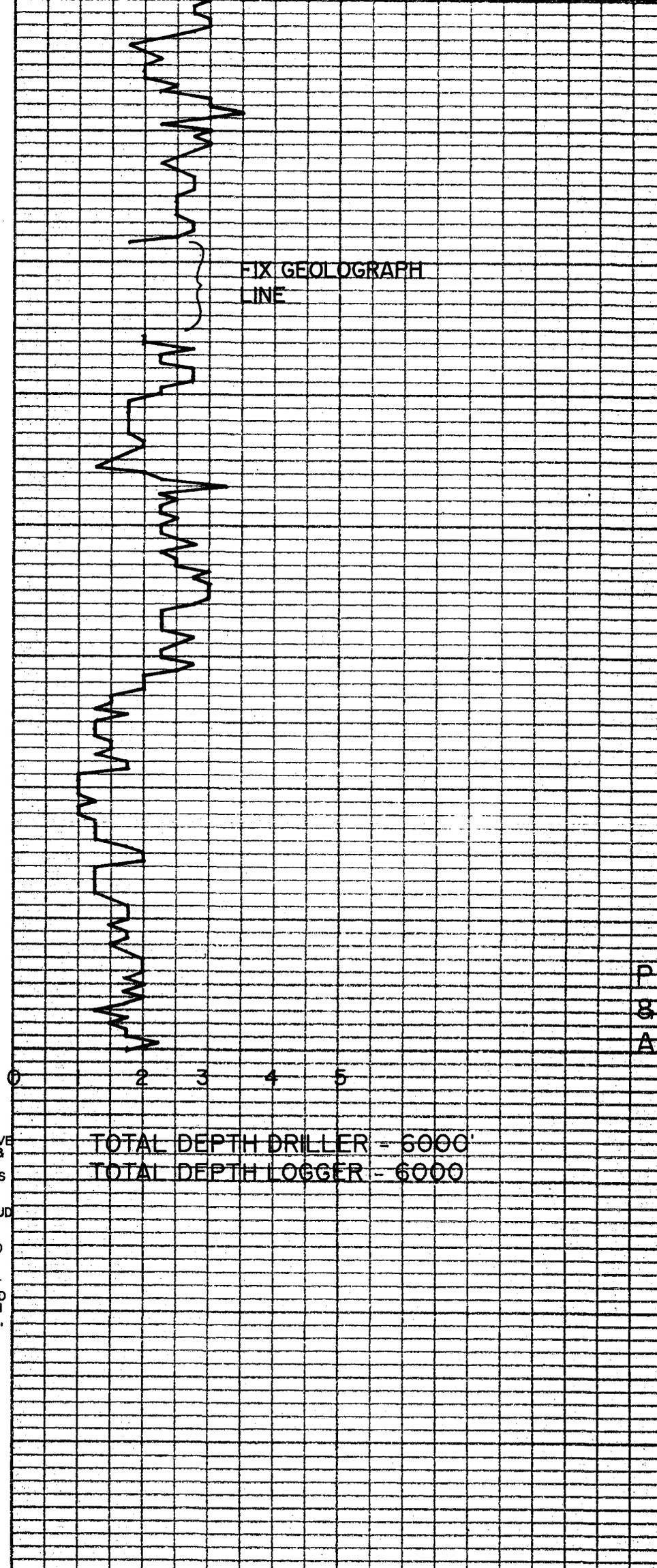


50

5900

50

6000



TOTAL DEPTH DRILLER - 6000'

TOTAL DEPTH LOGGER - 6000'

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.

P
8
A

Form 3160-4
(November 1983)
(formerly 9-330)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

SUBMIT IN DUPLICATE*

(See other instructions on reverse side)

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

WELL COMPLETION OR RECOMPLETION REPORT AND LOG *

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

1b. TYPE OF COMPLETION: NEW WELL WORK OVER REFR. EX. PLUG BACK PIPE REPAIR OTHER

CONFIDENTIAL

2. NAME OF OPERATOR
Equitable Resources Energy Company, Balcon (11 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 778.4' FSL, 623.7' FEL
At top prod. interval reported below OCT 5 1994
At total depth

5. LEASE DESIGNATION AND SERIAL NO.
U-65969

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

7. UNIT AGREEMENT NAME
n/a

8. FARM OR LEASE NAME
Balcon Federal

9. WELL No.
#44-33Y

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

11. SEC., T., R., N., OR BLOCK AND SURVEY OR AREA
SE SE Section 33, T8S, R18E

14. PERMIT NO. 43-047-32505 DATE ISSUED 6-14-94
12. COUNTY OR PARISH Utah
13. STATE Utah

15. DATE SPudded 9-24-94
16. DATE T.D. REACHED 10-2-94
17. DATE COMPL. (Ready to prod.) n/a
19. ELEVATIONS (OF, HND, RT, OR, ETC.)* 4850.7' CL
18. ELEV. CASINGHEAD n/a

20. TOTAL DEPTH, MD & TVD 6,000'
21. PLUG. BACK I.D., MD & TVD n/a
22. IF MULTIPL. COMPL., HOW MANY? n/a
23. INTERVALS DRILLED BY
24. ROTARY TOOLS Sfc - TD
25. CABLE TOOLS n/a

24. PRODUCING INTERVAL(S), OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD)*
n/a
25. WAS DIRECTIONAL SURVEY MADE
No

26. TYPE ELECTRIC AND OTHER LOGS RUN
DL - CNL - LDI
27. WAS WELL CURED
No

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

CASING SIZE	WEIGHT, LB./FT.	DEPTH SET (MD)	HOSE SIZE	CEMENTING RECORD	AMOUNT PULLED
8-5/8"	26#	312.50'	12-1/4"	200 sacks Class "G" w/additives	None

29. LINER RECORD

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

30. TUBING RECORD

SIZE	DEPTH SET (MD)	PACKER SET (MD)
n/a		

31. PERFORATION RECORD (Interval, size and number)
n/a

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

DEPTH INTERVAL (MD)	AMOUNT AND KIND OF MATERIAL USED
n/a	

33. PRODUCTION

DATE FIRST PRODUCTION	PRODUCTION METHOD (Flowing, gas lift, pumping—size and type of pump)	WELL STATUS (Producing or shut-in)
n/a	n/a	P & A

DATE OF TEST	HOURS TESTED	CHOKES SIZE	PROD'N. FOR TEST PERIOD	OIL—BBL.	GAS—MCF.	WATER—BBL.	GAS-OIL RATIO

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

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

35. LIST OF ATTACHMENTS

36. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records
SIGNED Bobbie Schuman TITLE Regulatory and Environmental Specialist DATE 10-4-94

(2)

#367 P03

FAX NO:

FEB-27-'96 TUE 08:30 ID:

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

38. GEOLOGIC MARKERS

FORMATION	TOP	BOTTOM	DESCRIPTION, CONTENTS, ETC.	NAME	TOP	
					MEAS. DEPTH	TRUE VERT. DEPTH
				A Marker	4208'	
				B Marker	4463'	
				Douglas Creek	4838'	
				D Marker	5097'	
				F Marker	5627'	
				Lower GR LMST	6012'	

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-65969

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 #44-33Y

9. API Well No.

43-047-32303

10. Field and Pool, or Exploratory Area

8 Mile Flat North / Green River

11. County or Parish, State

Utah 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) 259-7880

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

SURFACE: 6E 6E Section 33, T8S, R16E
TD: 778.4' F&L, 823.7' F&L

OCT 27 1994

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

TYPE OF SUBMISSION

Notice of Intent
 Subsequent Report
 Final Abandonment Notice

TYPE OF ACTION

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

Please Report results of multiple completion on this Completion & Resumption 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 plugged and abandoned as follows:

Well plugged on 10-3-94.

- Plug #1 5534' - 5384' 82 sacks Class "G" w/additives
- Plug #2 3743' - 3663' 70 sacks Class "G" w/additives
- Plug #3 1523' - 1413' 122 sacks Class "G" w/additives
(First attempt went down hole, Second successful)
- Plug #4 342' - 242' 60 sacks Class "G" w/additives
- Plug #5 Surface - 50' 18 sacks Class "G" w/additives

Witnessed by Dave Brown of the Bureau of Land Management.

VERNAL DIST
BENG. JWA 10/1/94
GEOLOGIST
E.S. J.O. 10/1/94
PET. D.A.B.
A.M.

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 John J. Schuman Title _____
Conditions of approval, if any: _____

Date OCT 27 1994

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

CONDITIONS OF APPROVAL ATTACHED TO OPERATOR'S COPY

FEDERAL 44-33Y
778' FSL & 624' FEL (SE/SE)
SECTION 33, T8S, R18E
EIGHT MILE FLAT NORTH FIELD
UINTAH COUNTY, UTAH

Spud: 9/24/94
Compl: 10/3/94

GL: 4851'

PLUG #5: 50' - surface w/
18 SX CLASS G

Base of USDW @ 251'

PLUG #4: 342' - 242' w/
60 SX CLASS G

PLUG #3: 1523' - 1413' w/
122 SX CLASS G

PLUG #2: 3743' - 3663' w/
70 SX CLASS G

PLUG #1: 5534' - 5384' w/
82 SX CLASS G

12-1/4" hole

8-5/8", 24# Csg. @ 312'
Cmtd. w/200 sx to surf.

Uinta Formation @ Surface

Top of Green River Formation
@ 1528'

7-7/8" hole

Wasatch Tongue of Green
River Formation @ 6012'

TD @ 6000'

CURRENT WELLBORE DIAGRAM

